

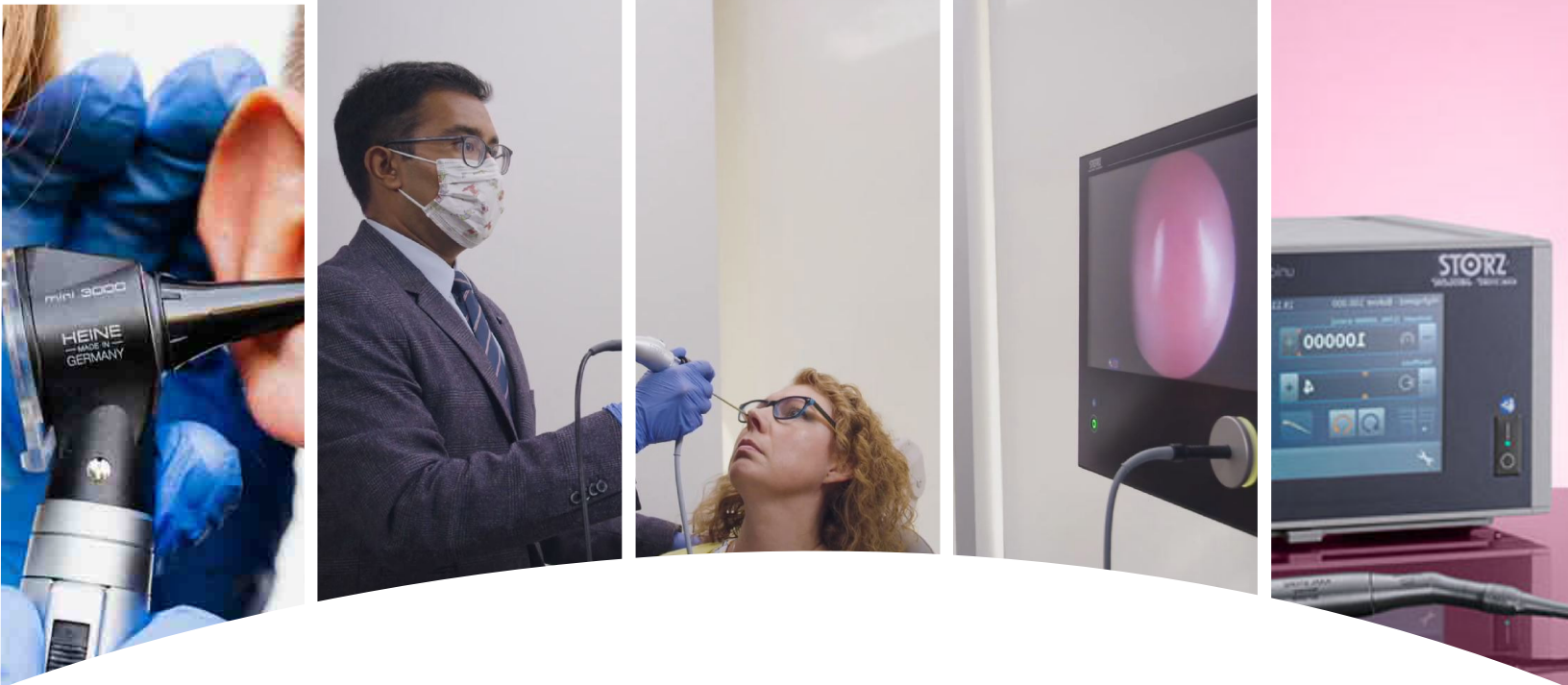


CATÁLOGO

Otorrinolaringología

- . Instrumental
- . Dispositivos médicos
- . Lavado y desinfección





Otorrinolaringología

Instrumental | Dispositivos médicos | Lavado y desinfección

Ofrecemos soluciones integrales para la especialidad de otorrinolaringología. Nuestro catálogo incluye una selección de productos de alta calidad de reconocidas marcas como Karl Storz, Heine y Nouvag y marcas especializadas para el lavado y desinfección tanto de instrumental como de espacios médicos.

Desde instrumental endoscópico avanzado hasta dispositivos de diagnóstico y equipos quirúrgicos de precisión, cada producto ha sido cuidadosamente elegido para proporcionar a los profesionales de la salud las herramientas necesarias para brindar atención médica de excelencia. Explore nuestra gama de soluciones innovadoras diseñadas para mejorar la precisión, eficiencia y resultados en el campo de la otorrinolaringología.

STORZ
KARL STORZ — ENDOSKOPE



NOUVAG⁺



borer

BIOBASE



Especialistas en
Esterilización y
Envase





Desinfección de alto nivel en sólo 10 - 12 minutos

SANIDEX OPA

Desinfectante de alto nivel para instrumental quirúrgico



Aclarado rápido para todos los dispositivos.



Reduce el riesgo de contaminación cruzada.



Uso seguro con caucho, plástico, metal o instrumentos con lentes.



Contiene un sistema de inhibición de corrosión, que optimiza la eficacia y la compatibilidad.



Composición:
Ortho - Phthalaldehyde 0,55% p/p.



¿Porqué utilizar Sanidex OPA?

Solución simple y lista para usar, no requiere dilución / activación. Eficaz contra sepas de glutaraldehído (Mycobacterium chelonae y Mycobacterium terrae).



Almacenamiento:
Conservar en su empaque original debidamente cerrado a una temperatura controlada (15° - 30°C)



Modo de aplicación:

Los instrumentos deben limpiarse a fondo, ser enjuagados y secados antes de utilizar la solución Sanidex OPA. Después de usar la solución Sanidex OPA, los instrumentos deben limpiarse a fondo antes de su uso.



Con múltiples enzimas para una rápida y completa penetración.



SANIZYME X

Multi enzimático para la limpieza de equipos médicos y quirúrgicos.



Amigable con el medio ambiente y rentable.



Biodegradable y fácil de usar.



Para uso en sistema automatizado y reprocesamiento manual.



pH neutro - No corrosivo - Se puede usar en limpieza de endoscopios



Composición:

- Proteasa • Lipasa
- Celulosa • Amilasa



Instrucciones de uso

- Para el uso en el sistema de limpieza automática:

Mínimo 4 ml por 1 litro de agua.

- Para la limpieza manual:

Mínimo 8 ml por 1 litro de agua.



Aplicación

- Para remojo y limpieza de instrumental médico y dispositivos reutilizables.
- Unidades de limpieza ultrasónica.
- Lavado de túneles y/o unidades de reprocesamiento automático de endoscopios.

SIRMAXO



Mata el 99.95% de microorganismos en solo 30 segundos.

SANISCRUB E

Desinfectante de manos de alto nivel

Alcohol + solución de gluconato de clorhexidina



Amplio espectro y actividad antimicrobiana persistente.



Previene la transferencia de patógenos asociados a enfermedades nosocomiales.



Reduce la presencia bacteriana en las manos más que el jabón.



Ofrece suavidad en la piel gracias a los hidratantes y emolientes de su formulación.



Modo de aplicación:

Provee una rápida desinfección y asepsia de manos y pies. Úselo sin diluir.



Composición:

Solución de Gluconato de Clorhexidina BP

2.5%v/v - Eq. A Gluconato de:

Clorhexidina 0.5%v/v

Etanol 70%v/v



Almacenamiento:

Almacenar a menos de 25°C, proteger de la luz.



Mata el 99,95% de los microbios en sólo 30 segundos.

Frote de manos con emoliente y crema hidratante.

Actividad residual prolongada hasta 6 horas.

Fórmula no pegajosa para una sensación suave y refrescante.

Por lo tanto, su aplicación fácil y rápida se puede utilizar entre pacientes y procedimientos.

No se necesita lavado ni toalla, por lo que se ahorra tiempo.

SIRMAXO



Con Persistente actividad antimicrobiana.



SANQUAD M20

Jabón Quirúrgico para todas las áreas médicas



No irrita la piel



Efecto prolongado de 6 horas



efectivo en la reducción de la flora microbiana de la piel



Enriquecido con emoliente para un efecto de suavidad



Composición:

Solución de Gluconato de Clorhexidina IP 20% v/v
Equivalente a Gluconato de Clorhexidina al 4% v/v



Aplicación:

Jabón a base de gluconato de clorhexidina al 4% con emoliente hidratante.

Recomendada por el Centro para el Control y Prevención de enfermedades (CDC).



Instrucciones de uso

Actividad antimicrobiana persistente hasta 6 horas, evitando así el nuevo crecimiento de microbios en la piel.

Fiable para su uso en OT y UCI

Base rica en emolientes avanzados para prevenir las manos secas y agrietadas. Protección y mantenimiento de la integridad de la piel.

Excelente compatibilidad con la piel y no irrita la piel a diferencia de los productos que contienen yodo.



Efectivo para:
 -Áreas críticas -No críticas -Manejo de derrames -Ropa -Nebulización



SANIHIGENE

Desinfectante de alto nivel para ropa y superficies.



Desinfectante aéreo y de superficie libre de aldehídos, cloro y corrosión



Propiedades biodegradable



Ideal para pisos, paredes, mesas, camas, sillas y superficies



Áreas críticas como: UCI, CEYE, quirófano, emergencia, hemodialicis.



Composición:

- Hidrocloruro de Biguanida Polimerica < 10%
- Cloruro de Alquil Dimetil
- Bencilamonio
- Cloruro de Didecil Dimetil Amonio < 10%



Almacenamiento:

Conservar a menos de 30°C y mantener el envase bien cerrado.



Propiedades microbiológicas:

SaniHigene es un esporicida, micobactericida, fungicida virucida y bactericida, pseudomonacida, VIH, VHB, MRSA.

Áreas de aplicación

Áreas críticas:
OT, ICU, NICU, ICCU

Áreas no críticas:
Salas, pisos, paredes OPD, clínica y clínica dental, lavandería, emergencias, fumigación de vehículos.

Dilución

2% (10ml de SaniHigene en 1000ml de agua)

Tomar en cuenta que todas las áreas son críticas.

Tiempo de contacto

10 min.



SaniHigene 1 Litro



Obtenemos **100 Lts.** (Para áreas No Críticas)

1%



Obtenemos **500 Lts.** (Para áreas No Críticas)

1%



Obtenemos **50 Lts.** (Para áreas Críticas)

2%



Obtenemos **250 Lts.** (Para áreas Críticas)

2%





Atomice el producto y limpie con un paño



SANIOCID RF

Desinfectante de superficies



Secado sin residuos visibles



Ideal para áreas críticas como OT, VIH, UCI y clínicas dentales



Desinfección rápida de OT entre cirugías



Desinfectante de superficies a base de alcohol

Composición:

Cada 100 gms contiene:

- Propanol 22 gms
- Propanol 40 gms

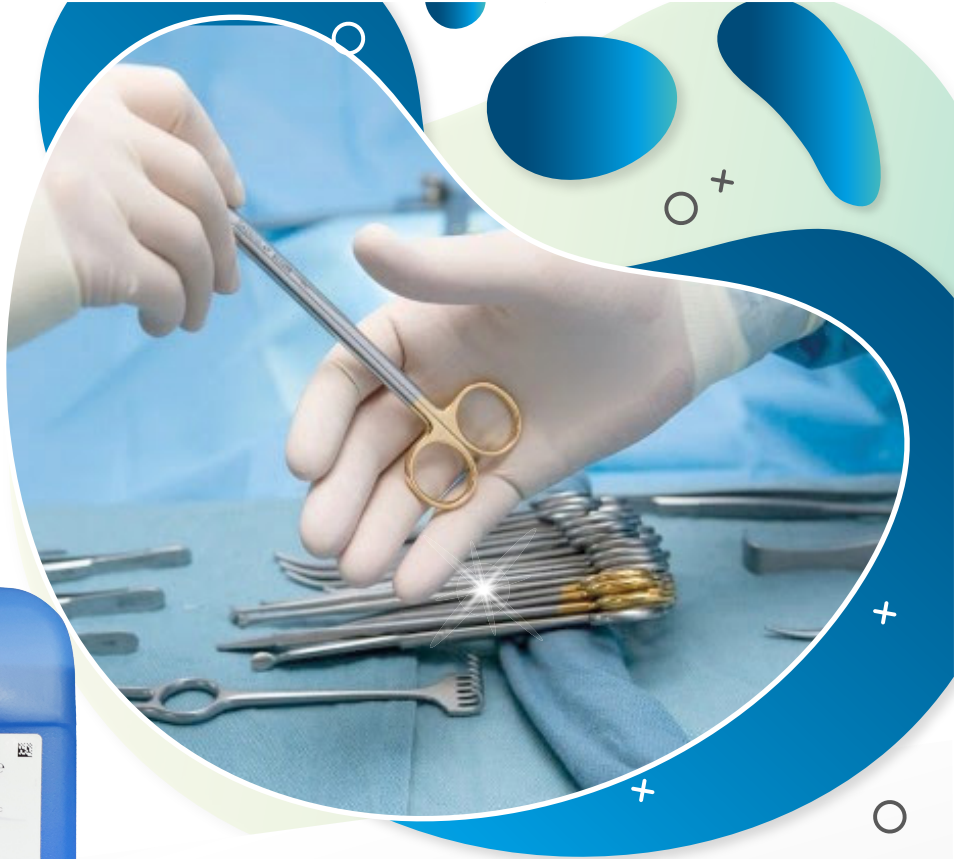
Instrucciones de uso

- Sature el paño con solución RF de Saniocid y limpie las superficies.
- Si se rocía el producto, limpie con un paño.
- Cuando las superficies se humedecen por completo, la solución es efectiva en 30 segundos.

Aplicación

SaniocidRF es adecuado para la realización de una desinfección rápida.

A través de su atomizador permite la pulverización de superficies, dispositivos médicos y secciones estériles. Se recomienda su uso en áreas de cirugía ambulatoria.



► DECONEX 42 KONZ

Para lubricación de instrumental quirúrgico de acero inoxidable.

- ✓ **Producto a base de aceite blanco medicinal y emulsificantes.**
- ✓ **Sin posibilidad de crecimiento de gérmenes en la capa de aceite.**



Modo de aplicación

El lubricante deconex 42 KONZ se utiliza en el último paso del aclarado del proceso del lavado del instrumental, a una temperatura como mínimo 50 °C.



Compatibilidad

- **Adecuado para:** Acero Inoxidable
- **No adecuado para:** Goma y látex

Para materiales no mencionados, por favor, realicen sus propios tests de compatibilidad.



Almacenamiento

Almacene el producto entre 5 y 25 °C



Ingredientes

. Aceite blanco medicinal y emulsificante.



Dosificación

. 0.5-1 ml/l de agua de lavado en termo-desinfectadora.

. 10-20 ml/l de agua en lavado manual.

Datos físico/químicos

pH	1% en agua desmineralizada	aprox. 5.0-7.5
Densidad	concentrado	0.86 g/ml
Aspecto	concentrado	líquido transparente, incoloro a ligeramente amarillento



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Envase



► BOLSAS AUTOSELLABLES

Bolsas de papel grado médico con
autosellado (con cierre por tira
auto adhesiva y doblado.)



Forma de uso

- . Introduzca el objeto que se va a esterilizar dentro de la bolsa.
- . Quite la cinta de papel que cubre el adhesivo en la parte abierta de la bolsa.
- . Pegue uniendo el plástico adhesivo, presione y recorra los dedos de un lado al otro sobre el área con adhesivo.



Instructivo de Uso

Importante: Cuando las flechas cambian de color (consulte en las bolsas los colores de cambio), indican que la bolsa fue sometido a un proceso de esterilización (Vapor, Gas O.E. o Formaldehído).



Condiciones mínimas para el cambio del color indicador

Vapor durante 15 minutos a 121°C, Gas O.E. durante 90 minutos a 54°C, Formaldehído durante 90 minutos a 78°C o durante 180 minutos a 54°C.

Medidas:

. 10cm x 135cm | 20cm x 33cm | 30cm x 38cm



Vida útil después de la esterilización

Bien sellada y empacada, sin daño en la bolsa y en condiciones adecuadas de almacenamiento hasta tres años.



Almacenamiento

Consérve en un lugar fresco y seco. No exponer a la luz solar, si el envase muestra daño antes o después de la esterilización, no se garantiza que el objeto se pueda usar.



► PAPEL GRADO MÉDICO

Rollo mixto de papel grado
médico y laminado plástico



- . Material fabricado con poliproleno de alta densidad.
- . Excelente resistencia de la penetración microbiana.
- . Resistentes al desgarre y perforación.



Rollo mixto de papel grado médico y laminado plástico, con porosidad controlada, hidrófugo, para esterilizar a vapor. Con o sin tratamiento que ayude a la formación de una barrera bacteriana. Con o sin apertura lateral. Con reactivo químico impreso.

3"

PAR361
(7.5cm x 200m)

4"

PAR362
(10cm x 200 m)

6"

PAR364
(15cm x 200 m)

8"

PAR365
(20cm x 200 m)

10"

PAR366
(25cm x 200 m)

12"

PAR367
(30cm x 200 m)

16"

PAR368
(40cm x 200 m)

20"

PAR369
(50cm x 200m)



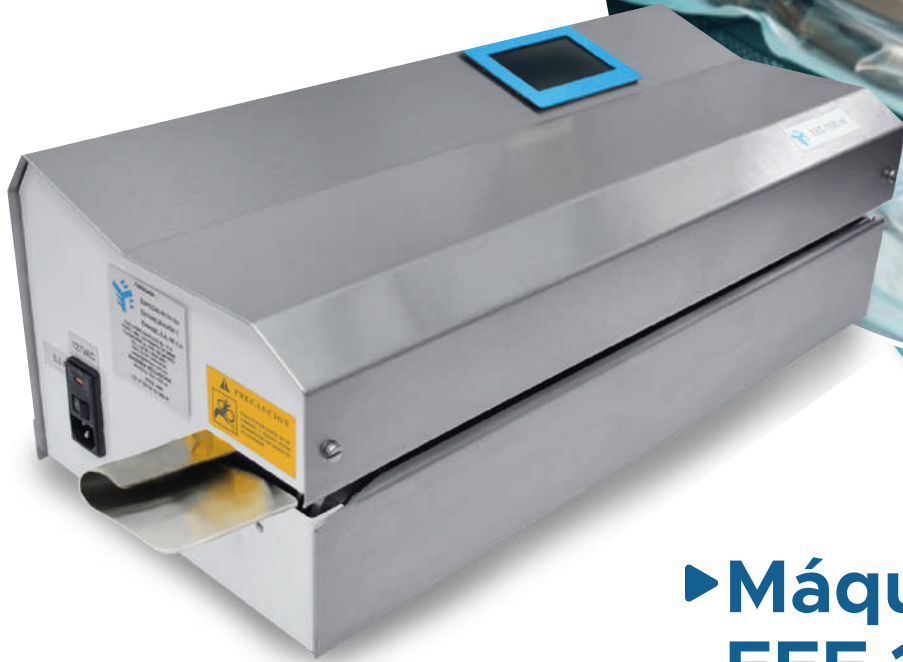
► Selladora Automática para Papel de Esterilización

Selladora automática para papel de esterilización diseñada específicamente para el cierre por calor y presión en los envases grado médico para la esterilización

- ✓ Función de control automático y continuo.
- ✓ Temperatura controlada por microprocesador.
- ✓ Error de precisión $\pm 1\%$. Rango de temperatura de trabajo 60 ~ 220°C.
- ✓ Calentamiento rápido en 40 seg. Hasta 180°C.
- ✓ Sistema de poder fijo y ajustable.
- ✓ Apta para sellado de bolsas de papel y plástico.
- ✓ Apta para sellado de bolsas 3D papel y plástico.
- ✓ Apta para sellado de bolsas de papel.
- ✓ Avanzado sistema de calefacción en cerámica.
- ✓ Estabilidad a alta temperatura.
- ✓ Alta eficiencia y larga vida útil.
- ✓ Rápido sellado 10m/ min.
- ✓ Ancho banda de sellado 12 mm.
- ✓ Margen de sellado: 0 ~ 35 mm ajustable.
- ✓ Fuerza de sellado cumple norma YY/T 0698.5-2009.
- ✓ Voltaje 110 vol. - 50/60 Hz - 500 waticos



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► Máquina Selladora EEE 1500MI

Selladora de empaques en continuo controlada por microprocesador. Diseñada específicamente para el cierre hermético por calor y presión de los envases grado médico para esterilización (bolsas de papel, bolsas y rollos mixtos con y sin fuelle de papel o Tyvek® de Dupont®) en el servicio de CEyE.

Código	Descripción
EEE1500MI	Máquina selladora
EEE0101	Mesa móvil para máquina selladora con tablero de acero inoxidable, con freno y ganchos laterales para canastilla.
EEE0102	Canastilla lateral de acero inoxidable
EEE0104	Tablero deslizante de acero inoxidable.
EEE0110	Mesa móvil con dos canastillas (EEE0101+EEE0102+EEE0102)
EEE0120	Rack porta canastillas de acero
1098-1009.	Cinta para impresión

Características

- Fabricada en acero inoxidable con base esmaltada, con bandas transportadoras para permitir el sellado continuo por calor, área de calentamiento de sellado de 50 a 60 cm y ancho de 12 mm.
- Control de encendido de banda transportadora y de temperatura independientes.
- Modo automático y manual para el control de la banda transportadora (con movimiento bidireccional).
- Con microprocesador y módulo de impresión automática: fechas de preparación y caducidad, código y nombre de operario, No. de lote, No. de serie y texto. Con cinta para el módulo de impresión de fácil reemplazo.
- Control de temperatura en rango de 50 a 200 °C.
- Operación del menú vía pantalla táctil LCD, con despliegue de temperatura de sellado deseada y de trabajo.
- Funciones programables por el operario: horario y calendario (fecha de caducidad o preparación).
- Función de autodiagnóstico para el continuo control de proceso.
- Contador de bolsas que puede ser reinicializado.
- Alimentación eléctrica 120-127V, 50/60Hz.
- Dimensiones: 23 cm alto x 62 cm largo x 26 cm ancho
- Peso Bruto: 25 kg / Peso Neto: 21.2kg
- Incluye manual de usuario y de servicio.





► Autoclave de Mesa BKM-Z

El autoclave de mesa se puede utilizar para artículos médicos y quirúrgicos en clínicas de oftalmología, odontología y medicina interna, como artículos empaquetados, artículos huecos y porosos para esterilización, y también se puede utilizar en salas de emergencia y laboratorios pequeños.

Características

- ✓ **Tanque de agua integrado de tipo abierto**
El esterilizador adopta un tanque de agua de tipo abierto y fácil de limpiar que puede soportar la ejecución repetida de programas si se inyecta completamente con agua.
- ✓ **Vacío definitivo de alta eficiencia**
El esterilizador adopta un sistema de vacío silencioso y de alta eficiencia que tiene excelentes efectos.
- ✓ **Pantalla LCD grande para BKMZA/BKMZB**
La pantalla LCD puede mostrar temperatura, presión, tiempo, estado de funcionamiento, advertencia de falla y otra información.
- ✓ **Múltiples tipos de programas**
El sistema tiene varios programas que incluyen artículos empaquetados, artículos desempaquetados, programa de prueba de BD, programa de prueba de vacío y función de secado.

Parámetros Técnicos

Modelo	BKM-Z12N	BKM-Z18N	BKM-Z24N
Capacidad	12L	18L	24L
Tamaño de cámara	200 x 360	245 x 350	245 x 450
Clase de esteriliz.	Clase N (Acorde a EN 12060 Standard)		
Temp. de esteriliz.	121°C, 134°C		
Procedimiento de secado	Secado por calor		
Pantalla	Pantalla LED		
Control de precisión	Temperatura: 1°C		
	Presión: 0.1bar		
Sistema deseguridad	Puerta con cerradura manual		
	Válvula de presión en caso de sobre presión		
	Protección de Presión o temperatura sobrecargada		
	Alarma por fallo de sistema		
Soporte de bandeja	Bandejas de acero inox. de 3 piezas en estante de acero inox.		
Cámara	SUS304		
	Máxima presión de trabajo: 2.3bar		
	Mínima presión de trabajo: 1.1bar		
	Temperatura máxima: 145°C		
Temperatura de ambiente	5-40°C		
Ruido	<50dB		
Poder	1600W por 220V, 1200W por 110V		
Fuente de alimentación	Standar: 220V±10%, 50/60Hz; opcional: 100V±10%, 50/60Hz.		
Tamaño externo	560 x 450 x 400	560 x 450 x 400	670 x 450 x 400
Tamaño del paquete	650 x 515 x 470	650 x 515 x 470	760 x 515 x 470
Peso bruto	38	40.5	45.5

TELE PACK +

Endoscopia compacta

DISPLAY +

LIGHT +

CAMERA +

DOCU +

NETWORK +

STORZ

tele pack +
TP 91

TELE PACK +

Endoscopia compacta

TELE PACK+ es un sistema «todo en uno» portátil y compacto que se compone de un monitor, una fuente de luz LED, una unidad de control de cámara FULL HD, una función de documentación, así como función de red integrada. Una gran ventaja es su compatibilidad con un gran número de endoscopios rígidos, flexibles y para un solo uso. TELE PACK+ puede ser utilizado tanto en consultorios médicos como en clínicas, en los servicios de urgencias, en unidades de cuidados intensivos y en ambulancias.

DISPLAY +

Pantalla táctil de 18,5" +

Teclado en pantalla +

FULL HD +

La superficie de cristal sin aristas permite +
la limpieza fácil de la pantalla

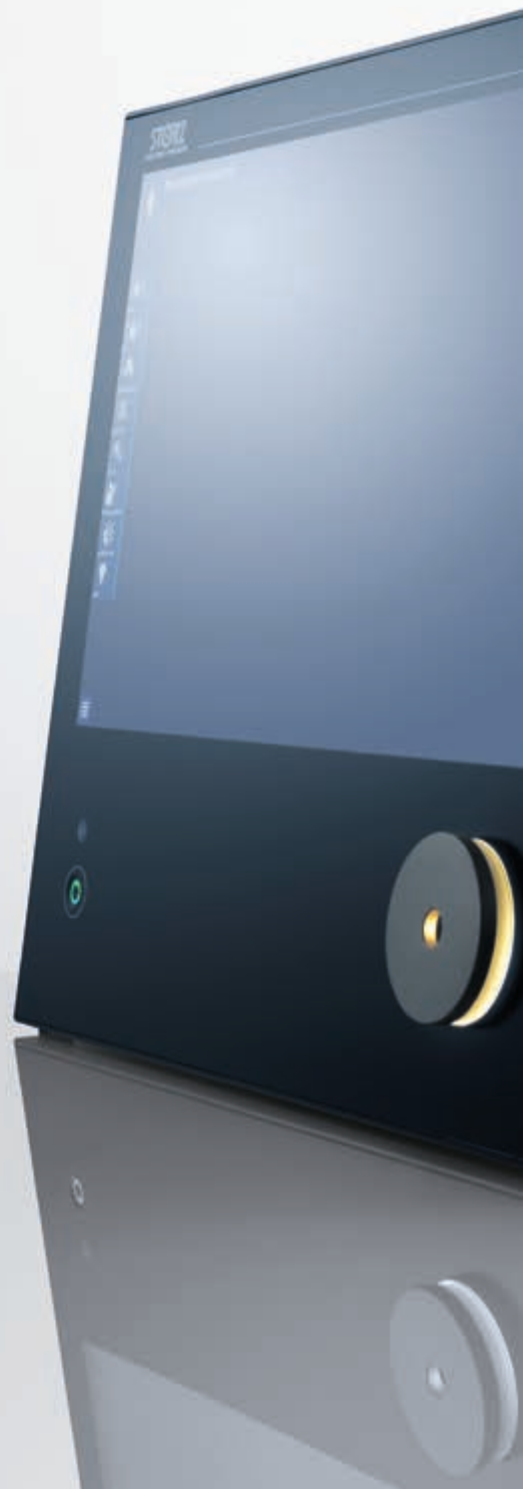
Manejo sencillo gracias a la navegación +
intuitiva del menú y la interfaz de usuario
autoexplicativa

LIGHT +

Fuente de luz LED integrada +

Iluminación brillante y homogénea +

Control automático de la fuente de luz +





CAMERA +

- + Es posible conectar endoscopios rígidos, flexibles y para un solo uso
- + Compatible con los endoscopios X-LINE y C-LINE

DOCU +

- + Para la grabación de los datos del paciente se puede elegir entre la memoria interna, un dispositivo de memoria USB o bien por medio de la función de integración a la red
- + Transferencia cifrada de los datos del paciente
- + Gestión de datos del paciente
- + Memoria interna de 50 GB

NETWORK +

- + La función de red puede utilizarse tanto en el modo "File Share" (compartición de archivos) como en el modo "lista de trabajo"
- + Exportación e importación de los datos del paciente de/hacia el HIS / PACS

Antes de realizar una intervención quirúrgica, se recomienda verificar si ha elegido el producto idóneo.



NOUVAG⁺

Otorrinolaringología

Cirugía



nouvag.com

Sistema de perforación ENT Shaver





Principio de doble motor



Oscilante regulable
máquina de afeitar 300 - 5000 rpm



Simple y
intuitivo

HighSurg 30 es nuestra oferta completa para la cirugía ORL motorizada. HighSurg30 se puede utilizar en combinación con componentes de cirugía ORL como motores electrónicos y piezas de mano para adaptarse perfectamente a sus indicaciones.

Pieza de mano de afeitado ORL

La pieza de mano ENT Shaver híbrida liviana y ergonómica representa un uso sin estrés en la cirugía ENT mínimamente invasiva.

Se está utilizando para el afeitado y la eliminación de tejido, tejido duro o hueso. Nuestra hoja de rasurado simplemente succiona el tejido a través de la ventana de corte hacia el lumen de la pieza de mano.

Debido a la potente rotación del tubo interior, el tejido succionado se elimina a través de un canal de succión de "canal recto" en el extremo de la pieza de mano.

Nuestro mecanismo de bloqueo y rotación de la punta permite girar y bloquear fácilmente la cuchilla en su lugar para un acceso seguro y ergonómico al área de operación.



Baja vibración y piezas de mano ligeras



Fácil de usar

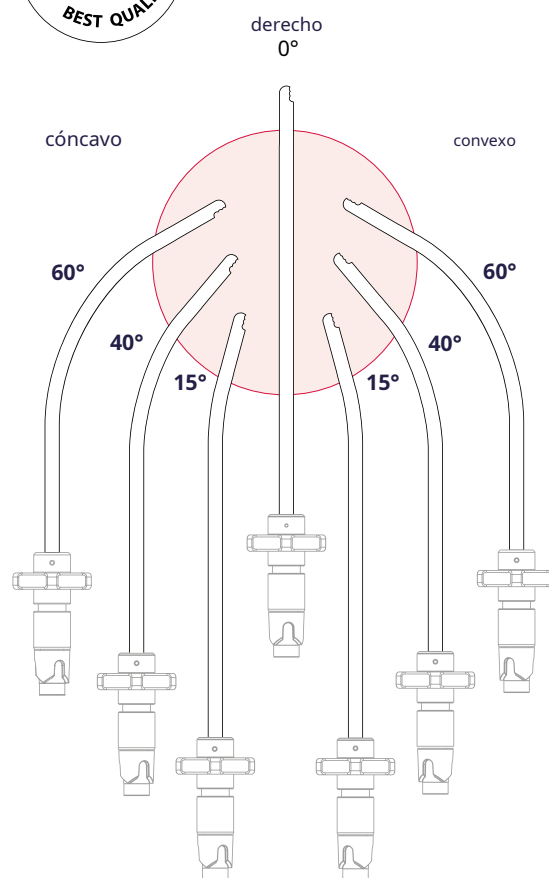


Confiable y duradero

Cuchillas de afeitado ORL



	mm de diámetro	Posición	Ángulo	Longitud mm	ARBITRO
Resector de radio completo	2.5		derecho	105	5318
	3.5		derecho	105	5294
	3.5	cóncavo	15°	105	5300
	3.5	convexo	15°	105	5303
	3.5	cóncavo	40°	105	5306
	3.5	convexo	40°	105	5309
	3.5	cóncavo	60°	105	5312
	3.5	convexo	60°	105	5315
	4.0		derecho	105	5340
	4.0	cóncavo	15°	105	5350
	4.0	convexo	15°	105	5359
	4.0	cóncavo	40°	105	5352
	4.0	convexo	40°	105	5361
	4.0	convexo	60°	105	5354
	4.0	convexo	60°	105	5363
	4.5		derecho	105	5324
completo agresivo Radio	2.5		derecho	105	5322
	3.5		derecho	105	5295
	3.5	cóncavo	15°	105	5301
	3.5	convexo	15°	105	5304
	3.5	cóncavo	40°	105	5307
	3.5	convexo	40°	105	5310
	3.5	cóncavo	60°	105	5313
	3.5	convexo	60°	105	5316
	4.0		derecho	105	5344
	4.0	cóncavo	15°	105	5349
	4.0	convexo	15°	105	5358
	4.0	cóncavo	40°	105	5351
	4.0	convexo	40°	105	5360
	4.0	cóncavo	60°	105	5353
	4.0	convexo	60°	105	5362
	4.5		derecho	105	5330
Cortador de tres puntas	2.5		derecho	105	5320
	3.5		derecho	105	5296
	3.5	cóncavo	15°	105	5302
	3.5	convexo	15°	105	5305
	3.5	cóncavo	40°	105	5308
	3.5	convexo	40°	105	5311
	3.5	cóncavo	60°	105	5314
	3.5	convexo	60°	105	5317
	4.0		derecho	105	5342
	4.0	cóncavo	15°	105	5346
	4.0	convexo	15°	105	5355
	4.0	cóncavo	40°	105	5347
	4.0	convexo	40°	105	5356
	4.0	cóncavo	60°	105	5348
	4.0	convexo	60°	105	5357
	4.5		derecho	105	5328
Recortadora	2.5		derecho	105	5290
	3.5		derecho	105	5291
	4.0		derecho	105	5292



Cuchillas de afeitar para Rinología

	mm de diámetro	Posición	Ángulo	Longitud mm	ARBITRO
Fresa de rosa de rinoceronte	3.5		derecho	130	5272
	3.5	cóncavo	15°	130	5273
	3.5	cóncavo	60°	130	5274
rinoceronte cilíndrico Rebaba	3.5		derecho	130	5275
	3.5	cóncavo	15°	130	5276
	3.5	cóncavo	60°	130	5277
Fresa de diamante de rinoceronte	3.5	cóncavo	15°	130	5271

Actualmente, las cuchillas de afeitado ORL solo están disponibles para la venta en países seleccionados. Consútenos para obtener más información detallada si está interesado en comprar.



Inspirado en el cuerpo humano.

NOUVAG⁺

Microsierras para Cirugía ORL

15000rpm

Piezas de mano Micro Saw con alta potencia de torque para todos los procedimientos funcionales o estéticos en Cirugía Nasal para aserrar y raspar.



MSS 5000

La sierra Micro Compás desarrollada aún más funciona con un recorrido de 4 mm a 75 recorridos por segundo, lo que mejora significativamente el rendimiento de corte, ideal para la osteotomía lateral con hoja de sierra 5112nou.

MOS 5000

La Micro Sierra Sagital tiene una frecuencia de oscilación de 250 ciclos por segundo. Las hojas de sierra a menudo se doblan para que coincidan con el ángulo correcto de un corte previsto.

OMS 5000

La Micro Sierra Oscilante trabaja con una frecuencia de 250 oscilaciones por segundo – ideal para Osteotomía Intermedia.

Sierra sagital MOS 5000	ARBTR0: 5110nou
Peso	122 gramos
Oscilación ángulo	5°

Microbrújula Sierra MSS 5000	REF: 5040nou
Peso	122 gramos
Ataque	4mm

sierra oscilante OMS 5000	REF: 5090nou
Peso	142 gramos
Oscilación ángulo	25°

Cuchillas de sierra

Hojas de sierra para:
Sierra de calar micro, MSS 5000



ÁRBETRO:
5049rnou
1 de cada

Colocar

Cuchillas de sierra	Campo de uso/ Forma	Útil longitud	UP*	ÁRBETRO estéril	ÁRBETRO no estéril
	Rinología	6mm	1	5112snou	5112rnou
	derecho	38mm	1	5113snou	5113rnou
	derecho	26mm	5	5045snou	5045rnou
	derecho	22mm	5	5044snou	5044rnou
	derecho	18mm	5	5043snou	5043rnou
	derecho	14mm	5	5042snou	5042rnou
	derecho	11mm	5	5041	5041rnou
	redondeado	17mm	5	5105snou	5105rnou
	redondeado	21mm	5	5106snou	5106rnou

* UE: Unidad de embalaje

Hojas de sierra para:
Microsierra oscilante, OMS 5000



Hoja de sierra	Corte profundidad	Útil ancho	Longitud del mango 33mm	Longitud del mango 45mm	UP*	ÁRBETRO estéril	ÁRBETRO no estéril
	3,0 mm	6,0 mm	-	•	1	5101	5101nou
	6,3 mm	6,0 mm	•	-	1	5100snou	5100rnou
	6,3 mm	6,0 mm	-	•	1	5099snou	5099rnou
	13,3 mm	6,0 mm	•	-	1	5093snou	5093rnou
	13,3 mm	6,0 mm	-	•	1	5096snou	5096rnou
	13,3 mm	10,0 mm	•	-	1	5094snou	5094rnou
	13,3 mm	10,0 mm	-	•	1	5097snou	5097rnou
	13,3 mm	15,0 mm	•	-	1	5095snou	5095rnou
	13,3 mm	15,0 mm	-	•	1	5098snou	5098rnou

* UE: Unidad de embalaje

Hojas de sierra para:
Sierra sagital, MOS 5000



ÁRBETRO:
5120rnou
1 de cada

Colocar

Cuchillas de sierra	Forma	Corte ancho	Útil profundidad	UP*	ÁRBETRO estéril	ÁRBETRO no estéril
	derecho	4mm	12mm	5	5115	5115rnou
	derecho	6mm	12mm	5	5116	5116rnou
	redondeado	6mm	12mm	5	5114snou	5114rnou
	derecho	6mm	17mm	5	5117	5117rnou
	derecho	10mm	17mm	5	5118	5118rnou
	derecho	12mm	29mm	5	5119snou	5119rnou

* UE: Unidad de embalaje

50 000 rpm

1:1 Piezas de mano de cirugía

Estas piezas de mano están disponibles en varias longitudes y en versiones rectas y en ángulo.

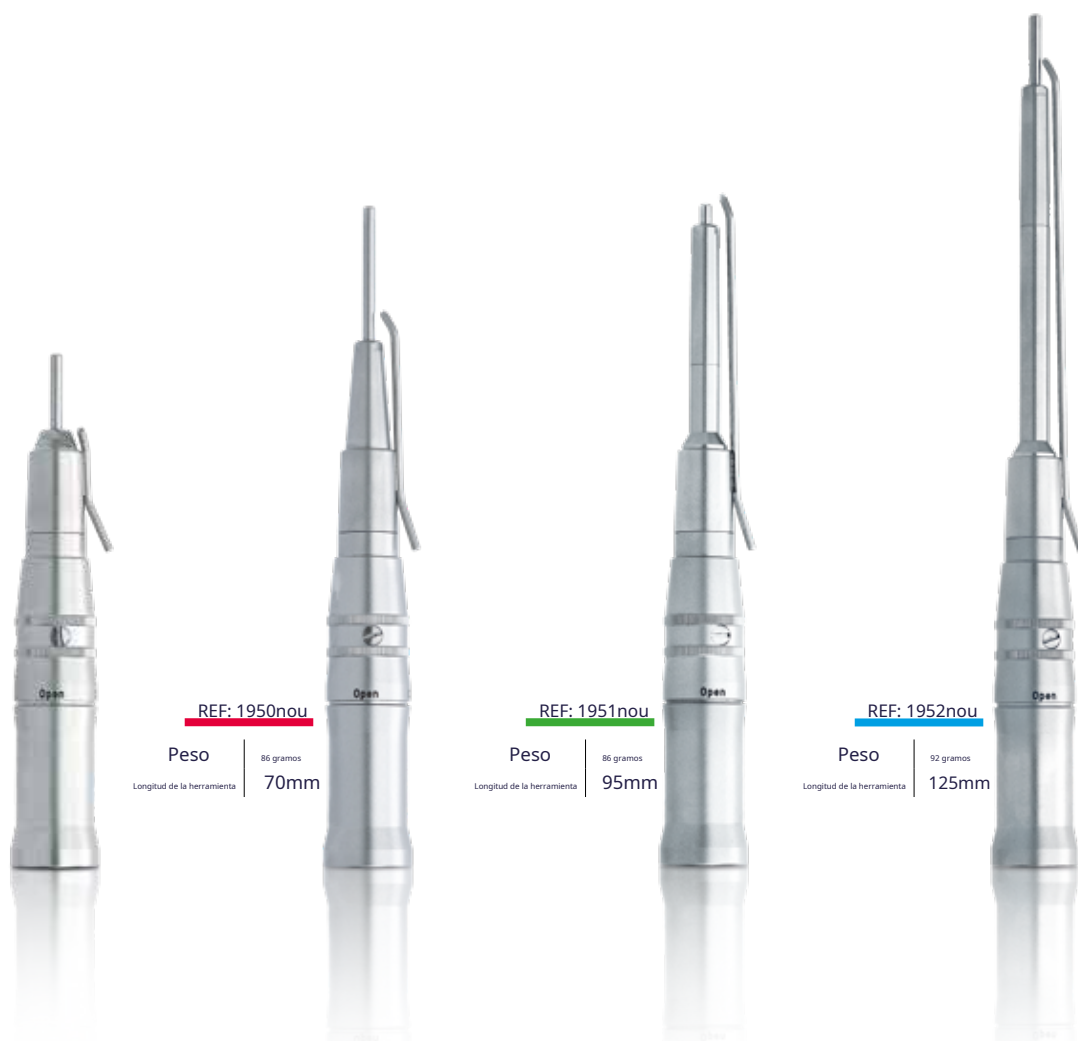
Nuestras piezas de mano de acoplamiento rápido están perfectamente equilibradas con baja vibración para un trabajo sin fatiga y tienen una línea de irrigación giratoria.

Esas características aseguran que las piezas de mano se puedan utilizar en varios tipos de operaciones.



Inspirado en el cuerpo humano.

NOUVAG⁺



REF: 1710nou

Peso	80g
Longitud de la herramienta	44mm

REF: 1950nou

Peso	86 gramos
Longitud de la herramienta	70mm

REF: 1951nou

Peso	86 gramos
Longitud de la herramienta	95mm

REF: 1952nou

Peso	92 gramos
Longitud de la herramienta	125mm



Fresas para piezas de mano ORL



	Diámetro de la cabeza, milímetro	Número de flautas	Longitud del mango		
			Fresa REF de 70 mm:	Fresa REF de 95 mm:	Fresa REF de 125 mm:
rebaba de rosa, Acero	0.8	6	RS.070.008	•	•
	1.0	12	RS.070.010	•	•
	1.4	8	RS.070.014	RS.095.014	RS.125.014
	1.8	8	RS.070.018	RS.095.018	RS.125.018
	2.3	8	RS.070.023	RS.095.023	RS.125.023
	2.7	10	RS.070.027	•	•
	3.1	10	RS.070.031	RS.095.031	RS.125.031
	4.0	12	RS.070.040	RS.095.040	RS.125.040
	5.0	12	RS.070.050	RS.095.050	RS.125.050
	6.0	14	RS.070.060	RS.095.060	RS.125.060



rebaba de rosa, Carburo	0.5	6	RC.070.005	RC.095.005	•
	0.8	6	RC.070.008	RC.095.008	•
	1.0	6	RC.070.010	RC.095.010	•
	1.4	6	RC.070.014	•	•
	1.8	6	RC.070.018	RC.095.018	•
	2.3	6	RC.070.023	RC.095.023	RC.125.023
	2.7	8	RC.070.027	•	•
	3.1	8	RC.070.031	RC.095.031	RC.125.031
	3.5	8	RC.070.035	RC.095.035	•
	4.0	10	RC.070.040	RC.095.040	RC.125.040
	5.0	12	RC.070.050	RC.095.050	RC.125.050
	6.0	14	RC.070.060	•	•
	7.0	dieciséis	RC.070.070	•	•



rebabas de diamante

	Diámetro de la cabeza, milímetro	Longitud del mango		
		REF rebabas: 70 mm	REF rebabas: 95 mm	REF rebabas: 125 mm
Fresa de bola de diamante	0.6	DA.070.006	DA.095.006	DA.125.006
	0.8	DA.070.008	DA.095.008	DA.125.008
	1.0	DA.070.010	DA.095.010	DA.125.010
	1.4	DA.070.014	DA.095.014	DA.125.014
	1.8	DA.070.018	DA.095.018	DA.125.018
	2.3	DA.070.023	DA.095.023	DA.125.023
	2.7	DA.070.027	DA.095.027	•
	3.1	DA.070.031	•	DA.125.031
	3.5	DA.070.035	DA.095.035	•
	4.0	DA.070.040	DA.095.040	DA.125.040
	4.5	DA.070.045	•	DA.125.045
	5.0	DA.070.050	DA.095.050	DA.125.050
	6.0	DA.070.060	DA.095.060	DA.125.060
	7.0	DA.070.070	•	•



Diversas formas

	Diámetro de la cabeza, milímetro	Número de flautas	Laboral longitud, milímetro	Longitud del mango		
				Fresa REF de 70 mm:	Fresa REF de 95 mm:	Fresa REF de 125 mm:
Taladro de paso de alambre Carburo	1.0	2	10.0	•	WD.095.010	WD.125.010
	1.2	2	10.0	•	WD.095.012	WD.125.012
	1.5	2	6.6	•	•	WD.125.015
Broca espiral, carburo	1.5	2	20.0	•	SD.095.015	•
	2.0	2	20.0	SD.070.020	SD.095.020	•
	1.5	2	6.0	SD.070.015	•	•
	1.5	2	8.0	SDD.070.015	•	•



Motor electrónico 21

50 000 rpm

Micromotor duradero y de alta potencia con rendimiento constante y cómodo uso gracias a su autoventilación direccional. Control de par eléctrico integrado para estabilización o incremento de velocidad durante tareas exigentes.



REF 2099nou: Motor electrónico 21



Inspirado en el cuerpo humano.

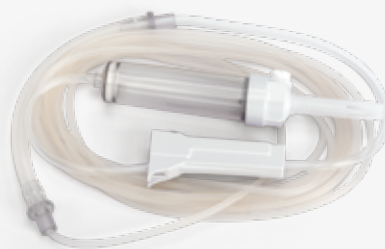
NOUVAG⁺

Accesorios



REF: 1029: Maleta con espuma para HighSurg 11 y HighSurg 30

REF 1898: Vexio Cart, Carro moderno con dos estantes y ruedas antiestáticas bloqueables y canal de cable integrado a la fuente de alimentación con 3 tomas de corriente. (**REF 1894:** El portabotellas es opcional)



REF 6024: Juego de tubos para la bomba peristáltica de HighSurg 11 y HighSurg 30



REF 2127: Spraynet para limpieza previa, durante el procedimiento de reprocesamiento



REF 2128: Spray de mantenimiento y cuidado Lubrifluid, para usar durante el procedimiento de reprocesamiento



Cesta de esterilización con la esterilización del otorrinolaringólogo s, Microsierras, Shaver handpiec- Motor electrónico.

Tapa opcional para esterilización

Cesta





HEINE
Catálogo general
2024 | V2

Otoscopios HEINE

Sinopsis

Naturalmente, todos nuestros otoscopios son magníficos. No obstante, se diferencian en algún que otro detalle. Aquí le presentamos de forma resumida cuáles son esos detalles y todas sus ventajas:



	BETA 400 F.O. Otoscopio de gama alta	BETA 200 F.O. Otoscopio estándar	K180 F.O. Otoscopio básico	mini 3000 F.O. Otoscopio de bolsillo	mini 3000 Otoscopio de bolsillo
	Alta definición	Vista general más rápida		Compacto y móvil	Compacto y móvil
Definición	muy alta	alta	suficiente	buena	suficiente
Ventana de visualización	vidrio		acrílica		
Aumentos	4,2x	3x			
Iluminación	F.O. LED ^{HQ}			F.O. XHL o LED ^{HQ}	directa XHL
Construcción de la caja exterior	metálica		policarbonato		
Opciones de manejo fuentes de tensión	mango a pilas mango recargable USB, mango recargable con cargador de mesa, EN 200 EN 200-1			mango a pilas, mango recargable con cargador de mesa	
Espéculos	espéculos de uso continuo, espéculos desechables AllSpec				
Prueba neumática de la movilidad de la membrana timpánica	conexión para insuflador disponible			conexión para insuflador disponible, el puerto de conexión del insuflador requis	-
Página del catálogo	7	9	11	13	18

Otoscopio F.O. HEINE BETA® 400 LED

En resumen: nuestro instrumento de gama alta con 4,2 aumentos



Durabilidad excepcional combinada con nuestro nivel máximo de 4,2 aumentos. Iluminación especialmente brillante gracias al LED^{HQ}. Los otoscopios BETA son el resultado de una evolución y una mejora continua hasta el más mínimo detalle y donde no dejamos nada al azar.

LA IMAGEN CON MAYOR DEFINICIÓN

- ▶ Identificación sencilla de estructuras anatómicas y cuerpos extraños gracias a los 4,2 aumentos
- ▶ Magnífica representación espacial gracias a la gran nitidez en profundidad
- ▶ Imágenes nítidas gracias a las lentes de precisión
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Lentes de cristal a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias al LED^{HQ}

MANEJO INTUITIVO

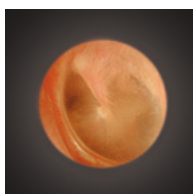
- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Fácil uso gracias al sistema óptico abatible integrado fijo
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba neumática de tímpano mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

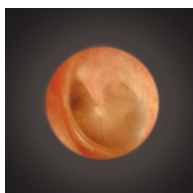
- ▶ Batería recargable: con cargador de mesa o USB
- ▶ La plena funcionalidad del BETA 400 LED está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1

- ▶ Práctico y ampliable con otros cabezales de HEINE

- ▶ **Un espejito para un futuro mejor.** Los espejitos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)



Otoscopio F.O. BETA 400 LED con 4,2 x aumentos



Otoscopio convencional

Otoscopio F.O. HEINE BETA® 400 LED

Sets | kits de diagnóstico

Set incluye: otoscopio BETA 400 de F.O.,

1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø, estuche rígido



[01]

	2,5V LED	3,5V LED
BETA mango a pilas	B-143.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe	-	B-143.28.388
BETA4 NT mango recargable con cargador de mesa NT4 [01]	-	B-143.24.420

Kit incluye: otoscopio BETA 400 de F.O.,

10 AllSpec espéculos desechables de 4 mm Ø



[02]

	2,5V LED	3,5V LED
BETA mango a pilas	B-010.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [02]	-	B-010.28.388
BETA4 NT mango recargable con cargador de mesa NT4	-	B-010.24.420

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

Otoscopio F.O. HEINE BETA® 200 LED

Instrumento estándar para una vista general rápida



Durabilidad excepcional combinada con un aumento óptimo. Iluminación especialmente brillante gracias al LED^{HQ}. Los otoscopios BETA son el resultado de una evolución y una mejora continuas hasta el más mínimo detalle y donde no dejamos nada al azar.

VISTA GENERAL MÁS RÁPIDA

- ▶ Magnífica representación espacial gracias a la máxima nitidez en profundidad
- ▶ Imágenes nítidas y sin distorsiones gracias a la ventana de visualización de cristal corregida varias veces
- ▶ 3 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Lentes de cristal a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias LED^{HQ}

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Fácil uso gracias a la ventana de visualización orientable integrada fija
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba de tímpano neumática mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
- ▶ La plena funcionalidad del BETA 200 LED está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1
- ▶ Práctico y ampliable con otros cabezales de HEINE
- ▶ **Un espejo para un futuro mejor.** Los espejos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)

Otoscopio F.O. HEINE BETA® 200 LED

Sets | kits de diagnóstico



[01]

Set incluye: otoscopio F.O. BETA 200,

1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø, estuche rígido

	2,5V LED	3,5V LED
BETA mango a pilas	B-141.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe	-	B-141.28.388
BETA4 NT mango recargable con cargador de mesa NT4 [01]	-	B-141.24.420



[02]

Kit incluye: otoscopio F.O. BETA 200,

10 AllSpec espéculos desechables de 4 mm Ø

	2,5V LED	3,5V LED
BETA mango a pilas	B-011.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [02]	-	B-011.28.388
BETA4 NT mango recargable con cargador de mesa NT4	-	B-011.24.420

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

NUEVO

Otoscopio F.O. HEINE K180 LED

Instrumento estándar para los usuarios sensibles al precio



Otoscopio con iluminación xenón halógena y tecnología de fibra óptica.
Carcasa de policarbonato ligero y resistente a los impactos.

IMAGEN CON ALTA DEFINICIÓN

- ▶ Imagen nítida y sin distorsiones gracias a la ventana de visualización de acrílico
- ▶ 3 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

ESPECIAL DURABILIDAD

- ▶ Carcasa robusta de policarbonato
- ▶ Ligero y a la vez duradero

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación gradual de la luz
- ▶ Fácil uso gracias a la ventana de visualización orientable integrada fija
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba de tímpano neumática mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
- ▶ Transformador de pared EN 200 | EN 200-1
- ▶ Pilas sustituibles

- ▶ **Un espejo para un futuro mejor.** Los espejos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)

NUEVO | **Otoscopio F.O. HEINE K180 LED**
Sets | kits de diagnóstico



Set incluye: otoscopio F.O. K180 LED,
 1 juego (4 piezas) de espéculos de uso continuo, bolsa blanda

	2,5V LED	3,5V LED
BETA mango a pilas	B-181.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [01]	-	B-181.28.388



[01]

Kit incluye: otoscopio F.O. K180 LED con

	2,5V LED
BETA mango a pilas [02]	B-012.10.118



[02]

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

Otoscopio F.O. HEINE mini 3000® LED

La calidad de HEINE en formato de bolsillo



Otoscopio compacto con una iluminación especialmente brillante y una reproducción cromática auténtica gracias al LED^{HQ} (sin necesidad de cambiar las lámparas). Diseño exclusivo. Carcasa robusta. Siempre a mano. Disponible en negro o azul. Parece imposible que quepan tantas cosas en una carcasa tan pequeña.

MANEJO INTUITIVO

- ▶ Siempre a mano gracias al práctico clip de sujeción
- ▶ Desconexión automática al engancharlo en la bata
- ▶ Fácil uso. Ventana de visualización integrada fija, orientable lateralmente
- ▶ Prueba de tímpano neumática mediante la conexión de insuflador integrada
- ▶ Robusto y antideslizante gracias a la carcasa del mango de alta calidad

IMAGEN CON ALTA DEFINICIÓN

- ▶ Imágenes extremadamente nítidas, reflejos mínimos
- ▶ 3 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}



FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador mini NT
- ▶ Pilas sustituibles
- ▶ Típ. 10 horas de funcionamiento: menos cambios de pilas, duración prolongada de las baterías recargables
- ▶ Práctico y ampliable con otros cabezales mini 3000
- ▶ **Disponible también con iluminación xenón halógena XHL.** Iluminación brillante y reproducción exacta de los colores; los demás datos técnicos son como los del otoscopio F.O. mini 3000 LED
- ▶ **Un espejo para un futuro mejor.** Los espejos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)

Otoscopio F.O. HEINE mini 3000®

Sets | kits de diagnóstico



[01]

Set|kit incluye: otoscopio F.O. mini 3000,

1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø. A elección con o sin estuche rígido

	2,5V XHL	2,5V LED
Mango a pilas mini 3000 (con pilas), estuche rígido [01]	D-851.10.021	D-885.20.021
Mango a pilas mini 3000 (con pilas), sin estuche	D-001.70.120	D-008.70.120



[02]

Kit incluye: otoscopio F.O. mini 3000,

10 AllSpec espéculos desechables de 4 mm Ø

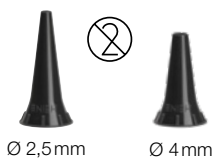
	2,5V XHL	2,5V LED
Mango a pilas mini 3000 (con pilas) [02]	D-001.70.110	D-008.70.110
Mango recargable mini 3000 (pedir el cargador mini NT por separado)	D-001.70.301	D-008.70.301



- ▶ Los instrumentos mini 3000 de estos sets se suministran en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.
- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).

Espéculos desechables HEINE AllSpec®

De plástico reciclado



- ▶ Ahora, la **habitual calidad HEINE** ahorra toneladas de CO₂
- ▶ **Para una colocación especialmente segura y para la mejor transmisión de la luz e higiene posibles**
- ▶ **Calidad controlada.** Sin aristas agudas
- ▶ Aquí encontrará todo lo demás que hacemos por el medio ambiente:

www.heine.com/csr



[01]



[02]



[03]



[04]

Espéculos desechables AllSpec para otoscopios F.O. BETA 400, BETA 200, K180, mini 3000 F.O. y mini 3000

caja con 1 000 piezas 2,5 mm Ø (niños) [01]	B-000.11.128
caja con 1 000 piezas 4 mm Ø (adultos)	B-000.11.127
caja con 10 cajas de 1 000 piezas, Ø 2,5 mm (niños)	B-000.11.138
caja con 10 cajas de 1 000 piezas, Ø 4 mm (adultos)	B-000.11.137
envase dispensador individual de 250 piezas, 2,5 mm Ø (niños) [02]	B-000.11.153
envase dispensador individual de 250 piezas, 4 mm Ø (adultos)	B-000.11.152
caja de 10 envase dispensador de 250 piezas, 2,5 mm Ø (niños)	B-000.11.151
caja de 10 envase dispensador de 250 piezas, 4 mm Ø (adultos)	B-000.11.150

Dispensador de espéculos AllSpec incl. espéculos 2,5 mm Ø y 4 mm.

La medida adecuada, seguro y fácil de sacar. Para cada paciente un espéculo nuevo y limpio.

dispensador de espéculos AllSpec (2 x 50 espéculos) [03]	B-000.11.149
--	---------------------

Adaptador de espéculos para BETA 100* y K100*

sirve de adaptador entre el otoscopio de diagnóstico (BETA 100*, K100*) y los espéculos desechables AllSpec [04]	B-000.11.306
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*instrumento ya no se suministra

⊗: Sólo para un solo uso.

Espéculos de uso permanente para una colocación especialmente segura

- ▶ **Para una colocación especialmente segura y la mejor transmisión de luz e higiene**, recomendamos utilizar **espéculos de otoscopio HEINE**
- ▶ **Espéculos de uso permanente de material plástico SANALON S muy resistente, superficies lisas, acabado externo blando.** Fácil de limpiar. Desinfección con los medios usuales y esterilización en autoclave de vapor hasta 134°C.
- ▶ **Forma anatómicamente adecuada.** Inserción atraumática y sin dolor



Ø 2,4 mm Ø 3 mm

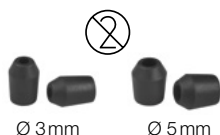


Ø 4 mm Ø 5 mm

Espéculos de uso permanente para otoscopios F.O. BETA 400, BETA 200, K180, mini 3000 F.O. y mini 3000

1 juego = 4 pzs. espéculos SANALON S 2,4 3 4 5 mm Ø	B-000.11.111	
	1 pieza	50 piezas
espéculo de uso permanente 2,4 mm Ø	B-000.11.107	B-000.11.207
espéculo de uso permanente 3,0 mm Ø	B-000.11.108	B-000.11.208
espéculo de uso permanente 4,0 mm Ø	B-000.11.109	B-000.11.209
espéculo de uso permanente 5,0 mm Ø	B-000.11.110	B-000.11.210

Más artículos | accesorios para otoscopios con iluminación de fibra óptica (F.O.)



Espéculos suave desechables: Para la fijación en los espejos

espéculo suave desechable 3,0 mm Ø 40 piezas 1 caja	B-000.11.141
espéculo suave desechable 5,0 mm Ø 40 piezas 1 caja	B-000.11.142

⊗: Sólo para un solo uso.



Cabezal otosc. F.O. BETA 400 LED	2,5V LED	3,5V LED
con 4 espéculos de uso permanente, sin mango	B-001.11.401	B-008.11.401
sin mango y sin accesorios	B-001.11.400	B-008.11.400



Cabezal otosc. F.O. BETA 200 LED	2,5V LED	3,5V LED
con 4 espéculos de uso permanente, sin mango	B-001.11.501	B-008.11.501
sin mango y sin accesorios	B-001.11.500	B-008.11.500



Cabezal otoscopio F.O. K180 LED	2,5V LED	3,5V LED
con 4 espéculos de uso permanente, sin mango	B-001.11.551	B-008.11.551
sin mango y sin accesorios	B-001.11.550	B-008.11.550



Cabezal otoscopio F.O. mini 3000	2,5V XHL	2,5V LED
sin mango y sin accesorios*	D-001.70.106	D-008.70.106

*Se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.



Módulo LED^{HQ}	2,5V LED	3,5V LED
para BETA 400, BETA 200 y K180	X-028.88.132	X-008.88.133



Lámpara de recambio XHL xenón halógena	2,5V XHL	3,5V XHL
para mini 3000 F.O.	X-001.88.105	—



[01]



[02]

Balón de insuflación para la prueba neumática

para BETA 400, BETA 200, K180, BETA 100*, K100* [01]	B-000.11.240
para otoscopio mini 3000 F.O. con pieza de conexión	D-000.80.102
pieza de conexión para otoscopio mini 3000 F.O. [02]	D-000.80.101

*Instrumento ya no se suministra

Otoscopio HEINE mini 3000®

**La calidad de HEINE en formato de bolsillo,
con iluminación directa**



Otoscopio compacto con iluminación xenón halógena XHL mejorada. Diseño exclusivo. Carcasa robusta. Siempre a mano. Disponible en negro o azul. Parece imposible que quepan tantas cosas en una carcasa tan pequeña. Salvo en el otoscopio mini 3000 LED.

MANEJO INTUITIVO

- ▶ Siempre a mano gracias al práctico clip de sujeción
- ▶ Desconexión automática al engancharlo en la bata
- ▶ Fácil uso. Ventana de visualización integrada fija, orientable lateralmente
- ▶ Robusto y antideslizante gracias a la carcasa del mango de alta calidad

IMAGEN CON ALTA DEFINICIÓN

- ▶ Elimina los reflejos gracias al revestimiento interior negro del cabezal
- ▶ Imágenes extremadamente nítidas
- ▶ 3 aumentos
- ▶ Reproducción cromática natural

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador mini NT
- ▶ Pilas sustituibles
- ▶ Práctico y ampliable con otros cabezales mini 3000
- ▶ **Un espejuelo para un futuro mejor.** Los espejuelos desechables HEINE AllSpec, ahora de plástico reciclado. Más información al respecto en la [página 15](#)



Otoscopio HEINE mini 3000®

Sets | kits de diagnóstico



[01]

Set | kit incluye: otoscopio mini 3000, 1 juego (4 piezas) de espéculos de uso continuo, 10 AllSpec espéculos desechables de 4 mm Ø

	2,5V XHL
mango a pilas mini 3000 con pilas, estuche rígido [01]	D-851.20.021
mango a pilas mini 3000 con pilas, sin estuche [02]	D-001.70.220
mango a pilas mini 3000 con pilas, sin estuche, sin espéculos de uso continuo	D-001.70.210



[02]



- ▶ **Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.**
- ▶ **En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.**
- ▶ **La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).**

Más artículos | accesorios para otoscopios HEINE



Cabezal otoscopio mini 3000	2,5V XHL
sin mango y sin accesorios*	D-001.70.206

*Se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.



Lámpara de recambio XHL xenón halógena	2,5V XHL
para mini 3000	X-001.88.110

Espéculos de uso permanente para BETA 100* y K100*



1 juego = 5 espéculos para oído, mas 1 espéculo nasal	B-000.11.221
3 espéculos para oído Ø 3,5 4,5 5,5 mm	B-000.11.222
espéculo para oído Ø 2,2mm [01]	B-000.11.215
espéculo para oído Ø 2,8mm	B-000.11.216
espéculo para oído Ø 3,5mm	B-000.11.217
espéculo para oído Ø 4,5mm	B-000.11.218
espéculo para oído Ø 5,5mm	B-000.11.219
espéculo nasal Ø 10mm [02]	B-000.11.220



[04]

Espéculos desechables UniSpec para BETA 100* y K100*

Ø 2,5 mm (niños) 1 000 pcs. 1 Caja [03]	B-000.11.242
Ø 4 mm (adultos), 1 000 pcs. 1 Caja	B-000.11.241
distribuidor UniSpec [04]	B-000.11.146

*instrumento ya no se suministra

⊗: Sólo para un solo uso.

Portaespátulas para bajalenguas de madera estándar

- ▶ **XHL tecnología xenón halógena.** Iluminación óptima de la cavidad bucal y faríngea
- ▶ **Tapa de protección para lámpara.** Visibilidad libre de deslumbramiento para el explorador



Kit incluye: portaespátulas iluminado con	2,5V XHL	3,5V XHL
BETA mango a pilas	B-015.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe	-	B-015.27.388

Portaespátulas para espátulas bucales desechables HEINE

- ▶ **XHL tecnología xenón halógena.** Iluminación óptima de la cavidad bucal y faríngea
- ▶ **Tapa de protección.** Visibilidad libre de deslumbramiento para el explorador
- ▶ **Lanzador automático dispara la espátula mediante pulsación del dedo**
Ningún contacto con la espátula después de usarla
- ▶ **Sólo para espátulas bucales de un solo uso HEINE.** Robustas e higiénicas



Kit incluye: portaespátulas iluminado con	2,5V XHL	3,5V XHL
BETA mango a pilas	B-016.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe	-	B-016.27.388

Portaespátulas HEINE mini 3000® para espátulas bucales desechables HEINE



- ▶ **El lanzador suelta la espátula mediante una pulsación con el dedo.**
No se tiene ningún contacto con la espátula después de usarla
- ▶ **XHL tecnología xenón halógena.** Iluminación óptima de la cavidad bucal y faríngea
- ▶ **Sólo para espátulas bucales de un solo uso HEINE.** Robustas e higiénicas

Kit incluye: portaespátulas para	2,5V XHL
mango* a pilas mini 3000 con pilas, 5 espátulas desechables	D-001.74.118

*Se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.

Más artículos | accesorios para portaespátulas



Cabezal portaespátulas para bajalenguas de madera estándar	2,5V XHL	3,5V XHL
sin mango y sin accesorios	B-001.12.302	B-002.12.302



Cabezal portaespátulas para espátulas bucales desechables	2,5V XHL	3,5V XHL
sin mango y sin accesorios	B-001.12.305	B-002.12.305



Cabezal portaespátulas mini 3000	2,5V XHL	
sin mango y sin accesorios		D-001.74.100



Lámpara de recambio XHL xenón halógena	2,5V XHL	3,5V XHL
para portaespátulas	X-001.88.037	X-002.88.049
para portaespátulas mini 3000	X-001.88.037	-



Tapa de protección de recambio para portaespátulas		
tapa de protección para lámpara		B-000.12.308



Espátulas bucales de un solo uso		
caja con 100 espátulas bucales de un solo uso		B-000.12.304

HEINE mini-c lámpara de exploración manual | mini-e Ear Light



Lámpara de exploración robusta y duradera en formato compacto de bolsillo.
Luz brillante y concentrada: Con exclusivo LED^{HQ}.

- ▶ **Exploración segura de los ojos** gracias a la seguridad fotobiológica testada
- ▶ **Cómodo y ergonómico**
- ▶ **Colores naturales y una vida útil prácticamente infinita del LED^{HQ}**
- ▶ **Desconexión automática al fijarlo al bolsillo**
- ▶ **Garantizados 20000 ciclos interruptores**
- ▶ **Pilas recambiables** (tamaño AAA)



[01]



[02]

mini-c mini-e kits	LED
mini-c lámpara de exploración manual incl. pilas [01]	D-008.73.109
mini-e Ear Light incl. pilas [02] para aplicaciones otoplásticas. Mediante el conductor de luz se comprueba la adaptación anatómica óptima de los audífonos.	D-008.73.103

Lámpara clip HEINE mini 3000®

Lámpara de bolsillo compacta de larga duración



Robusta lámpara de bolsillo de larga duración, con un diseño compacto y moderno con cabezal cromado. Luz clara y concentrada, gracias a la lámpara única con lente XHL de xenón halógena. Combinable solamente con el sistema de mango mini 3000. El mango se suministra en color negro o azul.

- ▶ **Lámpara compacta, oval, con una forma elegante.** Se lleva en a la mano de forma ergonómica
- ▶ **Mango y cabezal en 2 piezas.** Fácil de desmontar, ampliable con otros cabezales mini 3000
- ▶ **Lámpara con lente con XHL tecnología xénon halógena mejorada con un aumento de luz del 100 % frente a lámparas convencioanles.** Luz clara concentrada
- ▶ **Carcasa del mango de alta calidad: aleación de cromo|plástico refinado.** A prueba de golpes, robusto, antideslizante
- ▶ **Clip de sujeción con interruptor de conexión y desconexión integrado.** Firme sujeción. Desconexión automática al fijarla al bolsillo. Garantizados 20000 ciclos interruptores
- ▶ **Pilas recambiables** tipo AA, o batería recargable opcional con el aparato de carga mini NT*
- ▶ **Conductor de luz para aplicaciones otoplásticas [02].** Mediante el conductor de luz se comprueba la adaptación anatómica óptima de los audífonos. Para la información de pedido, véase accesorios la [página 27](#)



[01]

[02]

Lámpara clip mini 3000 con	2,5V XHL
mango a pilas mini 3000 con pilas [01]	D-001.73.131

- ▶ **Rogamos indiquen los colores deseados en el pedido ya que en cascon-**
trario se suministrarán en color negro.
- ▶ ***La información de suministro para poder convertir su instrumento con**
el cargador mini NT en un instrumento recargable, la encontrará en la
[página 158.](#)

Lámpara combinada HEINE mini 3000®

Lámpara compacta de bolsillo y portaespátulas



Robusta lámpara de bolsillo de larga duración, con un diseño compacto y moderno. Luz clara y concentrada, gracias a la lámpara única con lente XHL de xenón halógena.

Combinable solamente con el sistema de mango mini 3000. El mango se suministra en color negro o azul.

- ▶ **Amplia gama de funciones.** A emplear como lámpara multiuso y como cabezal para espátulas bucales standard de madera y espátulas HEINE desechables
- ▶ **Mango y cabezal en 2 piezas.** Fácil de desmontar, ampliable con otros cabezales mini 3000
- ▶ **Lámpara con lente con XHL tecnología xenón halógena mejorada con un aumento de luz del 100 % frente a lámparas convencionales.** Luz clara concentrada
- ▶ **Carcasa del mango de alta calidad: Aleación de cromo| plástico refinado.** A prueba de golpes, robusto, antideslizante
- ▶ **Clip de sujeción con interruptor de conexión y desconexión integrado.** Firme sujeción. Desconexión automática al fijarla al bolsillo. Garantizados 20000 ciclos interruptores
- ▶ **Pilas recambiables tipo AA,** o batería recargable opcional con el aparato de carga mini NT*

Lámpara combinada mini 3000 con	2,5V XHL
mango a pilas mini 3000 con pilas, con 5 espátulas desechables	D-001.76.120



- ▶ **Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.**
- ▶ ***La información de suministro para poder convertir su instrumento con el cargador mini NT en un instrumento recargable, la encontrará en la [página 158](#).**

Más artículos | accesorios para Lámparas de diagnóstico de bolsillo HEINE



Cabezal de lámpara clip mini 3000	2,5V XHL
sin mango y sin accesorios	D-001.73.130



Cabezal de lámpara combinada mini 3000	2,5V XHL
sin mango y sin accesorios*	D-001.76.101

*se suministra en color negro o azul. Rogamos indiquen los colores deseados en el pedido ya que en caso contrario se suministrarán en color negro.



Lámpara de recambio XHL xenón halógena	2,5V XHL
para lámpara clip y lámpara combinada mini 3000	X-001.88.107



Iluminador auricular para lámpara clip mini 3000	
iluminador auricular, 1 juego = 6 en blister pack	D-000.73.105



Espátulas bucales de un solo uso para lámpara combinada mini 3000	
caja con 100 espátulas bucales de un solo uso	B-000.12.304

► Información referente a mangos mini 3000 recargables y a pilas se encuentra en las [páginas 157-158](#).

ORL instrumentos de diagnóstico veterinario HEINE

Sinopsis

Naturalmente, todos nuestros instrumentos especiales para veterinaria son magníficos. No obstante, se diferencian en algún que otro detalle. Aquí le presentamos de forma resumida cuáles son esos detalles y todas sus ventajas:



	Cabezal hendido G100	Otoscopio F.O. BETA 200 VET
Construcción de la caja exterior	metálica	
Aumentos	1,6x	2,5x
Iluminación	F.O. LED ^{HQ}	
Tamaño del instrumento	profesional	
Opciones de manejo fuentes de tensión	mango a pila, mango recargable USB, mango recargable con cargador de mesa, EN 200 EN 200-1	
Espéculos	espéculos metálicos largos y cerrados, espéculos hendidos de metal, espéculos cortos y cerrados, espéculos desechables UniSpec VET con adaptador	espéculos de uso continuo VET
Prueba neumática de la movilidad de la membrana timpánica	–	conexión para insuflador disponible
Página del catálogo	29	31

Cabezal hendido HEINE G100 LED con iluminación LED de calidad HEINE – LED^{HQ}



Trabajo sin impedimentos durante la exploración. Combinable con diversos espejuelos como accesorios. Cabezal con sólida construcción de metal y lupa giratoria a prueba de arañazos para una vida útil extraordinariamente prolongada y un resultado de la exploración con calidad uniforme. Iluminación especialmente brillante gracias al LED^{HQ} (sin cambio de lámparas).

VISTA GENERAL MÁS RÁPIDA

- ▶ Fácil uso con aumento e iluminación gracias al cabezal hendido
- ▶ 1,6 aumentos
- ▶ Reproducción cromática natural
- ▶ Una iluminación homogénea gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Lupa giratoria a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias al LED^{HQ}
- ▶ Asiento firme de los espejuelos gracias al bloqueo doble

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Reacondicionamiento higiénico seguro

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
- ▶ La plena funcionalidad del cabezal hendido G100 LED está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1
- ▶ Práctico y ampliable con otros cabezales de HEINE

Cabezal hendido HEINE G100 LED

Sets | kits de diagnóstico

Set incluye: cabezal hendido G100 LED,

1 juego espéculos largos y cerrados (57 mm x 4 mm Ø, 65 mm x 6 mm Ø, 90 mm x 7 mm Ø), en estuche rígido.



[01]

	2,5V LED	3,5V LED
BETA mango a pilas [01]	G-112.10.118	-
BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe	-	G-112.28.388
BETA4 NT mango recargable con cargador de mesa NT4	-	G-112.24.420



[02]

Kit incluye: cabezal hendido G100 LED con

3,5V LED

BETA4 USB mango recargable con cable USB y fuente de alimentación de enchufe [02]

G-010.28.388

BETA4 NT mango recargable con cargador de mesa NT4

G-010.24.420

- ▶ En las [páginas 72-76](#) encontrará información sobre nuestros sets y kits de diagnóstico combinados.
- ▶ Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).

Otoscopio F.O. HEINE BETA® 200 LED VET

Nuestro mejor otoscopio para la medicina veterinaria con LED^{HQ}



El instrumento ideal para explorar enfermedades del conducto auditivo de animales. Durabilidad excepcional combinada con un aumento óptimo. Iluminación especialmente brillante gracias al LED^{HQ}. Los otoscopios HEINE BETA VET son el resultado de una evolución y una mejora continuas hasta el más mínimo detalle y donde no dejamos nada al azar.

VISTA GENERAL MÁS RÁPIDA

- ▶ Representación espacial muy buena gracias a la lente de cristal diseñada especialmente para la medicina veterinaria
- ▶ 2,5 aumentos
- ▶ Reproducción cromática natural
- ▶ Iluminación homogénea y sin sombras gracias a la tecnología de fibra óptica
- ▶ Especialmente brillante gracias al LED^{HQ}

DURABILIDAD EXTREMA

- ▶ Carcasa de metal resistente
- ▶ Ventana de visualización de gran tamaño y a prueba de arañazos
- ▶ Calidad de la representación homogénea
- ▶ No es necesario cambiar las lámparas gracias al LED^{HQ}

MANEJO INTUITIVO

- ▶ Práctico manejo con un dedo
- ▶ Siempre la luminosidad óptima gracias a la atenuación de la luz gradual y patentada
- ▶ Fácil uso gracias a la ventana de visualización orientable integrada fija
- ▶ Reacondicionamiento higiénico seguro
- ▶ Prueba neumática de tímpano mediante la conexión de insuflador integrada

FUENTE DE TENSIÓN FLEXIBLE

- ▶ Batería recargable: con cargador de mesa o USB
La plena funcionalidad del BETA 200 LED VET está garantizada con los mangos recargables BETA actuales y los transformadores de pared EN 200 | EN 200-1
- ▶ Práctico y ampliable con otros cabezales de HEINE

▶ [Para la información de pedido, véase la página 36.](#)

Espéculos metálicos largos y cerrados

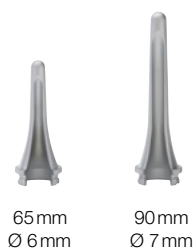


- ▶ **Fabricación de metal cromado de alta calidad.** Limpieza fácil, aptos para cualquier forma de desinfección y esterilización
- ▶ **2 hendiduras de cierre.** Acoplamiento seguro en el cabezal

Espéculos metálicos cerrados para cabezal hendido G100 | G100 LED

57 mm long., Ø 4 mm [01]	G-000.21.330
65 mm long., Ø 6 mm	G-000.21.331
90 mm long., Ø 7 mm	G-000.21.332
170 mm long., Ø 10 mm [02]	G-000.21.350

Espéculos hendidos de metal (abierto)



- ▶ **Fabricación de metal cromado de alta calidad.** Limpieza fácil, aptos para cualquier forma de desinfección y esterilización
- ▶ **Interior mate.** Reducción de reflejos
- ▶ **Apertura de 60° con aristas bien redondeadas.** Excelentes posibilidades de instrumentación, inserción atraumática
- ▶ **2 hendiduras de cierre.** Acoplamiento seguro en el cabezal

Espéculos hendidos de metal para cabezal hendido G100 | G100 LED

65 mm long., Ø 6 mm	G-000.21.341
90 mm long., Ø 7 mm	G-000.21.342

Espéculos cortos y cerrados

- ▶ **Fabricados de SANALON S, obteniendo así superficies lisas y gran densidad de material.** Evita que penetren suciedad y gérmenes, limpieza cómoda. Desinfección con los medios usuales y esterilización en autoclave de vapor hasta 134 °C
- ▶ **Forma anatómica.** Permite una inserción atraumática y libre de sensaciones desagradables
- ▶ **Interior mate.** Reducción de reflejos
- ▶ **Anillo de metal cromado inyectado con 2 hendiduras de cierre.** Garantiza una fijación segura en el cabezal

Espéculos cortos y cerrados de SANALON S para cabezal hendido G100 | G100 LED y otoscopio BETA 100 VET*



1 juego = 5 espéculos veterinarios de SANALON S	G-000.21.316
40 mm long., Ø 2,2 mm [01]	G-000.21.310
40 mm long., Ø 2,8 mm	G-000.21.311
40 mm long., Ø 3,5 mm	G-000.21.312
40 mm long., Ø 4,5 mm	G-000.21.313
40 mm long., Ø 5,5 mm [02]	G-000.21.314

*instrumento ya no se suministra

VET espéculos de uso permanente

Para utilizar con el BETA 100 VET* se necesita un adaptador VET [03].

- ▶ **Fabricados de SANALON S, obteniendo así superficies lisas con gran densidad del material.** Evita que penetren suciedad y gérmenes, limpieza cómoda. Desinfección mediante toda clase de desinfectantes corrientes. Esterilización en el autoclave de vapor hasta los 134 °C
- ▶ **Forma anatómica.** Inserción atraumática y libre de sensaciones desagradables
- ▶ **Cierre de alta funcionalidad.** Acoplamiento seguro en el otoscopio
- ▶ **2 hendiduras de cierre.** Acoplamiento seguro en el cabezal



Espéculos de uso perm. de SANALON S para BETA 200 VET | BETA 100 VET*

1 juego = 3 espéculos de uso permanente de SANALON S	G-000.21.213
61 mm long., Ø 4 mm [01]	G-000.21.210
61 mm long., Ø 6 mm	G-000.21.211
61 mm long., Ø 9 mm [02]	G-000.21.212
adaptador para espéculos VET [03]	G-000.21.214

Espéculos desechables HEINE UniSpec®



Para ajustarlos en el cabezal hendido G100|G100 LED se precisa el adaptador intermedio [04].

- ▶ **No precisan limpieza.** Ahorran tiempo
- ▶ **Higiene total.** Garantiza esterilidad
- ▶ **Cajas prácticos de 1000 espéculos desechables.** De precio económico
- ▶ **Modelo original HEINE.** Se acopla de forma completamente segura en el cabezal

Espéculos desechables UniSpec para BETA 100 VET*, otoscopio operatorio* y cabezal hendido G100|G100 LED

caja con 1 000 espéculos UniSpec 2,5 mm Ø	B-000.11.242
caja con 1 000 espéculos UniSpec 4 mm Ø	B-000.11.241
adaptador para ajustarlos en el cabezal hendido [04]	G-000.21.302
distribuidor UniSpec [05]	B-000.11.146

*instrumento ya no se suministra

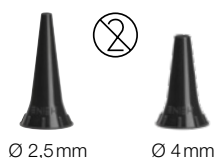
⊗: Sólo para un solo uso.

Más artículos | accesorios para **ORL instrumentos de diagnostico veterinario**



Espéculos de uso permanente para otoscopio operatorio*

1 juego = 5 espéculos para oído, mas 1 espéculo nasal	B-000.11.221
3 espéculos para oído Ø 3,5 4,5 5,5 mm	B-000.11.222
espéculo para oído Ø 2,2mm [01]	B-000.11.215
espéculo para oído Ø 2,8mm	B-000.11.216
espéculo para oído Ø 3,5mm	B-000.11.217
espéculo para oído Ø 4,5mm	B-000.11.218
espéculo para oído Ø 5,5mm	B-000.11.219
espéculo nasal Ø 10mm [02]	B-000.11.220



Espéculos desechables AllSpec para BETA 100 VET* y otoscopio operatorio*

caja con 1 000 piezas, Ø 2,5mm [03]	B-000.11.128
caja con 1 000 piezas, Ø 4mm	B-000.11.127
caja con 10 cajas de 1 000 piezas, Ø 2,5mm (niños)	B-000.11.138
caja con 10 cajas de 1 000 piezas, Ø 4mm (adultos)	B-000.11.137
envase dispensador individual de 250 piezas, Ø 2,5mm [04]	B-000.11.153
envase dispensador individual de 250 piezas, Ø 4mm	B-000.11.152
caja de 10 envase dispensador de 250 piezas, Ø 2,5mm	B-000.11.151
caja de 10 envase dispensador de 250 piezas, Ø 4mm	B-000.11.150
adaptador para espéculos AllSpec [05]	B-000.11.306
dispensador de espéculos AllSpec (2 x 50 espéculos) [06]	B-000.11.149

*instrumento ya no se suministra

⊗: Sólo para un solo uso.



Más artículos | accesorios para ORL instrumentos de diagnóstico veterinario



Cabezal hendido G100 LED	2,5V LED	3,5V LED
con lupa abatible, sin mango	G-001.21.301	G-008.21.301



Cabezal otoscopio F.O. BETA 200 VET LED	2,5V LED	3,5V LED
sin mango y sin accesorios	G-001.21.250	G-008.21.250



Módulo LED ^{HQ}	2,5V LED	3,5V LED
para G100 y BETA 200 VET	X-028.88.132	X-008.88.133



Lupa abatible para cabezal hendido G100 LED	
lupa abatible, suelta	G-000.21.209



Balón de insuflación para la prueba neumática	
balón de insuflación para otosc. BETA 200 VET	B-000.11.240

► Información referente a mangos recargables y a pilas así como el transformador de pared EN 200 se encuentra en las [páginas 148-157](#).



**ENDOSCOPES AND
INSTRUMENTS FOR ENT
ESOPHAGOSCOPY -
BRONCHOSCOPY**

9th EDITION 2/2013

Chapter			Pages
1	HEADMIRRORS – HEADLIGHTS	HNO-J	1-12
2	OTOLOGY	E-TEL, E	13-102
3	INSTRUMENTS FOR RHINOLOGY AND RHINOPLASTY	N	103-160
4	SINOSCOPY, RHINOSCOPY POSTRHINOSCOPY FESS, NASAL SINUSES, SKULL BASE	SI	161-318
5	TELESCOPES AND INSTRUMENTS FOR SIALENDOSCOPY	SIAL	319-332
6	ADENOIDECTOMY – NASOPHARYNX TONSILLECTOMY – MOUTH TRACHEOSTOMY – LARYNX	ATT	333-366
7	HOSPITAL SUPPLIES, SCALPELS, SCISSORS, FORCEPS NEEDLE HOLDERS, RETRACTORS, MISCELLANEOUS	HS	367-400
8	BIPOLAR AND UNIPOLAR COAGULATION	COA	401-428
9	RECOMMENDED SETS FOR ENT	SET	429-502
10	LARYNGOSCOPY TRACHEOSCOPY	LA-FIB, LA-FIB-ACC, LA-TEL, LA	503-592
11	ESOPHAGOSCOPY DIVERTICULOSCOPY	ESO, ESO-DIM, DIV	593-618
12	BRONCHOSCOPY TRACHEOSCOPY	BRO-INTRO, BRO-VIDEO, BRO-FIB, BRO-FIB-ACC, BRO, BRO-TEL, BRO-ST- INTRO, PED-BRO, BRO-ACC, BRO-DIM	619-670
13	FLUORESCENCE	HNO-ICG, HNO-AF, BRO-AF-INTRO, BRO-AF	671-710
14	NAVIGATION	NAV	711-722
15	MICROSCOPY	ENT-MICRO	723-752
16	COMPONENTS SPARE PARTS	ENT-SP	SP 1-98
17	KARL STORZ OR1 NEO®, TELEPRESENCE HYGIENE, ENDOPROTECT1		



HEADMIRRORS - HEADLIGHTS

Headmirrors



074090 **Headmirror Standard**, with ball joint, replaceable mirror, diameter 90 mm, including:
Headband, narrow

075090 **Headmirror Standard**, with ball joint, replaceable mirror, diameter 90 mm, including:
Headband, wide

074090



076090 **ZIEGLER Headmirror**, replaceable mirror, diameter 90 mm, including:
Headband, narrow

077090 **ZIEGLER Headmirror**, replaceable mirror, diameter 90 mm, including:
Headband, wide

076090

Components/Spare Parts see chapter 16

LED Headlight POWER OF LIGHT

Special Features:

- Integrated battery/battery light source allows more freedom of movement
- No separate light source required
- No separate light cable required
- No mains supply required
- Low energy consumption
- No need to change lamp (50,000 hours service life)
- Available as rechargeable and battery versions
- More brightness and luminosity compared to warm light headlights
- Versions with white or yellow light available; both ensure that tissue structure can be recognized in their true colors
- Minimal heat generation
- Luminous field can be focused – adjustable from 10 to 100 mm at a working distance of 40 cm
- Soft, flexible headband ensures optimal fitting
- Ergonomic fit
- Easy vertical and horizontal adjustment to the shape of the head
- Individual adjustment possible during wear
- Optional: Extension Cable 094105 for attaching the battery and/or rechargeable battery box to OR clothing



094100 – 094130

Battery Versions

094100 **LED Headlight**, light model, **with white light**, battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance
including:
Headband
Battery Box
2x **Photo Batteries**, lithium, 3 V, CR 123 A

094110 **Same,**
with yellowish light

Rechargeable Battery Versions

094120 **LED Headlight**, light model, **with white light**, rechargeable battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance
including:
Headband
Rechargeable Battery Box, with 1 Li-Ion rechargeable battery
Battery Charger Li-Ion
Mains Cord

094130 **Same,**
with yellowish light

Components/Spare Parts see chapter 16

Headlight KS60

with Cold Light Illumination

Special Features:

- Luminous field can be focused – adjustable from 20 to 80 mm at a working distance of 40 cm – resulting in brightness of over 175,000 lux
- Double lens system for illumination in the depths of the operating field
- Lightweight headband also suitable for a small head size, can be adjusted both horizontally and vertically
- Sterilizable handle allows adjustment under sterile conditions, movable and height adjustable
- Light cable is divided in the head area for even distribution of weight
- Convenient light cable length of 290 cm provides greater freedom of movement



310060/310061

310060

Headlight KS60, with double lens system and Y-fiber optic light cable, >175,000 lux, illuminated area adjustable from 20 – 80 mm in diameter with 40 cm working distance, with removable and sterilizable focus handle

including:

Headband

Y-Fiber Optic Light Cable

Clip with Band



310061

Same,

including:

Y-Fiber Optic Light Cable, with 90° deflection to the cold light source



Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

Special Features:

- Good illumination in the depth of the operating field
- Diameter of light field can be adjusted from 10 to 60 mm
- Sterilizable handle, removable
- Comfortable, adjustable headband, including forehead cushion with push-button lock
- Clip for attaching the fiber optic light cable to OR clothing



094051/094055

094051

Headlight, with ball joint and vertical height adjustment, front section movable in all directions, with removable and sterilizable focus handle

including:

Headband

Fiber Optic Light Cable

Clip with Band



094055

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source



Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

Special Features:

- Good wearing comfort
- Ergonomic design
- Diameter of light field (20 – 80 mm) can be adjusted via the aperture



310010/310015



310020/310025



310010

Headlight, light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source including:

Headband
Clip with Band

310020

Same, including:
Headband, with cross band



310015

Headlight, light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the cold light source including:

Headband
Clip with Band

310025

Same, including:
Headband, with cross band

Components/Spare Parts see chapter 16

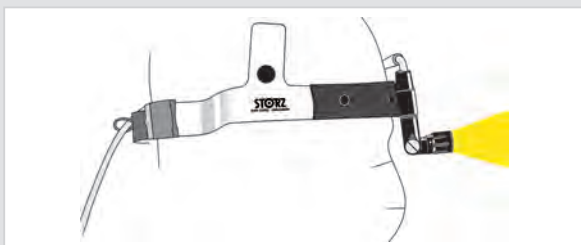
Headlights

with Cold Light Illumination

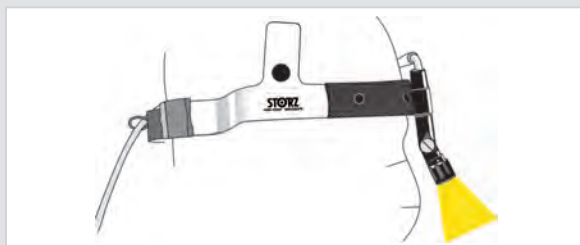
Special Features:

- Headlight can be adjusted in 3 dimensions: height adjustment on the headband, front can be turned 45° to the right or left and also tilted horizontally downwards to a max. of 165°
- Headlight is self-retaining in all positions
- Protective ring for the front lens reduces damage
- Small, lightweight model with thin fiber optic light cable, total weight of only 300 g
- Fiber optic light cable can be connected to either the left or the right of the headband
- Wide headband with bridges on either side to prevent slippage
- Replaceable forehead cushion

90° position



165° position



094301/094305



094301

Headlight, lightweight model, illuminated area 65 mm in diameter with 40 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band



094305

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

Components/Spare Parts see chapter 16

Headlights

with Cold Light Illumination

Special Features:

- Advanced model of 094301 headlight
- Diameter of light field can be adjusted from 30 to 230 mm

Available in 2 models:

- With integral fiber optic light cable or suitable for attachable fiber optic light cable



Headlight, light model, illuminated area adjustable from 30 – 230 mm in diameter with 40 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source

including:

- Headband**
- Clip with Band**



Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source



094330

Headlight, light model, illuminated area adjustable from 30 – 230 mm with 40 cm working distance, with connection for use with thin, 230 cm long Fiber Optic Light Cable 495 NTAS with straight plug or 495 NTXS with 90° deflection to the cold light source

including:

- Headband**
- Clip with Band**



For use with Headlight 094330:

495 NTAS **Fiber Optic Light Cable**, diameter 2.5 mm, length 230 cm
or

495 NTXS **Fiber Optic Light Cable**, with 90° deflection to the cold light fountain, diameter 2.5 mm, length 230 cm

Components/Spare Parts see chapter 16

Headlight "CLAR 73"

with Cold Light Illumination

Special Features:

- Mirror with slit for monocular viewing
- Concave mirror set in solid, protective mounting

Special Features:

- Diameter of the light field can be changed by means of the aperture setting
- Weight: 400 g
- With Headband 078730, vertical cable guide, for fiber optic light cable diameter 3.5 mm



095501/095505



095501

Headlight "CLAR 73", with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the cold light source

including:

Headband

Clip with Band



095505

Same,

including:

Fiber Optic Light Cable, with 90° deflection to the cold light source

Components/Spare Parts see chapter 16

Headbands

for Cold Light Illumination



310070

310070

Headband, fully adjustable, with Forehead Cushion 078511, with cross band, including holder, for Headlight 310060/310061



310075

310075

Headband, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting, for Headlight 310010/310015



310076

310076

Headband, fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting, for Headlight 310020/310025



078730

078730

Headband, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505



078740

078740

Headband, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094305, 094320, 094325 and 094330



078760

078760

Headband, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder, for Headlights 094100, 094110, 094120 and 094130, including Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



078681

078681

Clip with Band, for attaching fiber optic light cable to OR clothing



094105

094105

Extension Cable, for LED Headlights 094100 – 094130, for carrying the battery box or rechargeable battery box in OR clothing

Components/Spare Parts see chapter 16



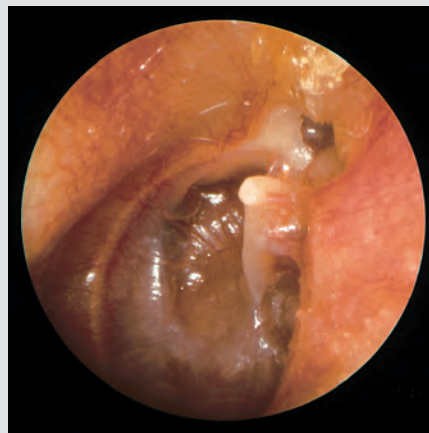
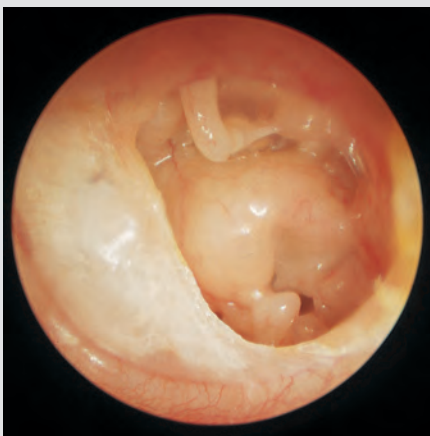
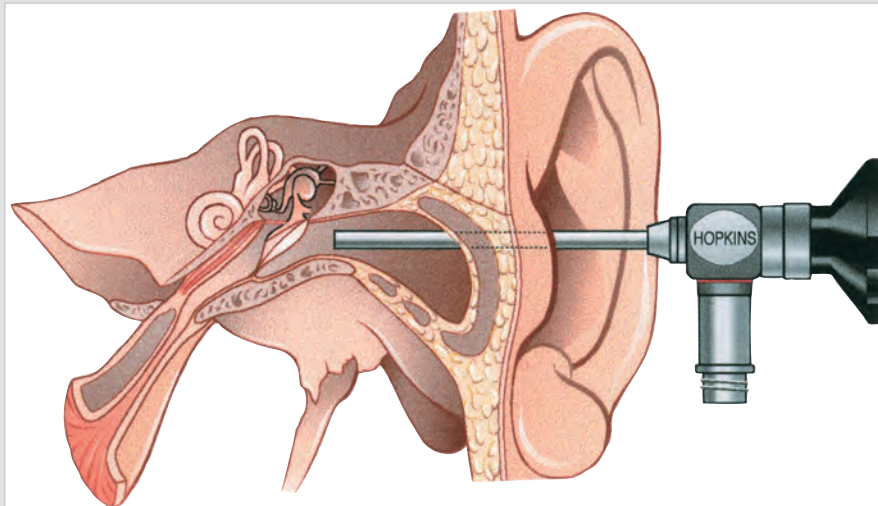
OTOLOGY

Otoscopy

with HOPKINS® Telescopes

Special Features:

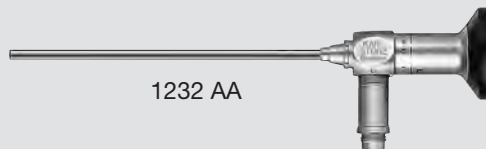
- For overview of the eardrum
- With wide angle lens
- HOPKINS® telescopes in diameters 1.9 mm, 2.7 mm, 3 mm and 4 mm for diagnosis and surgery of the ear



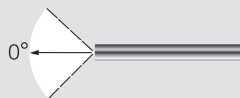
HOPKINS® Telescopes

for Examination of the Middle Ear

Diameter 1.9 mm, length 10 cm



1232 AA

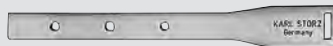


1232 AA

HOPKINS® Straight Forward Telescope 0°, diameter 1.9 mm, length 10 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

1232 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 1.9 mm, length 10 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



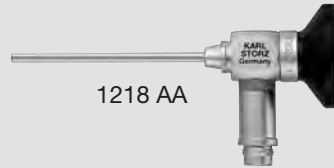
723750 A

Protection Tube, for HOPKINS® telescopes with length of 6 – 11 cm

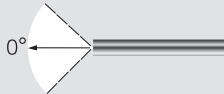
HOPKINS® Telescopes

Tympanoscopy in Practice

Diameter 3 mm, length 6 cm



1218 AA



1218 AA

Tele-Otoscope with HOPKINS® Straight Forward Telescope 0°, diameter 3 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



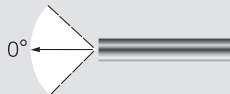
1218 BA

Tele-Otoscope with HOPKINS® Forward-Oblique Telescope 30°, diameter 3 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Diameter 4 mm, length 6 cm



1215 AA



1215 AA

Tele-Otoscope with HOPKINS® Straight Forward Telescope 0°, diameter 4 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



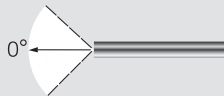
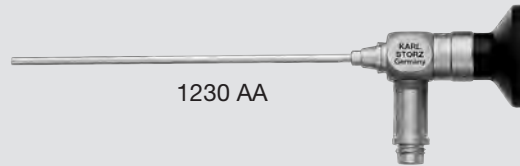
119500

HAWKE Pneumatic Adaptor, for Ear Specula 119401 – 119410, including rubber bulb with tube and screw-on cone, for use with Tele-Otoscope 1218 AA

119515

Bridge, for Pneumatic Adaptor 119500, for use with Tele-Otoscope 1215 AA with Ear Specula 119401 – 119404 and Tele-Otoscope 1218 AA with Ear Specula 119401 – 119410

Diameter 2.7 mm, length 11 cm



1230 AA

HOPKINS® Straight Forward Telescope 0°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



1230 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Battery Light Source LED for Endoscopes



11301 D4



11301 DG

- 11301 D4 **Battery Light Source LED for Endoscopes**, with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**, with 2 Photo Batteries 121306 P
- 11301 DE **Battery Light Source LED for Endoscopes**, rechargeable, with click connection, brightness > 110 lm / > 150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
- 11301 DF **Same**, with fast screw thread
- 11301 DG **Charging Unit**, for 11301 DE/11301 DF, for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection**
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm

Components/Spare Parts see chapter 16

Special Features:

- For imaging and documentation of the auditory canal and eardrum
- CMOS sensor
- Integrated LED illumination
- Exchangeable ear specula
- Manual focus ring
- Compatible with KARL STORZ C-MAC® monitor system and C-HUB® camera control unit



121200 K

121200 K **CMOS Video Otoscope KIT**, with integrated LED illumination, for use with C-HUB® 20 2901 01 and Monitor 8402 ZX including:
Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100



20 2901 01



8402 ZX

121200 C **CMOS Video Otoscope with C-HUB®**, with integrated LED illumination including:
Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100
C-HUB® CMOS Camera Control Unit, Interfaces: USB 2.0, S-Video output (NTSC), power socket
Power Supply
S-Video (Y/C) Connecting Cable
USB Connecting Cable

121200 M **CMOS Video Otoscope with Monitor**, with integrated LED illumination including:
Ear Speculum, outer diameter 4 mm, black, for single use, unsterile, package of 100
Monitor, screen size 7", memory option with SD card, rechargeable battery, power adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, suitable for wipe disinfection

Accessory:

121204 **Ear Speculum**, for CMOS video otoscope, outer diameter 4 mm, black, for single use, unsterile, package of 1000

Components/Spare Part see catalog TELEPRESENCE

Ear



121300



121302 –
121305

121302

121303

121304

121305

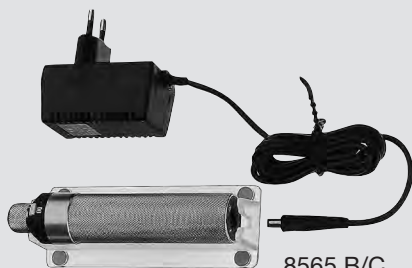
121320



121332
121334

121332

121334



8565 B/C

8565 B

8565 C

HEINE **Otoscope**, otoscope head with fiber optic light transmission incorporated including:

Ear Specula, outer diameter 2.5 – 5 mm

Battery Handle

2x 1.5 Volt Battery

Spare Lamp

Ear Speculum, reusable, black, outer diameter 2.5 mm

Same, outer diameter 3 mm

Same, outer diameter 4 mm

Same, outer diameter 5 mm

HEINE **Otoscope Head**, fiber optic light transmission incorporated, for use with Battery Handles 8565 B/BC/C including:

Ear Specula, outer diameter 2.5 – 5 mm

Spare Lamp

Ear Specula for single use, gray, outer diameter 2.5 mm, for children, package of 1000

Same, outer diameter 4 mm, for adults

Battery Handle, 3.5 Volt

including:

Rack

Charger, power supply 220 – 240 VAC

Battery Handle, 3.5 Volt

including:

Rack

Charger, power supply 115 VAC

Components/Spare Parts see chapter 16



119420 –
119404



Size 00

119420

BRÜNINGS Ear Speculum, size 00, outer diameter 4 mm

Size 0

119410

Same, size 0, outer diameter 4.5 mm

Size 1

119401

Same, size 1, outer diameter 6 mm

Size 2

119402

Same, size 2, outer diameter 7.5 mm

Size 3

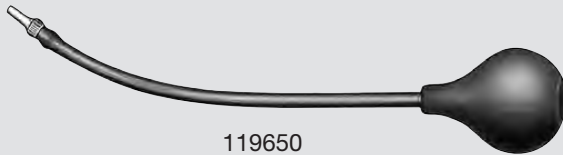
119403

Same, size 3, outer diameter 9.5 mm

Size 4

119404

Same, size 4, outer diameter 11 mm



119650

119650

Rubber Bulb, for pneumatic testing, with record cone, for Diagnostic Heads 119700 – 120600



119700

119700

SIEGLE Diagnostic Head, without magnification



119800

119800

BRÜNINGS Diagnostic Head, with magnification, anastigmatic



119900

119900

FRENZEL Operating Head, with wall detail, with magnification, anastigmatic

Components/Spare Parts see chapter 16

Ear



122003 –
122007

-  3 mm 122003
-  4 mm 122004
-  5 mm 122005
-  6 mm 122006
-  7.5 mm 122007

HARTMANN **Ear Speculum**, standard model, outer diameter 3 mm, length 3.6 cm

Same, outer diameter 4 mm




Same, outer diameter 5 mm

Same, outer diameter 6 mm

Same, outer diameter 7.5 mm



122503 –
122505

-  3 mm 122503
-  4 mm 122504
-  5 mm 122505

HARTMANN **Ear Speculum**, short, for children, outer diameter 3 mm, length 2.7 cm

Same, outer diameter 4 mm

Same, outer diameter 5 mm



123008
123009

-  8.5 mm 123008
-  10 mm 123009

BOUCHERON **Ear Speculum**, outer diameter 8.5 mm, length 3.6 cm

Same, outer diameter 10 mm









123031 –
123037

-  4 mm
-  5 mm
-  6 mm
-  7 mm
-  8 mm
-  9 mm
-  10 mm

123031	FARRIOR Ear Speculum, round, size 1, outer diameter 4 mm, length 4.5 cm
123032	Same , size 2, outer diameter 5 mm
123033	Same , size 3, outer diameter 6 mm
123034	Same , size 4, outer diameter 7 mm
123035	Same , size 5, outer diameter 8 mm
123036	Same , size 6, outer diameter 9 mm
123037	Same , size 7, outer diameter 10 mm



123041 –
123049

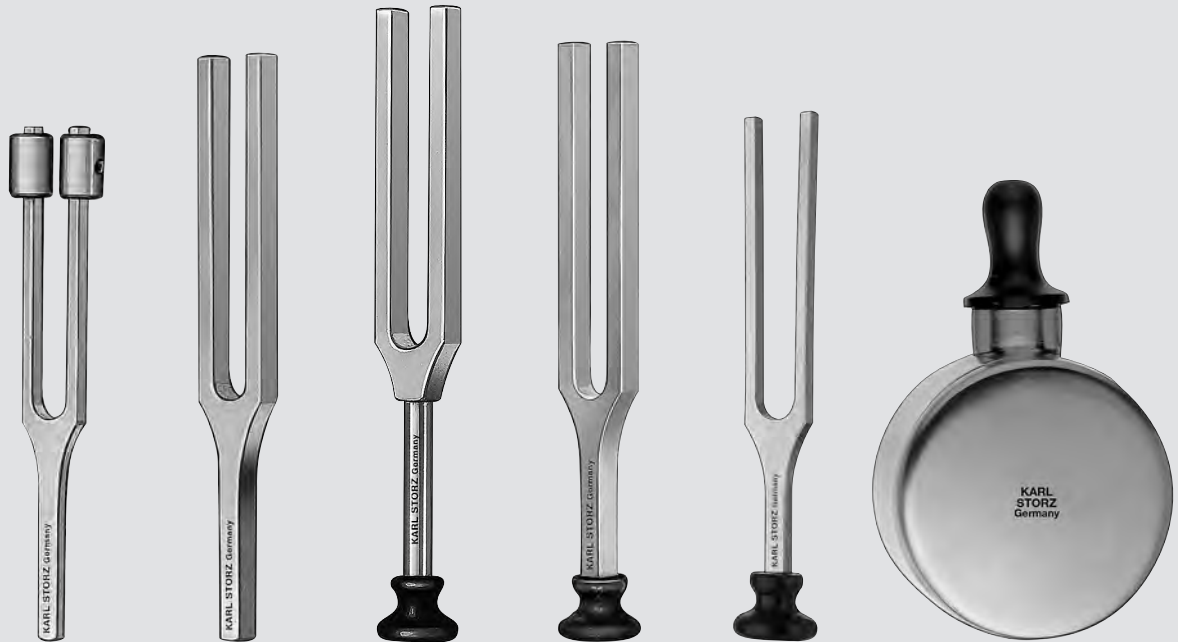
-  4.0 x 4.8 mm
-  5.0 x 5.8 mm
-  5.5 x 6.3 mm
-  6.0 x 6.8 mm
-  6.5 x 7.3 mm
-  7.0 x 7.8 mm
-  7.5 x 8.3 mm
-  8.0 x 8.8 mm
-  8.5 x 9.3 mm

123041	FARRIOR Ear Speculum, oval, size 1, 4.0 x 4.8 mm, length 4.3 cm
123042	Same , size 2, 5.0 x 5.8 mm
123043	Same , size 3, 5.5 x 6.3 mm
123044	Same , size 4, 6.0 x 6.8 mm
123045	Same , size 5, 6.5 x 7.3 mm
123046	Same , size 6, 7.0 x 7.8 mm
123047	Same , size 7, 7.5 x 8.3 mm
123048	Same , size 8, 8.0 x 8.8 mm
123049	Same , size 9, 8.5 x 9.3 mm



123205 –
123207

123205	HOLMGREEN Endaural Ear Speculum, self-retaining, outer diameter 5 mm
123206	Same , outer diameter 6 mm
123207	Same , outer diameter 7 mm



125300
125400

125500
125600
125700
125800

125501
125601

126000

126100

130000

- 125300 **Tuning Fork, C-128, with weights**
- 125400 **Same, C¹-256, with weights**
- 125500 **Same, C²-512, without weights**
- 125600 **Same, C³-1024, without weights**
- 125700 **Same, C⁴-2048, without weights**
- 125800 **Same, C⁵-4096, without weights**
- 125501 **Tuning Fork, C²-512, without weights, with stand**
- 125601 **Tuning Fork, C³-1024, without weights, with stand**
- 126000 **Tuning Fork, A¹-440, with stand**
- 126100 **Same, small model**
- 130000 **BARANY Noise Apparatus, with ear olive**

Components/Spare Parts see chapter 16



138805



138905

- 138805 FRENZEL **Nystagmus Spectacles**, black frame, with ventilation slot, rubber band and cable with 25 mm flat-cable plug, including 2 Lamps 138964, 4 V
- 138905 FRENZEL **Nystagmus Spectacles**, black frame, with attached, adjustable battery handle and ventilation slots, including 2 Lamps 138964, 4 V, for use with 3 Batteries 121306 (not included in delivery)

Components/Spare Parts see chapter 16

Ear

○ 146001
○ 146002

142418 –
142422

142000 142700 143800 146001
146002

148500

149325

149326

149320

142000 **POLITZER Air Bag**, with metal cone, 8 oz.

142418 **Nasal Olive**, metal, size 18 mm

142420 **Same**, size 20 mm

142422 **Same**, size 22 mm

142700 **Metal Connector**, for 142000, 146001 and 146002

143800 **Rubber Balloon**, for eustachian catheter, 2 ½ oz.

146001 **HARTMANN Eustachian Catheter**, size 1,
length 13.5 cm, olive diameter 2.8 mm

146002 **Same**, size 2, olive diameter 3.2 mm

148500 **JANSEN Diagnostic Tube**, extra light, with 1 black tip
for doctor and 6 patient tips, in 3 sizes, with stand

148501 **Same**, with 1 black tip for doctor and 1 tip for patient

148608 **Ear Tip**, only, diameter 8 mm

148609 **Same**, diameter 9 mm

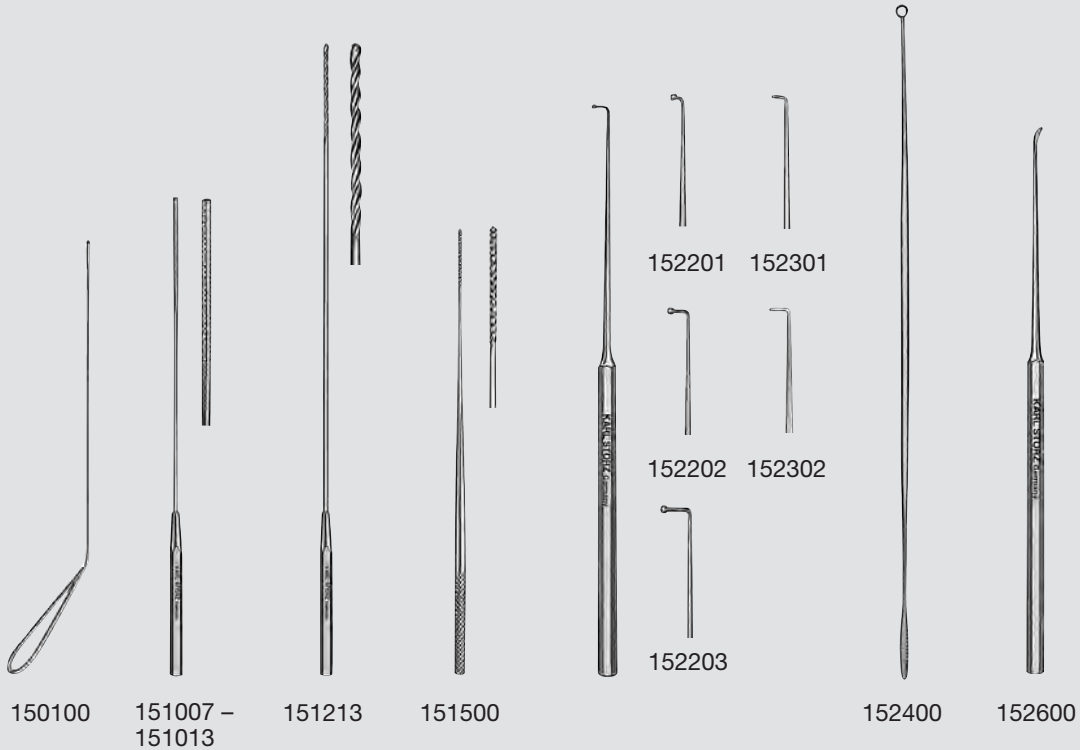
148610 **Same**, diameter 10 mm

148710 **Ear Tip**, black, diameter 10 mm

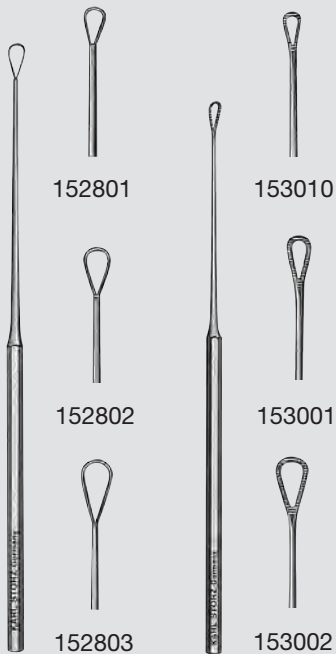
149320 **KABIERSKE Powder Blower**, with large bottle, with
1 straight Cannula 149325 and 1 curved Cannula 149326

Components/Spare Parts see chapter 16

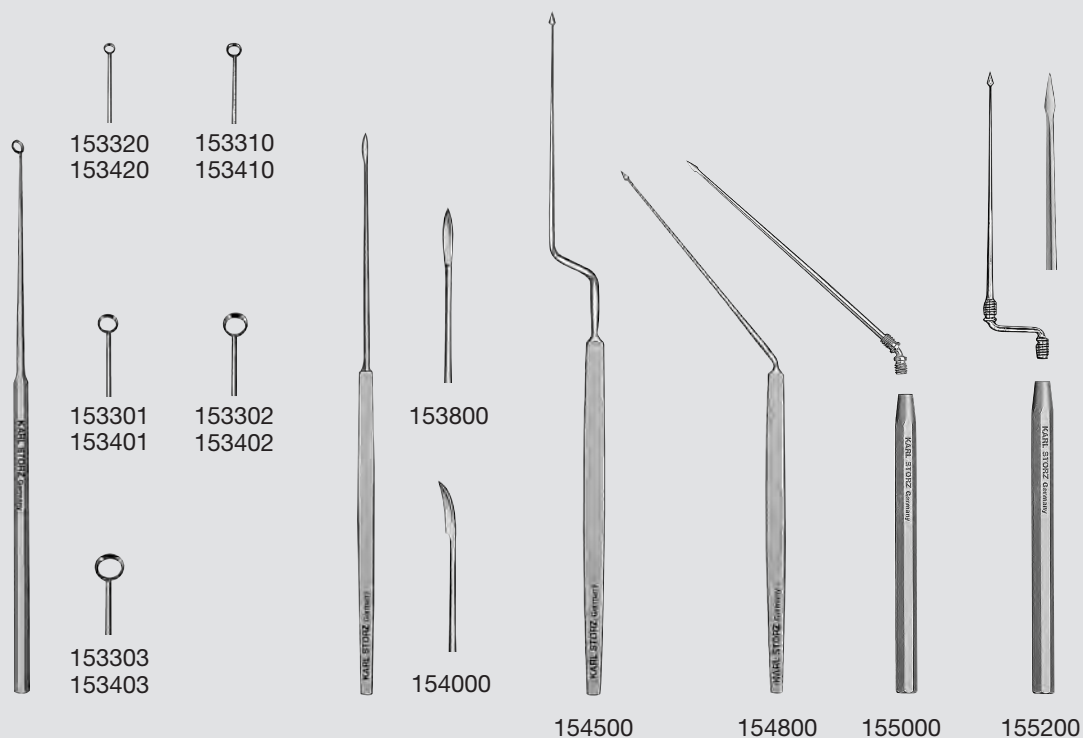
3-991



- 150100 **STACKE Ear Probe**, silver, length 10.5 cm
- 151007 **Cotton Applicator**, standard model, triangular serrated, diameter 0.7 mm, working length 13 cm
- 151009 **Same**, diameter 0.9 mm
- 151011 **Same**, diameter 1.1 mm
- 151013 **Same**, diameter 1.3 mm
- 151213 **Cotton Applicator**, with thread, diameter 1.3 mm, working length 17.5 cm
- 151500 **FROHN Cotton Applicator**, with thread, working length 12.5 cm
- 152201 **WAGENER Ear Hook**, with ball end, size 1, length 15.5 cm
- 152202 **Same**, size 2
- 152203 **Same**, size 3
- 152301 **Ear Hook**, without ball end, size 1, length 15.5 cm
- 152302 **Same**, size 2
- 152400 **JOBSON-HORNE Probe**, working length 18 cm
- 152600 **ZAUFAL Ear Spatula**, length 14.5 cm
- 152801 **BILLEAU Ear Loop**, size 1, length 16 cm
- 152802 **Same**, size 2
- 152803 **Same**, size 3
- 153010 **WEBER-LOCH Ear Loop**, size 0, length 14.5 cm
- 153001 **Same**, size 1
- 153002 **Same**, size 2



Ear



- 153320 **BUCK Ear Curette**, blunt, size 00, length 14.5 cm
- 153310 **Same**, size 0
- 153301 **Same**, size 1
- 153302 **Same**, size 2
- 153303 **Same**, size 3
- 153420 **BUCK Ear Curette**, sharp, size 00, length 14.5 cm
- 153410 **Same**, size 0
- 153401 **Same**, size 1
- 153402 **Same**, size 2
- 153403 **Same**, size 3
- 153800 **POLITZER Ear Knife**, straight, working length 6.5 cm
- 154000 **Same**, curved
- 154500 **TRAUTMANN Ear Knife**, delicate, bayonet-shaped, working length 7.5 cm
- 154800 **POLITZER Ear Knife**, delicate, angular, working length 7.5 cm
- 155000 **Ear Knife**, screw handle, angular, working length 8 cm
- 155200 **Same**, bayonet-shaped

The image displays several ear surgical instruments with their respective model numbers and dimensions:

- 156000**: A pair of long, thin forceps.
- 157000**: A pair of forceps with a 7.5 cm working length.
- 157100**: A pair of small, delicate forceps with a 4.5 cm working length.
- 158500** and **158800**: A pair of slender forceps with a 6 cm working length.
- 161000**, **161200**, **162020**, **162025**, **162500**, and **162800**: A series of five different forceps models, all with an 8 cm working length.
- 164100**: A snare wire instrument with a long handle and a circular loop.
- 164800**: A curved snare wire with a 6 cm length.

156000	LUCAE Ear Forceps , bayonet-shaped, length 14.5 cm	162020	HARTMANN Ear Forceps , round cupped jaws, diameter 2 mm, working length 8 cm
157000	TRÖLTSCH Ear Dressing Forceps , serrated, standard model, working length 7.5 cm	162025	Same , diameter 2.5 mm
157100	TRÖLTSCH Ear Dressing Forceps , serrated, small and delicate, working length 4.5 cm	162500	STRÜMPEL Ear Forceps , working length 8 cm
158500	HARTMANN Ear Dressing Forceps , slender, working length 6 cm	162800	HARTMANN Ear Forceps , through-cutting, straight, working length 8 cm
158800	Same , extra delicate	164100	KRAUSE Ear Snare , length 18 cm
161000	HARTMANN Ear Forceps , serrated, working length 8 cm	164800	Snare Wire , for Ear Snares 164100, package of 25
161200	Ear Forceps , duckbill, flat, serrated jaws, working length 8 cm		

Ear



168000

169009

169011
169014

169018

169027

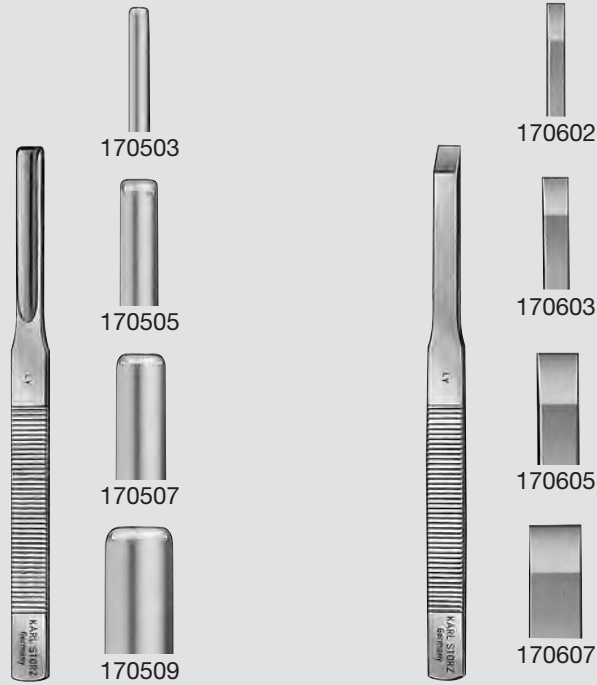
169106

169206

169311

169503
169506

- 168000 MUCK **Periosteal Knife**, length 13 cm
- 169009 JANSEN **Raspatory**, width 9 mm, length 19.5 cm
- 169011 **Same**, width 11 mm
- 169014 **Same**, width 14 mm
- 169018 LANGENBECK **Raspatory**, width 18 mm, length 19 cm
- 169027 JANSEN **Raspatory**, width 9 mm, length 17 cm
- 169106 v. EICKEN **Raspatory**, width 6 mm, length 19.5 cm
- 169206 **Raspatory**, ERLANGEN model, slightly curved, width 6 mm, length 17.5 cm
- 169203 **Same**, width 3 mm
- 169204 **Same**, width 4 mm
- 169311 FARABEUF **Raspatory**, width 11 mm, length 18 cm
- 169503 WILLIGER **Elevator**, width 3.5 mm, length 16 cm
- 169506 **Same**, width 5 mm



- 170503 TRAUTMANN **Mastoid Gouge**,
width 3 mm, length 14 cm
- 170505 **Same**, width 5 mm
- 170507 **Same**, width 7 mm
- 170509 **Same**, width 9 mm

- 170602 TRAUTMANN **Mastoid Chisel**,
width 2 mm, length 14 cm
- 170603 **Same**, width 3 mm
- 170605 **Same**, width 5 mm
- 170607 **Same**, width 7 mm



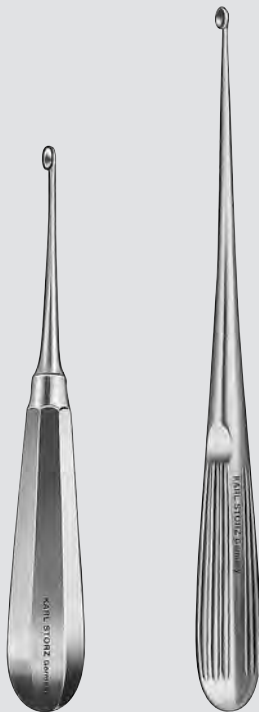
174200

174430

174700

174800

- 174200 **COTTLE Metal Mallet**, length 18 cm
- 174420 **Metal Mallet**, small model, diameter 20 mm, length 19.5 cm
- 174426 **Metal Mallet**, medium model, diameter 26 mm, length 19.5 cm
- 174430 **Metal Mallet**, large model, diameter 30 mm, length 19.5 cm
- 174700 **Metal Mallet**, with plastic replacement head, small, lightweight model, length 18 cm
- 174800 **Metal Mallet**, with plastic replacement head, length 22.5 cm



175840 –
175804

176040 –
176001



- 175840 **SPRATT Mastoid Curette**, size 0000, length 16.5 cm
- 175830 **Same**, size 000
- 175820 **Same**, size 00
- 175810 **Same**, size 0
- 175801 **SPRATT Mastoid Curette**, size 1, length 17 cm
- 175802 **Same**, size 2
- 175803 **Same**, size 3
- 175804 **Same**, size 4
- 176040 **LEMPERT Mastoid Curette**, size 0000, length 21 cm
- 176030 **Same**, size 000
- 176020 **Same**, size 00
- 176010 **Same**, size 0
- 176001 **Same**, size 1

Components/Spare Parts see chapter 16



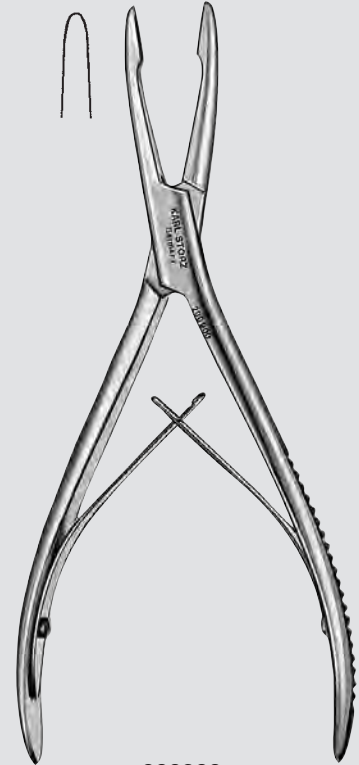
200400



200600



200800



200900



201000

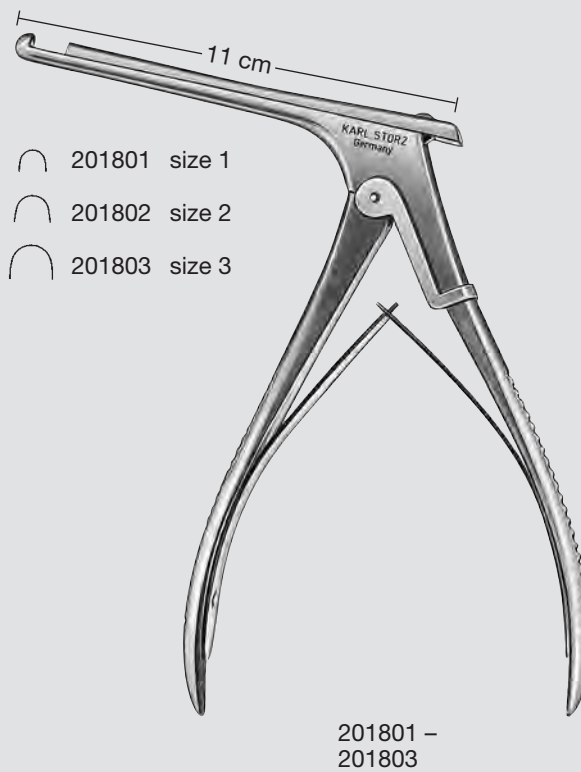


201200

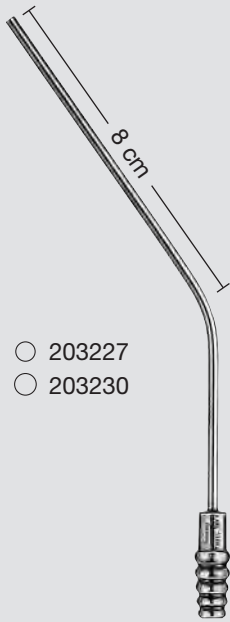


489044

- 200400 **BEYER Rongeur**, slender, curved, length 17 cm
- 200600 **LEMPERT Rongeur**, slender, straight, length 15.5 cm
- 200800 **LUER-HARTMANN Rongeur**, curved, length 17.5 cm
- 200900 **HEANLEY Rongeur**, straight, length 19 cm
- 201000 **JANSEN Rongeur**, bayonet-shaped, length 17 cm
- 201200 **LUER-RUSKIN Rongeur**, with double joint, curved, length 18.5 cm
- 489044 **LUER-RUSKIN Rongeur**, with double joint, curved, 2 mm, length 15 cm

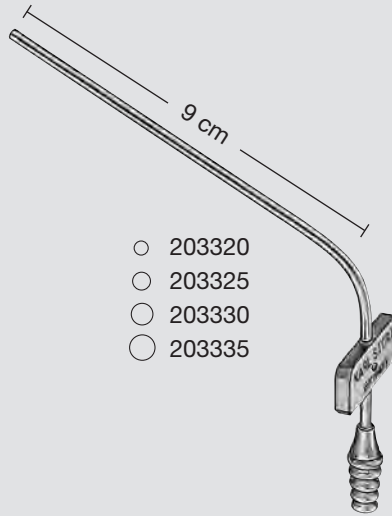


- | | |
|--------|---|
| 201801 | KERRISON Rongeur , size 1,
working length 11 cm |
| 201802 | Same , size 2 |
| 201803 | Same , size 3 |



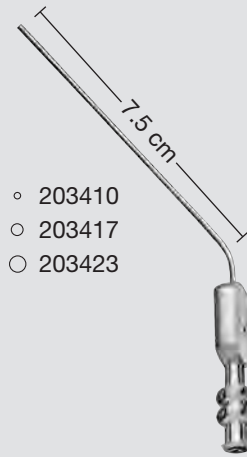
- 203227
- 203230

203227
203230



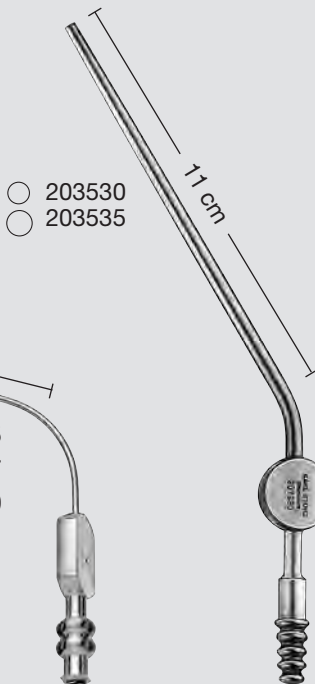
- 203320
- 203325
- 203330
- 203335

203320 –
203335



- 203410
- 203417
- 203423

203410 –
203423



- 203530
- 203535

- 203615
- 203617
- 203620

203615 –
203620

203530
203535

203227

Suction Tube, angular, cylindrical, LUER, outer diameter 2.7 mm, working length 8 cm

203230

Same, outer diameter 3 mm

203320

Suction Tube, angular, with grip plate and cut-off hole, LUER, outer diameter 2 mm, working length 9 cm

203325

Same, outer diameter 2.5 mm

203330

Same, outer diameter 3 mm

203335

Same, outer diameter 3.5 mm

203410

BARON Suction Tube, angular, with grip plate, cut-off hole and stylet, LUER-Lock, outer diameter 1 mm, working length 7.5 cm

203417

Same, outer diameter 1.7 mm

203423

Same, outer diameter 2.3 mm

203530

Suction Tube, angular, conical, LUER, with grip plate, outer diameter 3 mm, working length 11 cm

203535

Same, outer diameter 3.5 mm

203615

BARNES Suction Tube, with cut-off hole, LUER-Lock, outer diameter 1.5 mm, working length 5 cm

203617

Same, outer diameter 1.7 mm

203620

Same, outer diameter 2 mm

○ 203930
○ 203940

○ 203845

○ 203830
○ 203835

9 cm

• 203705
• 203707
• 203710
• 203715

11 cm

13 cm

9 cm

203705 -
203715

○ 203720

7 cm

203720

○ 203725 K

11 cm

203725 K

○ 203725
○ 203730
○ 203740
○ 203750

203725 -
203750

203830
203835

203845

203930
203940

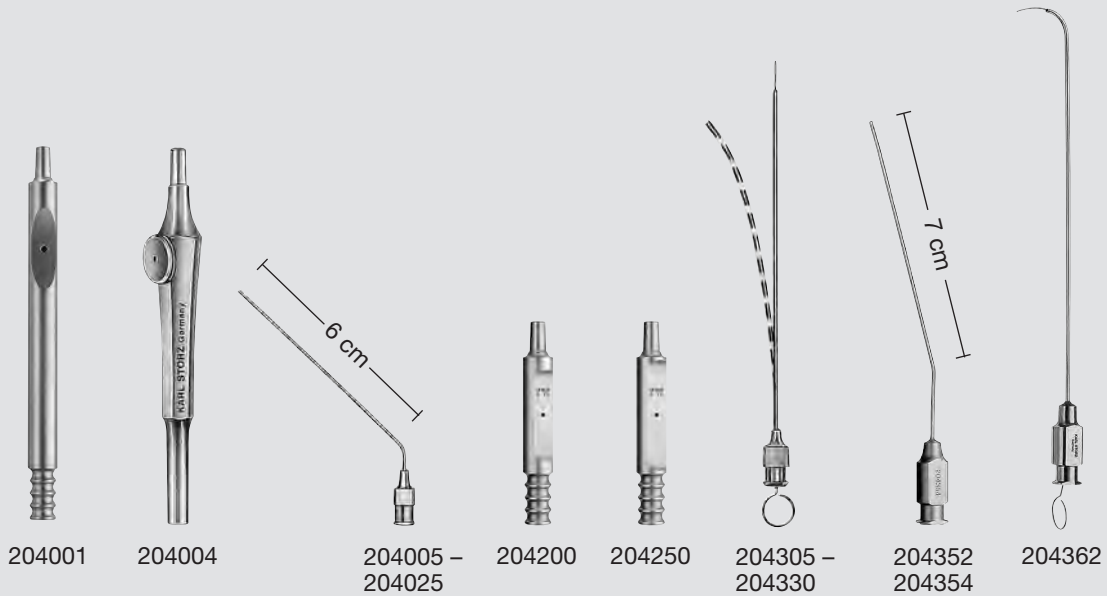
203945

203960

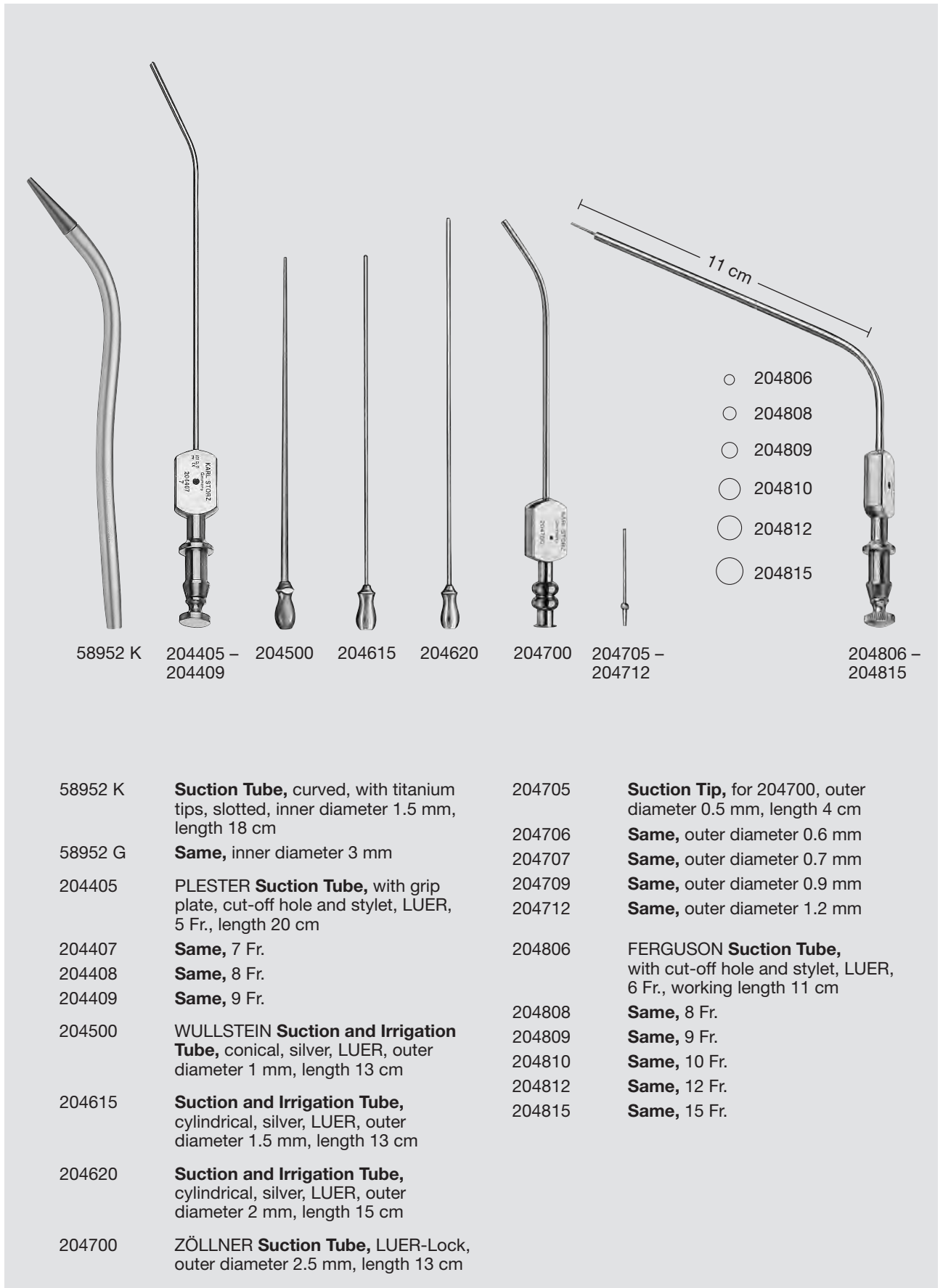
203705
203707
203710
203715
203720
203725 K
203725
203730
203740
203750
203830
203835
203845
203930
203940
203945
203960

Suction Tube, cylindrical, LUER, outer diameter 0.5 mm, working length 9 cm
Same, outer diameter 0.7 mm
Same, outer diameter 1 mm
Same, outer diameter 1.5 mm
Same, outer diameter 2 mm
Suction Tube, cylindrical, LUER, outer diameter 2.5 mm, working length 7 cm
Same, working length 11 cm
Suction Tube, cylindrical, LUER, outer diameter 3 mm, working length 11 cm
Same, outer diameter 4 mm
Same, outer diameter 5 mm
Suction Tube, conical, LUER, outer diameter 3 mm, working length 11 cm
Same, outer diameter 3.5 mm
Suction Tube, conical, LUER, outer diameter 4.5 mm, working length 13 cm
Suction Tube, malleable, LUER, outer diameter 3 mm, length 22.5 cm
Suction Tube, straight, cylindrical, outer diameter 4 mm, length 22.5 cm
Suction Tube, curved, conical, outer diameter 4.5 mm, length 20 cm
Suction Tube, curved, with olive, outer diameter 6 mm, length 19 cm

12-904



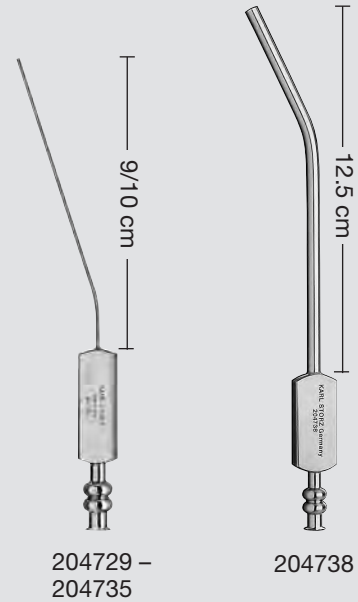
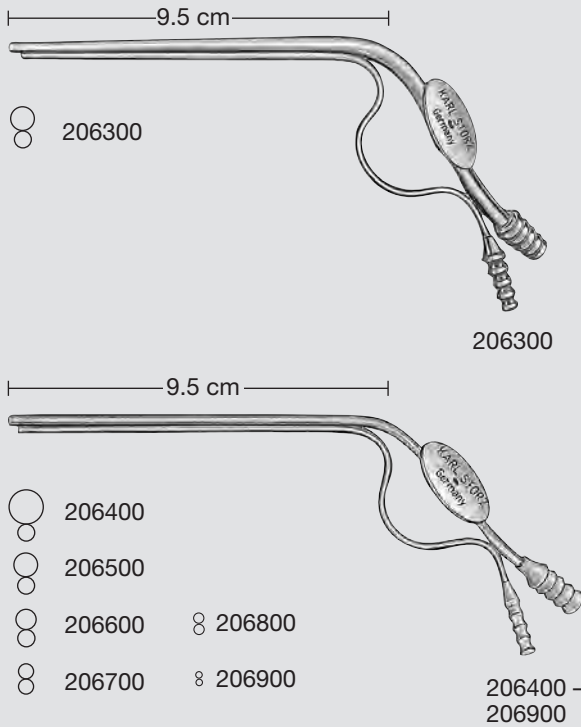
204001	Suction Handle , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204305	Suction Tube , straight, LUER-Lock, malleable, outer diameter 0.5 mm, length 10 cm
204004	WULLSTEIN Suction Handle , with cut-off hole, LUER cone, length 10 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204307	Same , outer diameter 0.7 mm
204005	Suction Tube , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm	204310	Same , outer diameter 1 mm
204007	Same , outer diameter 0.7 mm	204313	Same , outer diameter 1.3 mm
204008	Same , outer diameter 0.8 mm	204315	Same , outer diameter 1.5 mm
204010	Same , outer diameter 1 mm	204320	Same , outer diameter 2 mm
204013	Same , outer diameter 1.3 mm	204325	Same , outer diameter 2.5 mm
204015	Same , outer diameter 1.5 mm	204330	Same , outer diameter 3 mm
204020	Same , outer diameter 2 mm	204352	Suction Tube , angular, malleable, LUER-Lock, outer diameter 0.7 mm, working length 7 cm, for use with Handle 204250
204025	Same , outer diameter 2.5 mm	204354	Same , outer diameter 1 mm
204200	FISCH Suction Handle , with cut-off hole, LUER cone, length 5.5 cm, for use with Suction Tubes 204005 – 204025, 204305 – 204330	204360	Suction Tube , curved 6 mm, LUER-Lock, outer diameter 0.8 mm, length 10 cm
204250	FISCH Suction Handle , with long thumb grip, cut-off hole diameter 1 mm, inner diameter 1.7 mm, LUER cone, length 5.5 cm, for use with Suction Tubes 204352 – 204354	204361	Irrigation Cannula , curved 6 mm, LUER-Lock, outer diameter 1 mm, length 10 cm
		204362	Suction Tube , curved 6 mm, LUER-Lock, outer diameter 1.2 mm, length 10 cm
		204365	Same , curved 8 mm
		204366	Same , curved 8 mm, outer diameter 1.6 mm



58952 K 204405 – 204409 204500 204615 204620 204700 204705 – 204712 204806 – 204815

- | | | | |
|---------|---|--------|--|
| 58952 K | Suction Tube , curved, with titanium tips, slotted, inner diameter 1.5 mm, length 18 cm | 204705 | Suction Tip , for 204700, outer diameter 0.5 mm, length 4 cm |
| 58952 G | Same , inner diameter 3 mm | 204706 | Same , outer diameter 0.6 mm |
| 204405 | PLESTER Suction Tube , with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm | 204707 | Same , outer diameter 0.7 mm |
| 204407 | Same , 7 Fr. | 204709 | Same , outer diameter 0.9 mm |
| 204408 | Same , 8 Fr. | 204712 | Same , outer diameter 1.2 mm |
| 204409 | Same , 9 Fr. | 204806 | FERGUSON Suction Tube , with cut-off hole and stylet, LUER, 6 Fr., working length 11 cm |
| 204500 | WULLSTEIN Suction and Irrigation Tube , conical, silver, LUER, outer diameter 1 mm, length 13 cm | 204808 | Same , 8 Fr. |
| 204615 | Suction and Irrigation Tube , cylindrical, silver, LUER, outer diameter 1.5 mm, length 13 cm | 204809 | Same , 9 Fr. |
| 204620 | Suction and Irrigation Tube , cylindrical, silver, LUER, outer diameter 2 mm, length 15 cm | 204810 | Same , 10 Fr. |
| 204700 | ZÖLLNER Suction Tube , LUER-Lock, outer diameter 2.5 mm, length 13 cm | 204812 | Same , 12 Fr. |
| | | 204815 | Same , 15 Fr. |

3-993



206300	FISCH Suction and Irrigation Tube , conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm	207000	Silicone Tubing, autoclavable , coil length 100 cm, outer diameter 8 mm
206400	FISCH Suction and Irrigation Tube , cylindrical, suction tube outer diameter 4.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm	204729	FISCH Suction Tube , angular, with grip plate, outer diameter 1.2 mm, working length 9 cm
206500	Same , suction tube outer diameter 3 mm, irrigation tube outer diameter 2 mm	204730	Same , outer diameter 1.5 mm
206600	Same , suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm	204732	Same , outer diameter 2 mm
206700	Same , suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm	204733	Same , outer diameter 2.2 mm
206800	Same , suction tube outer diameter 1.5 mm, irrigation tube outer diameter 1.5 mm	204735	Same , outer diameter 3 mm, working length 10 cm
206900	Same , suction tube outer diameter 1 mm, irrigation tube outer diameter 1 mm	204738	Same , outer diameter 5 mm, working length 12.5 cm

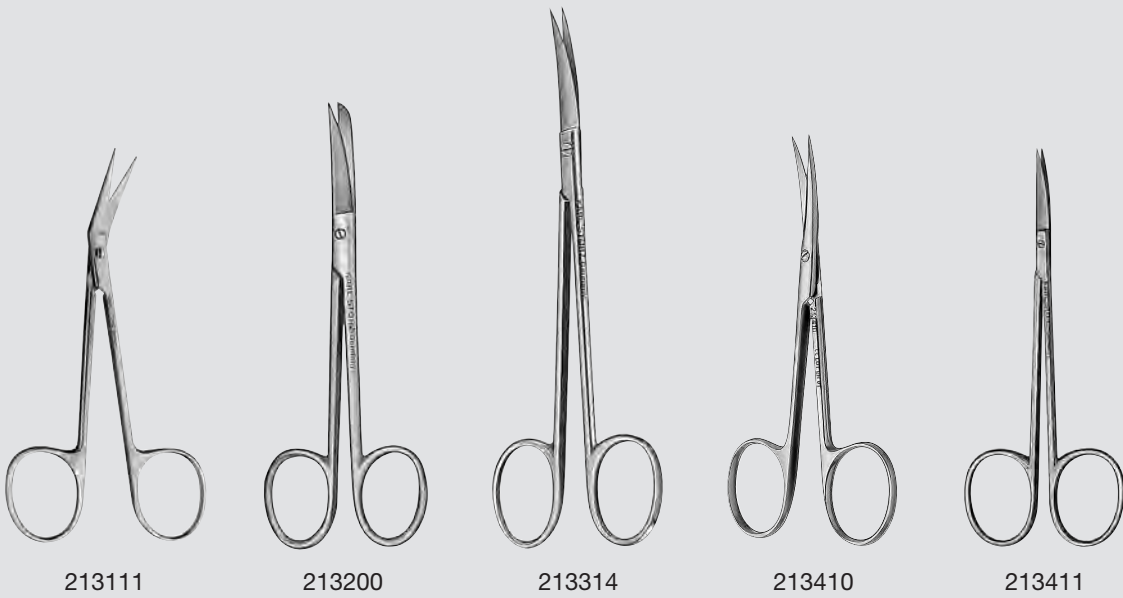


211804 212000 212002 212803 212807 213004 213005 213008

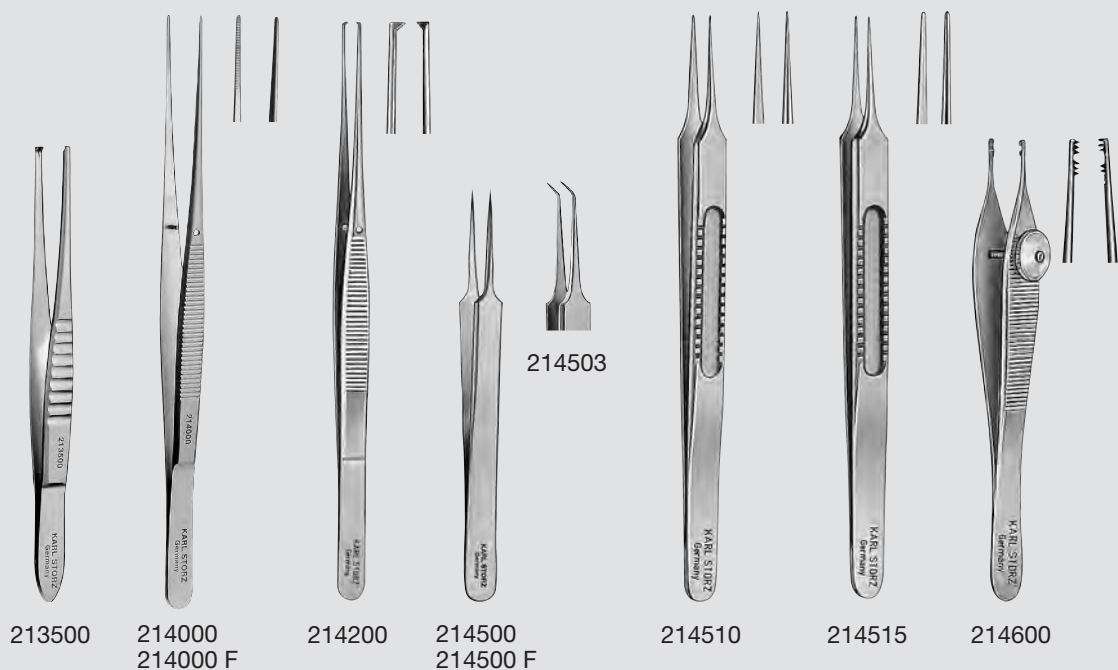


213011 213015

- 211804 **FISCH Dual Purpose Scalpel Handle**,
elevator on one side, scalpel handle no. 7
on the other side, length 16 cm
- 212000 **WULLSTEIN Raspatory**, length 18 cm
- 212002 **DIETER Raspatory**, width 2.2 mm,
length 18 cm
- 212803 **LEMPERT Raspatory**, width 3 mm,
length 19 cm
- 212807 **LEMPERT Raspatory**, curved,
width 7 mm, length 18 cm
- 213004 **FISCH Raspatory**, slightly curved,
width 4 mm, length 18 cm
- 213005 **FISCH Dura Elevator**, width 5 mm,
length 16 cm
- 213008 **PLESTER Raspatory**, width 8 mm,
length 18 cm
- 213011 **FISCH Raspatory**, width 10 mm,
length 16 cm
- 213015 **FISCH Periosteal Raspatory**,
angled, width 11 mm, length 21 cm



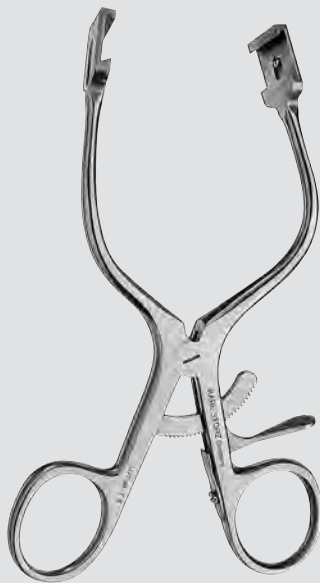
- 213111 **Scissors**, angled, very delicate, sharp/sharp, length 11 cm
- 213200 **Scissors**, curved, sharp/blunt, length 12 cm
- 213314 **WULLSTEIN Scissors**, curved, sharp/sharp, length 14 cm
- 213410 **FISCH Scissors**, extra delicate, curved, sharp/sharp, length 10.5 cm
- 213411 **FISCH Scissors**, fine, curved, sharp/sharp, length 10.5 cm



- 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- 214000 **WULLSTEIN Forceps**, serrated, length 15 cm
- 214000 F **Same**, soft spring-action
- 214200 **WULLSTEIN Forceps**, 1 x 2 teeth, length 15 cm
- 214500 **Jeweler Forceps**, fine, pointed, length 11 cm
- 214500 F **Same**, soft spring-action
- 214503 **Suture Forceps**, angled, length 11 cm
- 214510 **Suture Forceps**, smooth, width of jaws 0.5 mm, length 16 cm
- 214515 **Same**, width of jaws 0.8 mm
- 214600 **DERLACKI Clamp, Ossicle Holding**, length 12 cm

Special Features:

- Movable blades enable retraction of the operative field
- Exchangeable blades (2-prong/3-prong/full blade) enable individual adjustment of the retractor
- 5 different blades available
- One retractor replaces many different models
- Relatively low blade replacement costs



219550



219552



219553



219555



219562



219563

219550 OTT **Retractor**, length 13 cm, for use with adjustable, detachable valves 219552 – 219563

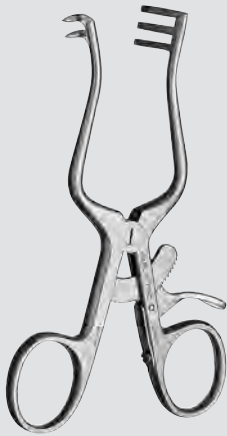
219552 **Valve**, 2 prongs, 45°, blunt, for use with Retractor 219550

219553 **Same**, 3 prongs

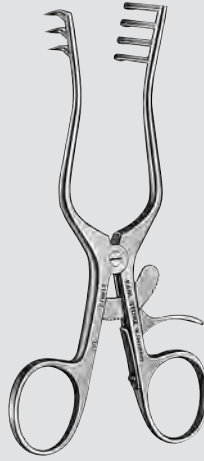
219555 **Valve**, full blade, for use with Retractor 219550

219562 **Valve**, 2 prongs, 90°, blunt, for use with Retractor 219550

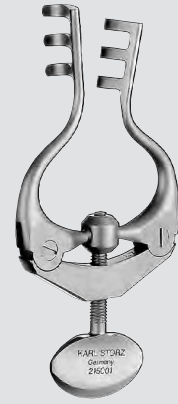
219563 **Same**, 3 prongs



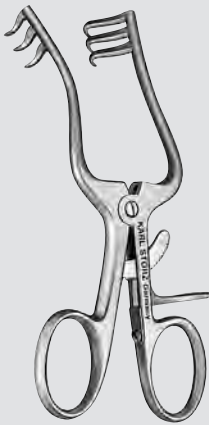
214811



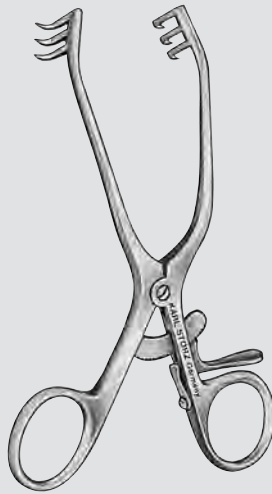
214813 –
214820



215001



219511
219513



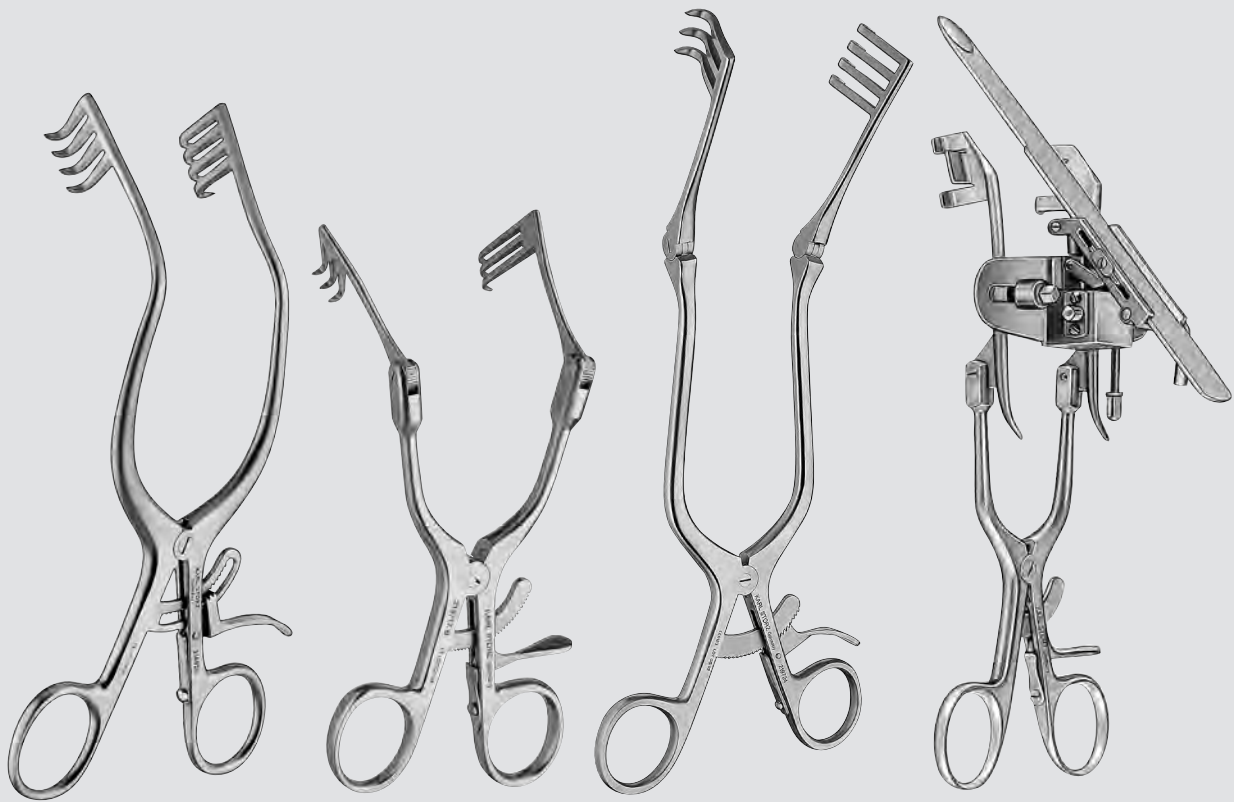
219613



219714 K

- 214811 WEITLANER **Retractor**, 2 x 3 prongs, blunt, length 11 cm
- 214813 WEITLANER **Retractor**, 3 x 4 prongs, sharp, length 13 cm
- 214816 **Same**, length 16 cm
- 214820 **Same**, length 20 cm
- 215001 JANSEN **Retractor**, 3 x 3 prongs, blunt, length 10 cm

- 219511 WULLSTEIN **Retractor**, 3 x 3 prongs, length 11 cm
- 219513 **Same**, length 13 cm
- 219613 BELLUCCI **Retractor**, 3 x 3 prongs, length 13 cm
- 219714 K DALCHOW **Retractor**, small model for children, 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm



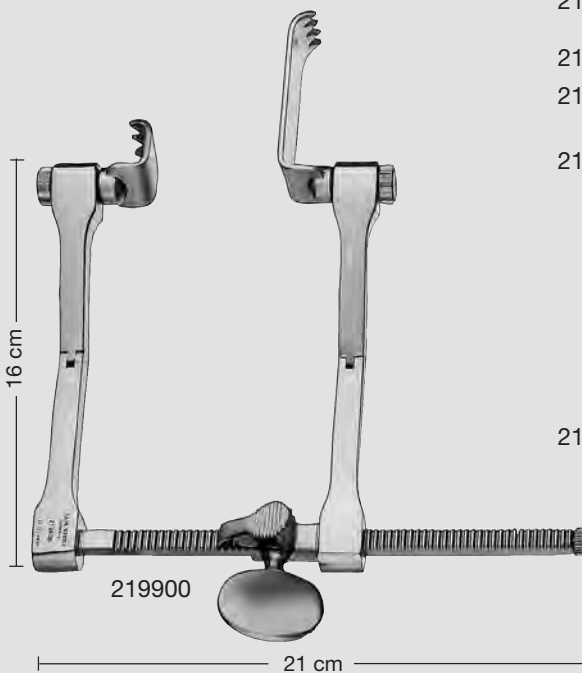
214920

219717
219717 B

219724

219800

- 214920 **ANDERSON-ADSON Retractor**,
4 x 4 prongs, sharp, curved,
length 20 cm
- 219717 **FISCH Retractor**, articulated,
3 x 3 prongs, semisharp, length 17 cm
- 219717 B **Same**, sharp
- 219724 **Retractor**, articulated, 3 x 4 prongs,
sharp, length 24 cm
- 219800 **FISCH Dura Retractor**, length 18 cm
including:



219900

- 219900 **FISCH Glomus Retractor** (infratemporal
fossa retractor), size 21 x 16 cm
including:
- Retractor Blade**, short
- Retractor Blade**, long
- Retractor Blade**, long and slim, with drill hole
- Retractor Frame**, without blades

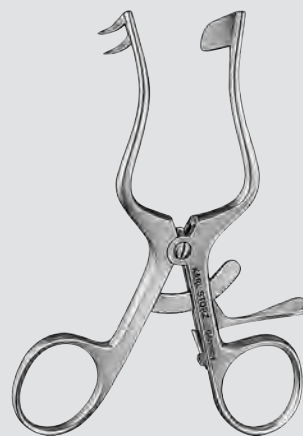
Components/Spare Parts see chapter 16



220211 – 220213 N



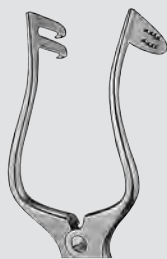
220411



220511



220421
220421 K



220521
220521 K



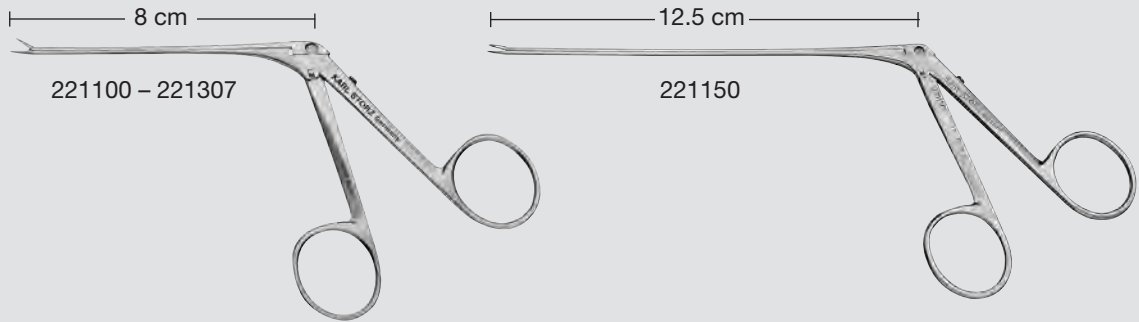
220700



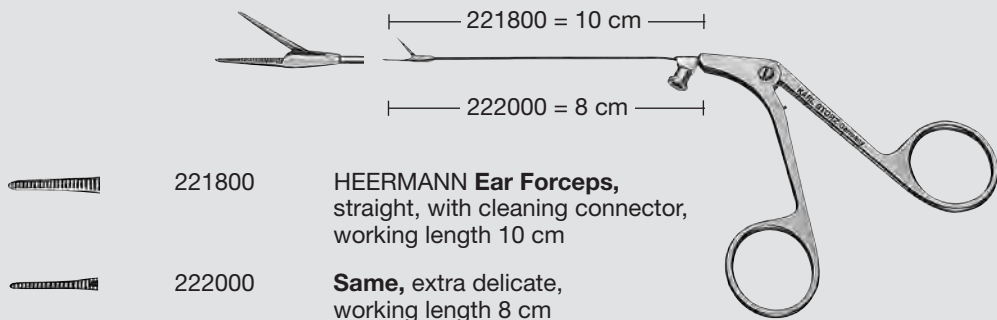
220703

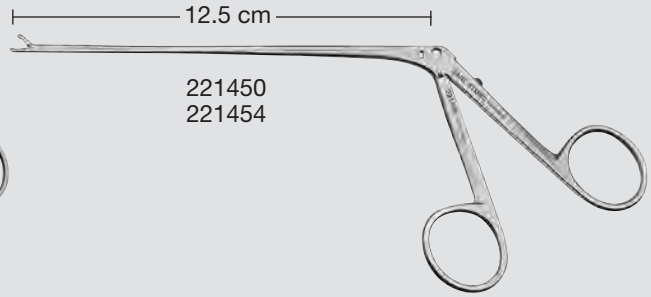
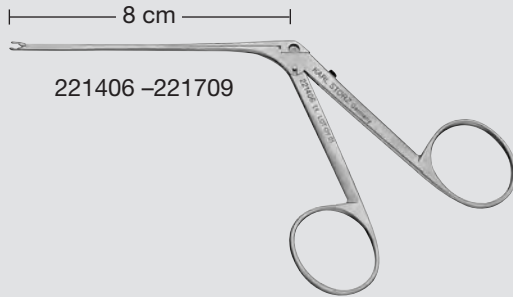
- 220211 PLESTER **Retractor**, 2 x 2 prongs, length 11 cm
- 220211 K DALCHOW **Retractor**, small model for children, 2 x 2 prongs, length 11 cm
- 220213 FISCH **Retractor**, 2 x 2 prongs, length 13 cm
- 220213 N **Same**, with black coating
- 220411 PLESTER **Retractor**, 2 prongs on right, left full blade, length 11 cm
- 220421 PLESTER-HELMS **Retractor**, 2 prongs on right, full blade on left, with atraumatic teeth, length 11 cm
- 220421 K DALCHOW **Retractor**, small model for children, 2 prongs on right, left full blade with atraumatic teeth, length 11 cm
- 220511 PLESTER **Retractor**, 2 prongs on left, full blade on right, length 11 cm
- 220521 PLESTER-HELMS **Retractor**, 2 prongs on left, full blade on right, with atraumatic teeth, length 11 cm
- 220521 K DALCHOW **Retractor**, small model for children, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm
- 220700 WILLIGER **Retractor**, 4 prongs, sharp, length 13 cm
- 220703 WILLIGER **Retractor**, 3 prongs, sharp, length 13 cm

12-905



- | | | |
|--|-----------|---|
| | 221100 | HARTMANN Ear Forceps , extra delicate, serrated, 1 x 4.5 mm, working length 8 cm |
| | 221150 | Same , working length 12.5 cm |
| | 221105 | FISCH-HARTMANN Ear Forceps , delicate, serrated, 1.2 x 8 mm, working length 8 cm |
| | 221107 | Same , 1.2 x 12 mm |
| | 221110 | FISCH-HARTMANN Ear Forceps , extra delicate, smooth, 1 x 4.5 mm, working length 8 cm |
| | 221111 | FISCH Ear Forceps , extra delicate, smooth, 0.4 x 3.5 mm, working length 8 cm |
| | 221111 FN | FISCH Ear Forceps , very fine, smooth, with black coating, 0.4 x 3.5 mm, working length 8 cm |
| | 221112 | Ear Forceps , straight, with spring, smooth, 4 mm, working length 8 cm |
| | 221200 | FISCH Ear Forceps , extra delicate, pointed, serrated, 1 x 4.5 mm, working length 8 cm |
| | 221201 | FISCH Ear Forceps , extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm |
| | 221304 | Ear Forceps , extra delicate, serrated, curved to right, working length 8 cm |
| | 221305 | Same , curved to left |
| | 221307 | Same , curved upwards |





221406 **WULLSTEIN Ear Forceps**, extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm



221406 F **FISCH Ear Forceps**, extra delicate, oval cupped jaws, 0.6 mm, with thin sheath, working length 8 cm



221406 FN **Same**, with black coating



221409 **WULLSTEIN Ear Forceps**, extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm



221450 **WULLSTEIN Ear Forceps**, very fine, round cupped jaws, diameter 1 mm, working length 12.5 cm



221454 **FISCH Ear Forceps**, round cupped jaws, diameter 3 mm, working length 12.5 cm



221509 **WULLSTEIN Ear Forceps**, extra delicate, oval cupped jaws, curved to right, oval, 0.9 mm, working length 8 cm



221609 **Same**, curved to left



221709 **Same**, curved upwards



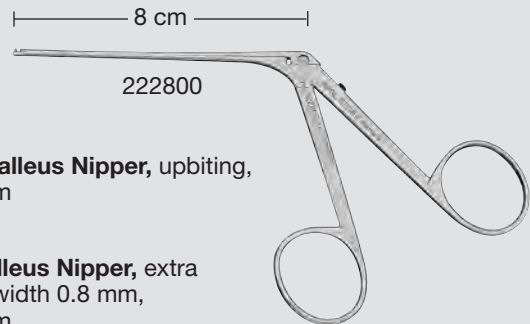
222800 **HOUSE-DIETER Malleus Nipper**, upbiting, working length 8 cm



222900 **Same**, downbiting

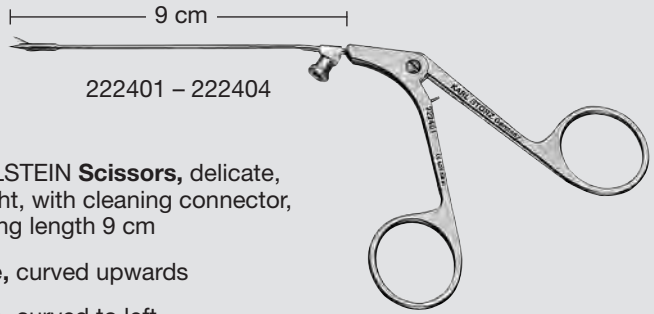


222801 **FISCH-DIETER Malleus Nipper**, extra delicate, upbiting, width 0.8 mm, working length 8 cm



223000 **Instrument Guard**, teflon, autoclavable, for micro forceps and micro scissors with working length 8 cm, length 11.5 cm





222401

WULLSTEIN Scissors, delicate, straight, with cleaning connector, working length 9 cm



222402

Same, curved upwards



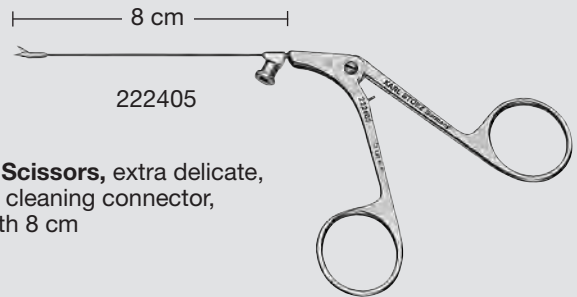
222403

Same, curved to left



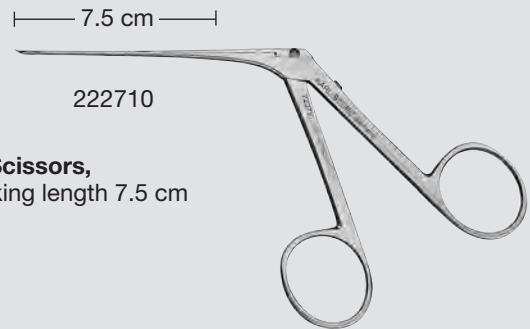
222404

Same, curved to right



222405

WULLSTEIN Scissors, extra delicate, straight, with cleaning connector, working length 8 cm



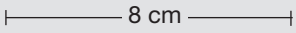







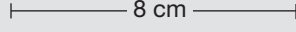


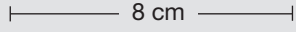




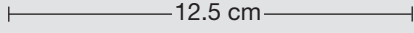


222710

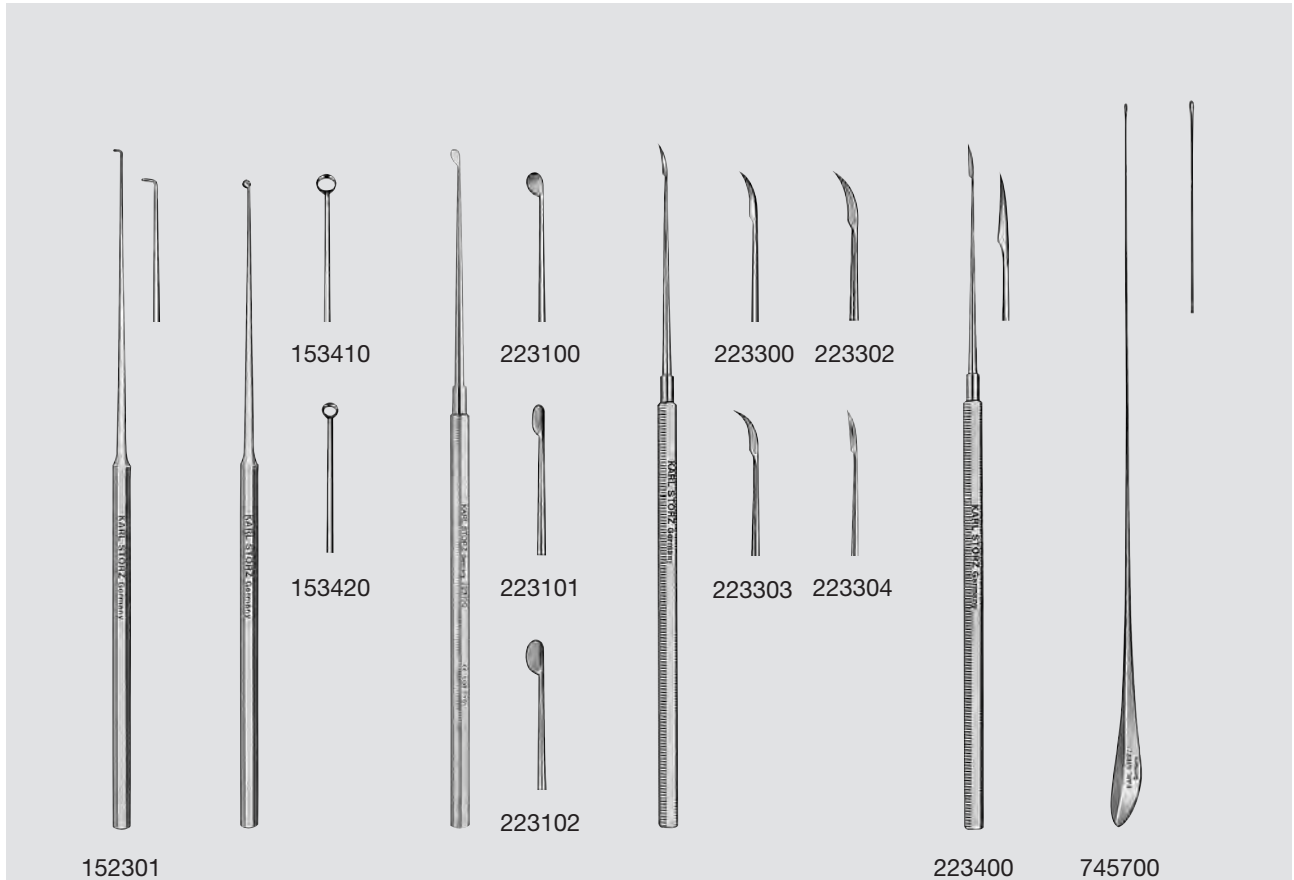
FISCH Crurotomy Scissors, curved to right, working length 7.5 cm



222720

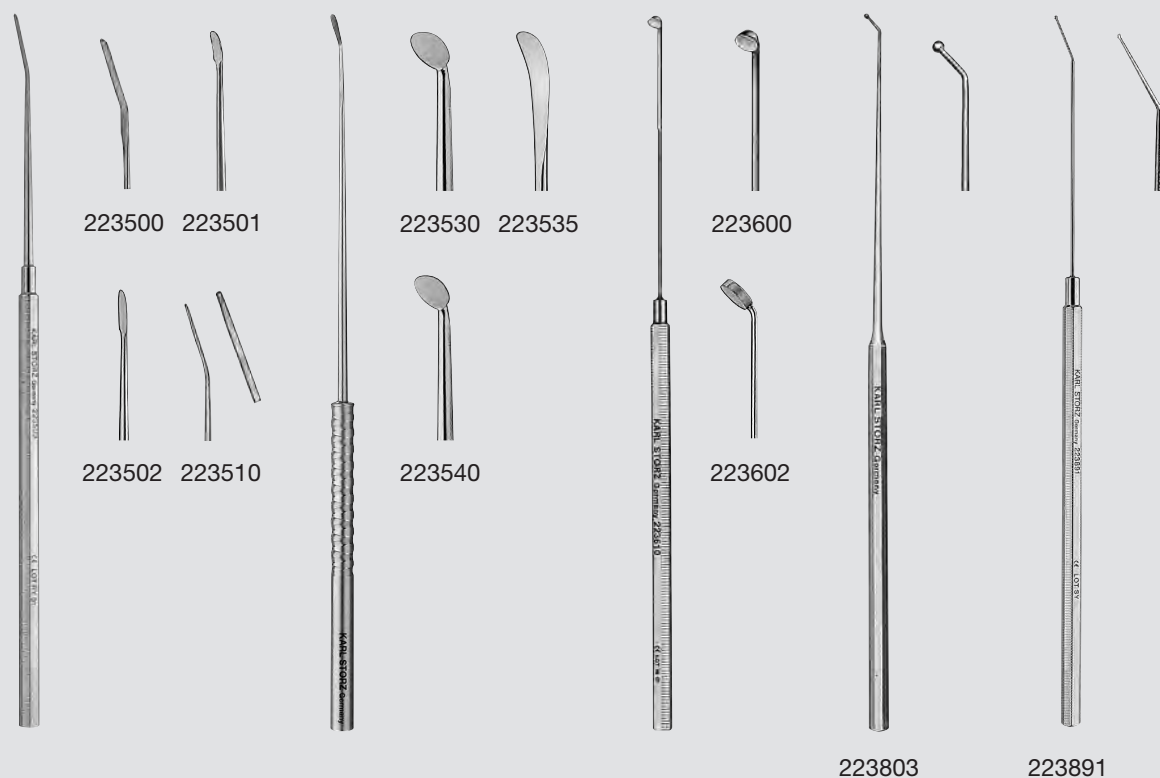
Same, curved to left

			 <p>8 cm</p> <p>222500 – 222605 L</p>	
	222500	BELLUCCI Scissors , blade length 8 mm, working length 8 cm		
	222600	Same , delicate standard model		
	222601	FISCH-BELLUCCI Micro Ear Scissors , beaked scissors blades, blade length 7 mm, working length 8 cm		
	222602	HOUSE-BELLUCCI Scissors , extra delicate, working length 8 cm		
	222604 R	BELLUCCI Scissors , delicate, curved to right, working length 8 cm		
	222605 L	Same , curved to left		
			 <p>8 cm</p> <p>222501</p>	
	222501	FISCH-BELLUCCI Scissors , extra fine blade, blade length 7 mm, working length 8 cm		
				 <p>8 cm</p> <p>222603</p>
	222603	FISCH-BELLUCCI Micro Scissors , extra delicate scissor blades, blade length 3 mm, working length 8 cm		
	222606	Same , with thin shaft		
	222606 N	FISCH-BELLUCCI Micro Ear Scissors , extra delicate scissor blades, blade length 2 mm, with black coating, with thin shaft, working length 8 cm		
			 <p>12.5 cm</p> <p>222650</p>	
	222650	BELLUCCI Scissors , delicate, straight, working length 12.5 cm		

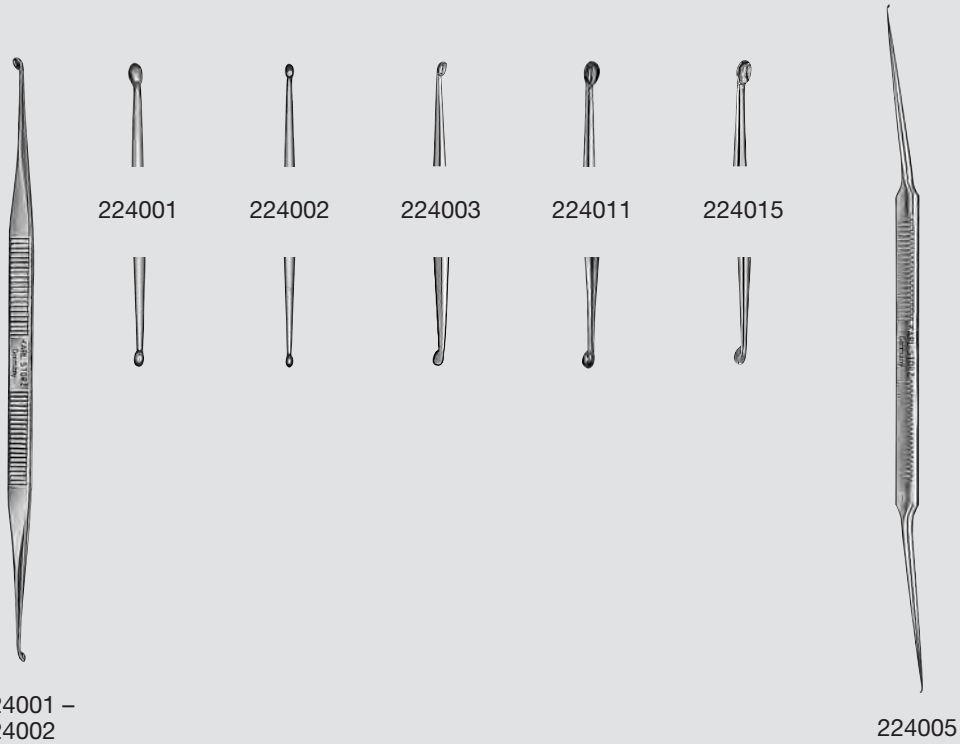


- 152301 **Ear Hook**, without ball end, size 1, length 15.5 cm
- 153410 **BUCK Ear Curette**, sharp, size 0, length 14.5 cm
- 153420 **Same**, size 00
- 223100 **PLESTER Knife**, round, vertical, standard size 3.5 x 2.5 mm, length 16 cm
- 223101 **Same**, medium 4 x 2 mm
- 223102 **Same**, large 4.5 x 2.5 mm
- 223300 **PLESTER Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- 223302 **Same**, medium curved
- 223303 **Same**, strongly curved
- 223304 **Same**, extra delicate, slightly curved
- 223400 **KLEY Knife**, footplate, length 16 cm
- 745700 **SEIFFERT Probe, for salivary duct**, silver, extra delicate, diameter 0.5 mm, length 18 cm

3-994



- 223500 ROSEN **Elevator**, tip angled 15°, 12 mm long, width 1.5 mm, length 16 cm
- 223501 BEALES **Elevator**, curved, width 1.5 mm, length 16 cm
- 223502 HUGHES **Elevator**, curved, width 1.1 mm, length 16 cm
- 223510 HOUSE **Elevator**, tip angled 15°, 12 mm long, width 1 mm, length 16 cm
- 223530 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm
- 223535 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, slightly curved spatula, straight, with round handle, size 3 mm, length 17 cm
- 223540 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, round spatula, tip angled 45°, with round handle, size 3 mm, length 17 cm
- 223600 **Tympanic Mirror**, REGENSBURG model, stainless steel, diameter 3 mm, length 16 cm
- 223602 **Micro Mirror**, metal, stainless steel, diameter 5 mm, length 16 cm
- 223803 **Seeker**, with ball end, angled 45°, size 3, length 15.5 cm
- 223891 **Seeker**, extra delicate, angled 25°, with ball end diameter 1 mm, length 16 cm



- 224001 HOUSE **Curette**, large, spoon sizes 2 x 3.2 mm and 1.6 x 2.6 mm, length 15 cm
- 224002 **Same**, small, spoon sizes 1 x 1.6 mm and 1.3 x 2 mm
- 224003 HOUSE **Curette**, medium, spoon sizes 1 x 1.8 mm and 2 x 2.8 mm, length 15 cm
- 224005 HOUSE **Curette**, angular, extra small, spoon sizes 0.6 x 0.8 mm and 0.8 x 1 mm, length 17 cm
- 224011 HOUSE **Curette**, straight, extra large, spoon sizes 2.3 x 3.5 mm and 2.7 x 4.3 mm, length 15 cm
- 224015 HOUSE-BABIGHIAN **Curette**, toothed, extra large, spoon sizes 2.4 x 3.4 mm and 2.6 x 4 mm, length 16 cm

Ear



- 224301 **WULLSTEIN Needle**, strong long curve, length 16.5 cm
- 224302 **Same**, medium curve
- 224303 **Same**, slight curve
- 224304 **Same**, straight

- 224400 **PLESTER Guiding Fork**, length 15.5 cm

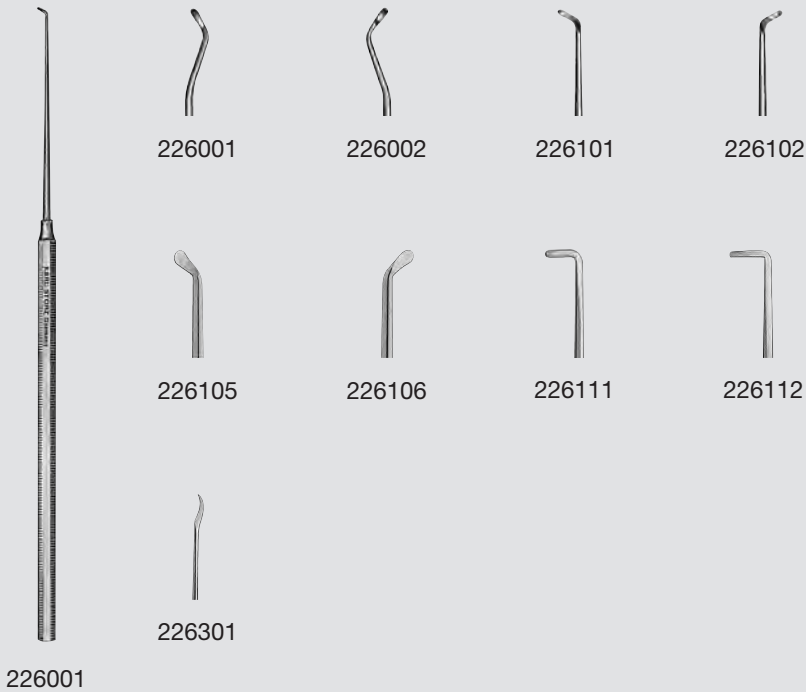
- 224600 **PLESTER Hook**, retrospective, 2 mm, length 15.5 cm

- 224802 **Footplate Hook**, 0.2 mm, length 16 cm
- 224806 **PLESTER Footplate Hook**, 0.6 mm, length 16 cm
- 224812 **FISCH Footplate Hook**, tip angled upwards 90°, 0.2 mm, length 16 cm
- 224813 **Same**, tip angled downwards

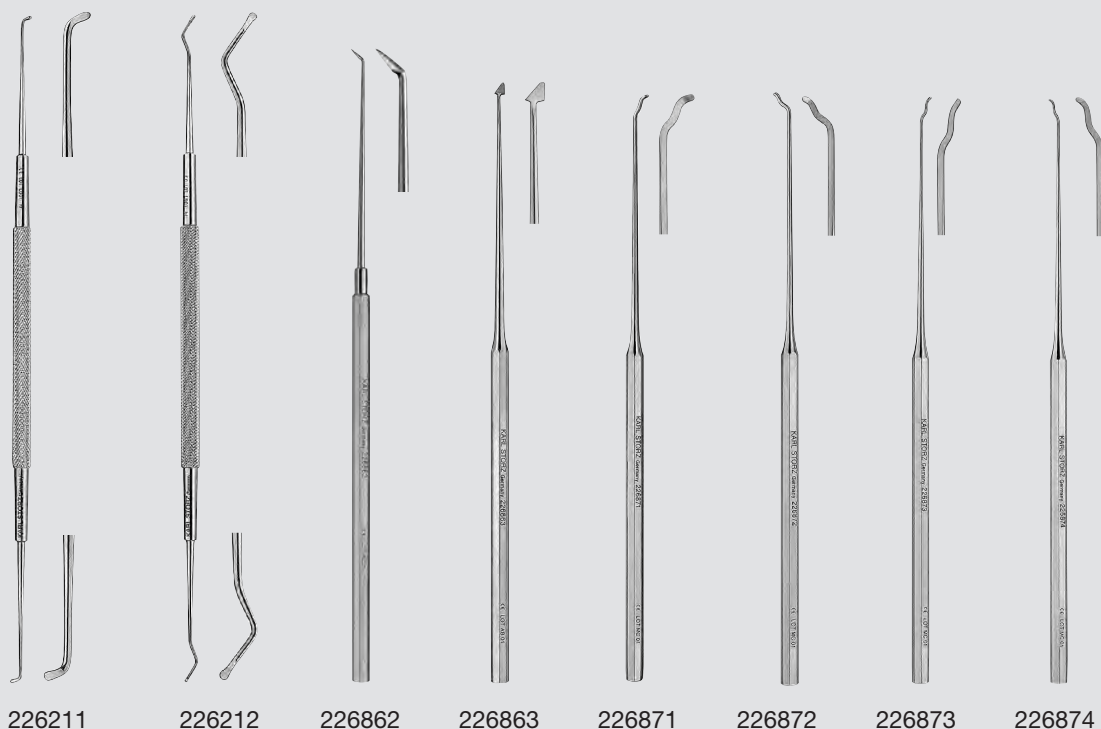
- 225008 **HEERMANN Hook**, reinforced, retrospective, 0.8 mm, length 16 cm



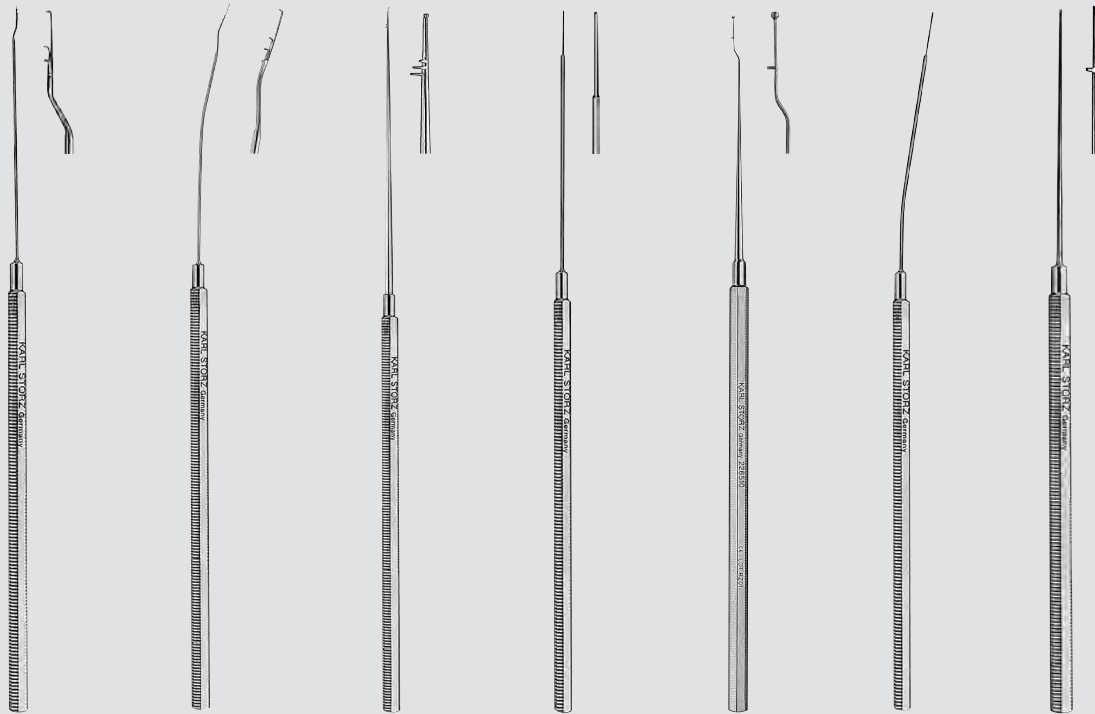
- | | |
|--|--|
| <ul style="list-style-type: none"> 225204 – 225250
 Pick, 90°, length 16 cm 225204 0.4 mm 225205 0.5 mm 225206 0.6 mm 225208 0.8 mm 225210 1.0 mm 225212 1.2 mm 225215 1.5 mm 225220 2.0 mm 225225 2.5 mm 225230 3.0 mm 225240 4.0 mm 225250 5.0 mm | <ul style="list-style-type: none"> 225405 – 225425
 Pick, 45°, length 16 cm 225405 0.5 mm 225406 0.6 mm 225408 0.8 mm 225410 1.0 mm 225415 1.5 mm 225420 2.0 mm 225425 2.5 mm |
|--|--|



- 226001 FISCH **Micro Raspatory**, double curved to right, length 16 cm
- 226002 **Same**, left
- 226101 FISCH **Micro Raspatory**, single curved to right, length 16 cm
- 226102 **Same**, left
- 226105 DALCHOW **Micro Raspatory**, single curved to right, width 1.5 mm, length 16 cm
- 226106 **Same**, left
- 226111 CRABTREE **Dissector Pick**, length 16 cm, 90°, flat, width 0.5 mm, length 1.5 mm
- 226112 **Same**, length 2.5 mm
- 226301 FISCH **Tenotome**, sickle-shaped, extra delicate, length 16 cm



- 226211 THOMASSIN **Dissector**, double-ended, distal tips with single curve to right or to left, length 18 cm
- 226212 THOMASSIN **Dissector**, double-ended, distal tips with double curve to right or to left, length 18 cm
- 226862 HOUSE **Lancet Knife**, triangular, rounded tip angled upwards 45°, size 2 x 3 mm, length 16 cm
- 226863 ROSEN **Lancet Knife**, triangular, rounded tip angled upwards 45°, size 3 x 3 mm, length 15.5 cm
- 226871 WHIRLY-BIRD **Knife**, sharp, strong right curved, size 1 x 5 mm, length 15 cm
- 226872 **Same**, strong left curved
- 226873 WHIRLY-BIRD **Knife**, sharp, slight right curved, size 0.75 x 5 mm, length 15 cm
- 226874 **Same**, slight left curved



226500 226501 226502 226504 – 226506 226510 226514 226516 226540 – 226550

- 226500 **FISCH Measuring Rod**, marker pins at 3, 4 and 5 mm, length 16 cm
- 226501 **FISCH Measuring Rod**, curved, marker pins at 3, 4 and 5 mm, length 16 cm
- 226502 **Measuring Rod**, for stapes prosthesis, straight, marker pins at 3.5, 4 and 4.5 mm, length 17 cm
- 226504 **FISCH Caliper**, diameter 0.4 mm, marker pin at 10 mm, length 16 cm
- 226506 **Same**, diameter 0.6 mm
- 226510 **PLESTER Depth Gauge**, with ball tip, marker pin at 5 mm, length 16 cm
- 226514 **FISCH Caliper**, angled shaft, diameter 0.4 mm, marker pin at 10 mm, length 16 cm
- 226516 **Same**, diameter 0.6 mm
- 226540 **HOUSE Caliper Strut**, for 4 mm distance, marker pin at 4 mm, length 16 cm
- 226545 **Same**, for 4.5 mm distance, marker pin at 4.5 mm
- 226550 **Same**, for 5 mm distance, marker pin at 5 mm



225150 **Protection Tube**, metal, for straight ear micro instruments with octagonal handle, length 6 cm



226600 –
226608



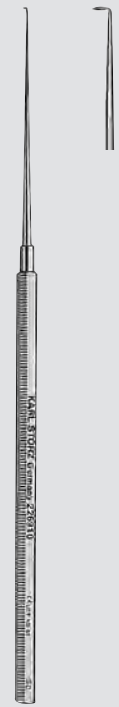
226710 –
226730



226753 –
226761



226810 –
226835



226910 –
226925

- 226600 **FISCH Manual Perforator**, diameter 0.3 mm, length 16 cm
- 226604 **Same**, diameter 0.4 mm
- 226605 **Same**, diameter 0.5 mm
- 226606 **Same**, diameter 0.6 mm
- 226607 **Perforator**, diameter 0.7 mm, length 16 cm
- 226608 **Same**, diameter 0.8 mm
- 226710 **Round Knife 0°**, straight, diameter 1 mm, length 16 cm
- 226715 **Same**, diameter 1.5 mm
- 226720 **Same**, diameter 2 mm
- 226723 **Same**, diameter 2.3 mm
- 226725 **Same**, diameter 2.5 mm
- 226730 **Same**, diameter 3 mm
- 226753 **Round Knife 25°**, diameter 1 mm, length 16 cm
- 226755 **Same**, diameter 1.5 mm
- 226757 **Same**, diameter 2 mm
- 226759 **Same**, diameter 2.5 mm
- 226761 **Same**, diameter 3 mm

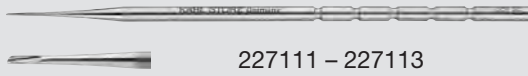
- 226810 **Round Knife 45°**, diameter 1 mm, length 16 cm
- 226815 **Same**, diameter 1.5 mm
- 226820 **Same**, diameter 2 mm
- 226823 **Same**, diameter 2.3 mm
- 226825 **Same**, diameter 2.5 mm
- 226830 **Same**, diameter 3 mm
- 226835 **Same**, diameter 3.5 mm
- 226910 **Round Knife 90°**, diameter 1 mm, length 16 cm
- 226915 **Same**, diameter 1.5 mm
- 226920 **Same**, diameter 2 mm
- 226923 **Same**, diameter 2.3 mm
- 226925 **Same**, diameter 2.5 mm



227100



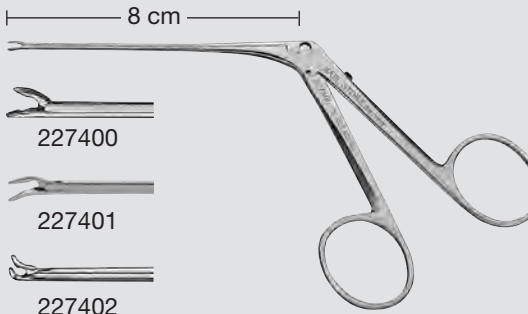
227011 – 227014



227111 – 227113



227015



227400

227401

227402

227403

- 227100 HEERMANN **Mallet**, for 227011 – 227014 and 227111 – 227113, length 22 cm
- 227015 HEERMANN **Handle**, for use with instruments 227011 – 227014 and 227111 – 227113
- 227011 **Micro Gouge**, width 0.6 mm, for use with Handle 227015
- 227012 **Same**, width 1.5 mm
- 227013 **Same**, width 3 mm
- 227014 **Same**, width 3.5 mm
- 227111 SCHIMANSKI **Micro-Gouge**, width 0.6 mm, for use with Handle 227015
- 227112 **Same**, width 1.5 mm
- 227113 **Same**, width 3 mm
- 227400 McGEE **Wire Crimper**, straight, working length 8 cm
- 227401 FISCH-McGEE **Wire Crimper**, straight, working length 8 cm
- 227402 **Same**, curved to right
- 227403 **Same**, curved to left



227600



227800



227900



227920

- 227600 GUILFORD-WRIGHT **Wire Cutter**, serrated, length 10 cm
- 227800 SCHUKNECHT **Wire Bending Die**
- 227900 SHEA **Vein Press**, diameter 16 mm, length 13 cm
- 227920 **Vein Press**, LÜBECK model, diameter 38 mm



231000



231008



231009



231010



231011

- 231000 **Hone**, “ARKANSAS” oil stone, wedge-shaped, 10 x 4 cm

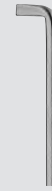
- 231008 **Preparation Plate**, glass, 10 x 8 cm
- 231009 **FISCH Glass Cutting Board**, with square millimeter gradations (25 x 20 mm), 10 x 8 cm

- 231010 **Cutting Block**, plastic, white, 8 x 4 x 1 cm
- 231011 **Cutting Block**, Teflon, with grip plate, 20 x 15 x 1 cm

MAGNAN Ear Micro Instruments



223994



223980



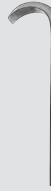
223990



223982



223992

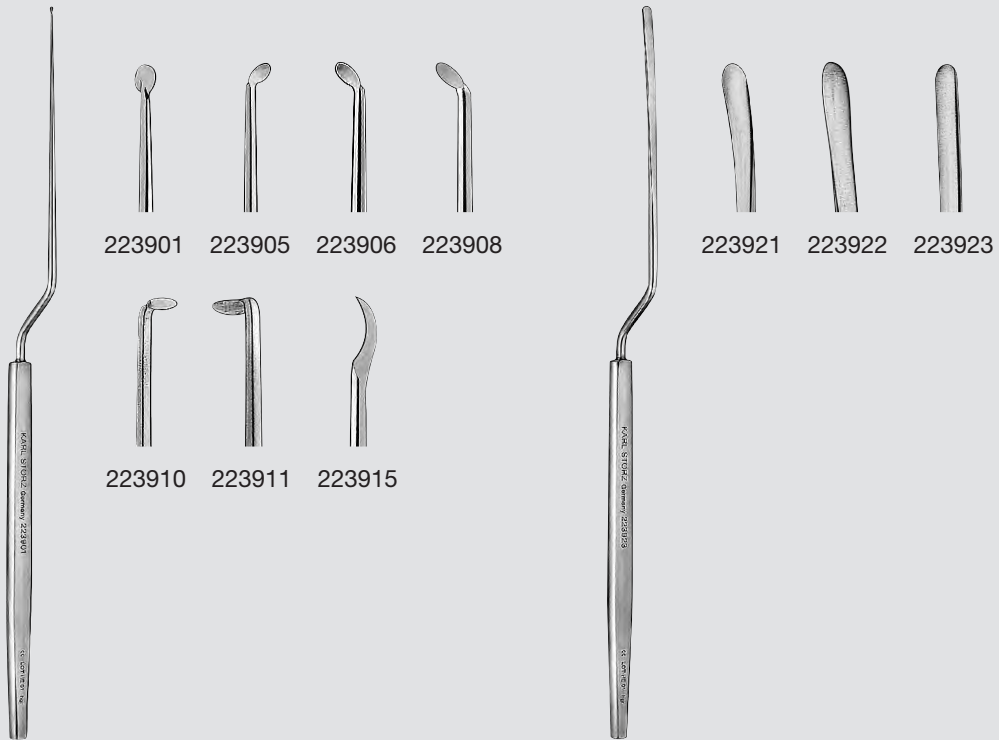


223984



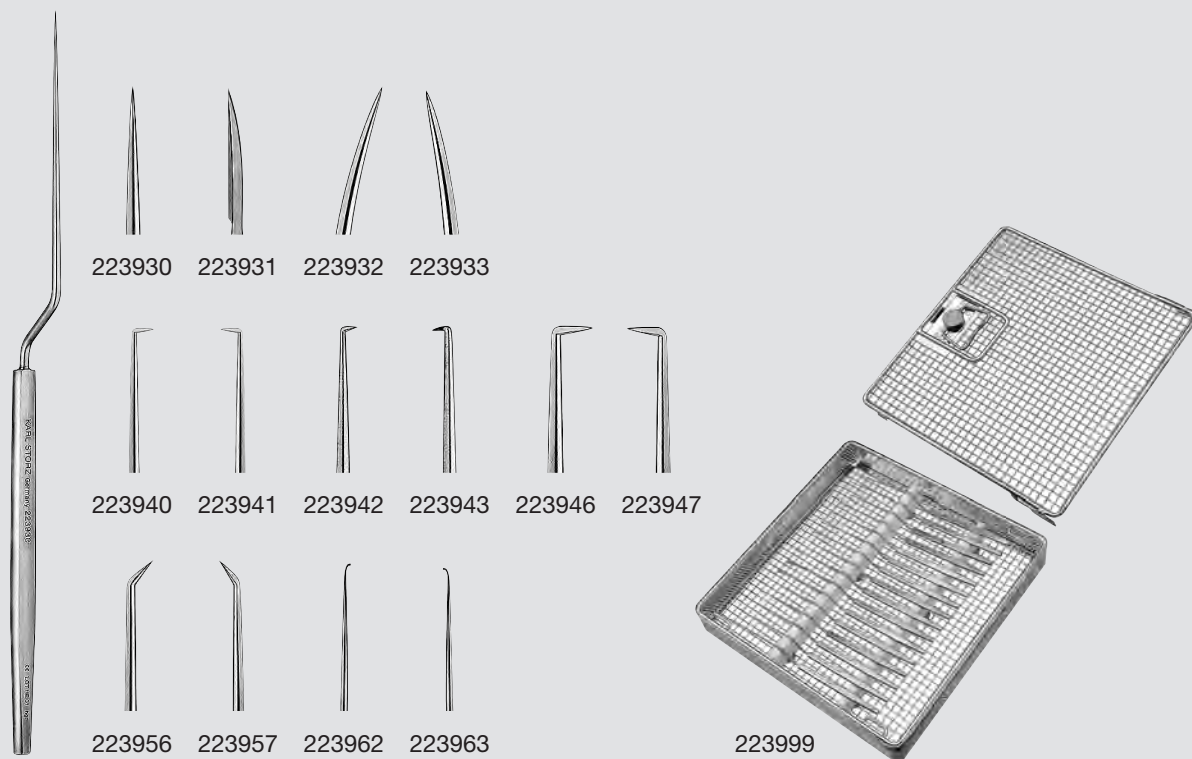
223994

- 223980 MAGNAN **Raspatory**, bayonet-shaped, angled downwards 90°, width 1.2 mm, length 20 cm
- 223990 **Same**, angled upwards 90°
- 223982 MAGNAN **Raspatory**, bayonet-shaped, S-shaped tip angled downwards, width 2 mm, length 20 cm
- 223992 **Same**, S-shaped tip angled upwards
- 223984 MAGNAN **Raspatory**, bayonet-shaped, round tip angled downwards, width 2 mm, length 20 cm
- 223994 **Same**, round tip curved upwards



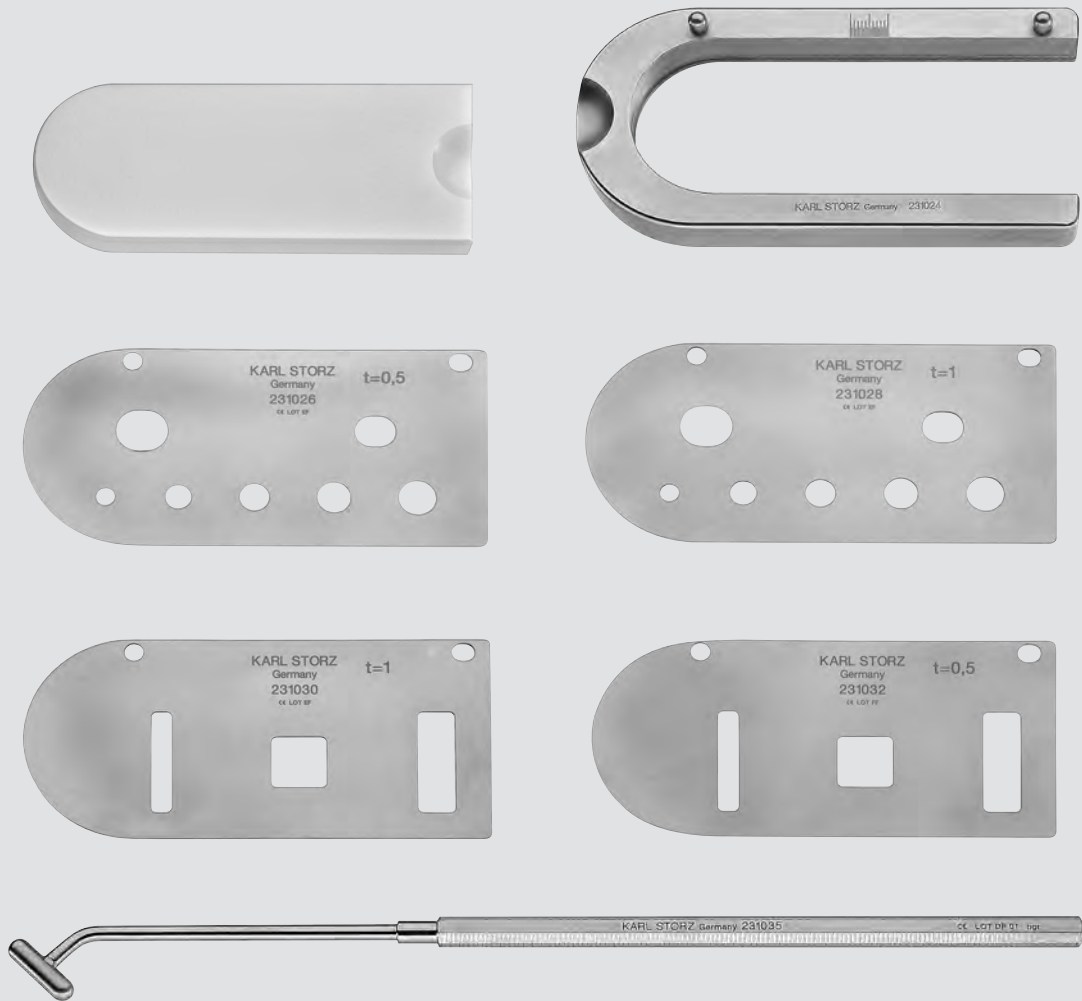
- 223901 **Round Knife 0°**, bayonet-shaped, straight, diameter 1.5 mm, length 18 cm
- 223905 **Round Knife 45°**, bayonet-shaped, curved upwards, diameter 1.5 mm, length 18 cm
- 223906 **Same**, curved downwards
- 223908 **Round Knife 45°**, bayonet-shaped, curved downwards, diameter 2.3 mm, length 18 cm
- 223910 **Round Knife 90°**, bayonet-shaped, curved upwards, diameter 1.5 mm, length 18 cm
- 223911 **Same**, curved downwards
- 223915 **Tenotome**, bayonet-shaped, sickle knife curved downwards, extra fine, length 18 cm
- 223921 **Elevator**, bayonet-shaped, curved downwards, sharp, width 4 mm, length 18 cm
- 223922 **Same**, width 2 mm
- 223923 **Elevator**, bayonet-shaped, slightly curved downwards, blunt, width 3 mm, length 18 cm

Ear



- 223930 **Needle**, bayonet-shaped, straight, length 18 cm
- 223931 **Knife**, footplate, bayonet-shaped, length 18 cm
- 223932 **Needle**, bayonet-shaped, curved upwards, strong long curve, length 18 cm
- 223933 **Same**, curved downwards
- 223940 **Pick 90°**, bayonet-shaped, curved upwards, 0.5 mm, length 18.5 cm
- 223941 **Same**, curved downwards
- 223942 **Pick, 90°**, bayonet-shaped, curved upwards, 1 mm, length 18 cm
- 223943 **Same**, curved downwards
- 223946 **Pick, 90°**, bayonet-shaped, curved upwards, 2 mm, length 18 cm
- 223947 **Same**, curved downwards
- 223956 **Pick, 45°**, bayonet-shaped, curved upwards, 2 mm, length 18 cm
- 223957 **Same**, curved downwards
- 223962 **Hook**, footplate, bayonet-shaped, curved upwards, 0,2 mm, length 18 cm
- 223963 **Same**, curved downwards
- 223999 **Metal Tray**, for sterilizing and storage of ear instruments, perforated, bottom part with holder for 16 bayonet-shaped ear micro-instruments, lid with silicone bridges, external dimensions (w x h x d): 250 x 240 x 40 mm

Please note: The instruments displayed are not included in the metal tray.



231020

MILEWSKI **Cartilage Cutting Block**, with 4 exchangeable templates including:

Cutting Block, plastic, white, **autoclavable**, size 120 x 45 x 15 mm

Frame, metal, U-shaped, with 2 pins to hold the templates

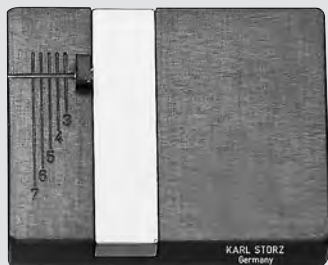
Template for Ear Cartilage, with 5 round holes 5, 7, 8, 9 and 10 mm diameter and 2 oval holes 9 x 11 mm and 12 x 14 mm, thickness 0.5 mm

Same, thickness 1 mm

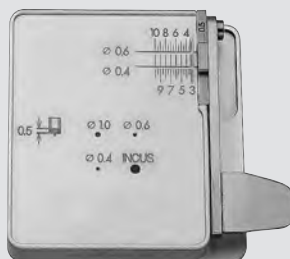
Template for Nasal Cartilage, with 3 rectangular holes 5.5 x 30 mm, 15 x 15 mm and 10 x 30 mm, thickness 1 mm

Same, thickness 0.5 mm

Stamp, cylindrical, with handle, to press the cartilage on the cutting block



227504
227506



227525



227526



227528



227527



227530

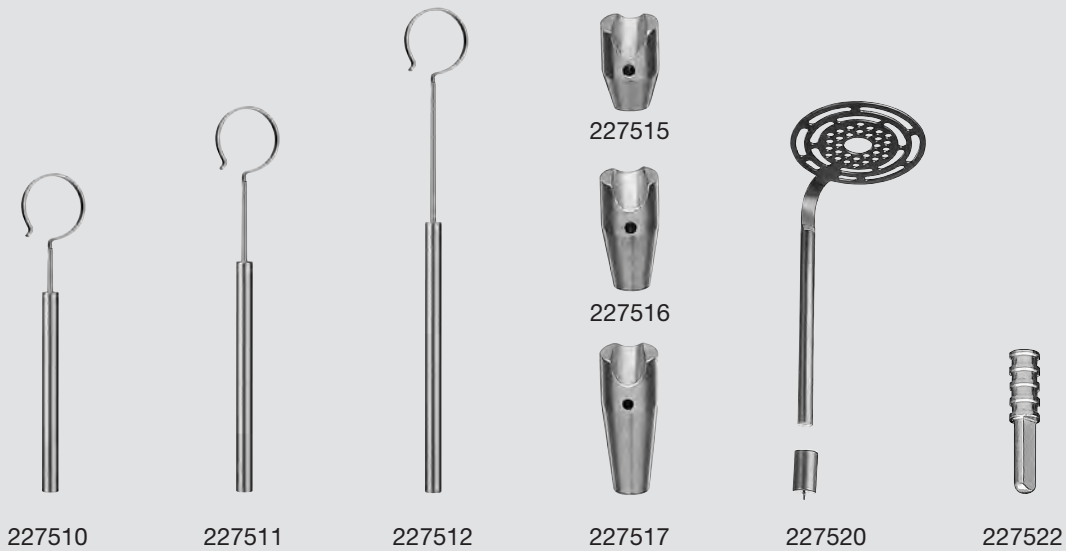


227532

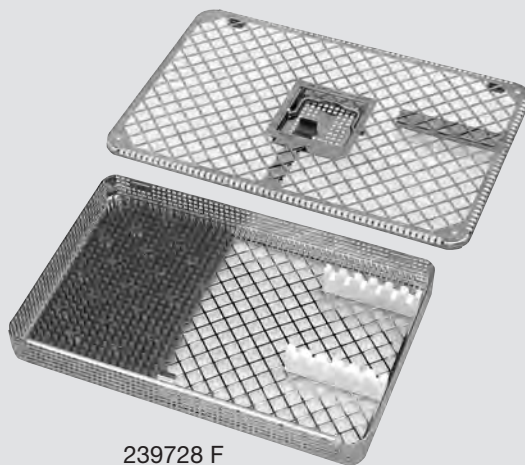


227534

- 227504 FISCH **Cutting Block**, for cutting and preparing stapes prostheses of diameter 0.4 mm
- 227506 **Same**, for prostheses of diameter 0.6 mm
- 227525 FISCH **Cutting Block**
- 227526 **Holding Forceps**, for holding FISCH stapes and total prostheses, length 13.5 cm
- 227527 **Crimp Forceps**, for FISCH total prostheses, length 10.5 cm
- 227528 **Scissors**, for FISCH total prostheses, length 11 cm
- 227530 **Incus Holding Clamp**, length 11 cm
- 227532 FISCH **Micro Hook**, 2.5 mm, 45°, length 16 cm, for insertion and placement of FISCH incus prosthesis
- 227534 **Diamond Straight Shaft Burr**, diameter 1.4 mm, length 7 cm

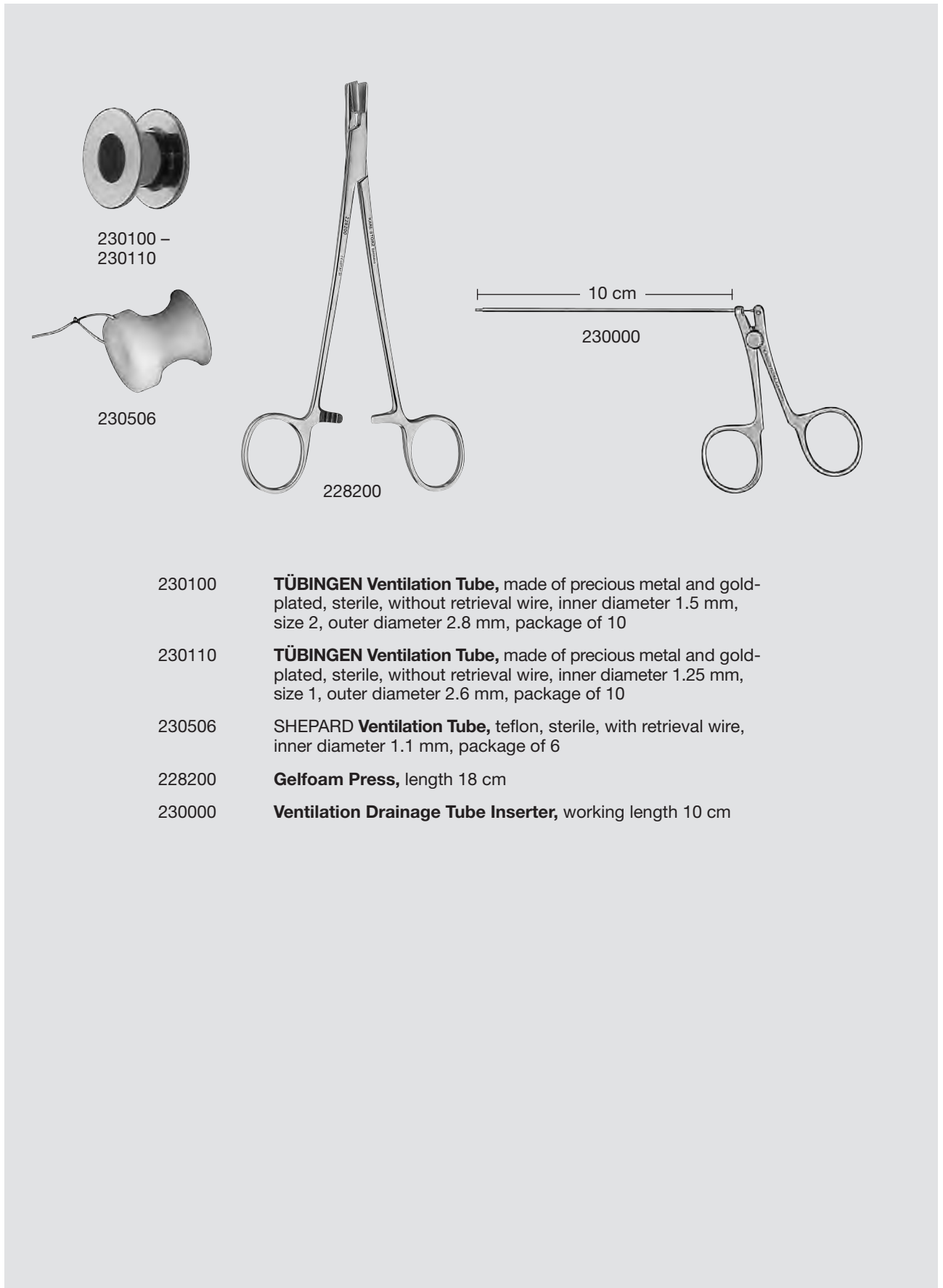


- 227510 FISCH **Titanium Stapes Piston**, short size, sterile, short distance between loop and cylinder, 7 mm x diameter 0.4 mm
- 227511 FISCH **Titanium Stapes Piston**, normal size, sterile, medium distance between loop and cylinder, 8.5 mm x diameter 0.4 mm
- 227512 FISCH **Titanium Stapes Piston**, long size, sterile, long distance between loop and cylinder, 10 mm x diameter 0.4 mm
- 227515 FISCH **Titanium Incus Prosthesis**, normal size, sterile, 3 mm x diameter 2 / 1.3 mm
- 227516 FISCH **Titanium Incus Prosthesis**, long size, sterile, 4 mm x diameter 2 / 1.3 mm
- 227517 FISCH **Titanium Incus Prosthesis**, extra long size, sterile, 5 mm x diameter 2 / 1.3 mm
- 227520 FISCH **Titanium Total Prosthesis with foot**, sterile, 10 mm x diameter 0.6 mm
- 227522 FISCH **Titanium Neomalleus Prosthesis**, sterile, 5 mm x diameter 1.1 mm



- 239728 F **Metal Tray**, for sterilization and storage of instruments, perforated, base with holder and silicone mat, lid with silicone bridges and handle, external dimensions (w x d x h) 275 x 178 x 36 mm including:
 - Base with Lid**, with holders and silicone bridges
 - Silicone Mat**

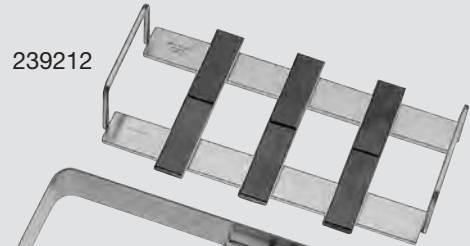
Components/Spare Parts see chapter 16



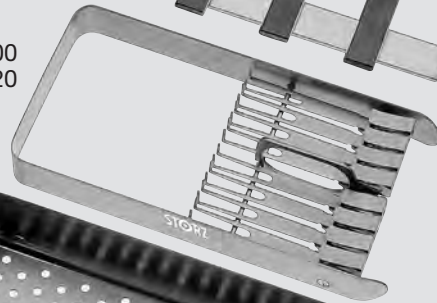
- 230100 **TÜBINGEN Ventilation Tube**, made of precious metal and gold-plated, sterile, without retrieval wire, inner diameter 1.5 mm, size 2, outer diameter 2.8 mm, package of 10
- 230110 **TÜBINGEN Ventilation Tube**, made of precious metal and gold-plated, sterile, without retrieval wire, inner diameter 1.25 mm, size 1, outer diameter 2.6 mm, package of 10
- 230506 **SHEPARD Ventilation Tube**, teflon, sterile, with retrieval wire, inner diameter 1.1 mm, package of 6
- 228200 **Gelfoam Press**, length 18 cm
- 230000 **Ventilation Drainage Tube Inserter**, working length 10 cm



239000
239075



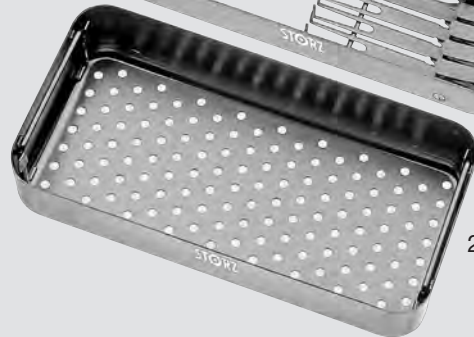
239212



239600
239620



239020



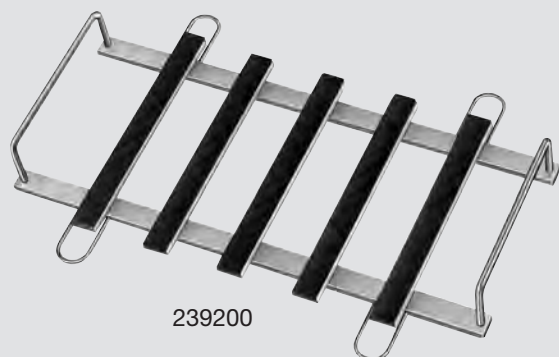
239900

- 239000 **Metal Case**, perforated, with detachable lid, external dimensions (w x d x h): 300 x 200 x 50 mm
- 239075 **Same**, 300 x 200 x 75 mm
- 239020 **Metal Case**, perforated, with detachable lid, external dimensions (w x d x h): 200 x 100 x 40 mm
- 239600 **Instrument Rack**, for 8 instruments, size 195 x 100 mm
- 239620 **Instrument Rack**, for 5 instruments, size 195 x 100 mm, with holder for ear specula, for ventilation tube set, may be used with Metal Case 239020
- 239900 **Instrument Tray**, perforated, size 195 x 100 mm

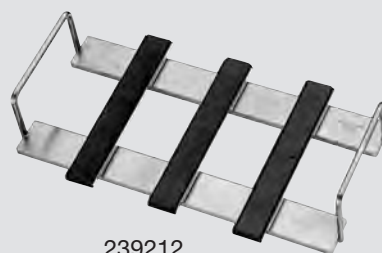
Please note:
Items 239212 – 239900 can be used with Metal Case 239000.

Please note: Metal Cases are not suitable for sterile storage.

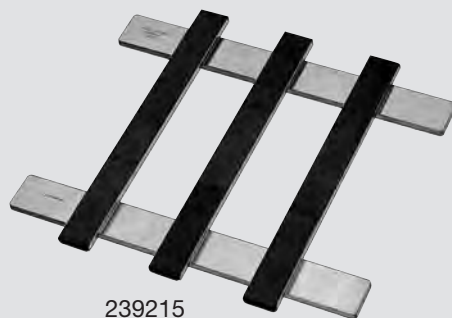
Components/Spare Parts see chapter 16



239200



239212



239215

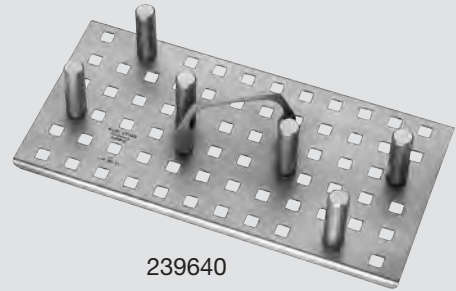
- 239200 **Magnetic Instrument Rack**, with 2 handles and 5 magnetic stripes, size 280 x 190 mm, may be used with Metal Case 239000 or 239075

- 239212 **Magnetic Instrument Rack**, with 2 handles and 3 magnetic stripes, size 180 x 95 mm, may be used with Metal Case 239000 or 239075

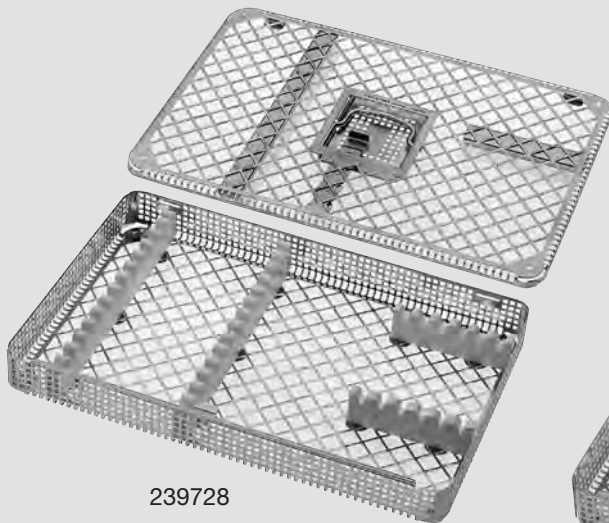
- 239215 **Magnetic Instrument Rack**, without handles, with 3 magnetic stripes, size 170 x 150 mm, may be used with Metal Case 239000 or 239075



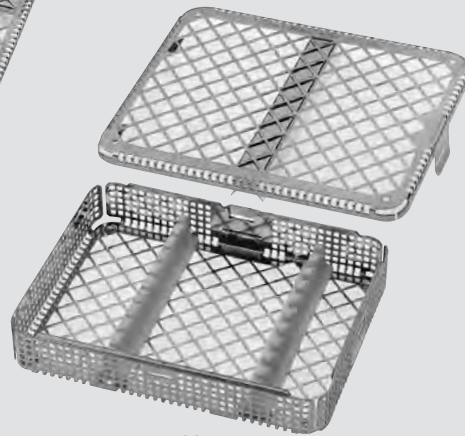
39780 A



239640



239728



239728 H

39780 A **MiniSet Container**, with MicroStop®, for sterilization and sterile storage, external dimensions (w x d x h): 310 x 189 x 65 mm, internal dimensions (w x d x h): 283 x 177 x 40 mm

including:

Base

Lid

Microbiological Barrier, with MicroStop®

39781 A **Same**, external dimensions (w x d x h): 310 x 189 x 80 mm, internal dimensions (w x d x h): 283 x 177 x 60 mm

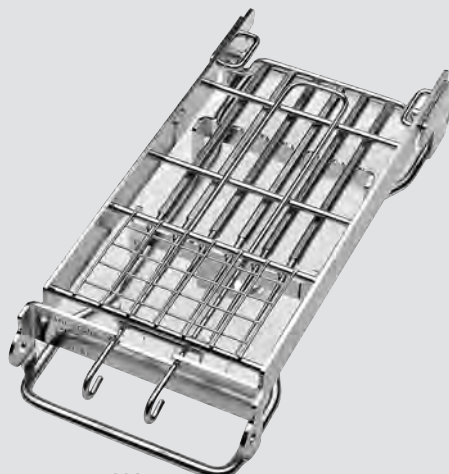
239640 **Rack**, for approx. 8 micro ear forceps with ring handle, size 195 x 100 mm

239728 **Metal Tray**, for sterilization and storage of ear instruments, perforated, base with holder for 20 straight ear micro instruments with octagonal handle, lid with silicone bridges, external dimensions (w x d x h): 275 x 175 x 36 mm

239728 H **Same**, base with holder for 10 straight ear micro instruments with octagonal Handle type 223300, external dimensions (w x d x h): 178 x 135 x 37 mm

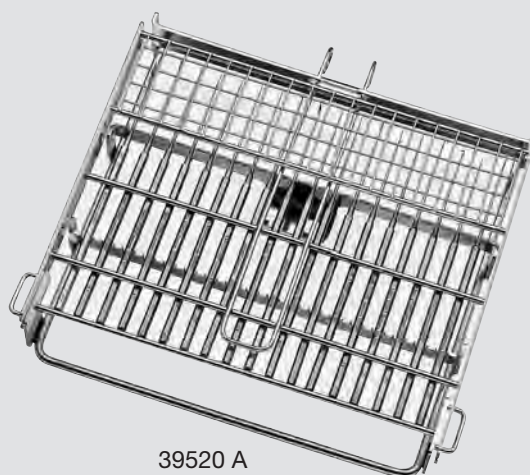
Components/Spare Parts see chapter 16

Further accessories for MiniSet Containers see catalog HYGIENE



39520 AK

39520 AK **Rack**, provides safe storage of up to 6 KARL STORZ octagonal ear micro surgery instruments during cleaning and sterilization, with special guard for the instrument tips, for easy instrument assistance, with detachable lid, external dimensions (w x d x h): 95 x 215 x 40 mm



39520 A

39520 A **Rack**, provides safe storage of up to 18 KARL STORZ octagonal ear micro surgery instruments during cleaning and sterilization, with special guard for the instrument tips, for easy instrument assistance during surgery, with detachable lid, external dimensions (w x d x h): 230 x 200 x 40 mm (compatible with standard trays)

Cochlea implantation is carried out under general anesthetic. Following an incision behind the auricle, formation of the skin flap in the subcutaneous fascia and placement of the scalp clips, a periosteal flap is cut around the auditory meatus with an expansion of 1.5 cm x 1.5 cm, forming a periosteal pocket for insertion of the implant. This is done with a Plester raspatory (position 32). Using rose-head and diamond drill bits, the mastoidectomy is positioned as such that the cortical bone above, behind and below remains in order to support the electrode. A clear view of the sigmoid sinus, the sinus dura mater angle, the bone plate in the direction of the central cranial bone, the mastoid cavity with the incus, the horizontal kinetic labyrinth, the posterior wall of the auditory meatus, as well as the outline of the canal for the facial nerve in the mastoid is achieved. The cells on the posterior wall of the auditory meatus need to be completely drilled away so that only the cortical layer remains. A bone bed is created 1 cm behind the mastoid. When doing so, the projection of the electrode outlet is directed towards the sinus dura mater angle.

To facilitate drilling, the periosteal skin flap is lifted with the aid of a special suction hook (position 26). Various rose-head and diamond drill bits are used to drill the bone bed. The size of the bone bed can be determined with the aid of a drilling guide. The size is dependent on the type of implant being used. For a nucleus implant only the electronic part of the implant is inset in the bone, whereas the antenna part is positioned in the direction of the occiput under the periosteum. The formation of the bone bed is considerably simplified by using a diamond drill (position 14). This enables a smooth bone edge to be achieved without damage to the dura mater. The connection of the bone bed to the mastoid is established either via a bone canal or a bone tunnel. Exact projection focused on the sinus dura mater angle virtually excludes any possibility of damage to the sigmoid sinus or the dura mater. The diameter should be slightly larger than the diameter of the cochlea implant electrode.

Then the construction of the posterior tympanotomy is carried out with the assistance of the microscope. Landmarks for this procedure are the position of the horizontal and the so-called digastric bridge which indicates the preceding arch of the beginning of the digastric muscle at the tip of the mastoid. If a line is drawn between the incudostapedial joint and the digastric bridge, the canal for the facial nerve is in a medial position from the line. Then a diamond drill bit, size 2.35 mm is used to carefully drill out the bone lateral to the canal for the facial nerve along the posterior auditory meatus in the direction of the middle ear. In doing so, the bridge remains in place. With careful drilling the chorda tympani becomes visible. By

changing to a diamond drill bit with a narrow shaft and a diameter of 1.4 mm (position 17), the posterior tympanotomy can be completed. By utilizing the entire space between the bone encased facial nerve of the chorda tympani and the bridge a sufficient view into the tympanum is achieved where, the incudostapedial joint, the tendons of the stapedial muscle, the promontory of the tympanic cavity and the round window niche can be identified.

Using the same polished drill bit with a diameter of 1.4 mm (position 17) the cochleostomy is now created. First of all the bone lip over the round window is drilled from the cauda to the cranium until the membrane becomes visible. Then the drill is used to prepare the cochleostomy in front of the round window and slightly below its upper end. The promontory bone is thinned until the endosteum becomes visible. The drilling is carried out with continuous irrigation. Using the smaller diamond drill of 1.0 mm (position 16) the surrounding bone is then removed until a diameter of approx. 1.5 mm is achieved. When the endosteum has been sufficiently exposed, it is carved with the aid of a curved needle and then folded to the side. One then has a view of the scala tympani, as well as the basilar membrane on their upper anterior border. Care has to be taken to protect this membrane. If necessary, using this drill or the drill of 0.6 mm (position 15) the cochleostomy can be expanded. Its diameter should be drilled to a maximum of 1.5 mm. The size can be determined with the aid of the hook probe (position 18). Small bone edges can be smoothed with the right angle hooks (position 24 and 25). The bone dust is rinsed out with the aid of a thin suction tube using Ringer's irrigation solution. Then healon is carefully installed in the scala tympani as a lubricant. While doing so, intracochlear increases in pressure are to be avoided.

The implant is then placed in the created bone bed. The SCHÖNBORN thyroid hook (position 27) is used to lift the periosteum and, subsequently, the electrode cable is introduced into the canal or tunnel which has been prepared and guided in the direction of the mastoid. The electronic model can then be fixed into place in the implant bed with the aid of the taut periosteal pocket. Additional suture fixation is not necessary.

The temporal muscle described in the posterior part is then detached. By introducing the Plester raspatory (position 32) the reference electrode can be grasped with an anatomical forceps and pushed under the muscle. The stimulating electrode is then grasped with an introduction forceps for cochlea transplant electrodes (position 20 and 21) and the tip is rotated as such that when being introduced into the cochlea tract it points from the basilar membrane towards the modiolus. The electrode can then be pushed through

LENARZ Additional Instruments for Cochlear Implantation Operations

the cochlea gradually with the aid of the forceps and an anatomical forceps. The fine positioning is achieved using a micro guide instrument which is claw-shaped with a tip which is curved upwards or downwards (position 22 and 23). The stylet can subsequently be removed from the electrode.

In the latest version of electrode development the so-called “advanced off stylet technique” is used during the introduction of the electrode. With this technique, after the electrode has been advanced to the marking on the stylet ball it is held in place with the aid of a forceps and then the electrode is advanced further into the cochlea with the aid of an introduction forceps. When it has been completely introduced up to the balloon-shaped enlargement on the shaft of the electrode the electrode is held in place and the stylet is completely removed.

The cochleostomy is closed using small pieces of connective tissue or muscle which are positioned carefully around the electrode. The electrode carrier is stabilized in the drilled mastoid in an S shape using the cortical lip (Fig. 13). In children this has to take the growth process of the cranium into account.

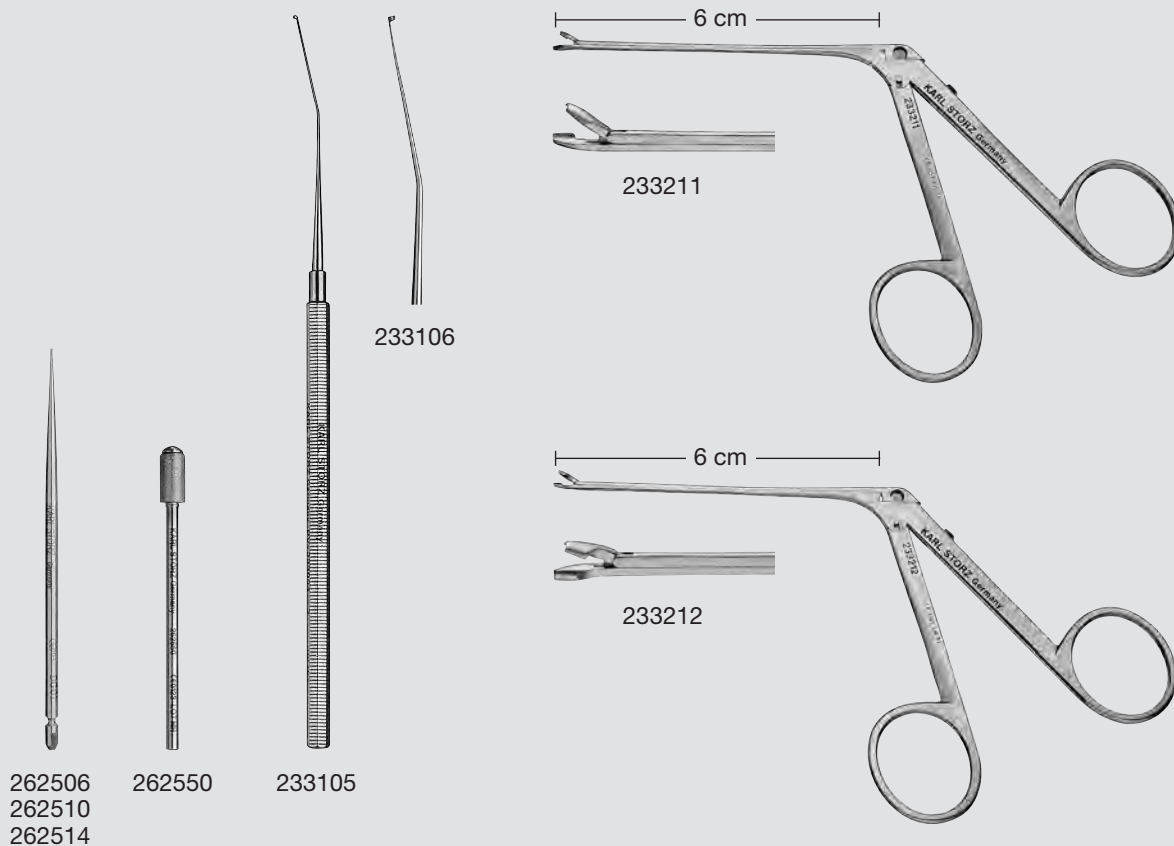
After carrying out the intraoperative electrophysiological measurements (impedance tests on the electrode, reflex thresholds of the stapedius and neural response telemetry) the wound is closed gradually, with the aid of a skin plaster if necessary.

To ensure that the procedure is as atraumatic as possible, it is essential that instruments of the correct size are used, in particular the drill bits and the suction tubes. As one gets closer to the cochlea it becomes increasingly important to use small lumen suction devices and small drill bits. The hand should be well supported at all times. It is essential that drilling is carried out with irrigation in order to prevent overheating of the tissue and, above all, to prevent the development of drilling dust in the cochlea. When introducing the electrode care needs to be taken that it is not squeezed too tightly by the forceps because this could result in damage to the thin electrode wires or the stylet. The specially designed forceps enable the electrode to be grasped securely and guided precisely without compressing the electrode.

*Prof. Dr. Th. LENARZ,
Medizinische Hochschule Hannover,
Klinik und Poliklinik für Hals-Nasen-Ohrenheilkunde,
Hannover, Germany*

Micro Instruments for Cochlear Implantation Operations

Set recommended by Prof. LENARZ



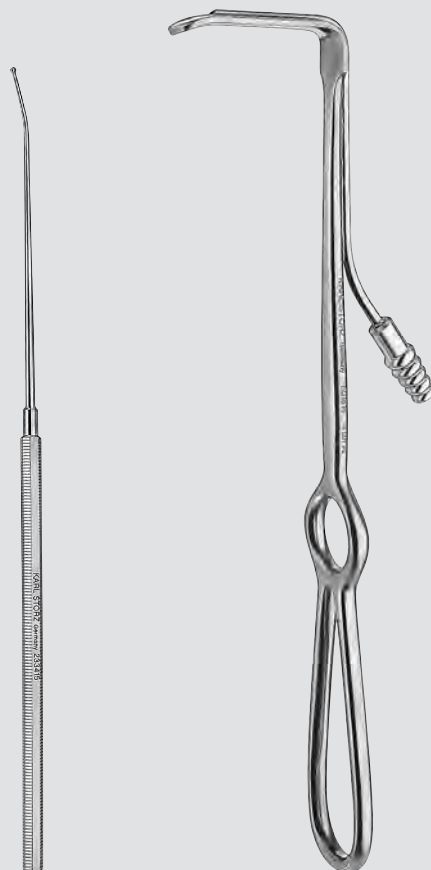
- 262506 **Diamond Burr**, shaft diameter 2.35 mm, diameter 0.6 mm, length 70 mm
- 262510 **Same**, diameter 1 mm
- 262514 **Same**, diameter 1.4 mm

- 262550 **Diamond Burr**, barrel-shaped, diameter 5 mm, length 10 mm, for creating a flat bone edge during cochlea implantation surgery, blunt tip for protection of the dura, with smooth shaft diameter 2.35 mm, length 44 mm

- 233105 **Micro Guiding Instrument**, for electrodes array, claw-shaped, tip angled downwards, length 16 cm
- 233106 **Same**, tip angled upwards

- 233211 **Forceps**, for insertion of cochlea electrodes, nucleus 24 contour, curved to right, working length 6 cm
- 233212 **Same**, curved to left

Micro Instruments for Cochlear Implantation Operations



233415

801814

233415 **Seeker**, angled 15°, with ball end, diameter 1.3 mm, length 18 cm

801814 **LENARZ Retractor**, 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm

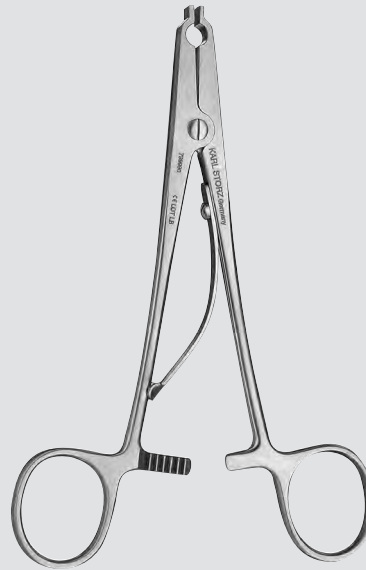
Additional Instruments for Cochlear Implantation Operations



233250



801815



799990



799995

- 233250 **DALCHOW-O'DONOGHUE Retractor**,
for cochlea implant operations
including:
Retractor, with ergonomic handle, cold light illumination,
suction channel with cut-off hole, LUER, concave blade,
20 x 30 mm, length 19.5 cm
Fiber Optic Light Carrier, with suction tube, length 18.5 cm
- 801815 **ISSING Retractor**, 43 x 11 mm, slim and flat blade
with integrated suction tube, length 21.5 cm
- 799990 **RANEY Applying and Removing Forceps**,
for scalp haemostasis clips, length 16 cm
- 799995 **RANEY Scalp Haemostasis Clips**, package of 12

Components/Spare Parts see chapter 16



■ MOTOR SYSTEMS

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO

High-Performance EC Micro Motor II

High-Speed Micro Motors

INTRA Drill Handpieces

Burrs

Micro Sagittal Saw, Osseo Scalpel

Dermatomes

High-Speed Handpieces

High-Speed Burrs

Motor Systems

Special Features

UNIDRIVE® S III ENT SCB/UNIDRIVE® S III ECO

The multifunctional unit for ENT



UNIDRIVE® S III ENT SCB



UNIDRIVE® S III ECO

Special Features:

	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen: Function selection via touch screen	●	-
Set values of the last session are stored	●	●
Choice of user languages	●	-
Color display	●	-
One unit – multifunctional:		
– Shaver system for surgery of the paranasal sinuses and anterior skull base	}	●
– INTRA Drill Handpieces (40,000 rpm and 80,000 rpm)		
– Sinus Shaver		
– Micro Saws		
– STAMMBERGER-SACHSE Intranasal Drill		
– Dermatome	}	●
– High-Speed Handpieces (60,000 rpm and 100,000 rpm)		
Two motor outputs: Two motor outputs enable simultaneous connection of two motors: For example, a shaver and micro motor	●	●
Soft start function	●	-
Formulated error messages	●	-
Integrated irrigation and coolant pump:		
– Micro-processor controlled irrigation rate	●	●
– Quick and easy connection of the tubing set	●	●
Program selection via automated motor recognition	●	●
Continuously variable revolution range	●	●
Maximum number of revolutions and motor torque: Microprocessor-controlled revolutions per minute. Therefore the preselected parameters are maintained all the time during drilling.	●	●
Maximum number of revolutions can be preset	●	●
With connection possibilities to the KARL STORZ Communication Bus (KARL STORZ-SCB)	●	-
Irrigator rod included	●	-

System specifications

Mode		Order No.	rpm
Shaver mode Operation mode: Max. rev. (rpm):	oscillating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece	40 7120 50	10,000
	DrillCut-X® II N Shaver Handpiece	40 7120 55	10,000
Sinus burr mode Operation mode: Max. rev. (rpm):	rotating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece	40 7120 50	12,000
	DrillCut-X® II N Shaver Handpiece	40 7120 55	12,000
High-speed drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: High-Speed Micro Motor	20 7120 33	60,000/100,000
Drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	40,000/80,000
Micro saw mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	15,000/20,000
Intranasal drill mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	60,000
Dermatome mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	8,000
Power supply:	100 – 240 VAC, 50/60 Hz		
Dimensions: (w x h x d)	300 x 165 x 265 mm		
Two outputs for parallel connection of two motors			
Integrated irrigation pump:			
Flow:	adjustable in 9 steps		

	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen:	6.4" / 300 cd/m ²	
Weight:	5.2 kg	4.7 kg
Certified to:	IEC 601-1 CE acc. to MDD	IEC 60601-1
Available languages:	English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian	numerical codes

Motor Systems

Special features of the high-performance EC micro motor II and the high-speed micro motor

Special features of high-performance EC micro motor II:

- Self-cooling, brushless high-performance EC micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Detachable connecting cable
- INTRA coupling
- Maximum torque 4 Ncm
- Number of revolutions can be continuously adjusted up to 40,000 rpm
- Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handle



20 7110 33

20 7110 33 **High-Performance EC Micro Motor II**, for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/ECO and Connecting Cable 20 7110 73, or for use with UNIDRIVE® S III ENT/ECO/NEURO and Connecting Cable 20 7111 73



20 7111 73 **Connecting Cable**, to connect High-Performance EC Micro Motor 20 7110 33 to UNIDRIVE® S III ENT/ECO/NEURO

Special Features of the high-speed micro motor:

- Brushless high-speed micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Maximum torque 6 Ncm
- Number of revolutions can be continuously adjusted up to 60,000 rpm
- Possible to adjust the number of revolutions to 100,000 rpm with the appropriate handle



20 7120 33

20 7120 33 **High-Speed Micro-Motor**, max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO



40 7016 20-1



40 7014 20

40 7016 01-1 UNIDRIVE® S III ENT SCB, motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and SCB module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Irrigator Rod

Two-Pedal Footswitch, two-stage, with proportional function

Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

SCB Connecting Cable, length 100 cm

Single Use Tubing Set*, sterile, package of 3

40 7014 01 UNIDRIVE® S III ECO, motor control unit with two motor outputs and integrated irrigation pump, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Two-Pedal Footswitch, two-stage, with proportional function


Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

Single Use Tubing Set*, sterile, package of 3

Specifications:

Touch Screen	UNIDRIVE® S III ENT SCB: 6,4"/300 cd/m ²	Dimensions w x h x d	300 x 165 x 265 mm
Flow	9 steps	Weight	5.2 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO

System Components

Two-Pedal Footswitch



20 0166 30

Silicone Tubing Set



20 7116 40

UNIT SIDE
PATIENT SIDE



High-Speed Micro Motor



20 7120 33

High-performance EC Micro Motor II



20 7110 33
20 7111 73

High-Speed Handpieces



252660 – 252692

INTRA Drill Handpieces



252575 – 252590

Micro Saws



254000 – 254300

Dermatomes



253000 – 253300

Optional Accessories

for UNIDRIVE® S III ENT SCB and UNIDRIVE® S III ECO



280053 **Universal Spray**, 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950
including:
Spray Nozzle

280053 C **Spray Nozzle**, for the reprocessing of INTRA burr handpieces,
for use with Universal Spray 280053 B



031131-10* **Tubing Set**, for irrigation, for single use, sterile,
package of 10



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

INTRA Drill Handpieces

for ear micro surgery

Special Features:

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 or 80,000 rpm
- Detachable irrigation tubes
- Can be processed in a cleaning machine



252570



252573



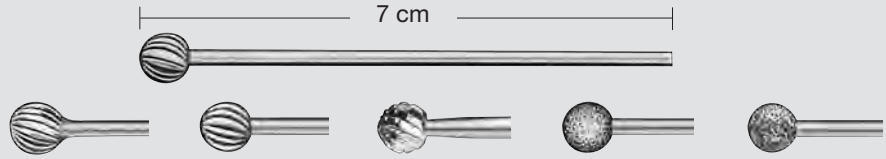
252590



20 7110 33/20 7111 73

- 252570 **INTRA Drill Handpiece**, angled, length 12.5 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burs
- 252573 **INTRA Drill Handpiece**, angled, length 12.5 cm, transmission 1:2 (80,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burs
- 252590 **INTRA Drill Handpiece**, straight, length 11 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burs

**Straight Shaft Burrs, length 7 cm,
for use with INTRA Drill Handpieces 252590, 252570, 252573**

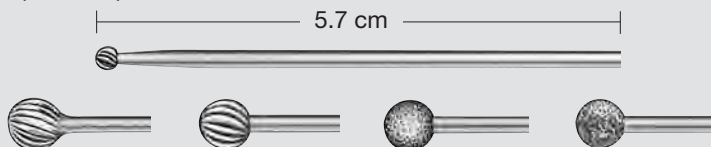


Detail	Size	Dia. mm	Standard	Tungsten Carbide	Transverse Tungsten Carbide	Diamond	Diamond, coarse
	006	0.6	260006	261006	–	262006	–
	007	0.7	260007	261007	–	262007	–
	008	0.8	260008	261008	–	262008	–
	010	1	260010	261010	–	262010	–
	014	1.4	260014	261014	261114	262014	–
	018	1.8	260018	261018	–	262018	–
	023	2.3	260023	261023	261123	262023	262223
	027	2.7	260027	261027	–	262027	262227
	031	3.1	260031	261031	261131	262031	262231
	035	3.5	260035	261035	–	262035	262235
	040	4	260040	261040	261140	262040	262240
	045	4.5	260045	261045	–	262045	262245
	050	5	260050	261050	261150	262050	262250
	060	6	260060	261060	261160	262060	262260
	070	7	260070	261070	–	262070	262270

- 260000 **Standard Straight Shaft Burr**, stainless, sizes 006 – 070, length 7 cm, set of 15
- 261000 **Tungsten Carbide Straight Shaft Burr**, stainless, sizes 006 – 070, length 7 cm, set of 15
- 261100 **Tungsten Carbide Straight Shaft Burr**, with cross cut, stainless, sizes 014 – 060, length 7 cm, set of 6
- 262000 **Diamond Straight Shaft Burr**, stainless, sizes 006 – 070, length 7 cm, set of 15
- 262200 **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating, sizes 023 – 070, length 7 cm, set of 9, color code: gold

Burrs

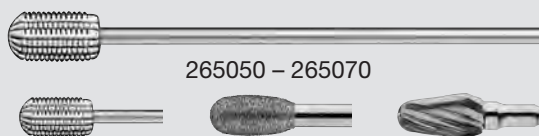
**Straight Shaft Burrs, length 5.7 cm,
for use with INTRA Drill Handpieces 252590, 252570, 252573**



Detail	Size	Dia. mm	Standard	Tungsten Carbide	Transverse Tungsten Carbide	Diamond	Diamond, coarse
	014	1.4	649614 K	649614 HK	649614 Q	649714 K	–
	018	1.8	649618 K	649618 HK	–	649718 K	–
	023	2.3	649623 K	649623 HK	649623 Q	649723 K	649723 GK
	027	2.7	649627 K	649627 HK	–	649727 K	649727 GK
	031	3.1	649631 K	649631 HK	649631 Q	649731 K	649731 GK
	035	3.5	649635 K	649635 HK	–	649735 K	649735 GK
	040	4	649640 K	649640 HK	649640 Q	649740 K	649740 GK
	045	4.5	649645 K	649645 HK	–	649745 K	649745 GK
	050	5	649650 K	649650 HK	649650 Q	649750 K	649750 GK
	060	6	649660 K	649660 HK	649660 Q	649760 K	649760 GK
	070	7	649670 K	649670 HK	–	649770 K	649770 GK

- 649600 K **Standard Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11
- 649600 HK **Tungsten Carbide Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11
- 649700 K **Diamond Straight Shaft Burr**, stainless, sizes 014 – 070, length 5.7 cm, set of 11
- 649700 GK **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating, sizes 023 – 070, length 5.7 cm, set of 9, color code: gold

**Straight Shaft Burrs,
cylindrical, barrel-shaped,
and bud-shaped**



Size	Dia. mm	cylindrical	barrel-shaped	bud-shaped
		length 7 cm		
020	2	262560	–	–
040	4	–	262561	–
050	5	265050	–	263050
060	6	265060	–	263060
070	7	265070	–	263070

LINDEMANN Burrs, conical, stainless, length 7 cm



Size	Diameter mm	Conical
		sterilizable
018	1.8	263518
021	2.1	263521
023	2.3	263523

Burrs Accessories



280090



280080



280120

- 280090 **Size Template**, for drills, stainless steel, sterilizable
- 280080 **Brush**, for cleaning atraumatic jaws, sterilizable, package of 5
- 280120 **Temporal Bone Holder**, bowl-shaped, with 3 fixation screws for tensioning the petrosal bone and with evacuation tube for irrigation liquid

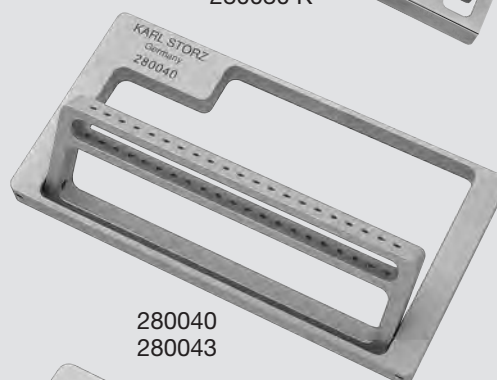
Accessories for Burrs



280030



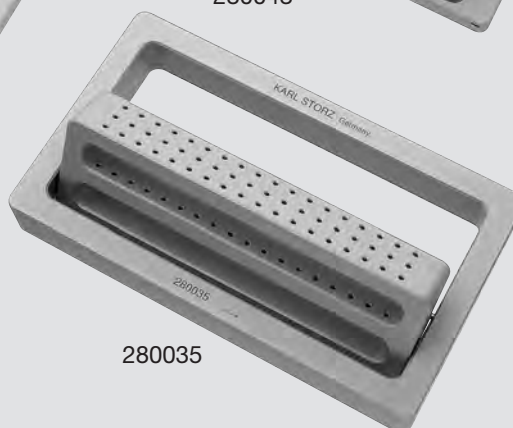
280030 K



280040
280043



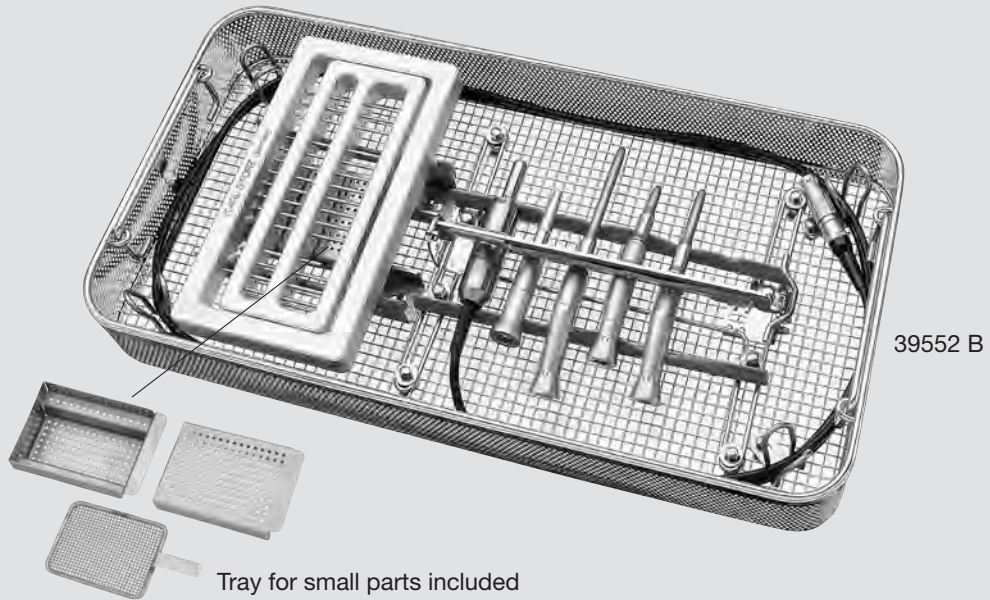
280033
280034



280035

- 280030 **Rack**, for 36 straight shaft burrs with a length of 7 cm, foldable, sterilizable, size 22 x 11.5 x 2 cm
- 280030 K **Metal Bar**, for fixation at Rack 280030, to hold 18 burrs with a length of 7 cm and 16 burrs with a length of 5.7 cm, size 16 x 2.5 x 1 cm
- 280033 **Rack**, for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
- 280034 **Rack**, for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
- 280035 **Rack**, for 54 straight shaft burrs with a length of 5 cm (36 pcs) and 7 cm (18 pcs), foldable, sterilizable, size 22 x 12.5 x 3 cm
- 280040 **Rack**, flat model, to hold 21 straight shaft burrs with a length of up to 6 cm (6 pcs) and 7 cm (15 pcs), folding model, sterilizable, size 17.5 x 9.5 x 1.2 cm
- 280043 **Rack**, flat model, to hold 21 straight shaft burrs with a length of 7 cm (6 pcs) and 9.5 cm (15 pcs), folding model, sterilizable, size 17.5 x 11.5 x 1.2 cm

Please note: The burrs displayed are not included in the rack.



39552 A **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **not** included

for storage of:

- Up to 6 drill handpieces
- Connecting cable
- EC micro motor
- Small parts

39552 B **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **included**

for storage of:

- Up to 6 drill handpieces
- Connecting cable
- EC micro motor
- Up to 36 drill bits and burrs
- Small parts

Please note: The instruments displayed are not included in the sterilizing and storage trays.

Oscillating Micro Saws



254000



20 7110 33/20 7111 73

254000

Oscillating Micro Saw, inbuilt irrigation tube, without saw blades, with fork wrench

Saw blades, short shaft, for use with 254000



254024

Saw Blade, short shaft, blade thickness 0.3 mm, width of blade 6 mm, working length 11 mm, package of 1, for use with 254000



254025

Same, width of blade 10 mm



254026

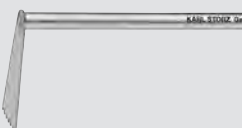
Same, width of blade 15 mm



254030

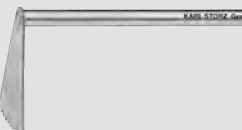
Same, blade thickness 0.15 mm, width of blade 6 mm

Saw blades, long shaft, for use with 254000



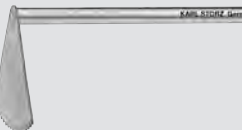
254027

Saw Blade, long shaft, blade thickness 0.3 mm, width of blade 6 mm, working length 26 mm, package of 1, for use with 254000



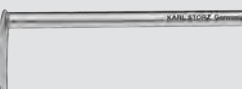
254028

Same, width of blade 10 mm



254029

Same, width of blade 15 mm



254031

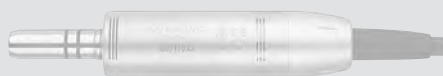
Same, blade thickness 0.15 mm, width of blade 6 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

Micro Sagittal Saw, Osseo Scalpel



254100



20 7110 33/20 7111 73

254100 **Micro Sagittal Saw**, integrated irrigation tube, without saw blades, with fork wrench

Saw Blades, for use with 254100



254170

Saw Blade, blade thickness 0.35 mm, width of blade 4 mm, working length 10 mm, package of 12, for use with Micro Sagittal Saw 254100



254171

Same, width of blade 6 mm, working length 10 mm



254172

Same, width of blade 6 mm, working length 15 mm



254173

Same, width of blade 10 mm, working length 15 mm



254174

Same, width of blade 12 mm, working length 27 mm



254175

Same, width of blade 6 mm, working length 10 mm



254200



20 7110 33/20 7111 73

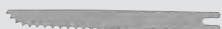
254200 **Osseo Scalpel, Micro Saw**, with axial/sagittal cut, pendulum stroke, especially appropriate for 3-dimensional incision guiding, integrated irrigation tube, without saw blades, with fork wrench

Saw Blades, for use with 254200



254235

Saw Blade, blade thickness 0.35 mm, working length 12 mm, package of 12, for use with Osseo Scalpel, Micro Saw 254200



254236

Same, working length 18 mm



254237

Same, working length 24 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16

Micro Compass Saws



254300



20 7110 33/20 7111 73

254300 **Micro Compass Saw**, detachable irrigation tube, without saw blades, with fork wrench

Saw Blades, for use with 254300



254312

Saw Blade, blade thickness 0.25 mm, working length 11 mm, package of 12, for use with 254300



254313

Same, working length 14 mm



254314

Same, working length 18 mm



254315

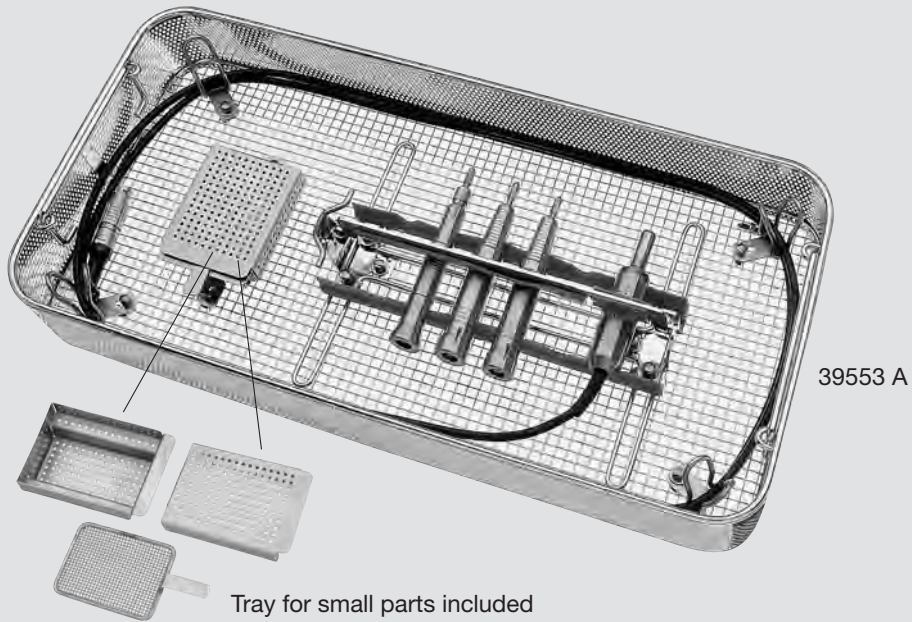
Same, working length 22 mm



254316

Same, working length 26 mm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 81
Components/Spare Parts see chapter 16



39553 A **Wire Tray**, provides safe storage of accessories for the KARL STORZ micro saw system during cleaning and sterilization, includes basket for small parts

for storage of:

- Up to 6 saw handpieces
- Connecting cable
- EC micro motor
- Saw blades

Please note: The instruments displayed are not included in the sterilizing and storage tray.

Dermatomes

Special Features:

- Dermaplaning for obtaining small pieces of skin from behind the ear



20 7110 33/20 7111 73



253000

253000

Dermatome, with INTRA coupling, width of incision 12 mm, recommended maximum speed 8000 rpm

253001

Replacement Blade, for Dermatome 253000, width of incision 12 mm, sterile, package of 10



253100

253100

Dermatome, with INTRA coupling, width of incision 25 mm, recommended maximum speed 8000 rpm

253101

Replacement Blade, for Dermatome 253100, width of incision 25 mm, sterile, package of 10



253200

253200

Dermatome, with INTRA coupling, width of incision 50 mm, recommended maximum speed 8000 rpm

253201

Replacement Blade, for Dermatome 253200, width of incision 50 mm, sterile, package of 10



253300

253300

Dermatome, with INTRA coupling, width of incision 75 mm, recommended maximum speed 8000 rpm

253301

Replacement Blade, for Dermatome 253300, width of incision 75 mm, sterile, package of 10



39554 A

- 39554 A **Wire Tray**, provides safe storage of accessories for the KARL STORZ dermatome system during cleaning and sterilization
- for storage of:**
- Up to 2 dermatomes
 - Connecting cable
 - EC micro motor with INTRA coupling

Please note: The instruments displayed are not included in the sterilizing and storage tray.

UNIDRIVE® S III ENT SCB

High-Speed Handpieces, angled, 100,000 rpm

For use with High-Speed Drills, shaft diameter 3.17 mm
and with High-Speed Micro Motor 20 7120 33

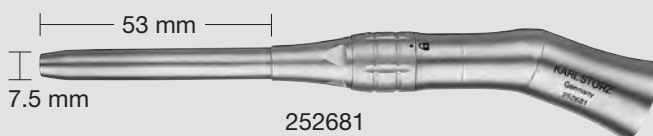
100,000 rpm
diameter 7.5 mm



20 7120 33



252680



252681

- 252680 **High-Speed Handpiece**, short, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**
- 252681 **High-Speed Handpiece**, medium, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**

UNIDRIVE® S III ENT SCB

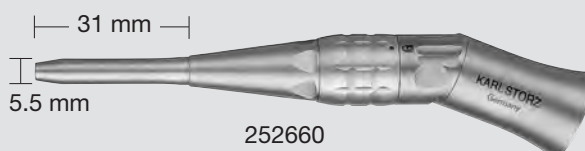
High-Speed Handpieces, angled and straight, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm
and with High-Speed Micro Motor 20 7120 33

60,000 rpm
diameter 5.5 mm



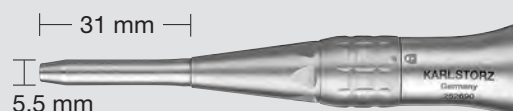
20 7120 33



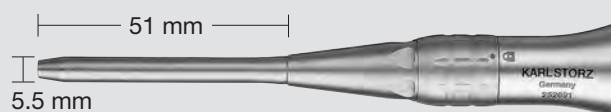
252660



252661



252690



252691

- 252660 **High-Speed Handpiece**, extra short, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252661 **High-Speed Handpiece**, short, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252690 **High-Speed Handpiece**, extra short, straight, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252691 **High-Speed Handpiece**, short, straight, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

High-Speed Micro Motor 20 7120 33 see page 81

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252680



252681



High-Speed Standard Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium
1	350110 S	350110 M
2	350120 S	350120 M
3	350130 S	350130 M
4	350140 S	350140 M
5	350150 S	350150 M
6	350160 S	350160 M
7	350170 S	350170 M



High-Speed Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium
1	350210 S	350210 M
2	350220 S	350220 M
3	350230 S	350230 M
4	350240 S	350240 M
5	350250 S	350250 M
6	350260 S	350260 M
7	350270 S	350270 M

UNIDRIVE® S III ENT SCB

High-Speed Diamond Burrs, High-Speed Acorns,
High-Speed Barrel Burrs, High-Speed Neuro Fluted Burr

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252680



252681



High-Speed Coarse Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium
3	350330 S	350330 M
4	350340 S	350340 M
5	350350 S	350350 M
6	350360 S	350360 M
7	350370 S	350370 M



High-Speed Acorns, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium
7.5	350675 S	350675 M
9	350690 S	350690 M



High-Speed Barrel Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium
6	350960 S	350960 M
9.1	350991 S	350991 M



High-Speed Neuro Fluted Burr, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium
1.8	350718 S	350718 M
3	350730 S	350730 M

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



252660



252661



252690



252691



High-Speed Standard Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	extra short	short
1	330110 ES	330110 S
2	330120 ES	330120 S
3	330130 ES	330130 S
4	330140 ES	330140 S
5	330150 ES	330150 S
6	330160 ES	330160 S
7	330170 ES	330170 S



High-Speed Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	extra short	short
0.6	330206 ES	330206 S
1	330210 ES	330210 S
1.5	330215 ES	330215 S
2	330220 ES	330220 S
3	330230 ES	330230 S
4	330240 ES	330240 S
5	330250 ES	330250 S
6	330260 ES	330260 S
7	330270 ES	330270 S

UNIDRIVE® S III ENT SCB

High-Speed Diamond Burrs, High-Speed Cylinder Burrs,
LINDEMANN High-Speed Fluted Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



High-Speed Coarse Diamond Burrs, 60,000 rpm, **for single use**,
sterile, package of 5

Diameter in mm	extra short	short
3	330330 ES	330330 S
4	330340 ES	330340 S
5	330350 ES	330350 S
6	330360 ES	330360 S
7	330370 ES	330370 S



High-Speed Cylinder Burrs, 60,000 rpm, **for single use**,
sterile, package of 5

Diameter in mm	extra short	short
4	330440 ES	330440 S
6	330460 ES	330460 S



LINDEMANN High-Speed Fluted Burrs, 60,000 rpm, **for single use**,
sterile, package of 5

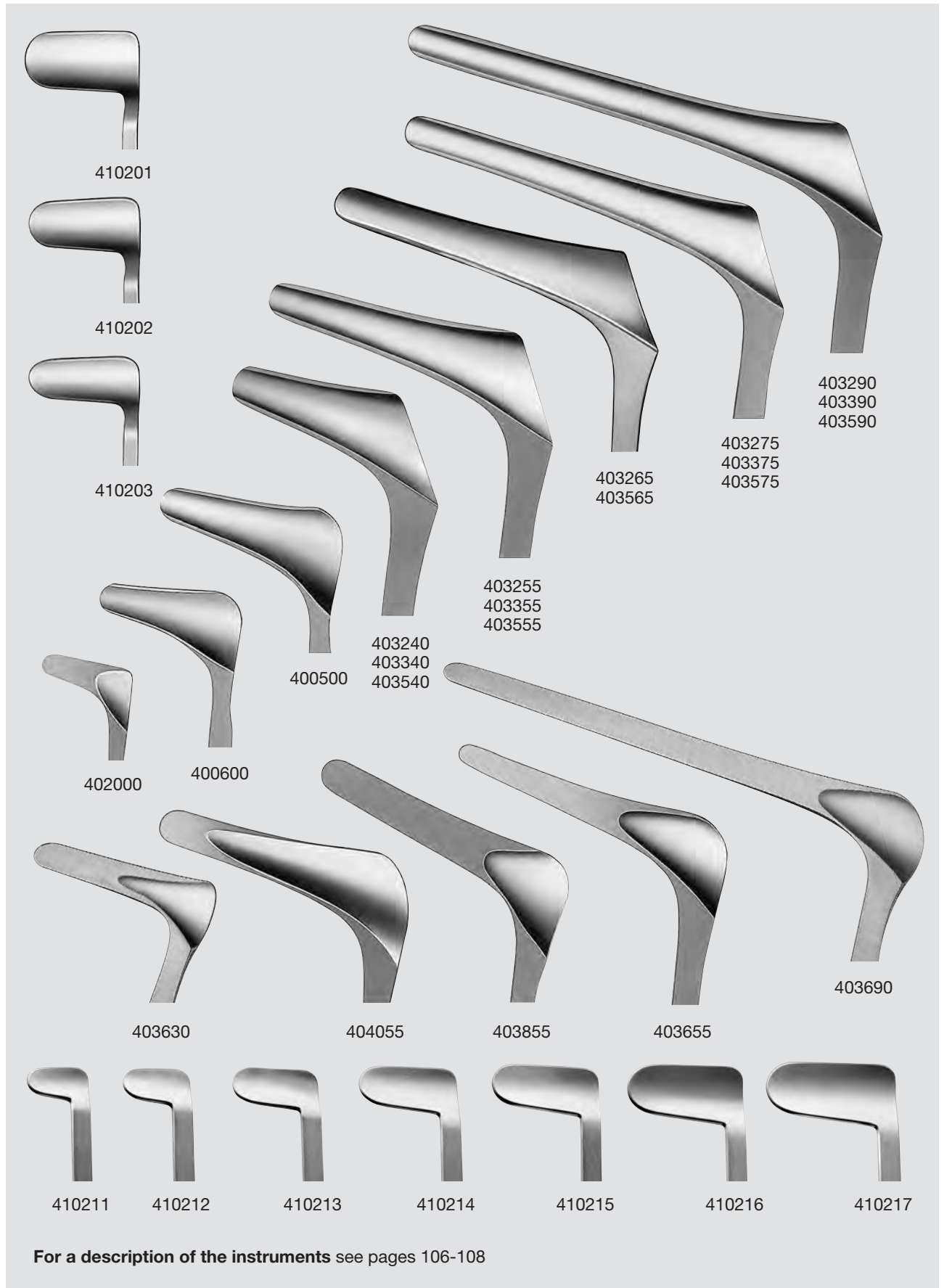
Size in mm (diameter x length)	extra short	short
Diameter 2.1/11	330511 ES	330511 S
Diameter 2.3/26	330526 ES	330526 S



**INSTRUMENTS FOR RHINOLOGY
AND RHINOPLASTY**

Nose

Instruments for Rhinology and Rhinoplasty



10-981

Nose

Instruments for Rhinology and Rhinoplasty



400500



400520



400600



402000



410201 –
410203



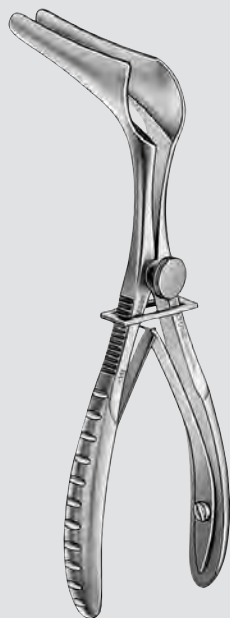
410211 –
410217

- 400500 HARTMANN **Nasal Speculum**, for adults, length 13 cm
- 400520 BECKMANN **Nasal Speculum**, for adults, curved sideways, length 15 cm
- 400600 HARTMANN **Nasal Speculum**, for children, length 13 cm
- 402000 HALLE-TIECK **Nasal Speculum**, for infants, length 13 cm
- 410201 THUDICHUM **Nasal Speculum**, self-retaining, large, blade size 18 x 11.5 mm, length 6.5 cm
- 410202 **Same**, medium, blade size 18 x 9.5 mm
- 410203 **Same**, small, blade size 18 x 8.5 mm
- 410211 THUDICHUM/MARK HOVELL **Nasal Speculum**, self-retaining, blade size 8.5 x 6 mm, length 7 cm
- 410212 **Same**, 9 x 7 mm
- 410213 **Same**, 12.5 x 8 mm
- 410214 **Same**, 15 x 8.5 mm
- 410215 **Same**, 16.5 x 9 mm
- 410216 **Same**, 18 x 10 mm
- 410217 **Same**, 19.5 x 10.5 mm

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



403240 –
403290



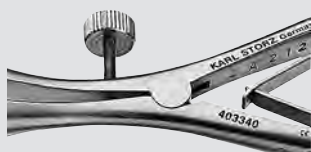
403340 –
403390



403540 –
403590



- 403240 KILLIAN-STRU YCKEN **Nasal Speculum**, with set rack, blade length 40 mm, length 15 cm
- 403255 **Same**, blade length 55 mm
- 403265 **Same**, blade length 65 mm
- 403275 **Same**, blade length 75 mm
- 403290 **Same**, blade length 90 mm



- 403340 KILLIAN-STRU YCKEN **Nasal Speculum**, with set screw, blade length 40 mm, length 15 cm
- 403355 **Same**, blade length 55 mm
- 403375 **Same**, blade length 75 mm
- 403390 **Same**, blade length 90 mm



- 403540 KILLIAN-STRU YCKEN **Nasal Speculum**, standard model, blade length 40 mm, length 13.5 cm
- 403555 **Same**, blade length 55 mm
- 403565 **Same**, blade length 65 mm
- 403575 **Same**, blade length 75 mm
- 403590 **Same**, blade length 90 mm

10-98:

Components/Spare Parts see chapter 16

Nose

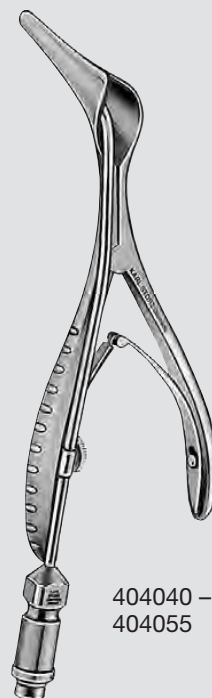
Instruments for Rhinology and Rhinoplasty



403630 –
403690



403835 –
403890



404040 –
404055

- 403630 COTTLE **Nasal Speculum**,
blade length 35 mm, length 13 cm
403655 **Same**, blade length 55 mm
403675 **Same**, blade length 75 mm
403690 **Same**, blade length 90 mm
- 403755 COTTLE **Nasal Speculum**, with slender blades,
with set screw, blade length 55 mm, length 13 cm
- 403835 COTTLE **Nasal Speculum**, with set screw,
blade length 35 mm, length 13 cm
403855 **Same**, blade length 55 mm
403865 **Same**, blade length 65 mm
403875 **Same**, blade length 75 mm
403890 **Same**, blade length 90 mm
- 404040 **Nasal Speculum**, with fiber optic light carrier,
blade length 40 mm, length 13.5 cm
404055 **Same**, blade length 55 mm

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



404455 –
404475

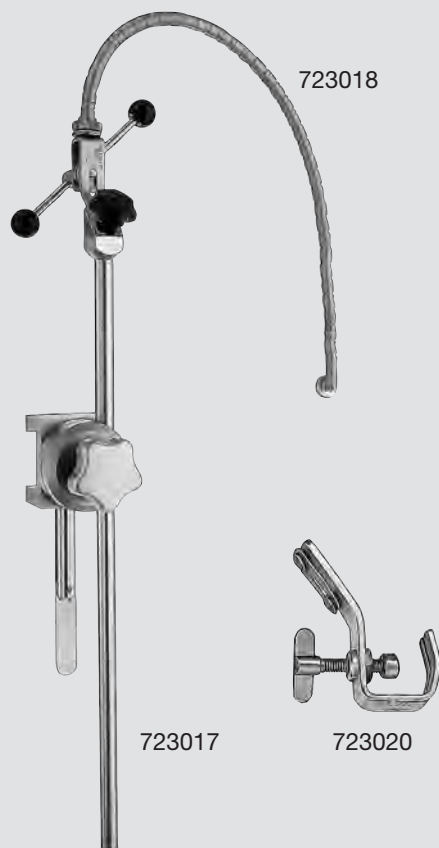


404555 –
404575

- 404455 RUDERT **Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, left blade length 55 mm, right blade shortened with 3 mandrels, length 15 cm
- 404465 **Same**, left blade length 65 mm
- 404475 **Same**, left blade length 75 mm
- 404555 RUDERT **Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, right blade length 55 mm, left blade shortened with 3 mandrels, length 15 cm
- 404565 **Same**, right blade length 65 mm
- 404575 **Same**, right blade length 75 mm

Nose

Instruments for Rhinology and Rhinoplasty



For use with Nasal Specula 404455 – 404475, 404555 – 405575

723017 **Rotating Clamp**, with holding rod for Flexible Tension Arms 723018 and 28162 FB, attachable to the operating table's sliding rail

723018 **Flexible Tension Arm**, length 50 cm

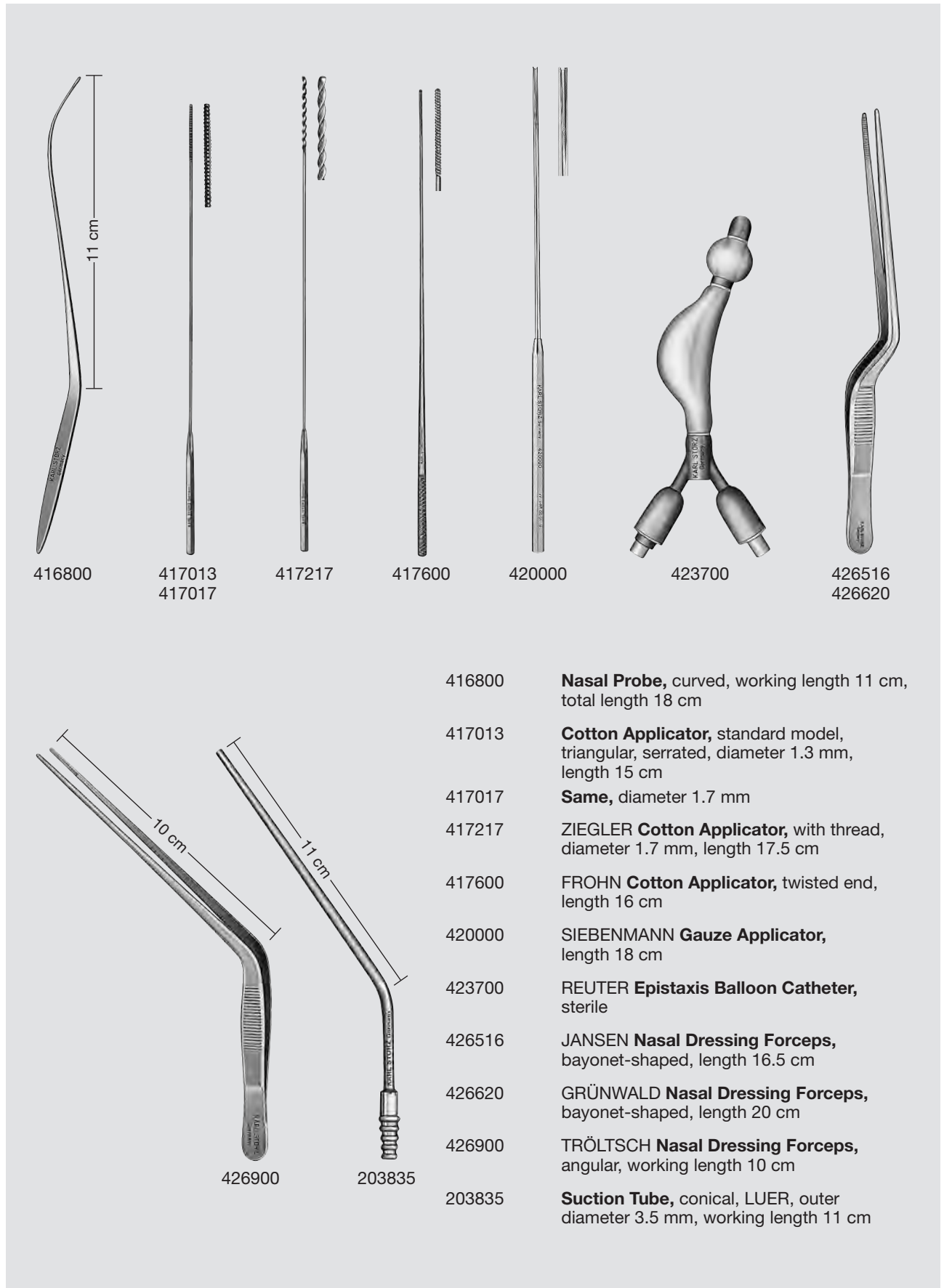
723020 **Connector**, for Flexible Tension Arm 723018, attachable to rods up to diameter 16 mm

The tension arm can also be attached to an anesthesia frame using the connector in place of the holding rod.

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



416800

417013
417017

417217

417600

420000

423700

426516
426620

416800

Nasal Probe, curved, working length 11 cm, total length 18 cm

417013

Cotton Applicator, standard model, triangular, serrated, diameter 1.3 mm, length 15 cm

417017

Same, diameter 1.7 mm

417217

ZIEGLER Cotton Applicator, with thread, diameter 1.7 mm, length 17.5 cm

417600

FROHN Cotton Applicator, twisted end, length 16 cm

420000

SIEBENMANN Gauze Applicator, length 18 cm

423700

REUTER Epistaxis Balloon Catheter, sterile

426516

JANSEN Nasal Dressing Forceps, bayonet-shaped, length 16.5 cm

426620

GRÜNWALD Nasal Dressing Forceps, bayonet-shaped, length 20 cm

426900

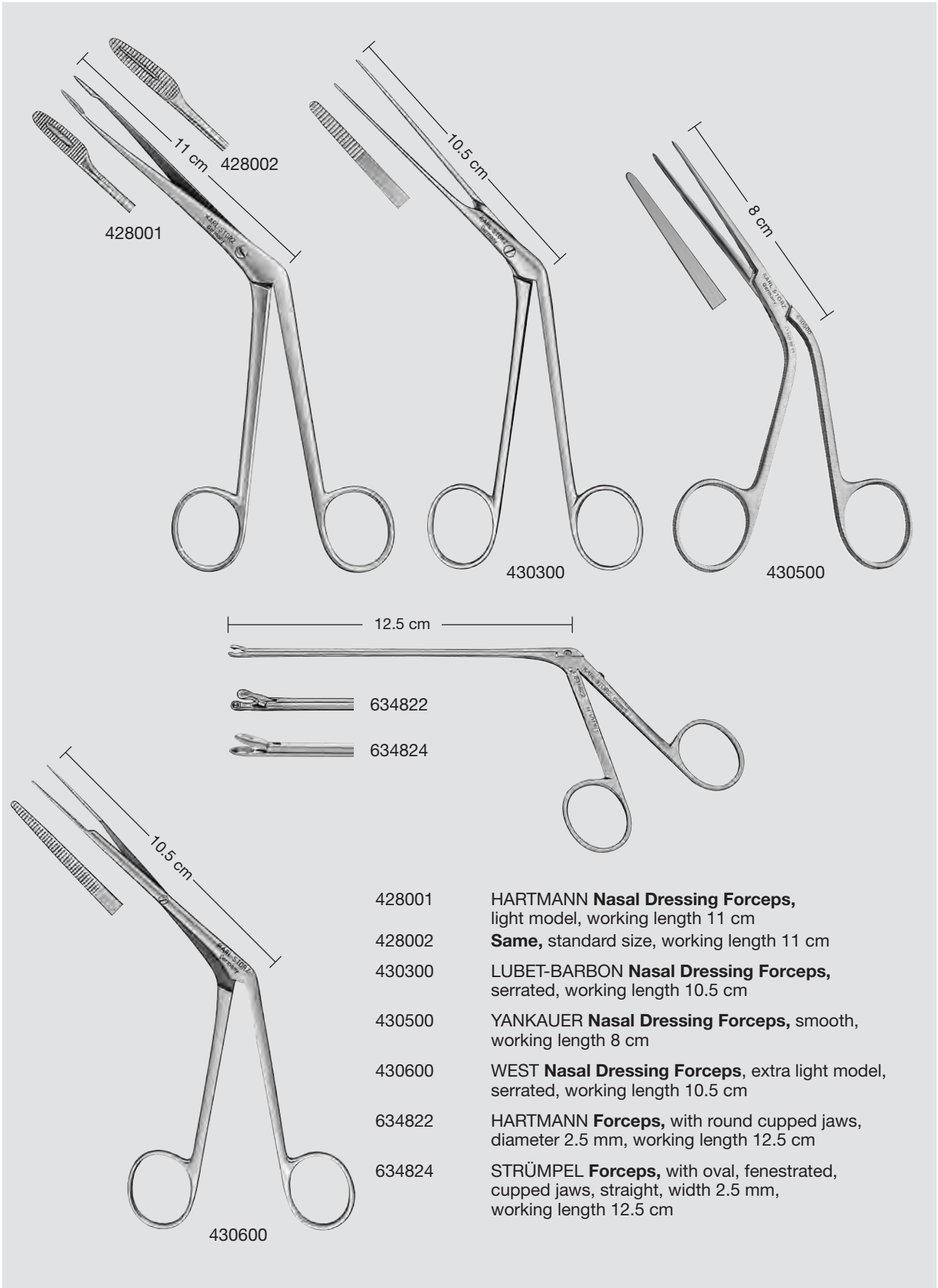
TRÖLTSCHE Nasal Dressing Forceps, angular, working length 10 cm

203835

Suction Tube, conical, LUER, outer diameter 3.5 mm, working length 11 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 428001 HARTMANN **Nasal Dressing Forceps**, light model, working length 11 cm
- 428002 **Same**, standard size, working length 11 cm
- 430300 LUBET-BARBON **Nasal Dressing Forceps**, serrated, working length 10.5 cm
- 430500 YANKAUER **Nasal Dressing Forceps**, smooth, working length 8 cm
- 430600 WEST **Nasal Dressing Forceps**, extra light model, serrated, working length 10.5 cm
- 634822 HARTMANN **Forceps**, with round cupped jaws, diameter 2.5 mm, working length 12.5 cm
- 634824 STRÜMPEL **Forceps**, with oval, fenestrated, cupped jaws, straight, width 2.5 mm, working length 12.5 cm

Nose

Instruments for Rhinology and Rhinoplasty

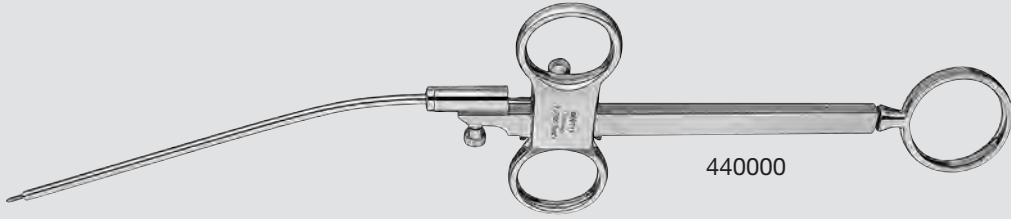


- 436610 **Nasal Atomizer**, straight, including graduated Container 10455 for local anaesthetic, for use with Rubber Bulb 437000
- 437000 **Rubber Bulb**, for Nasal Atomizer 436610, latex-free
- 437520 DE VILBIS **Nasal Atomizer**, with adjustable tip, rubber bulb and large bottle
- 437600 DE VILBIS **Nasal Atomizer**, with adjustable tip, rubber bulb, with bottle and rack
- 439200 GLATZEL **Nasal Mirror**, (CZERMAK's plate) for verification of nasal ventilation capacity, 13 x 20 cm

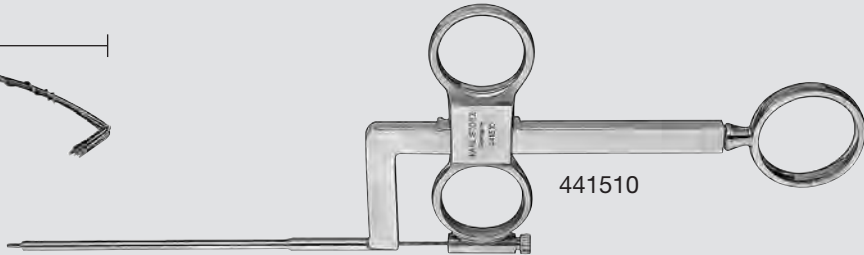
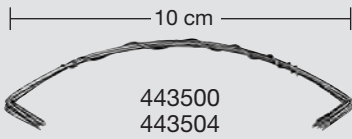
Components/Spare Parts see chapter 16

Nose

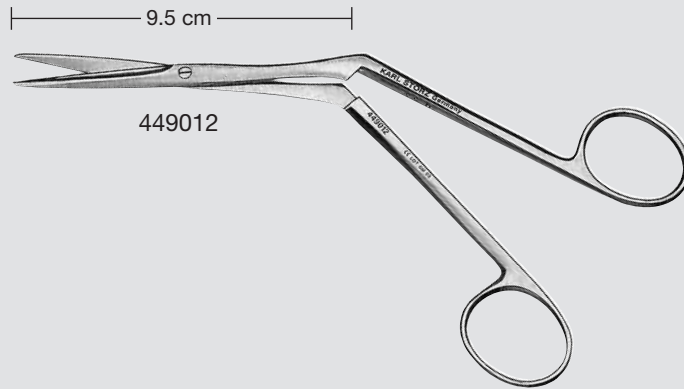
Instruments for Rhinology and Rhinoplasty



440000 KRAUSE **Nasal Snare**, length 25 cm



441510 LANGE **Nasal Snare**, bayonet-shaped, length 24 cm
 443500 **Nasal Snare Wire**, for 440000 – 441510, standard size, diameter 0.3 mm, length 10 cm, package of 25
 443504 **Same**, diameter 0.4 mm, package of 25

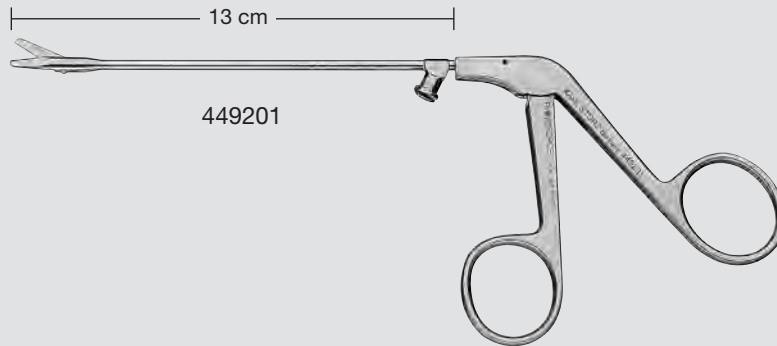


449001 HEYMANN **Nasal Scissors**, small, working length 9 cm
 449001 L **Nasal Scissors**, small, curved left, working length 9 cm
 449002 HEYMANN **Nasal Scissors**, medium (standard model), working length 9.5 cm
 449003 HEYMANN **Nasal Scissors**, large, working length 11 cm
 449012 HEYMANN **Nasal Scissors**, medium, serrated blades, working length 9.5 cm

Components/Spare Parts see chapter 16

Nose

Instruments for Rhinology and Rhinoplasty



449201



449201

RHINOFORCE® II Nasal Scissors, straight, with cleaning connector, working length 13 cm



449202

Same, curved to right



449203

Same, curved to left



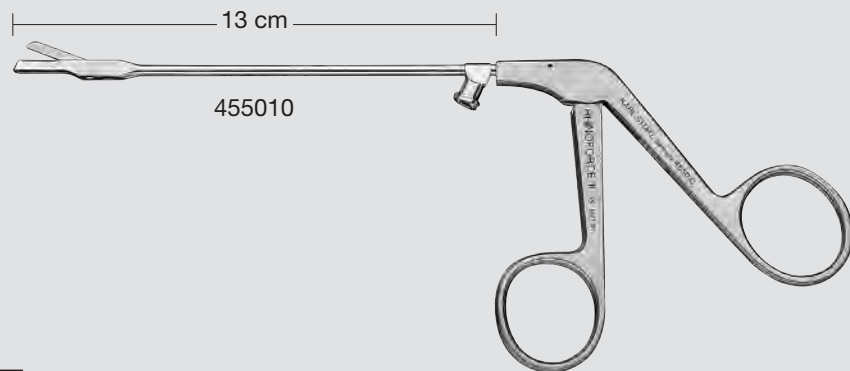
449204

RHINOFORCE® II Nasal Scissors, cutting blades curved upwards, to cut the anterior part of the middle turbinate in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13 cm



449205

Same, curved downwards



455010

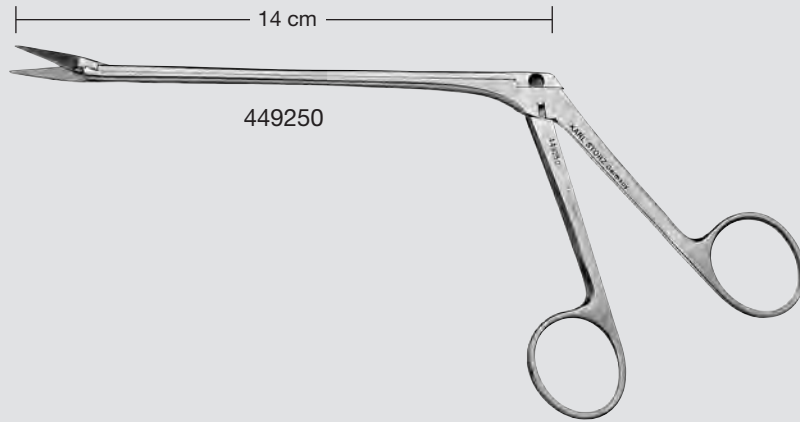


455010

STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps, with cleaning connector, working length 13 cm

Nose

Instruments for Rhinology and Rhinoplasty



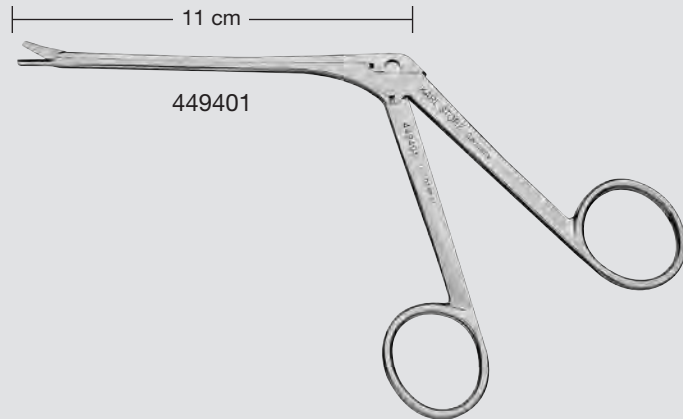
449250

Nasal Scissors, ZÜRICH model, straight, large model, cutting length 18 mm, working length 14 cm



449251

Same, small model, cutting length 12 mm, working length 12 cm



449401

Nasal Scissors, straight, slender model, serrated, cutting length 10 mm, working length 11 cm



449402

Same, curved to right

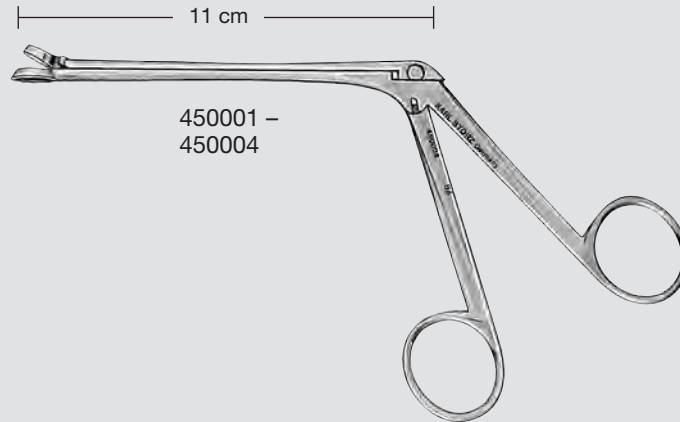


449403

Same, curved to left

Nose

Instruments for Rhinology and Rhinoplasty



450001

HARTMANN Nasal Cutting Forceps,
round, size 1, working length 11 cm



450002

Same, size 2



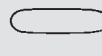
450003

Same, size 3



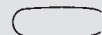
450004

Same, size 4



453501

GRÜNWARD-HENKE Nasal Cutting Forceps, size 1, working length 11 cm



453502

Same, size 2



453711

WATSON-WILLIAMS Nasal Cutting Forceps, 45° upturned, extra delicate, with basket, size 1, working length 13 cm



453712

Same, without basket, size 2



454001

SCHMEDEN Nasal Cutting Forceps, size 1, working length 11 cm



454002

Same, size 2



454003

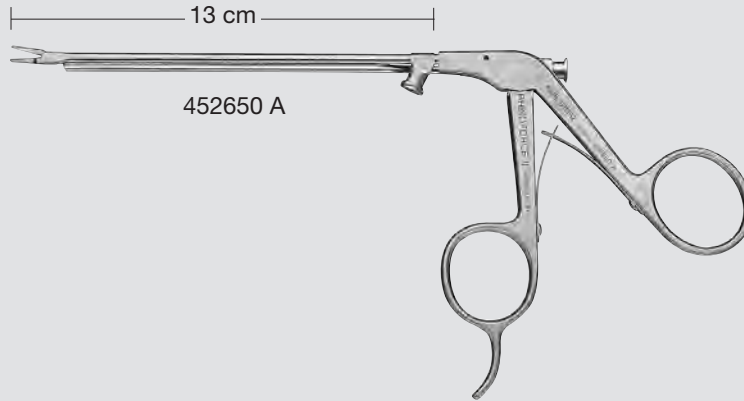
Same, size 3

Nose

Instruments for Rhinology and Rhinoplasty

MONTGOMERY-YOUNGS RHINOFORCE® II Clip Applicator,
for endonasal endoscopic sphenopalatine artery ligature

Winner of the 2006
Cutler Surgical Prize



The **Cutlers' Surgical Prize** is one of the most prestigious annual awards for innovation in the design or application of surgical instruments or techniques. The prize as well as the Clarke medal are awarded by the surgical association and the president of the Royal College of Surgeons of England.



452650 A MONTGOMERY-YOUNGS **RHINOFORCE® II** **Clip Applicator**, for endonasal endoscopic sphenopalatine artery ligature, with suction channel, handle with spring, straight, with cleaning connector, working length 13 cm, for use with Titanium Clips 8665 T



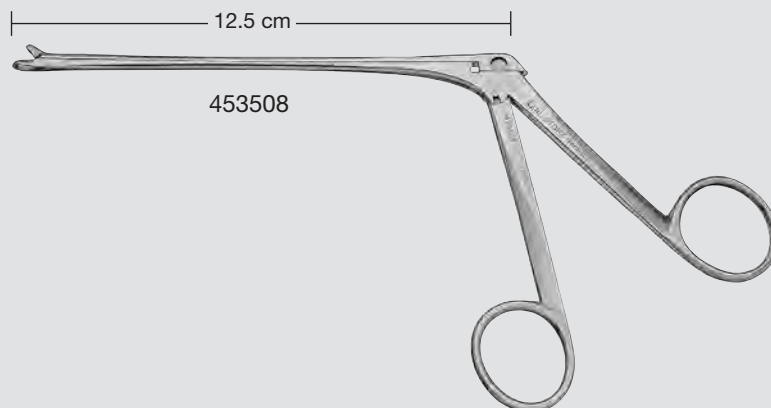
452650 C **Same**, jaws angled to the right













452650 D **Same**, jaws angled to the left

Nose

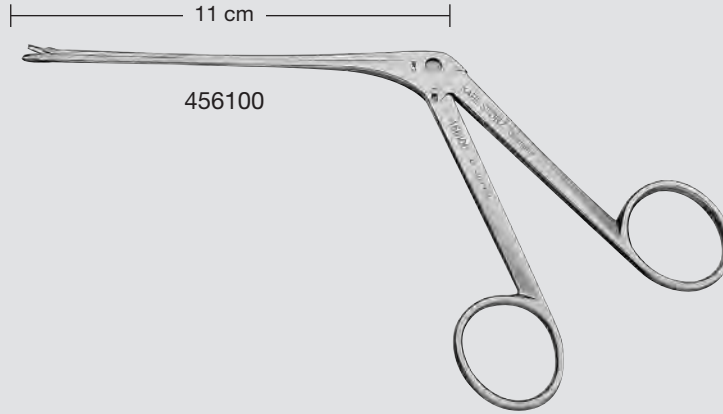
Instruments for Rhinology and Rhinoplasty



	453508	Nasal Forceps , straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
	453508 K	Same , with foreign body basket
	453710	Same , 45° upturned
	453509	Nasal Forceps , straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm
	453510	Same , robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
	453511	Same , robust model, large, bite 3 x 7.5 mm, working length 10.5 cm
	453721	Nasal Forceps , 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm
	453722	Same , robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
	453723	Same , robust model, medium size, bite 2.75 x 6 mm, working length 10.5 cm
	453724	Same , robust model, large, bite 3 x 8 mm, working length 10.5 cm

Nose

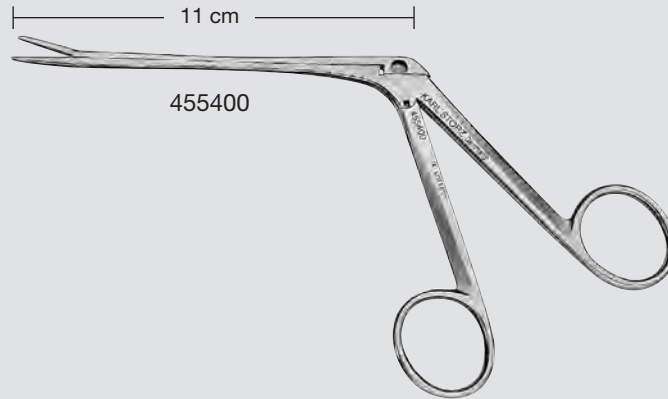
Instruments for Rhinology and Rhinoplasty



	456100	Nasal Forceps , straight, through-cutting, for a smooth cut, BLAKESLEY shape, width 2.5 mm, working length 11 cm
	456101	Same , width 3.5 mm
	456102	Same , width 4.2 mm
	456103	Same , width 4.8 mm
	456111 R	Nasal Forceps , curved to right, through-cutting, for a smooth cut, BLAKESLEY shape, width 3.5 mm, working length 11 cm
	456111 L	Same , curved to left
	456120	Nasal Forceps , 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, width 2.5 mm, working length 11 cm
	456121	Same , width 3.5 mm
	456122	Same , width 4.2 mm
	456123	Same , width 4.8 mm

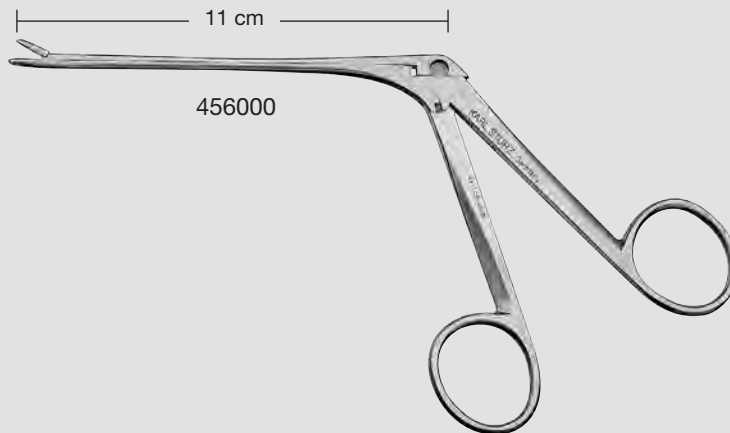
Nose

Instruments for Rhinology and Rhinoplasty



455400

NOYES-HARTMANN Nasal Forceps,
serrated jaws, working length 11 cm



456000

BLAKESLEY Nasal Forceps, straight,
size 0, working length 11 cm

456001

Same, size 1

456001 L

Same, size 1, working length 15 cm

456002

BLAKESLEY Nasal Forceps, straight,
size 2, working length 11 cm

456003

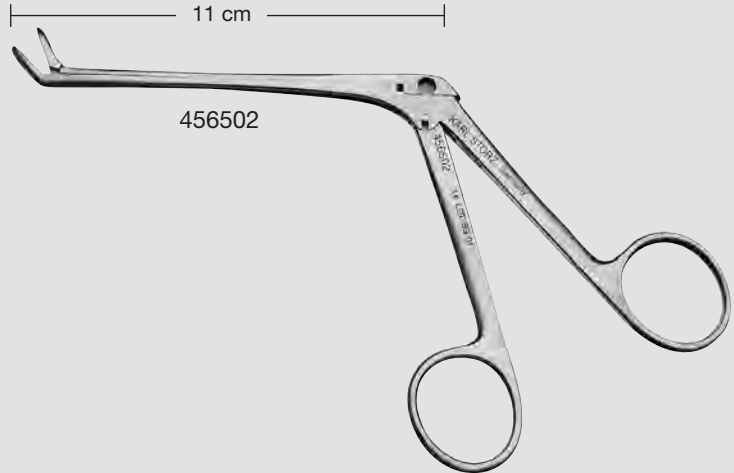
Same, size 3

456004

Same, size 4

Nose

Instruments for Rhinology and Rhinoplasty



456500

BLAKESLEY-WILDE Nasal Forceps,
45° upturned, size 0, working length 11 cm



456501

Same, size 1



456502

Same, size 2



456503

Same, size 3



456504

Same, size 4



456801

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, size 1, working length 11 cm



456802

Same, size 2



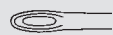
456803

Same, size 3



456811

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, slender, long jaws 3.5 x 12 mm,
working length 11 cm

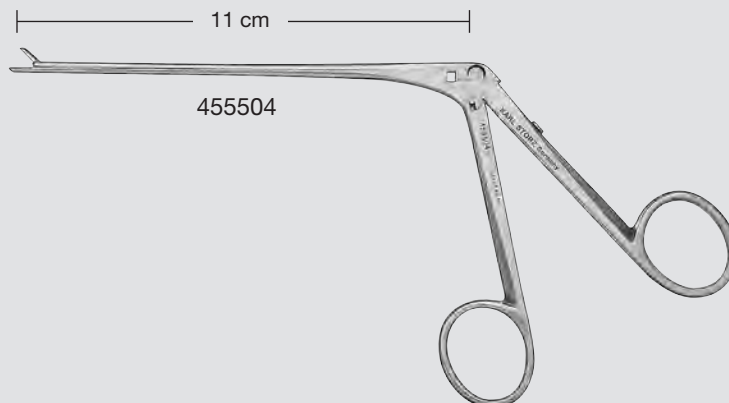


457720

BLAKESLEY-WIGAND Nasal Forceps,
60° upturned, long jaws 6 x 20 mm,
rounded tips, working length 11 cm

Nose

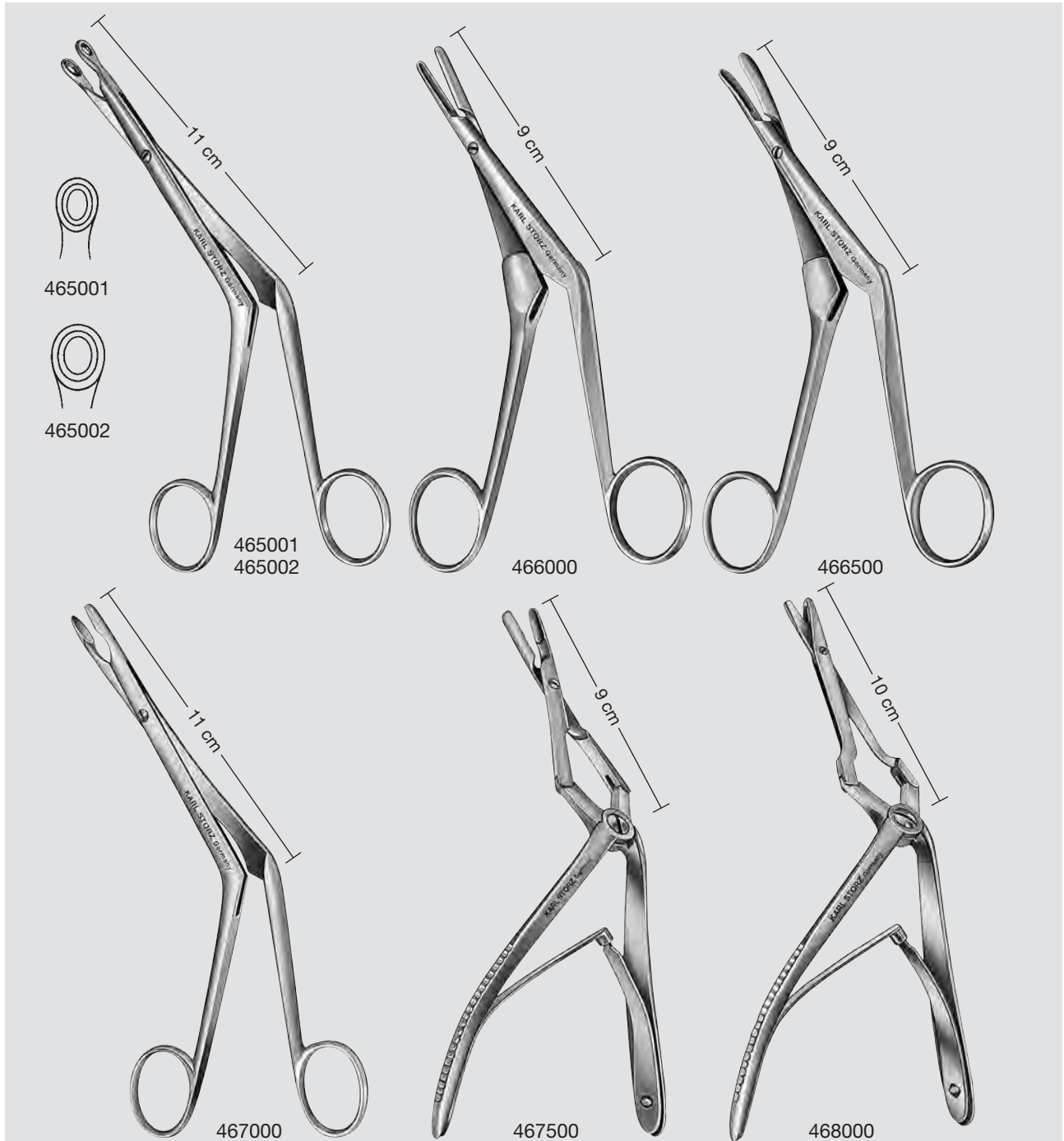
Instruments for Rhinology and Rhinoplasty



	455500	TAKAHASHI Nasal Forceps , straight, working length 9.5 cm
	455500 L	TAKAHASHI Nasal Forceps , straight, diameter 3 mm, working length 15 cm
	455504	TAKAHASHI Nasal Forceps , straight, delicate, working length 12.5 cm
	457500	WATSON-WILLIAMS Nasal Forceps , 45° upturned, working length 10 cm
	457505	WATSON-WILLIAMS Nasal Forceps , 45° upturned, delicate, oval cupped jaws, working length 12.5 cm
	457700	TAKAHASHI Nasal Forceps , 30° upturned, cupped jaws 9 x 2.5 mm, working length 10 cm
	457711	KAMEL Nasal Forceps , 45° upturned, cupped jaws 12 x 4 mm, working length 11 cm
	457712	Same , cupped jaws 20 x 4 mm
	458000	WATSON-WILLIAMS Nasal Forceps , straight, with serrated jaws, working length 11 cm
	489045	FERRIS-SMITH Nasal Forceps , serrated, working length 11 cm

Nose

Instruments for Rhinology and Rhinoplasty

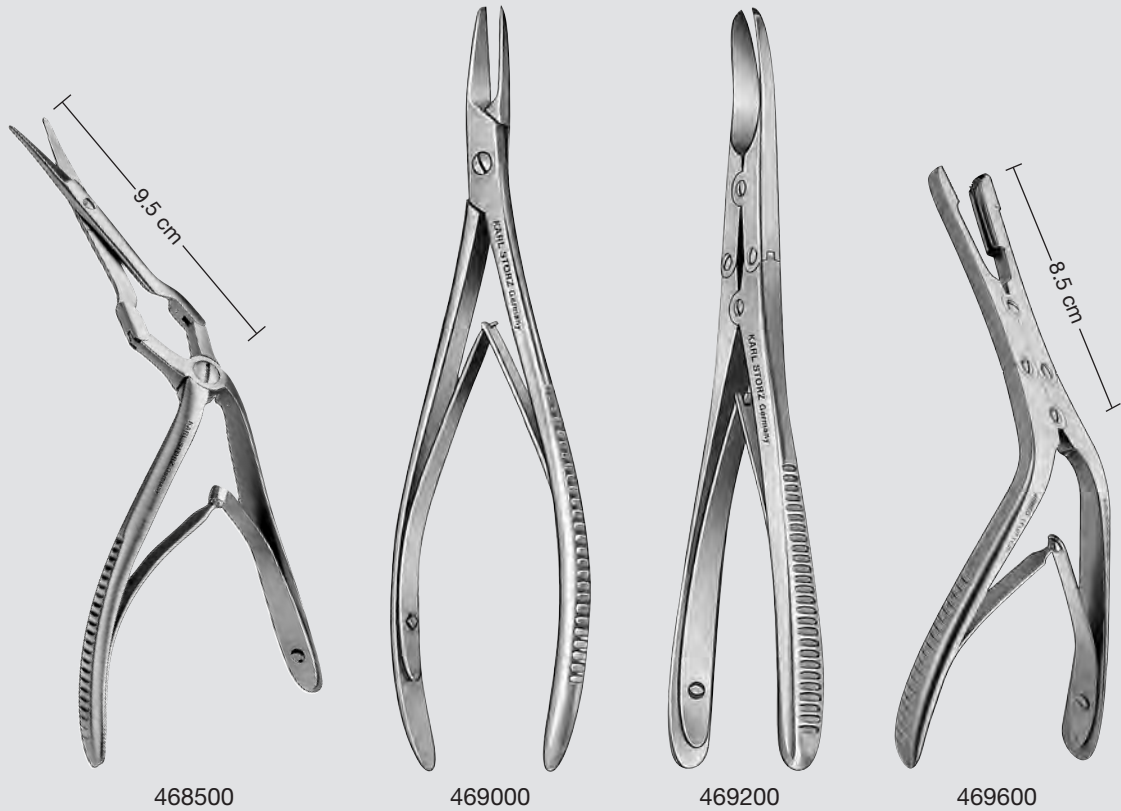


- 465001 BRÜNINGS-LUC **Septum Forceps**, size 1, working length 11 cm
- 465002 **Same**, size 2
- 466000 CRAIG **Septum Forceps**, straight, working length 9 cm
- 466500 CRAIG-DOMNICK **Septum Forceps**, curved, working length 9 cm
- 467000 HEYMANN-KNIGHT **Septum Forceps**, straight, working length 11 cm
- 467500 JANSEN **Septum Forceps**, angular, not through-cutting, working length 9 cm
- 468000 JANSEN-MIDDLETON **Septum Forceps**, angular, through-cutting, working length 10 cm

3-872

Nose

Instruments for Rhinology and Rhinoplasty



468500

469000

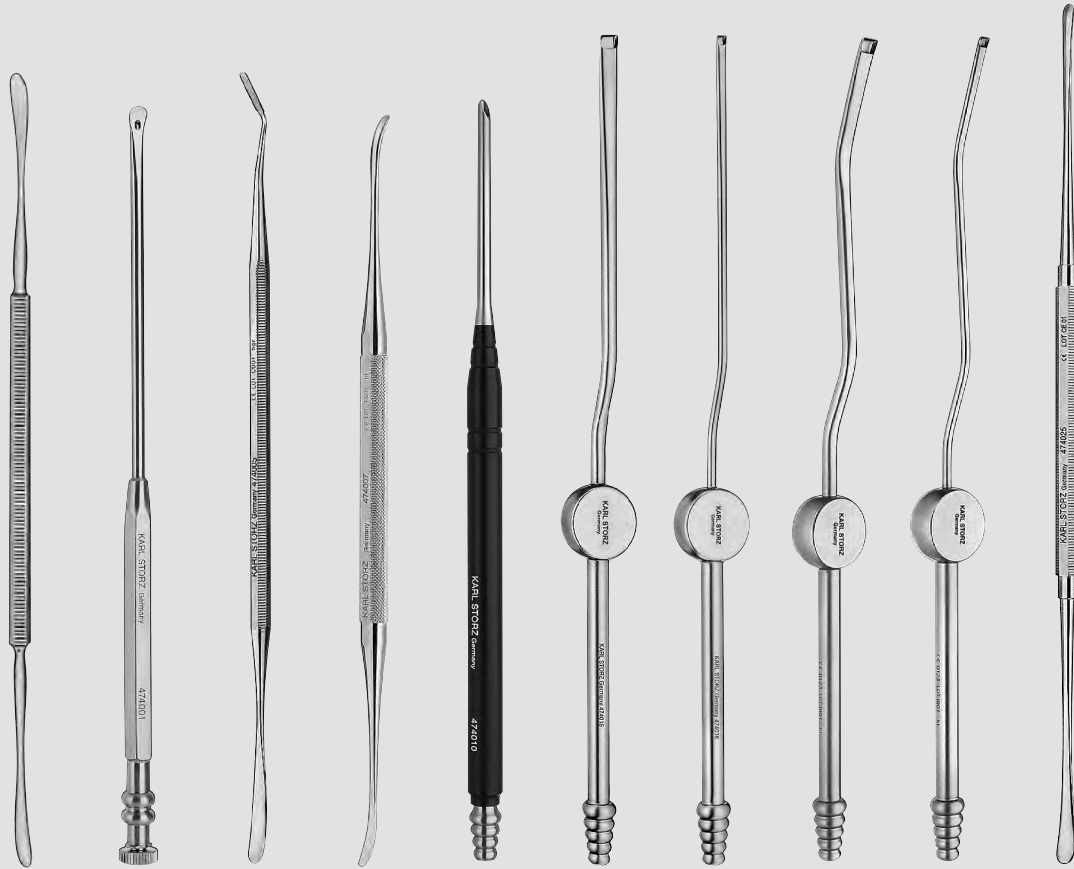
469200

469600

- 468500 BECKER-CAPLAN **Septum Scissors**, double action jaws, serrated, working length 9.5 cm
- 469000 KAZANJIAN **Forceps**, length 20 cm
- 469200 ROWLAND-MEYER **Nasal Hump Forceps**, double action jaws, curved blades, length 20 cm
- 469600 RUBIN **Septum Morcelizer**, with double joint, working length 8.5 cm

Nose

Instruments for Rhinology and Rhinoplasty



474000 474001 474005 474007 474010 474015 474016 474017 474018 474025

- 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- 474001 **FREER Suction Elevator**, with stylet, length 19 cm
- 474005 **FREER-JACOBS Elevator**, double-ended, semisharp, one side slightly curved FREER elevator, width 5 mm, other side JACOBS elevator, angled 45°, width 2.5 mm, length 20 cm, for infundibulotomy
- 474007 **FREER-YASARGIL Elevator**, double-ended, length 18.5 cm
- 474010 **HARALDSSON Suction Elevator**, with rotatable tube olive, length 19 cm
- 474015 **CASTELNUOVO Suction Elevator**, flat tip, 5 x 1.8 mm, lateral suction opening, bayonet-shaped, with grip plate, length 21 cm
- 474016 **Same**, flat tip 3 x 1.8 mm
- NEW** 474017 **CASTELNUOVO Suction Elevator**, flat tip 5 x 1.8 mm, lateral suction opening, bayonet-shaped, distal end curved, with grip plate, length 21 cm
- NEW** 474018 **Same**, 3 x 1.8 mm
- 474025 **Elevator**, double-ended, both sides sharp, length 22 cm

Nose

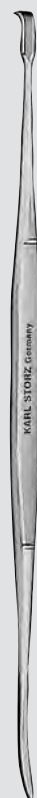
Instruments for Rhinology and Rhinoplasty



474200



474205



474210

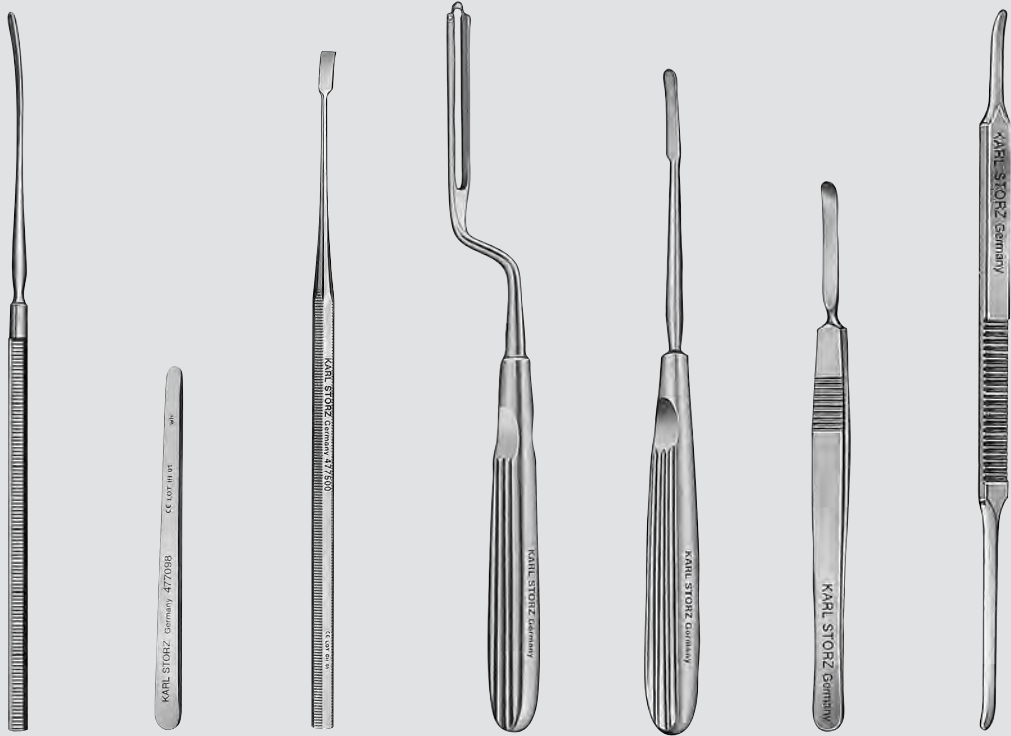


474519

- 474200 FREER-JOSEPH **Elevator**, double-ended, slender, semisharp and sharp, length 20 cm
- 474205 FREER-WEBER **Elevator**, double-ended, one side slightly curved FREER elevator, semisharp, other side strongly curved, sharp, length 19 cm
- 474210 HOWARTH **Elevator**, double-ended, sharp and blunt, length 21 cm
- 474519 KILLIAN **Elevator**, double-ended, standard model, sharp and blunt, length 19 cm

Nose

Instruments for Rhinology and Rhinoplasty

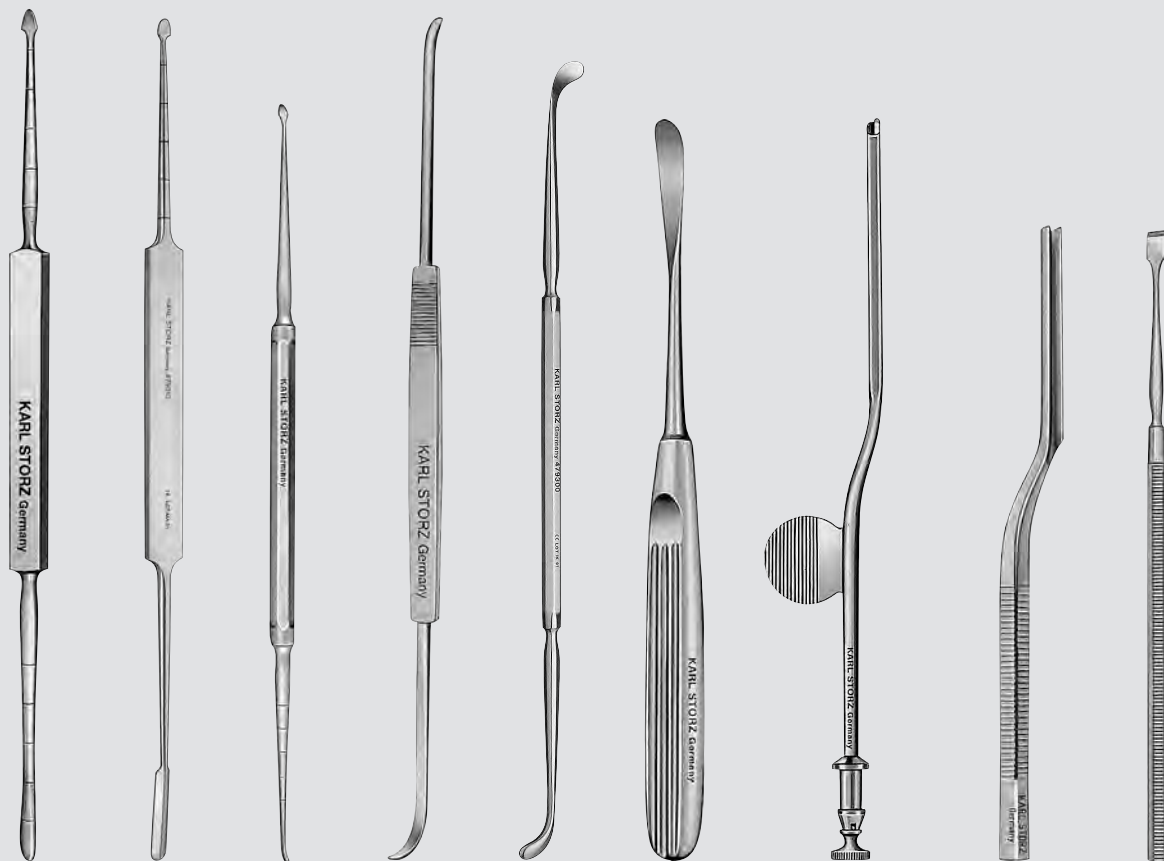


477004 477098 477500 477703
477704 478000 478303 –
478305 478400

- 477004 HALLE **Elevator**, blunt, width 4 mm, length 19 cm
- 477098 **Ala Dilator**, for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm
- 477500 FREER **Raspatory**, curved, width 4 mm, length 18 cm
- 477703 BALLENGER **Swivel Knife**, bayonet-shaped, width 3 mm, length 19.5 cm
- 477704 **Same**, width 4 mm
- 478000 JOSEPH **Raspatory**, slightly curved, length 17.5 cm
- 478303 McKENTY **Raspatory**, width 3 mm, length 14.5 cm
- 478304 **Same**, width 4 mm
- 478305 **Same**, width 5 mm
- 478400 McKENTY **Elevator**, double-ended, width 4.5 and 5 mm, length 19 cm

Nose

Instruments for Rhinology and Rhinoplasty



479000 479010 479100 479200 479300 479408 479800 480000 480800

- 479000 **MASING Elevator**, double-ended, graduated, sharp and blunt, length 22.5 cm
- NEW** 479010 **FULEIHAN Elevator**, double-ended, one end JOSEPH elevator, other end sharp, graduated, length 22.5 cm
- 479100 **COTTLE Elevator**, double-ended, semisharp and blunt, graduated, length 20 cm
- 479200 **COTTLE Raspatory**, double-ended, for tunneling, length 22.5 cm
- 479300 **PENNINGTON Elevator**, double-ended, curved to the right and left, length 21 cm
- 479408 **COTTLE Raspatory**, slightly curved, width 8 mm, length 19.5 cm
- 479800 **Suction Raspatory**, with stylet, length 19.5 cm
- 480000 **KILLIAN-CLAUS Septum Chisel**, V-shaped cutting edge, length 16.5 cm
- 480800 **FREER Septum Chisel**, straight, length 16.5 cm

Nose

Instruments for Rhinology and Rhinoplasty

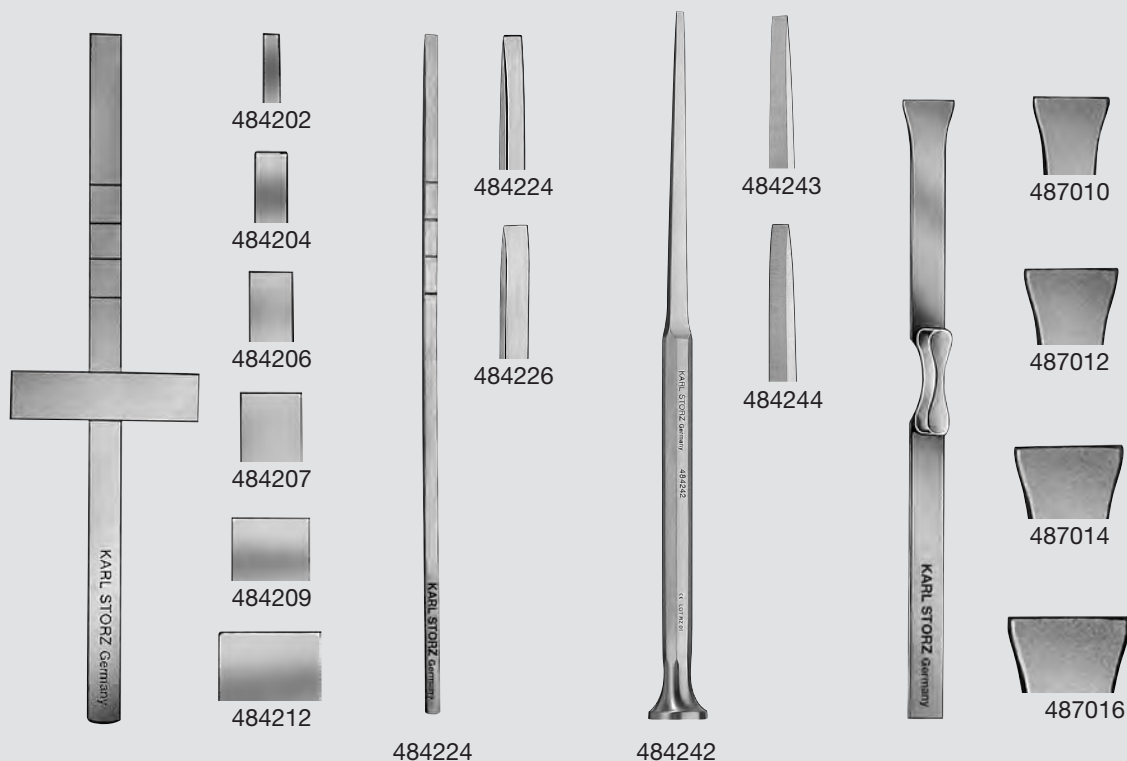


- 174200 COTTLE **Metal Mallet**, length 18 cm
- 174420 **Metal Mallet**, small model, diameter 20 mm, length 19.5 cm
- 174426 **Metal Mallet**, medium model, diameter 26 mm, length 19.5 cm
- 174430 **Metal Mallet**, large model, diameter 30 mm, length 19.5 cm
- 174700 **Metal Mallet**, with plastic replacement head, small, lightweight model, length 18 cm
- 174800 **Metal Mallet**, with plastic replacement head, length 22.5 cm
- 484003 COTTLE **Chisel**, flat, graduated, straight, width 3 mm, length 18.5 cm
- 484004 **Same**, width 4 mm
- 484006 **Same**, width 6 mm
- 484007 **Same**, width 7 mm
- 484009 **Same**, width 9 mm
- 484012 **Same**, width 12 mm
- 484106 COTTLE **Chisel**, flat, graduated, curved, width 6 mm, length 18.5 cm

Components/Spare Parts see chapter 16

Nose

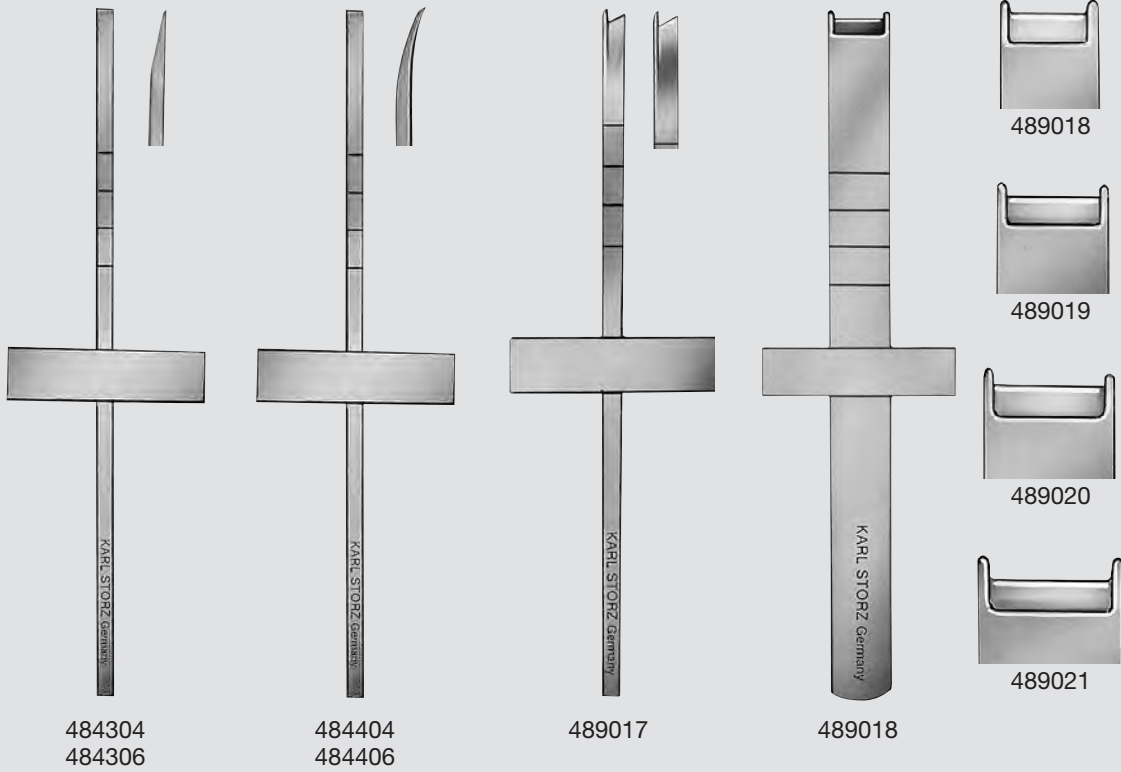
Instruments for Rhinology and Rhinoplasty



- 484202 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, straight, width 2 mm, length 18.5 cm
- 484204 **Same**, width 4 mm
- 484206 **Same**, width 6 mm
- 484207 **Same**, width 7 mm
- 484209 **Same**, width 9 mm
- 484212 **Same**, width 12 mm
- 484224 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, straight, width 4 mm, length 18.5 cm
- 484226 **Same**, width 6 mm
- NEW** 484242 **Osteotome**, straight, double-edged grinding, width 2 mm, length 19 cm
- NEW** 484243 **Same**, width 3 mm
- NEW** 484244 **Same**, width 4 mm
- 487010 RUBIN **Osteotome**, flat, straight, double-edged grinding, rounded corners, with finger grip stabilizer, width of cut 10 mm, length 16.5 cm
- 487012 **Same**, width 12 mm
- 487014 **Same**, width 14 mm
- 487016 **Same**, width 16 mm

Nose

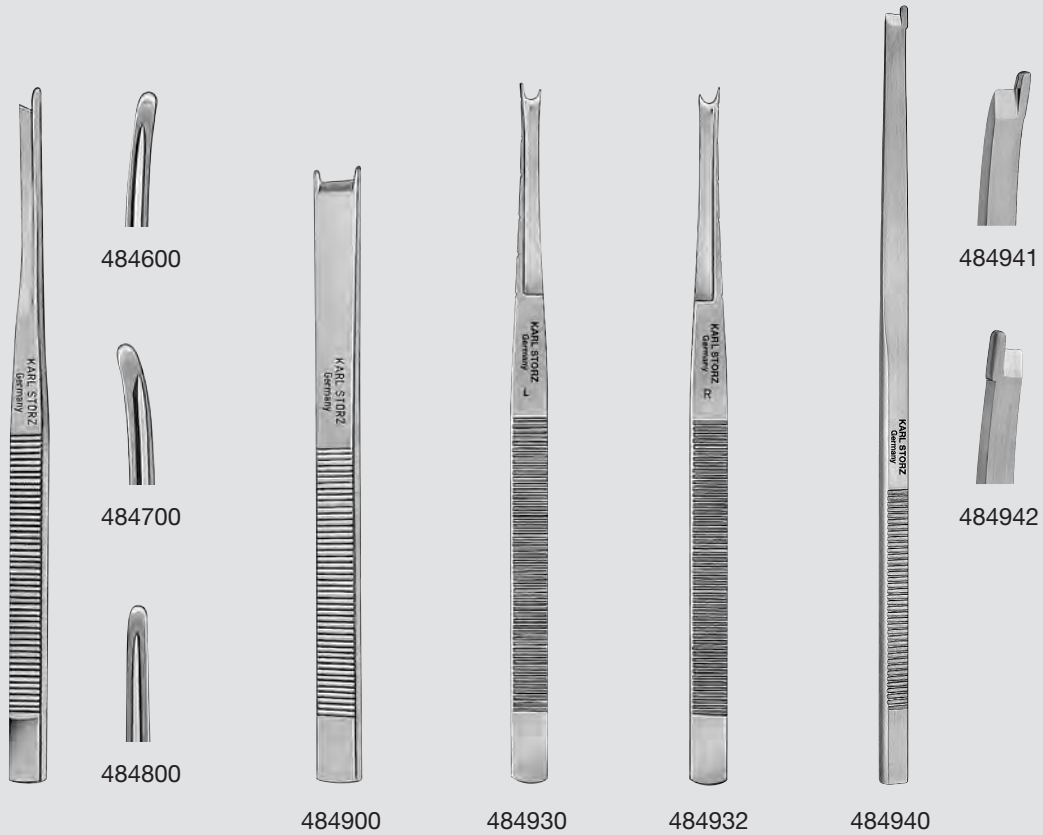
Instruments for Rhinology and Rhinoplasty



- 484304 COTTLE **Crossbar Chisel**, graduated, single-edged grinding, straight, width 4 mm, length 18.5 cm
- 484306 **Same**, width 6 mm
- 484404 COTTLE **Crossbar Chisel**, graduated, single-edged grinding, curved, width 4 mm, length 18.5 cm
- 484406 **Same**, width 6 mm
- 489017 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, with guard, width 5 mm, length 18.5 cm
- 489018 COTTLE **Crossbar Osteotome**, graduated, double-edged grinding, double-guarded, width of cut 10 mm, length 18.5 cm
- 489019 **Same**, width of cut 12 mm
- 489020 **Same**, width of cut 14 mm
- 489021 **Same**, width of cut 16 mm

Nose

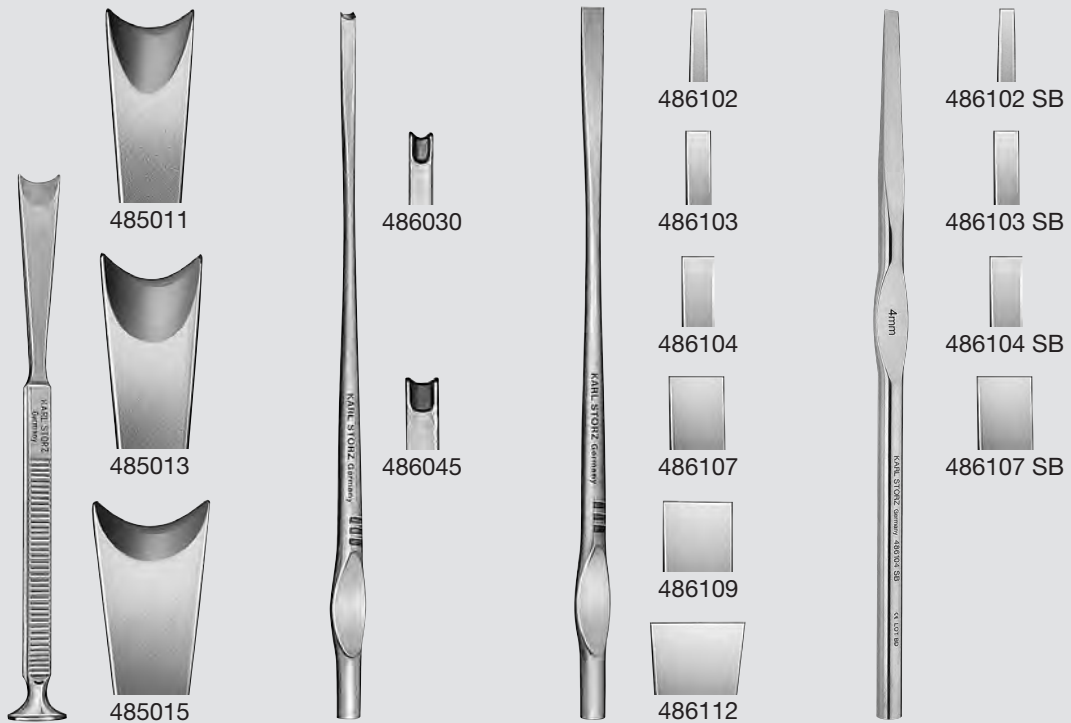
Instruments for Rhinology and Rhinoplasty



- 484600 **MASING Chisel**, slightly curved, with rounded guard right side, length 18 cm
- 484700 **Same**, on left
- 484800 **Same**, straight
- 484900 **MASING Chisel**, straight, double-guarded, width of cut 10 mm, length 16 cm
- 484930 **GUASTELLA-EY Osteotome**, graduated, slightly curved, lateral guard left, length 18 cm
- 484932 **Same**, guard right
- 484940 **Osteotome**, with small guard, straight, length 20 cm
- 484941 **Same**, right
- 484942 **Same**, left

Nose

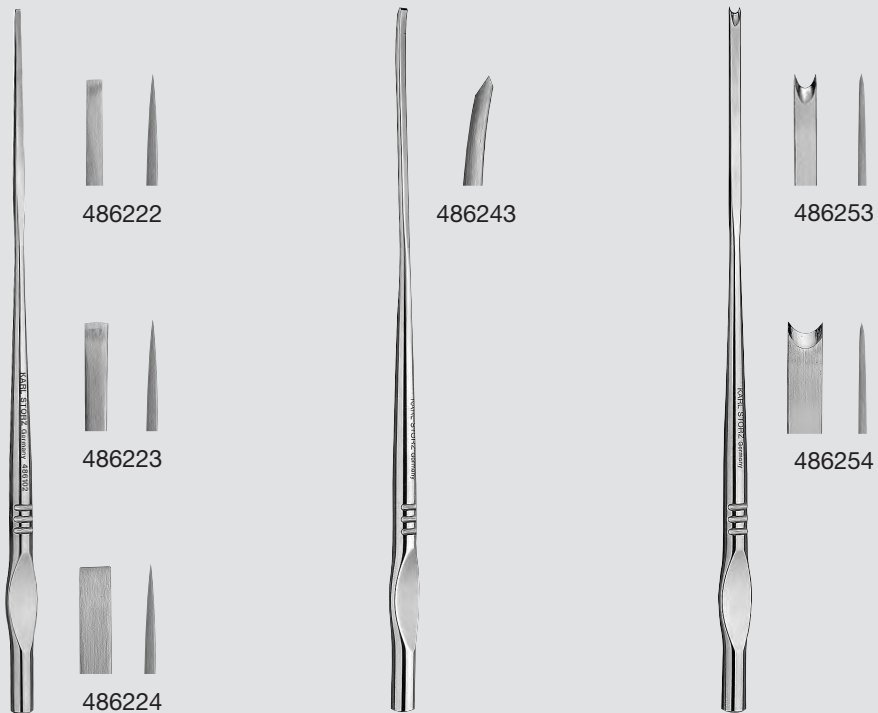
Instruments for Rhinology and Rhinoplasty



- 485011 McINDOE **Chisel**, hollow, width 11 mm, length 14.5 cm
- 485013 **Same**, width 13 mm
- 485015 **Same**, width 15 mm
- 486030 WALTER **Gouge**, hollow, width 3 mm, length 19 cm
- 486045 **Same**, width 4.5 mm
- 486102 WALTER **Osteotome**, flat, double-edged grinding, width 2 mm, length 19 cm
- 486103 **Same**, width 3 mm
- 486104 **Same**, width 4 mm
- 486107 **Same**, width 7 mm
- 486109 **Same**, width 9 mm
- 486112 **Same**, width 12 mm
- 486102 SB **Osteotome**, flat, double-edged grinding, with enlarged distal finger grip plate, width 2 mm, length 19 cm
- 486103 SB **Same**, width 3 mm
- 486104 SB **Same**, width 4 mm
- 486107 SB **Same**, width 7 mm

Nose

Instruments for Rhinology and Rhinoplasty



- 486222 BEHRBOHM-WALTER **Micro Osteotome**, extra delicate, long flat blade, double-edged grinding, with round handle and finger grip plate, width 2 mm, length 19 cm
- 486223 **Same**, width 3 mm
- 486224 **Same**, width 4 mm
- 486243 BEHRBOHM-WALTER **Micro Osteotome**, curved, extra delicate, with special double cut, with round handle and finger grip plate, width 3 mm, length 19 cm
- 486253 BEHRBOHM-WALTER **Double Concave Hollow Osteotome**, extra delicate, with special double-edged grinding, double-guarded, with round handle and finger grip plate, width 3 mm, length 19 cm
- 486254 **Same**, width 4.5 mm

Nose

Instruments for Rhinology and Rhinoplasty



492900



493000



494500



496800
496801

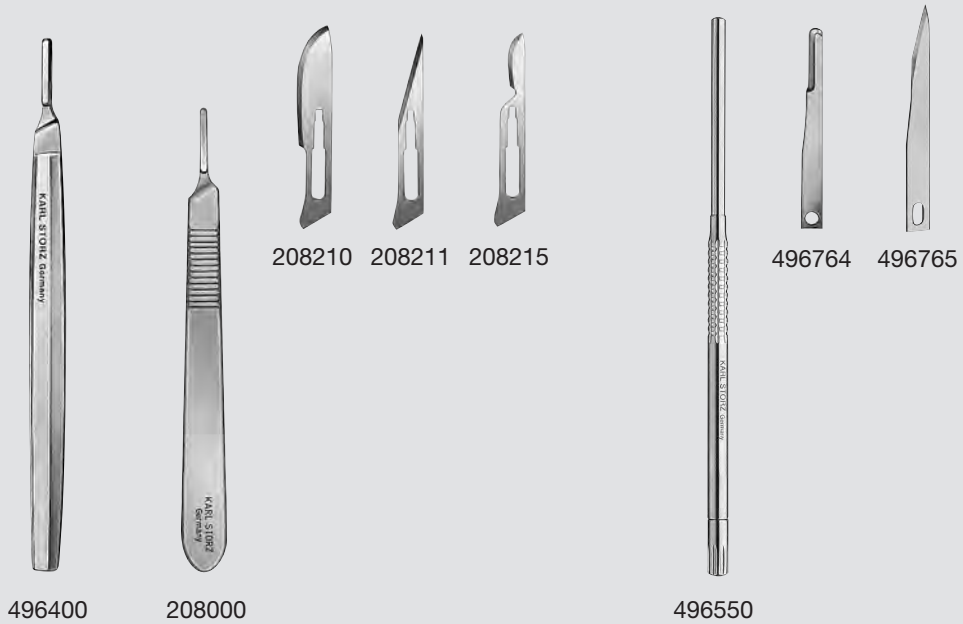


496900

- 492900 **FREER Nasal Knife**, rounded edge, length 16.5 cm
- 493000 **COTTLE Nasal Knife**, rounded edge, length 14 cm
- 494500 **JOSEPH Knife**, curved, backward cutting, double beveled, length 15 cm
- 496800 **Nasal Knife**, curved, roundly tipped blade, width 4.5 mm, length 13.5 cm
- 496801 **Same**, straight
- 496900 **MASING Nasal Knife**, curved, roundly tipped blade, length 14 cm

Nose

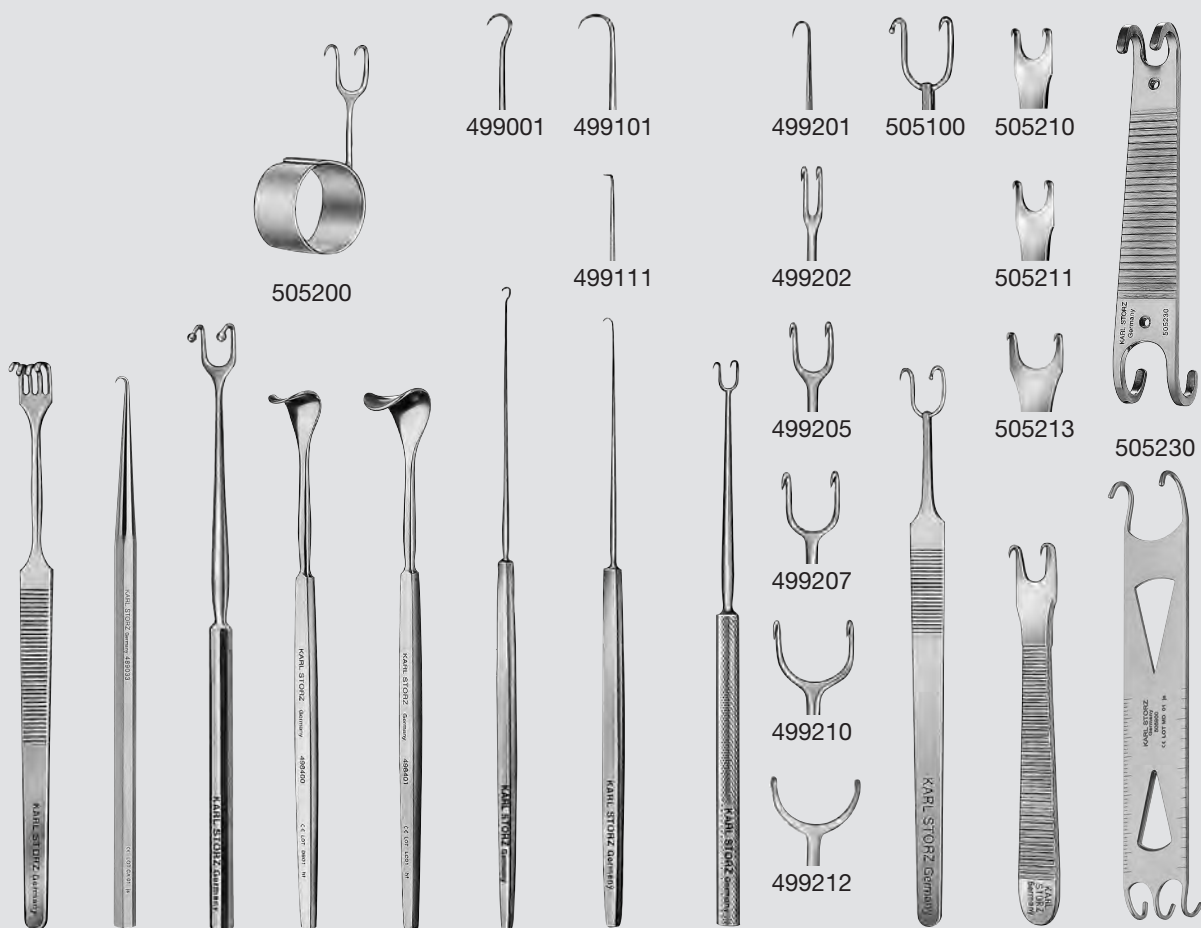
Instruments for Rhinology and Rhinoplasty



- 496400 **MASING Surgical Handle**, length 14 cm,
for Blades 208010 – 15, 208210 – 15
- 208000 **Surgical Handle**, Fig. 3, length 12.5 cm,
for Blades 208010 – 15, 208210 – 15
- 208210 **Blade**, Fig. 10, sterile, package of 100
- 208211 **Same**, Fig. 11
- 208215 **Same**, Fig. 15
- NEW** 496550 **Surgical Handle**, for miniature blades, round,
length 16.5 cm, for Blades 496764 – 65
- 496764 **Miniature Blade**, Fig. 64, round, sterile,
package of 25
- 496765 **Same**, Fig. 65, pointed

Nose

Instruments for Rhinology and Rhinoplasty



489028	489033	498000	498400	498401	499001 499111	499101	499201 – 499212	505000	505100	505210 – 505213	505900
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- 489028 COTTLE **Retractor**, with 4 prongs, blunt, length 15 cm
- 489033 **Hook**, single, robust version, curved 180°, length 14 cm
- 498000 JOSEPH **Retractor**, length 15.5 cm
- 498400 COTTLE **Retractor**, narrow (standard model), length 14 cm
- 498401 COTTLE **Retractor**, wide, length 14 cm
- 499001 KILNER-GILLIES **Hook**, one prong, small curve, length 17 cm
- 499101 **Hook**, one prong, large curve, length 16.5 cm
- 499111 **Hook**, one prong, angled 90°, length 16.5 cm
- 499201 JOSEPH **Hook**, one prong, sharp, large curve, length 15 cm
- 499202 JOSEPH **Double Hook**, sharp, width 2 mm, length 15 cm
- 499205 **Same**, width 5 mm
- 499207 **Same**, width 7 mm
- 499210 **Same**, width 10 mm
- 499212 **Same**, small curve, width 12 mm

- 505000 COTTLE **Retractor**, two prongs, sharp prong on left, blunt prong on right, width 10 mm, length 14.5 cm
- 505100 **Same**, sharp prong on right, blunt prong on left
- 505200 COTTLE **Retractor**, two prongs, sharp, with thimble, width 10 mm, length 5.5 cm
- 505210 KILNER **Ala Retractor**, two prongs, sharp, width 10 mm, length 8.5 cm
- 505211 **Same**, blunt
- 505213 KILNER **Ala Retractor**, two prongs, sharp, width 13 mm, length 8.5 cm
- 505230 HARALDSSON **Double Hook**, two prongs, blunt, width 10 and 14 mm, length 8 cm
- 505900 FULEIHAN **Double Retractor**, two and three prongs, blunt, with cut-outs for cartilage treatment and scales, length 10 cm

Nose

Instruments for Rhinology and Rhinoplasty

505600 505610 505700 505800 505806 506000 506010 506020

506400 506496

40 mm 40 mm 45 mm 53 mm 45 mm

3-99s

Components/Spare Parts see chapter 16

- 505600 SENN **Retractor**, double-ended, blunt, length 15 cm
- 505610 SENN-MÜLLER **Retractor**, double-ended, one side with 3 sharp prongs, other side with blunt blade, length 16 cm
- 505700 COTTLE **Knife Guide and Retractor**, one side with two-pronged nostril retractor, other side with flat retractor, with duct for guide of cut, length 19 cm
- 505800 NEIVERT **Knife Guide and Retractor**, made of wire, one side with nostril retractor, other side with flat retractor, length 18 cm
- 505806 RETTINGER-NEIVERT **Knife Guide and Retractor**, made of wire, one side with nostril retractor, width 17 mm, other side with flat retractor, with duct for guide of cut, length 18 cm
- 506000 WALTER **Nasal Retractor**, double-ended, one side with retractor, width of retractor blade 12 mm, length of retractor blade 45 mm, other side with two pronged retractor for nasal wings, length 12.5 cm
- 506010 FULEIHAN **Nasal Retractor**, blade oval fenestrated, width of retractor blade 12 mm, length of retractor blade 53 mm, length 10 cm
- 506020 RETTINGER **Nasal Retractor**, width of retractor blade 11.5 mm, length of retractor blade 45 mm, with flat handle, length 10 cm
- 506400 AUFRICHT **Nasal Retractor**, width of retractor blade 8 mm, length of retractor blade 40 mm, length 16.5 cm
- 506496 **Same**, with fiber optic light carrier

Nose

Instruments for Rhinology and Rhinoplasty

“The Diamond Standard®” Scissors

Special Features:

- Good cutting quality
- Razor-sharp lower blade ensures easy and efficient cutting
- Color code: one gold-plated handle ring
- Some models are available with tungsten carbide inserts, color code: one black handle ring, one gold-plated handle ring

Scissors with titanium nitride coating

Special Features:

- More durable surface
- Color code: copper
- Some models are available with tungsten carbide inserts



- 449002 DS HEYMANN **Nasal Scissors**, medium (standard model), working length 9.5 cm, color code: one gold-plated handle ring
- 511010 DS **Scissors**, extra delicate, straight, sharp/sharp, length 10.5 cm, color code: one gold-plated handle ring
- 511010 DST **Same**, with titanium nitride coating, color code: copper
- 511210 DS **Scissors**, extra delicate, curved, sharp/sharp, length 10.5 cm, color code: one gold-plated handle ring
- 511210 DST **Same**, with titanium nitride coating, color code: copper

- 511414 DS JOSEPH **Scissors**, curved, length 14 cm, color code: one gold-plated handle ring
- 511414 DST **Same**, with titanium nitride coating, color code: copper
- 511514 DS METZENBAUM **Scissors**, curved, length 14.5 cm, color code: one gold-plated handle ring
- 511514 DST **Same**, with titanium nitride coating, color code: copper
- 511812 DST KILNER **Scissors**, with tungsten carbide inserts, curved, flat end, with titanium nitride coating, length 12.5 cm, color code: copper

Nose

Instruments for Rhinology and Rhinoplasty

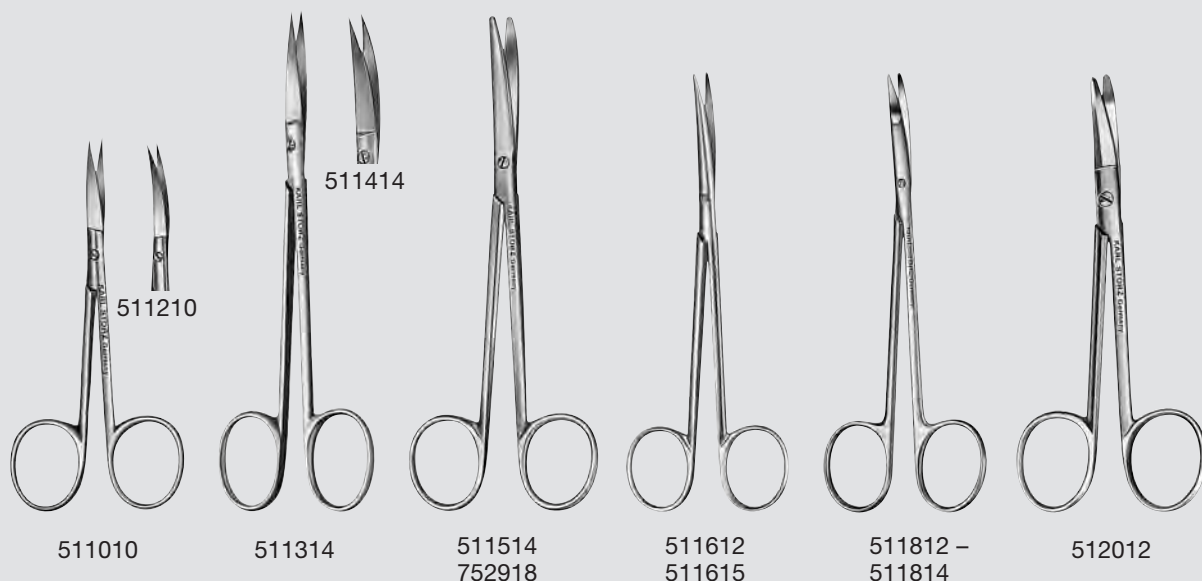


- 512310 DS **Scissors**, with tungsten carbide inserts, straight, sharp/sharp, length 11.5 cm, color code: one black handle ring, one gold-plated handle ring
- 512311 DS **Same**, curved
- 512311 DST **Same**, curved, with titanium nitride coating, color code: copper
- 512511 DS **Scissors**, with tungsten carbide inserts, curved, blunt/blunt, extra fine, length 11 cm, color code: one black handle ring, one gold-plated handle ring
- 512614 DS **METZENBAUM Scissors**, with tungsten carbide inserts, curved, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring
- 512614 DST **Same**, with titanium nitride coating, color code: copper
- 512618 DS **METZENBAUM Scissors**, with tungsten carbide inserts, curved, length 18 cm, color code: one black handle ring, one gold-plated handle ring
- 512618 DST **Same**, with titanium nitride coating, color code: copper

- 512718 DS **METZENBAUM Scissors**, robust, with tungsten carbide inserts, curved, length 18 cm, color code: one black handle ring, one gold-plated handle ring
- 513200 DS **WALTER Angular Scissors**, length 10 cm, color code: one gold-plated handle ring
- 513200 DST **Same**, with titanium nitride coating, color code: copper
- 513410 DS **COTTLE Scissors**, curved, length 10.5 cm, color code: one gold-plated handle ring
- 513410 DST **Same**, with titanium nitride coating, color code: copper
- 513512 DS **Scissors**, sharp/sharp, length 12 cm, color code: one gold-plated handle ring
- 513700 DS **FOMON Scissors**, curved surface, slender, working length 6.5 cm, color code: one gold-plated handle ring

Nose

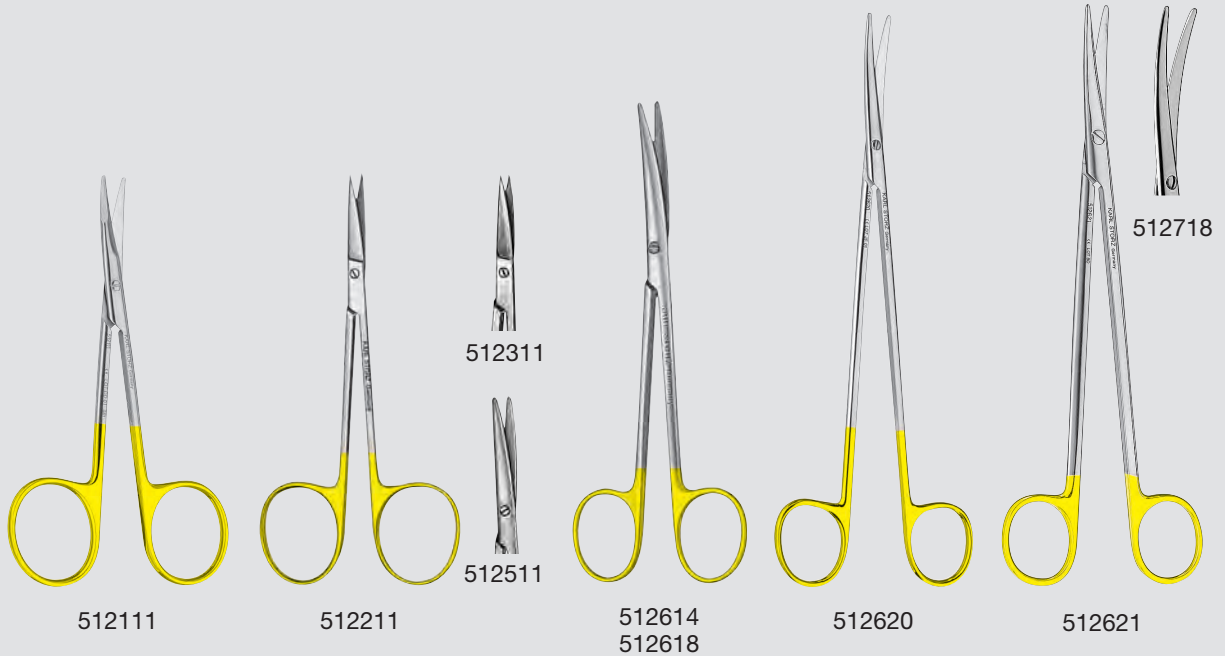
Instruments for Rhinology and Rhinoplasty



- | | |
|--------|--|
| 511010 | Scissors , extra delicate, straight, length 10 cm |
| 511210 | Same , curved |
| 511314 | JOSEPH Scissors , straight, length 14 cm |
| 511414 | Same , curved |
| 511514 | METZENBAUM Scissors , curved, length 14 cm |
| 752918 | Same , length 18 cm |
| 511612 | METZENBAUM-LAHEY Scissors , curved, extra slender, length 12 cm |
| 511615 | Same , length 15 cm |
| 511812 | KILNER Scissors , curved, flat end, length 12.5 cm |
| 511814 | Same , length 14 cm |
| 512012 | FOMON Scissors , curved, length 12 cm |

Nose

Instruments for Rhinology and Rhinoplasty

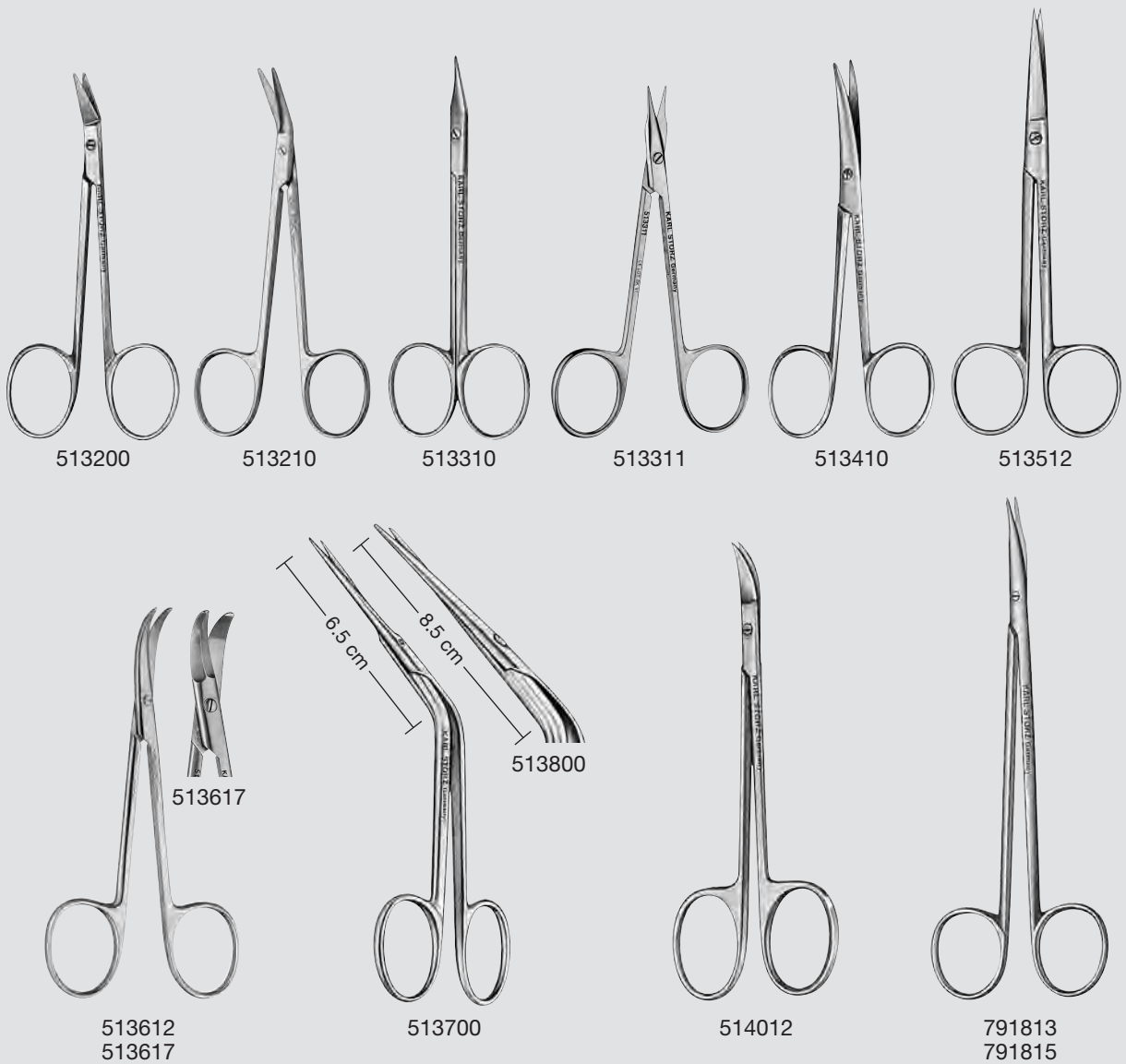


- 512111 **Scissors**, with tungsten carbide inserts, blunt/blunt, curved, double-edged grinding, semisharp outer edge for dissection, length 11.5 cm
- 512211 **Scissors**, with tungsten carbide inserts, straight, sharp/sharp, length 11 cm
- 512311 **Same**, curved
- 512511 **Same**, blunt/blunt, curved
- 512614 METZENBAUM **Scissors**, with tungsten carbide inserts, curved, length 14 cm
- 512618 **Same**, length 18 cm
- 512620 METZENBAUM **Scissors**, delicate, with tungsten carbide inserts, curved, length 20 cm
- 512621 **Same**, robust model
- 512718 METZENBAUM **Scissors**, with tungsten carbide inserts, curved, robust model, length 18 cm

3-07₂

Nose

Instruments for Rhinology and Rhinoplasty

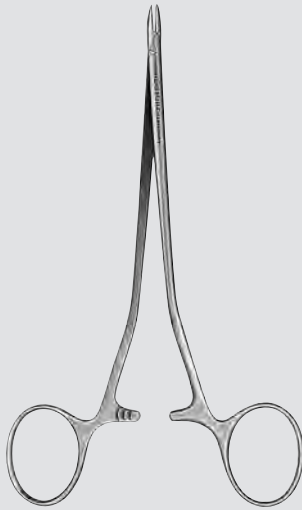


- 513200 **WALTER Scissors**, angled, length 10 cm
- 513210 **Scissors**, angled, blunt, length 10 cm
- 513310 **STEVENS Scissors**, curved, length 10.5 cm
- 513311 **Same**, straight
- 513410 **COTTLE Scissors**, curved, length 10.5 cm
- 513512 **Scissors**, straight, length 12 cm
- 513612 **FOMON Lower Lateral Scissors**, strongly curved, length 12 cm
- 513617 **Same**, length 17 cm

- 513700 **FOMON Dorsal Scissors**, angular, serrated blades, slender, working length 6.5 cm
- 513800 **COTTLE Dorsal Scissors**, angular, serrated blades, robust, working length 8.5 cm
- 514012 **CHADWICK Scissors**, curved, length 12.5 cm
- 791813 **REYNOLDS Scissors**, curved, delicate tips, length 13 cm
- 791815 **Same**, length 15 cm

Nose

Instruments for Rhinology and Rhinoplasty



515017



515217



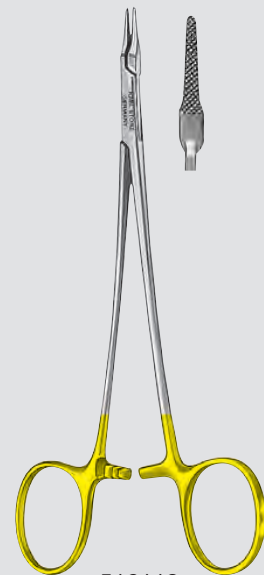
515515



516012



516013
516015



516113
516117

515017 **Needle Holder**, extra delicate, slight spring action, length 17 cm

515217 **Needle Holder**, intranasal, angled 30°, tungsten carbide inserts, length 17 cm

515515 **CRILE-WOOD Needle Holder**, length 15 cm

516012

HALSEY Needle Holder, tungsten carbide inserts, length 12 cm

516013

Needle Holder, tungsten carbide inserts, length 13 cm

516015

Same, length 15 cm

516113

RYDER Needle Holder, tungsten carbide inserts, extra delicate, length 13 cm

516115

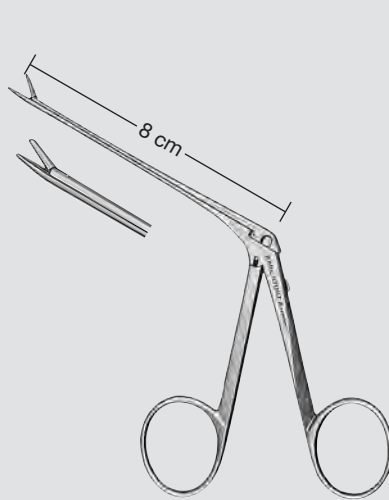
Same, length 15 cm

516117

Same, length 17 cm

Nose

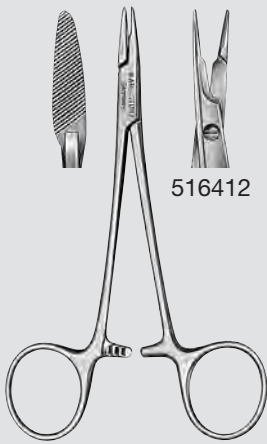
Instruments for Rhinology and Rhinoplasty



517000



517200



516513



517500



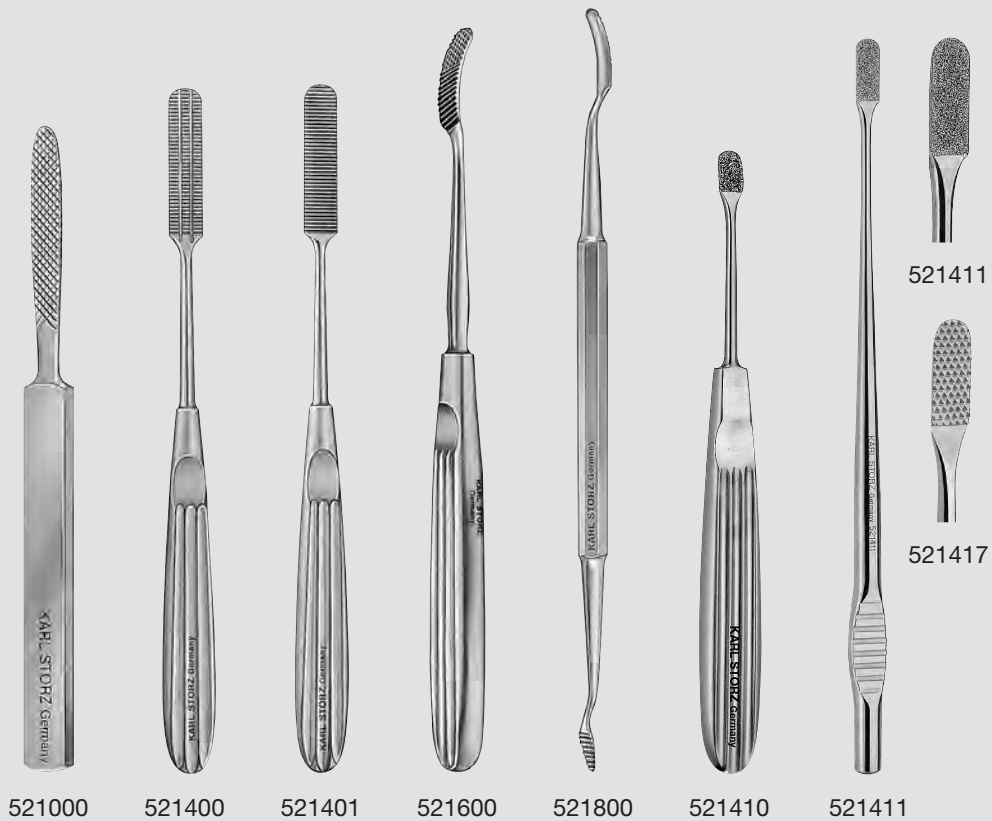
799016

- 516412 **OLSEN-HEGAR Needle Holder and Scissors**, tungsten carbide inserts, delicate, length 12 cm
- 516513 **NEIVERT-MASING Needle Holder**, thumb ring upturned, one jaw with groove, length 13 cm
- 517000 **MASING Needle Holder**, ear forceps shape, intranasal, smooth jaws, working length 8 cm

- 517200 **Needle Holder**, intranasal, handle angled 30°, tungsten carbide inserts, working length 12.5 cm
- 517500 **Wire Twister Ligature Forceps**, with tungsten carbide inserts, length 15 cm
- 799016 **DRAF Micro Needle Holder**, extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm

Nose

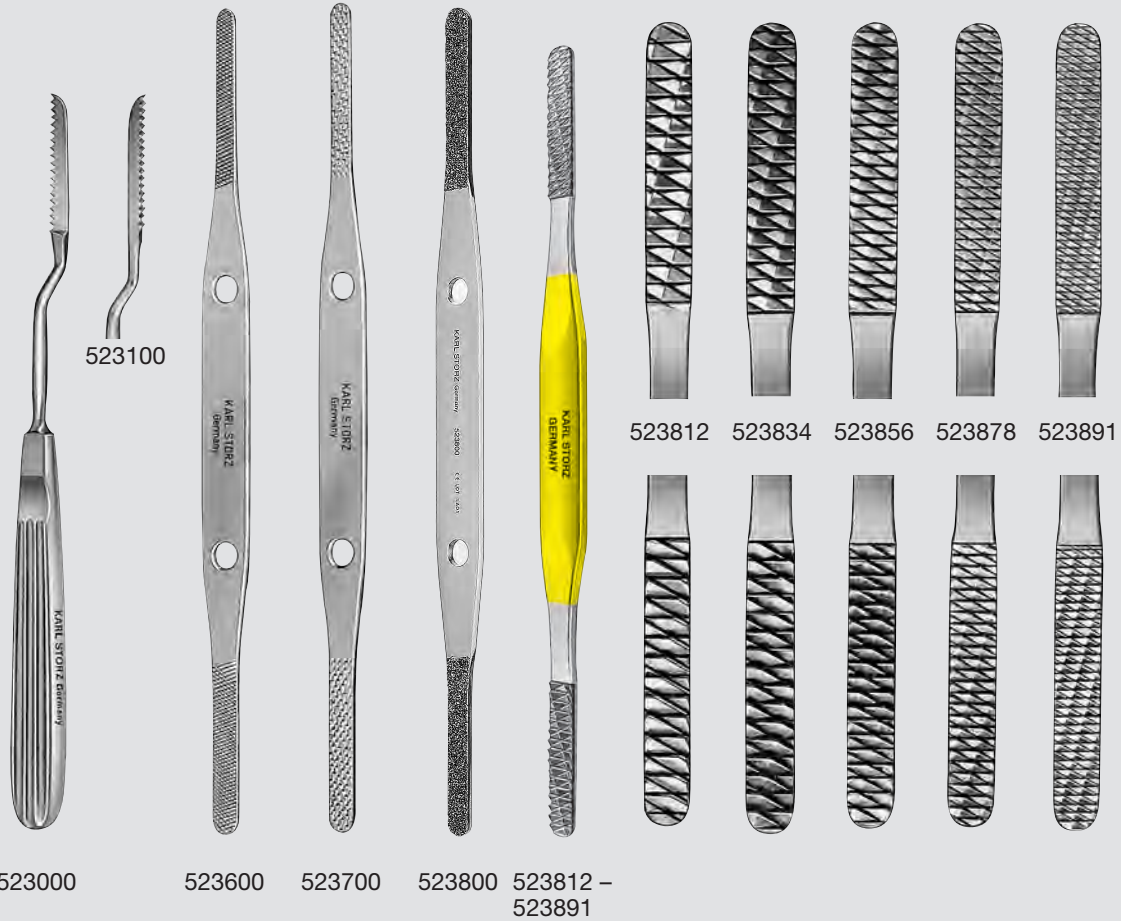
Instruments for Rhinology and Rhinoplasty



- 521000 JOSEPH **Nasal Rasp**, length 17 cm
- 521400 MALTZ **Nasal Rasp**, coarse teeth, cuts with traction, with two grooves, length 18.5 cm
- 521401 **Same**, without grooves
- 521600 AUFRICHT **Glabella Rasp**, curved, cuts with pressure and traction, length 20 cm
- 521800 **Glabella Rasp**, double-ended, cuts with traction, length 20.5 cm
- 521410 RAUNIG **Rasp**, diamond coated, rasp blade 6 x 10 mm, length 16.5 cm
- 521411 BEHRBOHM **Rasp**, diamond coated, rasp blade 6 x 15 mm, length 18 cm
- 521417 BEHRBOHM **Rasp**, crosscut, cuts with traction, rasp blade 6 x 15 mm, length 18 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 523000 JOSEPH **Nasal Saw**, crosswise toothed, bayonet-shaped, right, length 18.5 cm
- 523100 **Same**, left
- 523600 **Nasal Rasp**, double-ended, fine, length 21.5 cm
- 523700 **Same**, coarse (rasp)
- NEW** 523800 **RAUNIG Nasal Rasp**, double-ended, with diamond coating, length 21.5 cm
- 523812 **Nasal Rasp**, tungsten carbide, double-ended, rasp blades Fig. 1 and 2, coarse, length 20.5 cm
- 523834 **Same**, rasp blades Fig. 3 and 4, coarse and medium
- 523856 **Same**, rasp blades Fig. 5 and 6, medium
- 523878 **Same**, rasp blades Fig. 7 and 8, medium and fine
- 523891 **Same**, rasp blades Fig. 9 and 10, fine

Nose

Instruments for Rhinology and Rhinoplasty



523900



523905



523913



523910
523920



524110 – 524310



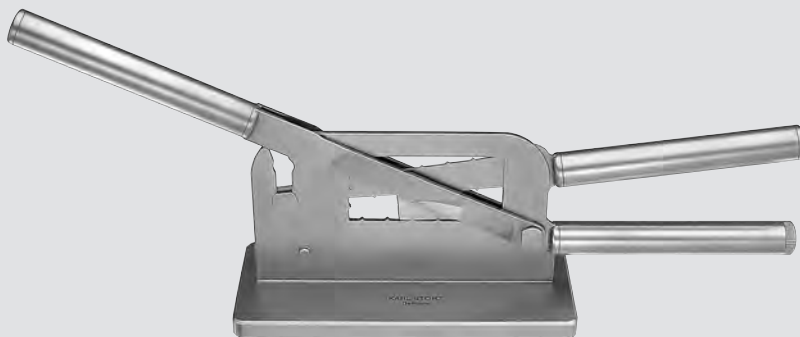
524302

- 523900 COTTLE **Bone Crusher**, with clip, crusher size 5 x 1.5 cm
- NEW** 523905 **Bone Crusher**, large model, with clip, crusher size 5 x 3 cm
- 523910 TOLSDORFF **Bone and Cartilage Crusher**, round, to press pieces of bone up to 4 cm diameter evenly extended in all directions
- 523920 RETTINGER-TOLSDORFF **Same**, with coarse surface
- 523913 **Metal Tray**, for preparing cartilage and bone, with hole for towel forceps, size 10 x 15 cm
- 524110 **Nasal Splint**, DENVER model, aluminium, padded, with self-adhesive underside, small, size 56 x 30 mm, package of 10
- 524210 **Same**, medium, size 64 x 36 mm
- 524310 **Same**, large, size 66 x 45 mm
- 524302 **Nasal Splint**, aluminium, padded, with self-adhesive underside, large, with forehead extension, size 83 x 77 mm, package of 5

Components/Spare Parts see chapter 16

Special Features:

- For reconstructive rhinoplasty with costal cartilage implantation
- Even cutting of cartilage implants at 1 or 2 mm thickness
- Time-savings due to easy preparation of the costal cartilage



523950

523950

SCHMÄL **CARTCUT®** Cartilage Cutter,
for preparation of cartilage pieces

including:

Holding Device

Cleaning Adaptor

Holding-down Clamp

Knife, 1 mm

Knife, 2 mm



Fig. 1: The harvested costal cartilage is placed in the CARTCUT® cartilage cutter ...



Fig. 2: ... and fixated with the "holding-down clamp" handle.



Fig. 3: The "knife" handle is placed in the appropriate holder ...



Figs. 4 and 5: ... and the cartilage is carved by pressing down the "knife" handle.



Fig. 6: The resulting cartilage.

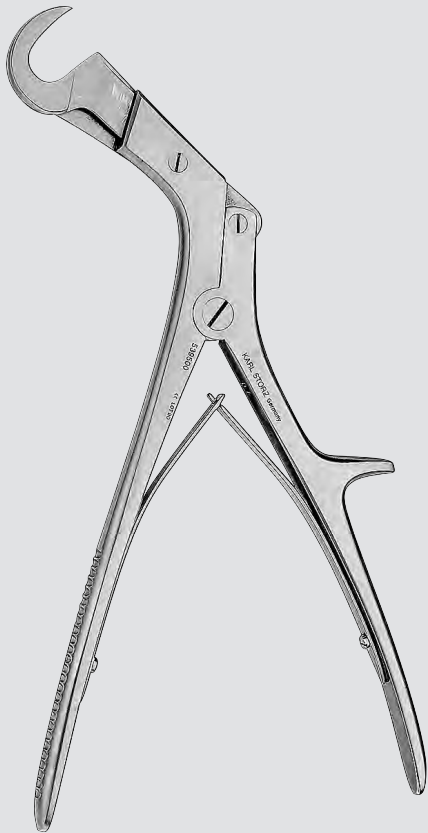
Components/Spare Parts see chapter 16

For storage and processing, Tray 39502 ZH and Silicon Mat 39100 SH are recommended.

Further accessories for cleaning and sterilization see catalog HYGIENE

Nose

Instruments for Cartilage Removal



539500



539510



539520



539521

- 539500 GIERTZ-STILLE **Rib Shears**, length 25 cm
- 539510 FERGUSON **Bone Holding Forceps**, width 12 mm, length 20.5 cm
- 539520 DOYEN **Raspatory**, for adults, curved to right, length 16.5 cm
- 539521 **Same**, curved to left

Nose

Instruments for Rhinology and Rhinoplasty



525500
525505



525510



525520



525800

525500
525505

Rule, stainless steel, flexible, length 20 cm
Same, length 30 cm

525510

CASTROVIEJO Skin Measurement Caliper, measurement range 0 – 15 mm, length 8 cm

525520

BEHRBOHM Caliper, otoplasty, rhinoplasty, reconstructive and aesthetic surgery, with wheel to set and hold the span, as well as a scale for reading the opening interval, measurement range from 5 – 130 mm, caliper arms have 2 removable attachments with measurement points 525523 and 1 holder 525525 for disposable skin marker, **autoclavable**, length 18.5 cm

525800

Elevator, robust model, for the repositioning of nasal fractures, length 17 cm

Nose

Instruments for Rhinology and Rhinoplasty



528800

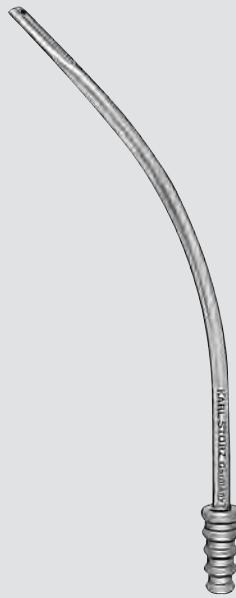


528860

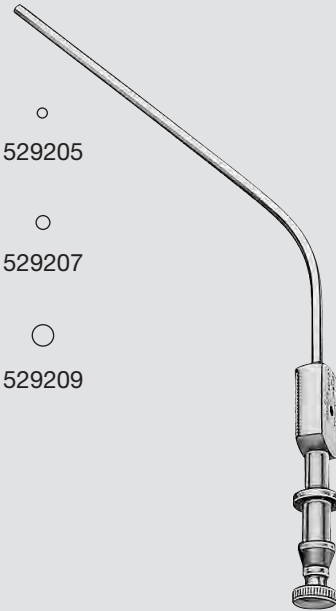
- 528800 **WALSHAM Septum Straightening Forceps**, dismantling, length 21 cm
- 528860 **ASCH Septum Straightening Forceps**, angular, length 22 cm

Nose

Instruments for Rhinology and Rhinoplasty



529105



529205

529207

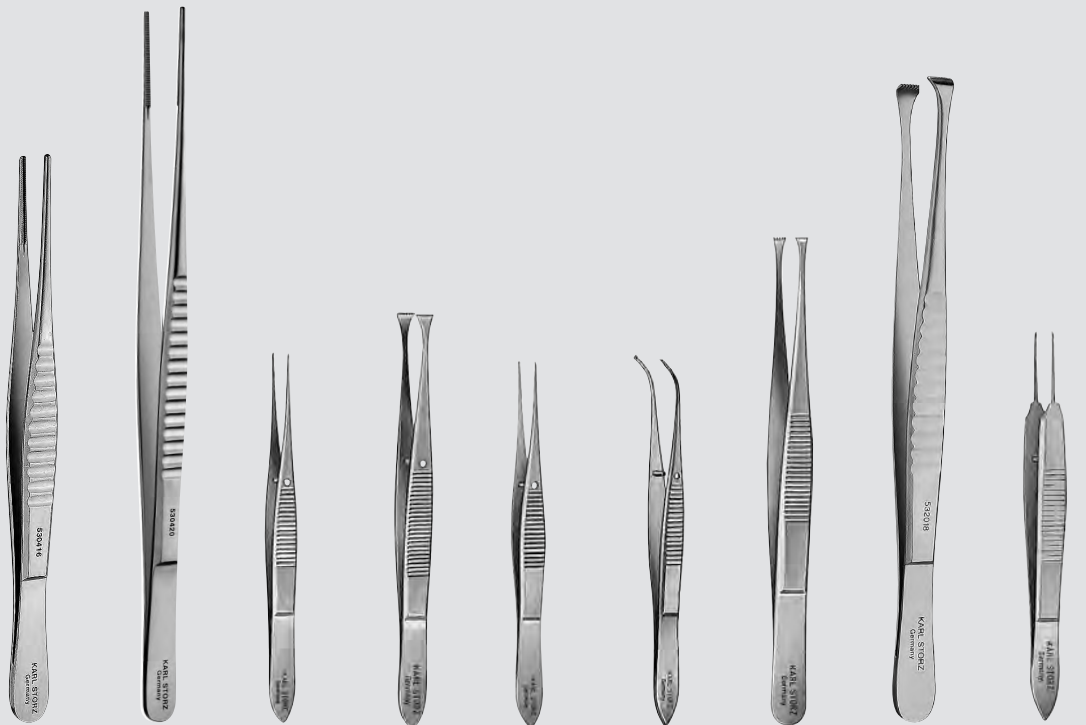
529209

529205 –
529209

- 529105 **Suction Tube**, curved, outer diameter 5 mm, length 16.5 cm
- 529205 **FRAZIER Suction Tube**, with cut-off hole and stylet, angled, outer diameter 5 Fr./1.5 mm, working length 10 cm, total length 17.5 cm
- 529207 **Same**, outer diameter 7 Fr./2 mm
- 529209 **Same**, outer diameter 9 Fr./3 mm

Nose

Instruments for Rhinology and Rhinoplasty

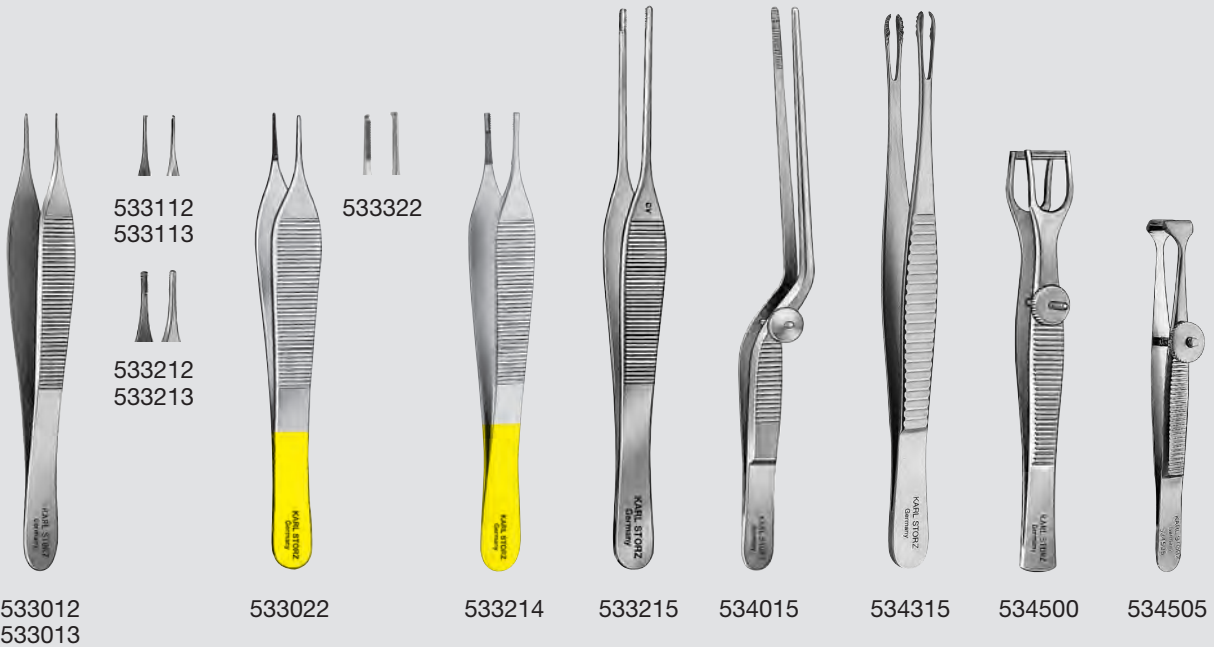


530416 530420 530710 530811 530910 530911 532013 532018 532500
530520

- 530416 “ATRAUMA” **Atraumatic Tissue Forceps**, length 16 cm
- 530420 “ATRAUMA” **Atraumatic Tissue Forceps**, width of jaws 2 mm, length 20 cm
- 530520 **Same**, width of jaws 1.5 mm
- 530710 **Dressing Forceps**, delicate, length 10 cm
- 530811 **Tissue Forceps**, with 7 x 8 fine teeth, length 11 cm
- 530910 **Tissue Forceps**, delicate, straight, 1 x 2 teeth, length 10 cm
- 530911 **Same**, curved
- 532013 **Tissue Forceps**, straight, with 7 x 8 fine teeth, length 13 cm
- NEW** 532018 **STÖVER Tissue Forceps**, straight, with 7 x 8 fine teeth, length 18 cm
- 532500 **CASTROVIEJO Suture Forceps**, 1 x 2 teeth, length 10.5 cm

Nose

Instruments for Rhinology and Rhinoplasty



- 533012 **ADSON Dressing Forceps**, serrated, length 12 cm
- 533013 **Same**, micro-model
- 533022 **ADSON Dressing Forceps**, serrated, tungsten carbide inserts, length 12 cm
- 533112 **ADSON Tissue Forceps**, 1 x 2 teeth, length 12 cm
- 533113 **Same**, micro-model
- 533212 **ADSON-BROWN Tissue Forceps**, atraumatic, fine side grasping teeth, length 12 cm
- 533213 **Same**, micro-model
- 533214 **ADSON-BROWN Tissue Forceps**, atraumatic, fine side grasping teeth, tungsten carbide inserts, width 1.5 mm, length 12 cm
- 533215 **GLANZ Forceps**, atraumatic, fine side grasping teeth, with extra long tips for better view and work in the depth, length 15 cm
- 533322 **ADSON Tissue Forceps**, serrated, 1 x 2 teeth, tungsten carbide inserts, length 12 cm
- 534015 **COTTLE Lower Lateral Forceps**, bayonet-shaped, with set screw, serrated tips and teeth on the inside, length 15 cm
- 534315 **FULEIHAN Forceps**, with teeth and open window, width 5 mm, length 15 cm
- 534500 **COTTLE Columella Clamp**, length 11 cm
- 534505 **Columella Clamp**, for children, width 7.5 mm, length 8.5 cm

Nose

Rhinoplasty – Aesthetic-Plastic Surgery of the Nose

BERGHAUS Recommended Set



488002



488003



488004



488105



488010



488012



488014



488018



488022



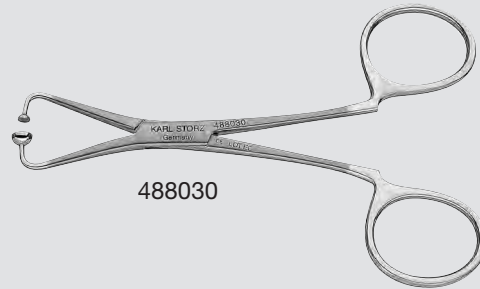
488023



488024



174200



488030



231000

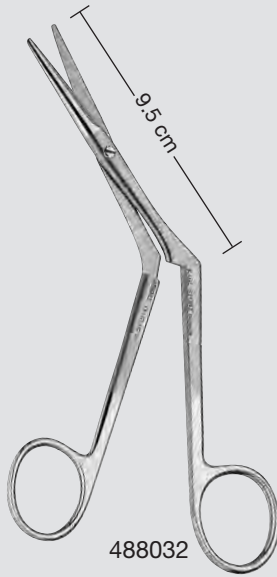
- 488002 COTTLE **Nasal Speculum**, extra slender, without set screw, blade length 35 mm, length 13 cm
- 488003 **Same**, blade length 55 mm
- 488004 **Same**, blade length 75 mm
- 488105 HALLE-TIECK **Nasal Speculum**, for infants, length 13 cm
- 488010 RUBIN **Osteotome**, flat, straight, double-edged grinding, rounded corners, with finger grip for controlled osteotome guidance, width 10 mm, length 16.5 cm
- 488012 **Same**, width 12 mm
- 488014 **Same**, width 14 mm
- 488018 KILLIAN-CLAUS **Septum Chisel**, with V-shaped cutting edge, width 5 mm, length 16.5 cm
- 488022 **Chisel**, with finger button, flat, width 2 mm, length 18 cm
- 488023 **Same**, width 3 mm
- 488024 **Same**, width 4 mm
- 174200 COTTLE **Metal Mallet**, length 18 cm
- 231000 **Hone**, "ARKANSAS" oil stone, wedge-shaped, 10 x 4 cm
- 488030 **Marking Instrument**, for nasal tip, with ball and half cup, straight, length 11 cm

Nose

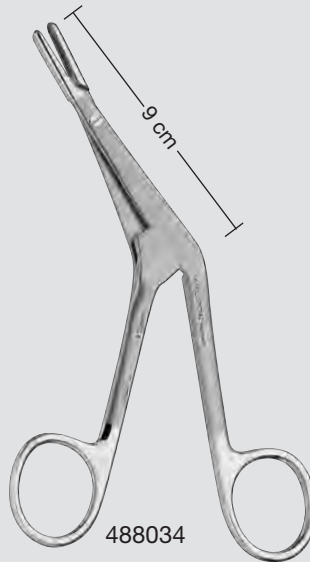
Rhinoplasty – Aesthetic-Plastic Surgery of the Nose

BERGHAUS Recommended Set

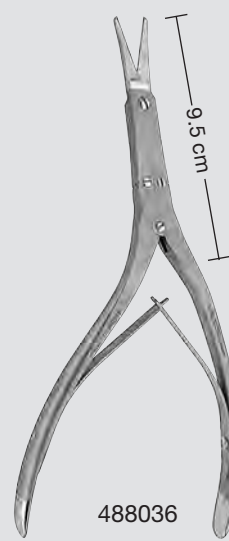
Instruments with special matt finish and high-gloss polished working tips



488032



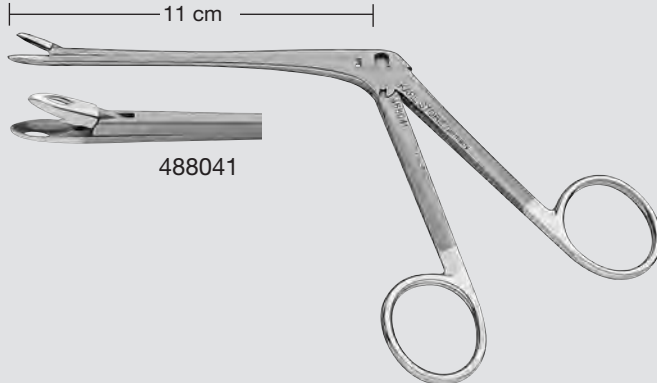
488034



488036



488038



488041



488044



488045
488047



488046



488049



488050

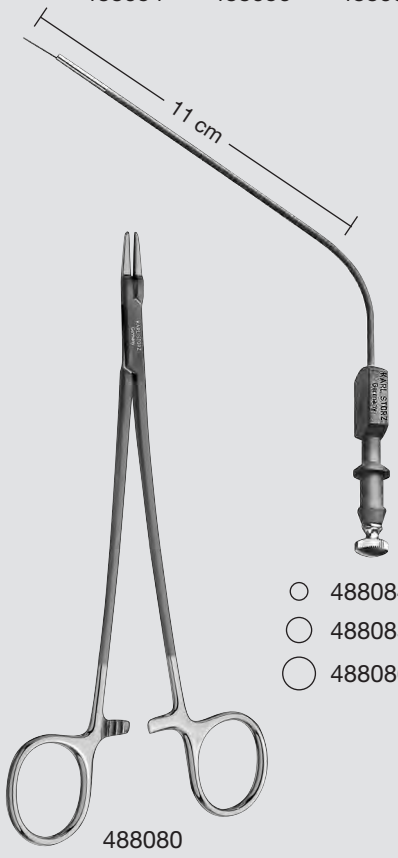
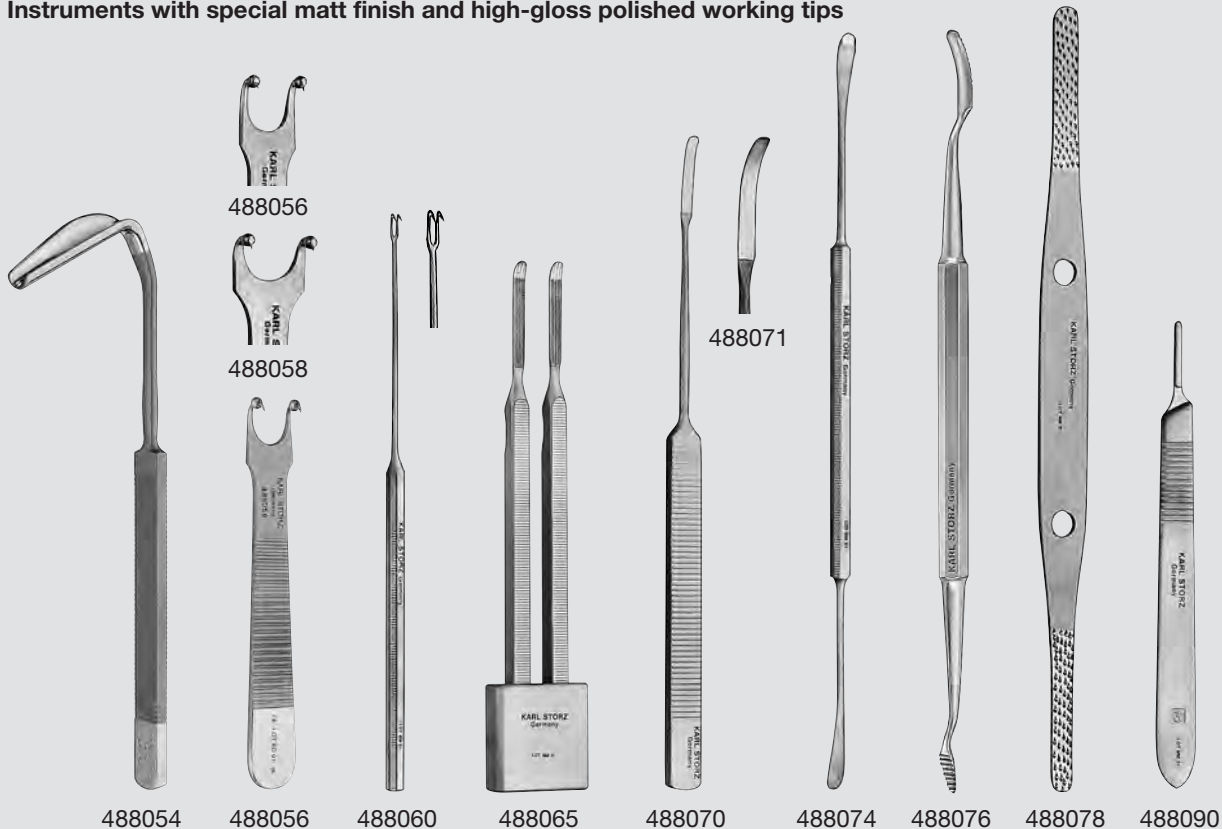
- 488032 HEYMANN **Nasal Scissors**, medium size, working length 9.5 cm
- 488034 CRAIG **Septum Forceps**, straight, working length 9 cm
- 488036 BECKER-CAPLAN **Septum Scissors**, with double joint, serrated, slender, working length 9.5 cm
- 488038 RUBIN **Septum Morcelizer**, with double joint, straight, length 20 cm
- 488041 BLAKESLEY **Nasal Forceps**, slender, straight, size 1, working length 11 cm
- 488044 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, slender, length 16 cm
- 488045 ADSON-BROWN **Forceps**, micro-model, atraumatic, fine side grasping teeth, length 12 cm
- 488046 ADSON **Tissue Forceps**, atraumatic, fine side grasping teeth, length 15 cm
- 488047 ADSON **Tissue Forceps**, 1 x 2 teeth, length 12 cm
- 488049 KILNER **Scissors**, curved, with tungsten carbide inserts, flat end, sharp/sharp, extra delicate, length 13.5 cm
- 488050 KILNER **Scissors**, curved, flat end, blunt/blunt, length 15.5 cm

Nose

Rhinoplasty – Aesthetic-Plastic Surgery of the Nose

BERGHAUS Recommended Set

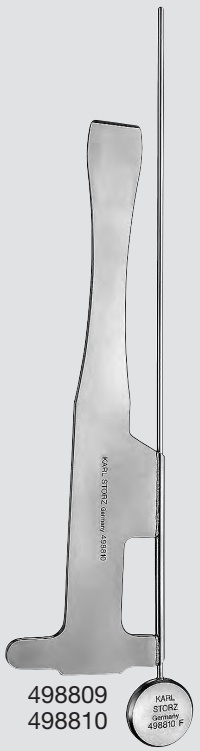
Instruments with special matt finish and high-gloss polished working tips



- 488054 **AUFRICHT Nasal Retractor**, with side protector, length 16.5 cm
- 488056 **KILNER Ala Retractor**, two sharp points with button, width 10 mm, length 8.5 cm
- 488058 **Same**, width 13 mm
- 488060 **Ala Double Hook**, with octagonal handle, with 2 sharp points, strongly curved, width 2 mm, length 16.5 cm
- 488065 **BERGHAUS Ala Guiding Set**, consisting of 2 guiding instruments with distance markings 488065 A and 1 fixation block 488065 B
- 488070 **JOSEPH Raspatory**, slightly curved, width 4 mm, length 17.5 cm
- 488071 **Same**, strongly curved, width 3.4 mm
- 488074 **FREER Elevator**, double-ended, sharp and blunt, length 20 cm
- 488076 **AUFRICHT Glabella Rasp**, double-ended, backward cutting, length 20.5 cm
- 488078 **Nasal Rasp**, double-ended, coarse, length 21.5 cm
- 488080 **RYDER Needle Holder**, tungsten carbide inserts, extra delicate and flat, length 18 cm
- 488084 **FERGUSON Suction Tube**, with cut-off hole and stylet, LUER, outer diameter 8 Fr./2.5 mm, working length 11 cm
- 488085 **Same**, outer diameter 10 Fr./3.5 mm
- 488086 **Same**, outer diameter 12 Fr./4 mm
- 488090 **Scalpel Handle**, no. 3, length 12.5 cm

Nose

Instruments for Rhinoplasty



498810 F



498815



498816



498822



498820



498824

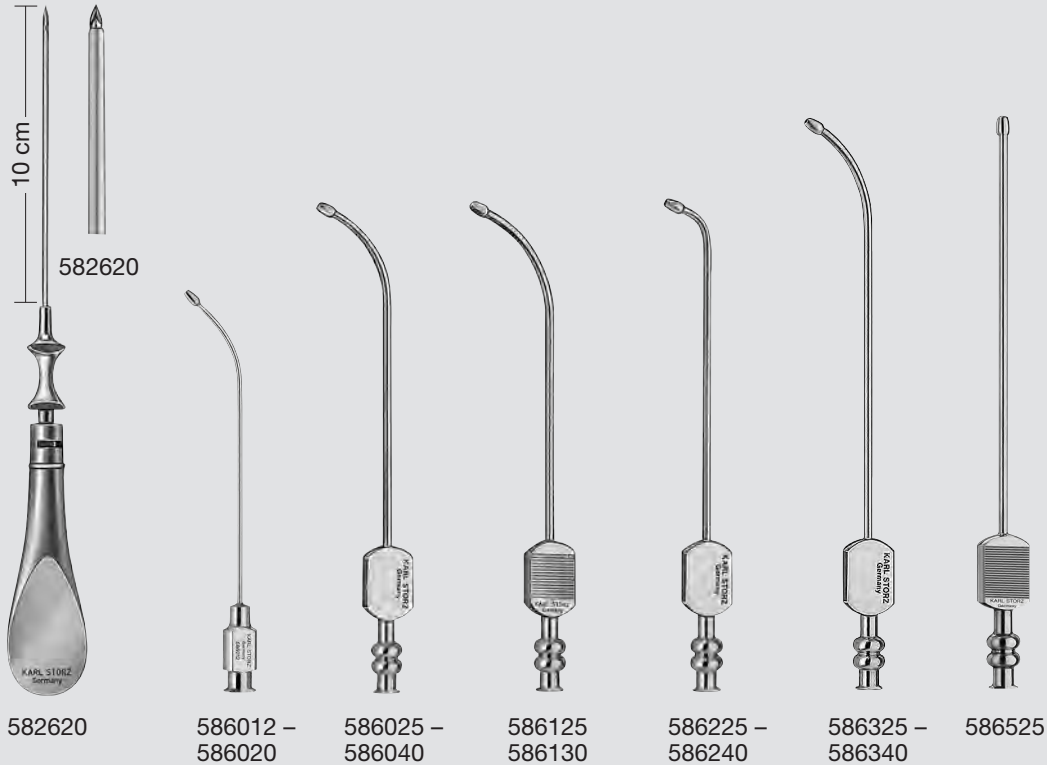
- 498809 AIACH **Osteotome for Hump Removal**, with lateral guiding rod, width 10 mm
- 498810 **Same**, width 13 mm
- 498810 F **Guide Rod**, for 498809 and 498810, only
- 498815 AIACH **Narrow Rasp**, double-ended, medium, width 5 and 3 mm, length 20 cm
- 498816 AIACH **Tenon Mortise Rasp**, double-ended, medium, one side with augmented teeth, other side slotted without teeth, length 20 cm
- 498820 AIACH **Grid**, for preparation of cartilage, graduated, size 90 x 50 mm
- 498822 AIACH **Cartilage Graft Forceps**, for grasping and preparation of cartilage, with slotted jaws, length 15 cm
- 498824 AIACH **Cartilage Crusher**, crusher size 5 x 1.5 cm



**SINOSCOPY, RHINOSCOPY
POSTRHINOSCOPY, FESS
NASAL SINUSES, SKULL BASE**

Nose

Nasal Sinuses



- | | | | |
|--------|---|--------|---|
| 582620 | LICHTWITZ Antrum Trocar , LUER-Lock, with lateral holes, outer diameter 2 mm, working length 10 cm | 586225 | v. EICKEN Antrum Cannula , LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm |
| 586012 | Antrum Cannula , LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm | 586230 | Same , outer diameter 3 mm |
| 586015 | Same , with olive diameter 2.7 mm, outer diameter 1.5 mm | 586240 | Same , outer diameter 4 mm |
| 586020 | Same , outer diameter 2 mm | 586325 | v. EICKEN Antrum Cannula , LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm |
| 586025 | v. EICKEN Antrum Cannula , LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm | 586330 | Same , outer diameter 3 mm |
| 586030 | Same , outer diameter 3 mm | 586340 | Same , outer diameter 4 mm |
| 586040 | Same , outer diameter 4 mm | 586525 | Antrum Cannula , LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm |
| 586125 | v. EICKEN Antrum Cannula , LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm | | |
| 586130 | Same , outer diameter 3 mm | | |

Nose

Nasal Sinuses – Accessories



600002



600005



600007



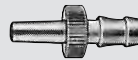
600008



600009



600010



600017



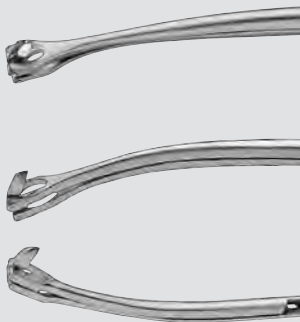
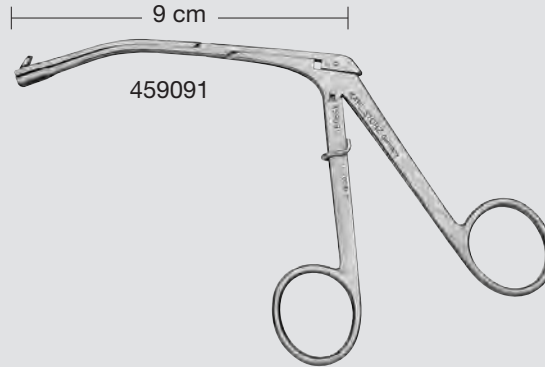
600019

- 600002 **Irrigation Tube**, silicone, **autoclavable**, both ends with LUER-Lock 600007 and 600008, length 30 cm
- 600005 **Record Outer Cone**
- 600007 **LUER-Lock Tube Connector**, male, tube diameter 6 mm
- 600008 **LUER-Lock Tube Connector**, female, tube diameter 6 mm
- 600009 **Silicone Irrigation Tube**, only, length 30 cm
- 600010 **Silicone Tube**, **autoclavable**, outer diameter 5 mm, 1 m coil
- 600017 **LUER Cone**, male
- 600019 **LUER Cone Connector**, male, rotating

Nose

Nasal Sinuses

Punches, working length 9 cm

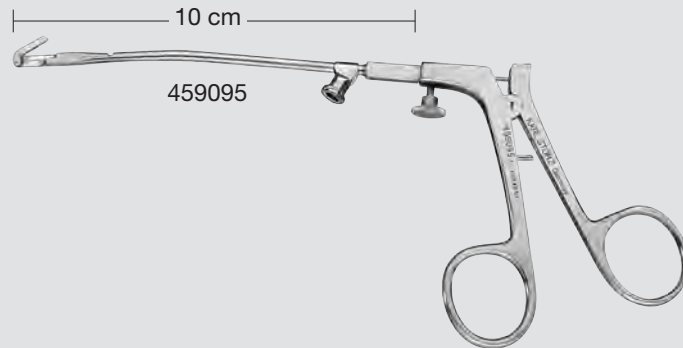


- | | |
|--------|---|
| 459090 | OSTRUM Pediatric Punch , for resection of uncinat process, upside backward cutting, sheath slightly curved downwards, small size, bite 2.3 x 4 mm, working length 9 cm |
| 459091 | OSTRUM Pediatric Punch , for resection of uncinat process, upside backward cutting, sheath slightly curved downwards, large size, bite 3.5 x 4.5 mm, working length 9 cm |
| 459093 | OSTRUM Pediatric Punch , for resection of uncinat process, upside backward cutting, sheath slightly curved upwards, large size, bite 3.5 x 4.5 mm, working length 9 cm |

Nose

Nasal Sinuses

Punches and Scissors, working length 9 and 10 cm



459095

LASKAWI **Scissors**, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved, with cleaning connector, working length 10 cm



459096

OSTRUM **Antrum Punch**, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved downwards, with cleaning connector, working length 10 cm



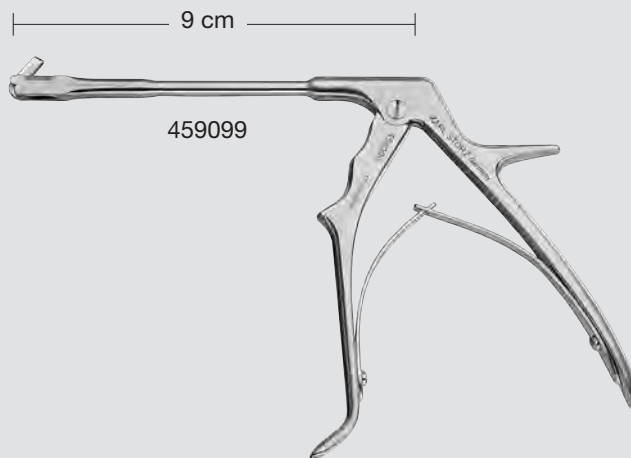
459096 W

OSTRUM-WORMALD **Antrum Punch**, backward cutting, extra slender jaws, sheath 360° rotating, with set screw, sheath slightly curved downwards, with cleaning connector, working length 10 cm



459097

OSTRUM **Punch**, Pediatric, for resection of the uncinat process, backward cutting, sheath 360° rotating, with set screw, sheath slightly curved downwards, small size, bite 2.3 x 4 mm, with cleaning connector, working length 9 cm



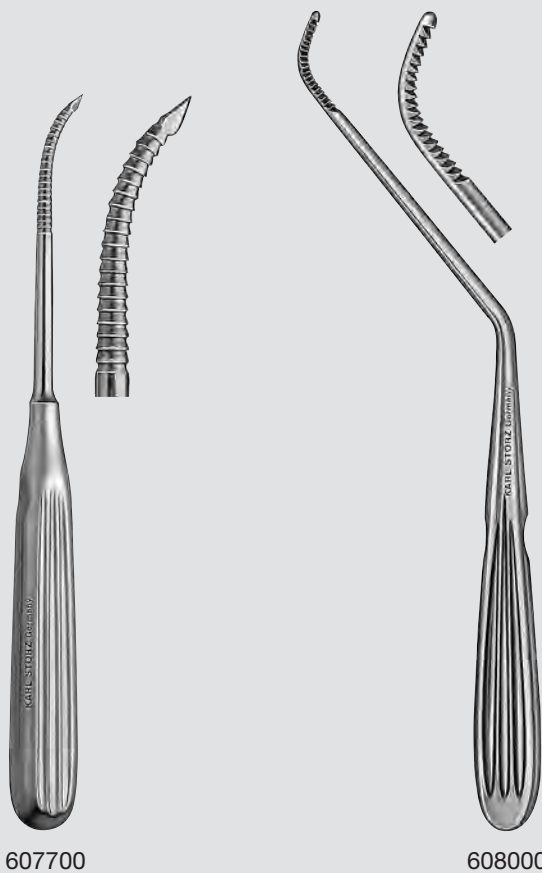
459099



459099

OSTRUM **Antrum Punch**, upside backward cutting, strong model, straight, spring-action handle with horn, working length 9 cm

8-111



607700

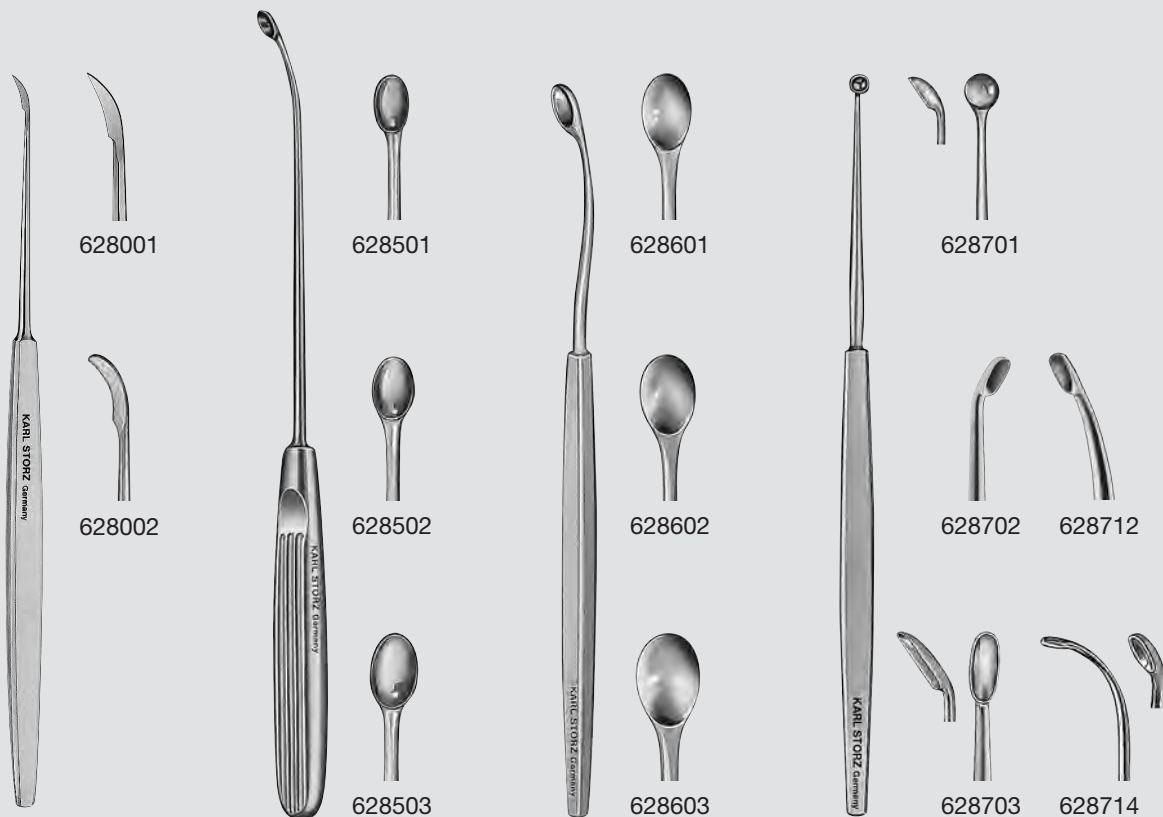
608000

607700 WIENER **Antrum Rasp**, with trocar tip,
length 19.5 cm

608000 WATSON-WILLIAMS **Antrum Rasp**,
blunt, length 23 cm

Nose

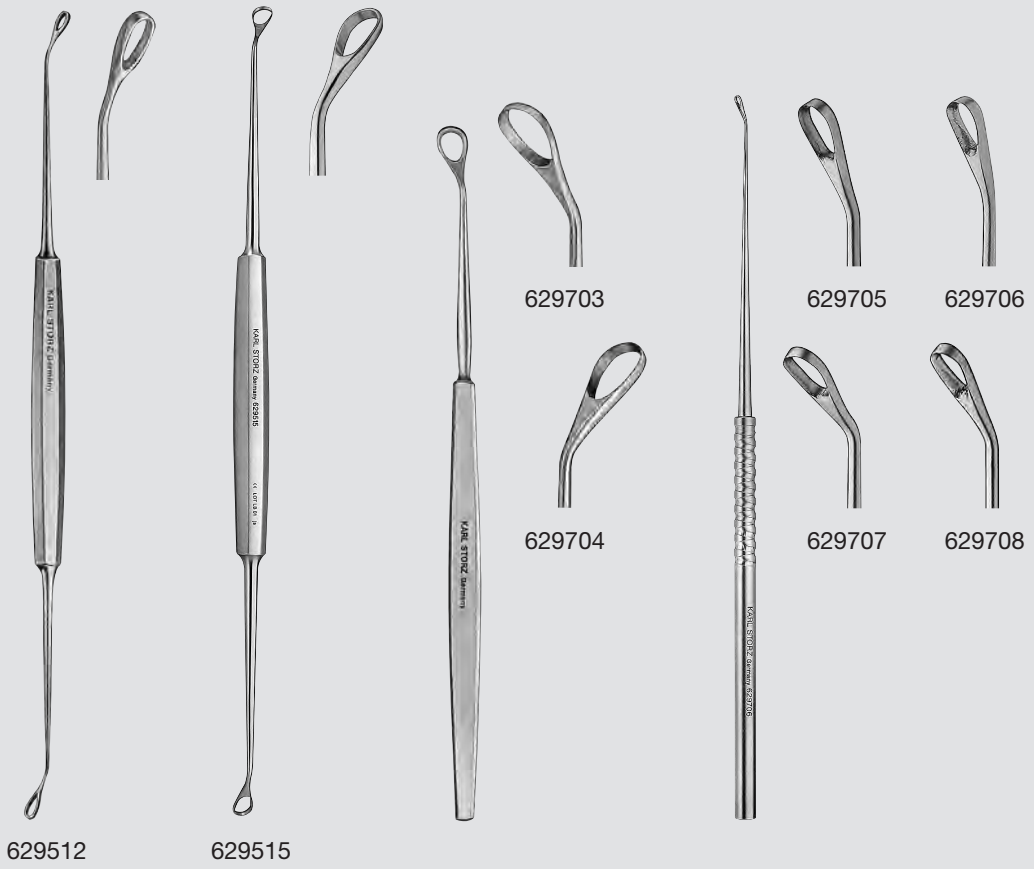
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 628001 **Sickle Knife**, pointed, length 19 cm
- 628002 **Same**, round, double-cutting
- 628501 HALLE **Antrum Curette**, malleable, size 1, length 21 cm
- 628502 **Same**, size 2
- 628503 **Same**, size 3
- 628601 **Antrum Curette**, oval, size 1, length 19 cm
- 628602 **Same**, size 2
- 628603 **Same**, size 3
- 628701 **Antrum Curette**, round, length 19 cm
- 628702 **Same**, oblong, small
- 628703 **Same**, oblong, large
- 628712 KUHN-BOLGER **Frontal Sinus Curette**, 55° curved, oval, forward cutting, length 19 cm
- 628714 **Same**, 90° curved
- 628801 **SIEBENMANN Antrum Curette**, right, length 16.5 cm
- 628802 **Same**, left

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



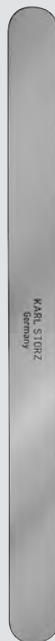
- 629512 HALLE **Antrum Curette**, oval, length 24.5 cm
- 629515 **Same**, 35° and 65°
- 629703 **Antrum Curette**, forward cutting, small, length 19 cm
- 629704 **Same**, backward cutting
- 629705 **Curette**, forward cutting, angled 20°, large, working length 22 cm
- 629706 **Same**, small, working length 20 cm
- 629707 **Curette**, forward cutting, angled 45°, large, working length 22 cm
- 629708 **Same**, small, working length 20 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



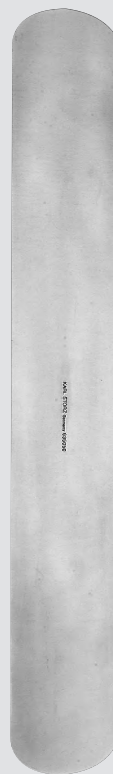
635005



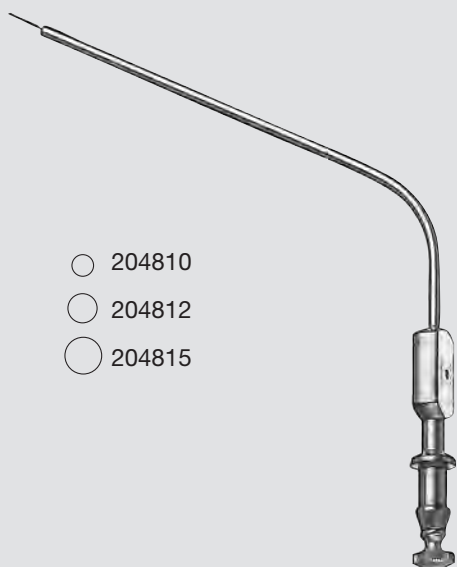
635012 –
635025



635112 –
635122



635050



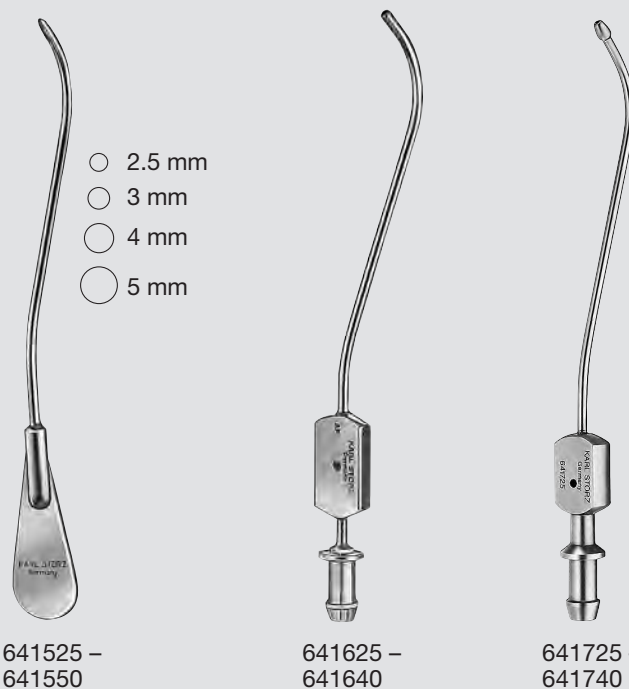
- 204810
- 204812
- 204815

204810 –
204815

- 635005 **BEHRBOHM Orbital Retractor**, width of spatula 8.4 x 16 mm, length 20 cm
- 635012 **Spatula**, malleable, width 12 mm, length 20 cm
- 635017 **Same**, width 17 mm
- 635025 **Same**, width 25 mm
- 635112 **Orbital Spatula**, with double graduation, width 12 mm, length 20 cm
- 635117 **Same**, width 17 mm
- 635122 **Same**, width 22 mm
- 635050 **Spatula**, malleable, width 50 mm, length 30 cm
- 204810 **FERGUSON Suction Tube**, with cut-off hole and stylet, LUER, 10 Fr., working length 11 cm
- 204812 **Same**, 12 Fr.
- 204815 **Same**, 15 Fr.

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

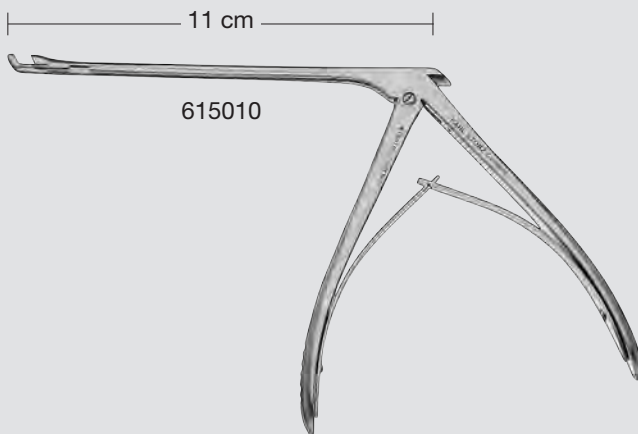


- 641525 RITTER **Frontal Sinus Bougie**, size 1, outer diameter 2.5 mm, length 14.5 cm
- 641530 **Same**, size 2, outer diameter 3 mm
- 641540 **Same**, size 3, outer diameter 4 mm
- 641550 **Same**, size 4, outer diameter 5 mm
- 641625 **Suction Tube**, for frontal sinus, with cut-off hole, LUER, outer diameter 2.5 mm, length 14.5 cm
- 641630 **Same**, outer diameter 3 mm
- 641640 **Same**, outer diameter 4 mm
- 641725 PASQUINI **Suction Tube**, for frontal sinus, with olive end and cut-off-hole, LUER, outer diameter 2.5 mm, length 14.5 cm
- 641730 **Same**, outer diameter 3 mm
- 641740 **Same**, outer diameter 4 mm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

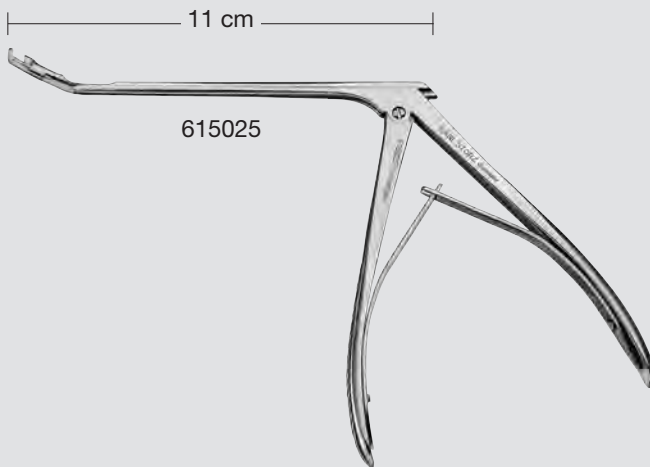
Antrum Punch, working length 11 cm



615010

Antrum Punch, for removal of small bone fragments on natural ostium, rigid, not through-cutting, 65° upbiting forward cutting, size 3.5 x 3.7 mm, working length 11 cm

Sphenoid Punches, working length 11 cm



615015

CASTELNUOVO Sphenoid Punch, rigid, not through-cutting, 65° upbiting forward cutting, size 3.5 x 3.7 mm, fixed jaw extra flat, working length 11 cm



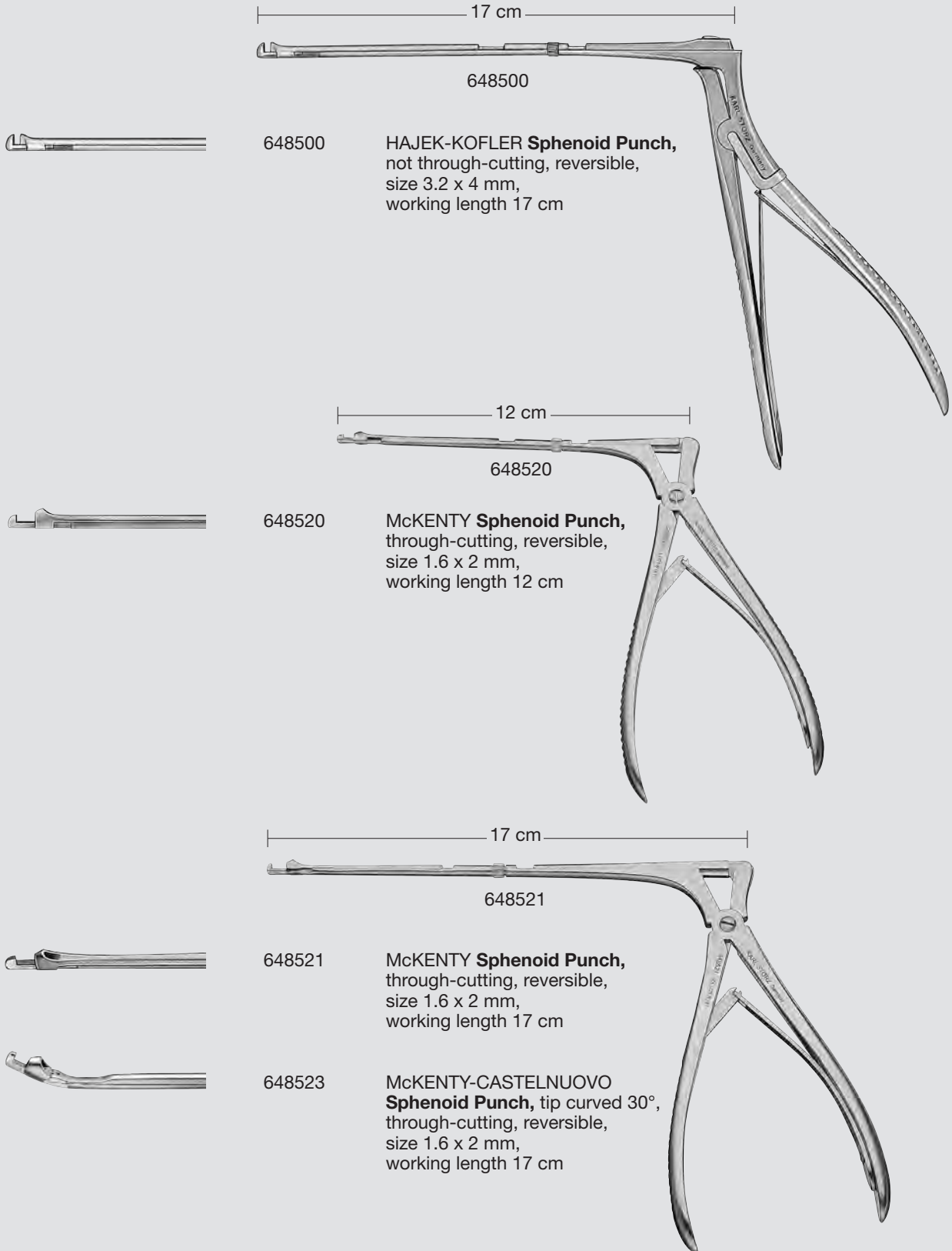
615025

CASTELNUOVO Sphenoid Punch, rigid, 30° upturned, not through-cutting, upbiting forward cutting, fixed jaw extra flat, size 2 x 2 mm, working length 11 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

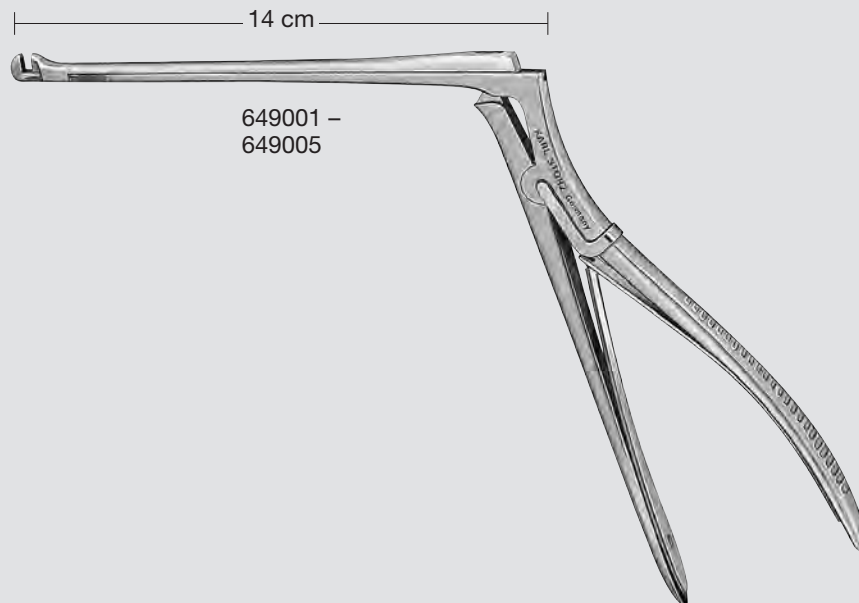
Sphenoid Punches, working lengths 12 and 17 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Sphenoid Punches, working length 14 cm



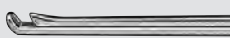
649001

HAJEK-KOFLER Bone Punch,
rigid, 90° upbiting, not through-cutting,
size 3.5 x 3.7 mm, working length 14 cm



649002

Same, 90° downbiting



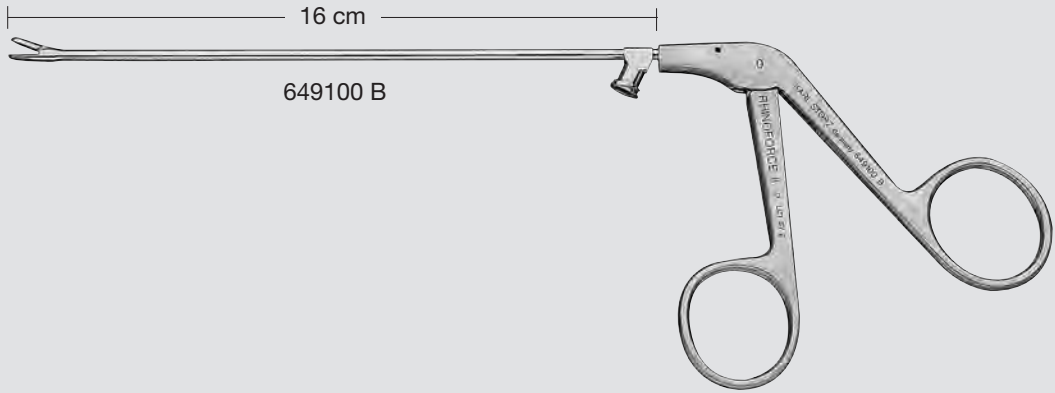
649005

Same, upbiting forward cutting

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

RHINOFORCE® II Ethmoid Forceps, working length 16 cm



649100 B

BLAKESLEY RHINOFORCE® II Ethmoid Forceps, straight, size 0, with cleaning connector, working length 16 cm



649101 B

Same, size 1



649102 B

Same, size 2



649110 B

BLAKESLEY-WILDE RHINOFORCE® II Ethmoid Forceps, 45° curved upwards, size 0, with cleaning connector, working length 16 cm



649111 B

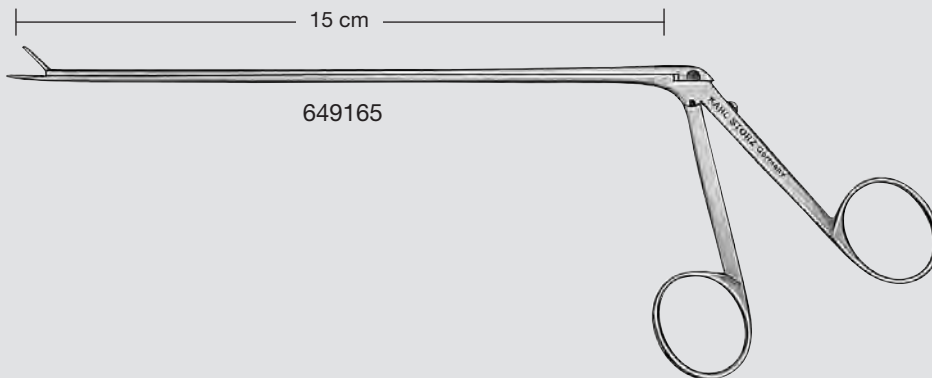
Same, size 1



649123 B

TAKAHASHI RHINOFORCE® II Ethmoid Forceps, spoon size 4 x 10 mm, with cleaning connector, working length 16 cm

Grasping Forceps, working length 15 cm



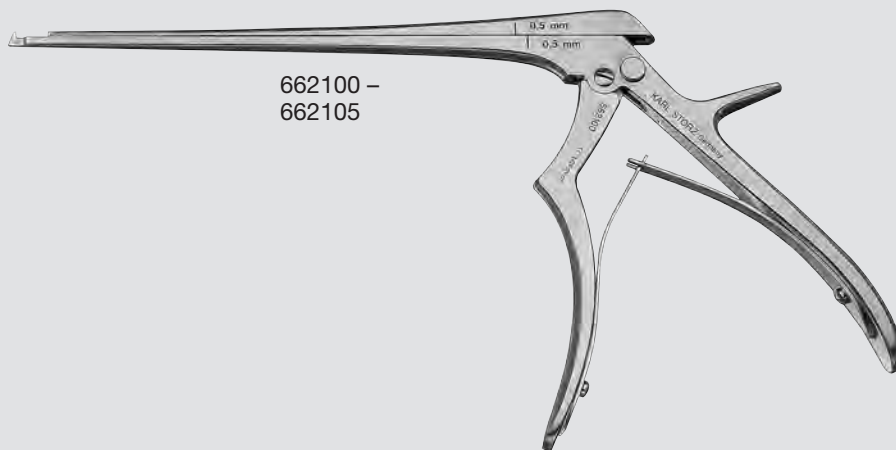
649165

Grasping Forceps, rough serrated, working length 15 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Bone Punches, detachable, working length 12 and 17 cm



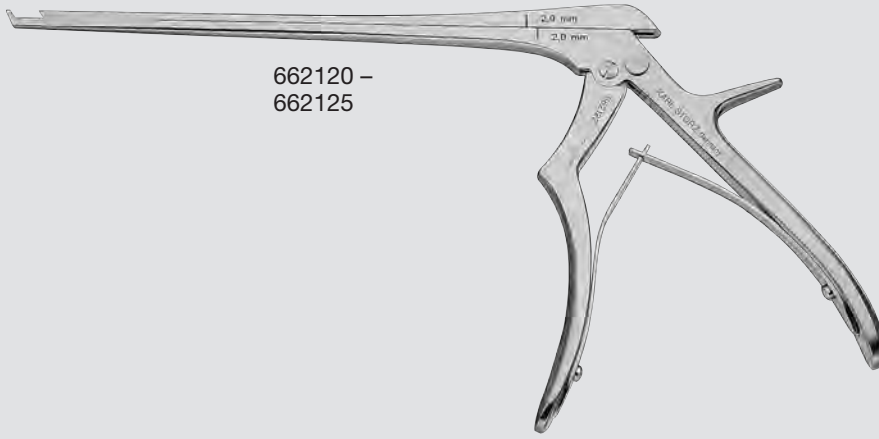
662100 –
662105

		662100	KERRISON Bone Punch , detachable, rigid, 90° upbiting, not through-cutting, size 0.5 mm, working length 17 cm
		662101	Same , size 1 mm
		662101 K	KERRISON Micro Punch , detachable, short model, rigid, 90° upbiting, not through-cutting, size 1 mm, working length 12 cm
		662102	KERRISON Bone Punch , detachable, rigid, 90° upbiting, not through-cutting, size 2 mm, working length 17 cm
		662103	Same , size 3 mm
		662104	Same , size 4 mm
		662105	Same , size 5 mm
		662111	KERRISON Bone Punch , detachable, rigid, 90° downbiting, not through-cutting, size 1 mm, working length 17 cm
		662112	Same , size 2 mm
		662113	Same , size 3 mm
		662114	Same , size 4 mm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Punches, detachable, working length 12 and 17 cm



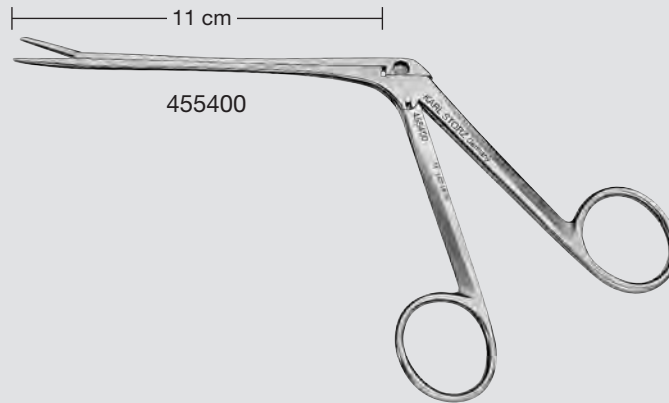
662120 –
662125

□		662120	KERRISON Bone Punch , detachable, rigid, upbiting 40° forward, size 0.7 mm, working length 17 cm
□		662121	Same , size 1 mm
□		662121 K	KERRISON Micro Punch , detachable, short model, rigid, upbiting 55° forward, not through cutting, size 1 mm, working length 12 cm
□		662122	KERRISON Bone Punch , detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm
□		662123	Same , size 3 mm
□		662124	Same , size 4 mm
□		662125	Same , size 5 mm
□		662131	KERRISON Bone Punch , detachable, rigid, downbiting 40° forward, size 1 mm, working length 17 cm
□		662132	Same , size 2 mm
□		662133	Same , size 3 mm
□		662134	Same , size 4 mm

Nose

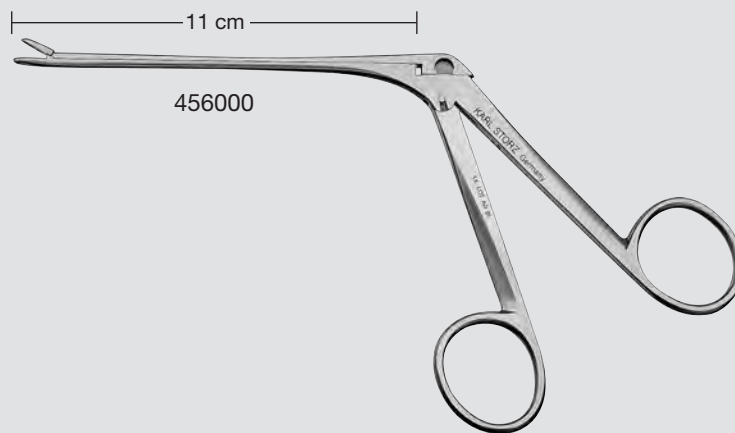
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 11 and 15 cm



455400

NOYES-HARTMANN Nasal Forceps,
serrated jaws, working length 11 cm



456000

BLAKESLEY Nasal Forceps, straight,
size 0, working length 11 cm



456001

Same, size 1



456001 L

Same, size 1, working length 15 cm



456002

Same, size 2



456003

Same, size 3



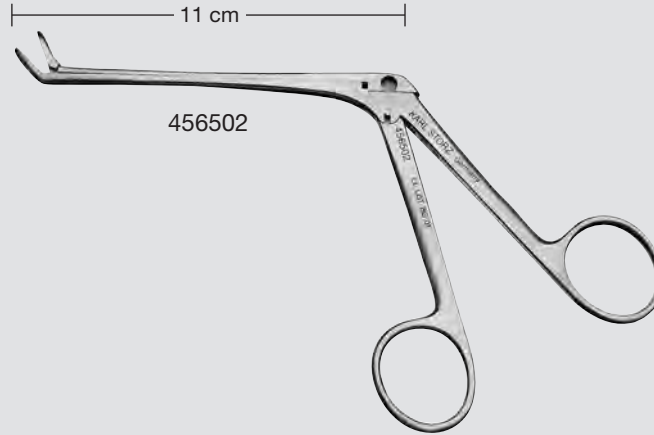
456004

Same, size 4

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 11 cm



456500

BLAKESLEY-WILDE Nasal Forceps,
45° upturned, size 0, working length 11 cm



456501

Same, size 1



456502

Same, size 2



456503

Same, size 3



456504

Same, size 4



456801

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, size 1, working length 11 cm



456802

Same, size 2



456803

Same, size 3



456811

BLAKESLEY-WILDE Nasal Forceps,
90° upturned, slender, long jaws 3.5 x 12 mm,
working length 11 cm



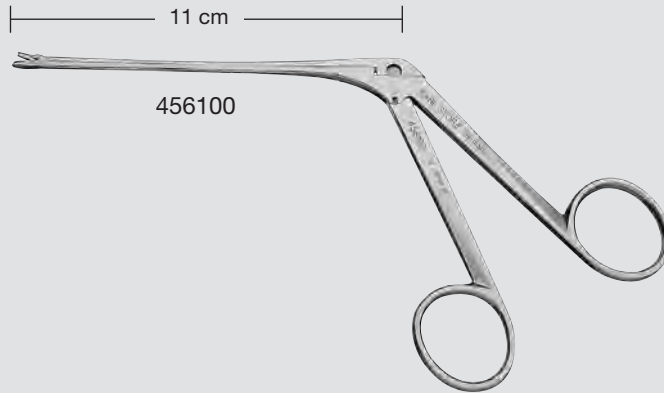
457720

BLAKESLEY-WIGAND Nasal Forceps,
60° upturned, long jaws 6 x 20 mm, rounded
tips, working length 11 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 11 cm



456100

Nasal Forceps, straight, through-cutting, for a smooth cut, BLAKESLEY shape, width 2.5 mm, working length 11 cm



456101

Same, width 3.5 mm



456102

Same, width 4.2 mm



456103

Same, width 4.8 mm



456120

Nasal Forceps, 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, width 2.5 mm, working length 11 cm



456121

Same, width 3.5 mm



456122

Same, width 4.2 mm



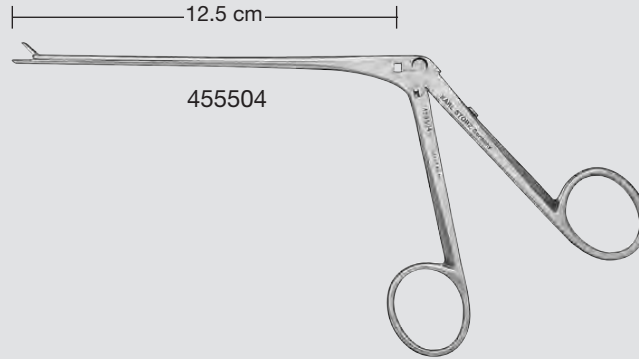
456123

Same, width 4.8 mm

Nose

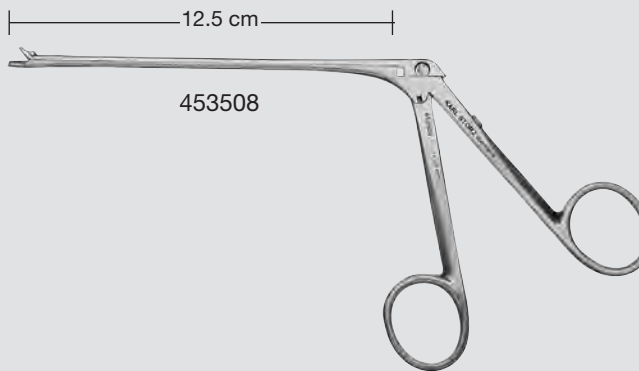
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 10.5 and 12.5 cm



455504

TAKAHASHI Nasal Forceps, straight, delicate, working length 12.5 cm



453508

Nasal Forceps, straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm

453508 K

Same, with foreign body basket



453509

Nasal Forceps, straight, through-cutting, fine, bite 1.25 x 5 mm, working length 12.5 cm



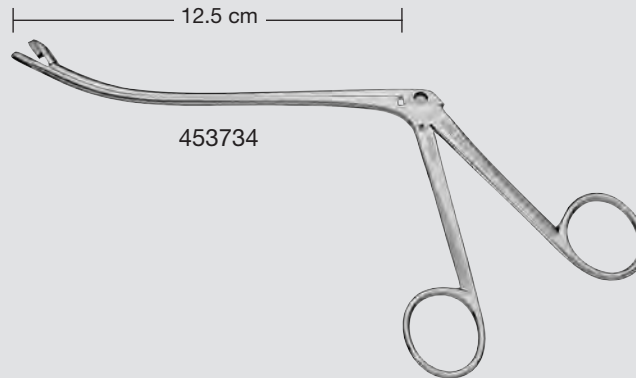
453510

Nasal Forceps, straight, through-cutting, robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Nasal Forceps, working length 10.5 and 12.5 cm



453710

Nasal Cutting Forceps, 45° upturned, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm



453721

Nasal Forceps, 45° upturned, through-cutting, fine, bite 1.5 x 4 mm, working length 12.5 cm



453722

Nasal Forceps, 45° upturned, through-cutting, robust model, small, bite 2.5 x 6.5 mm, working length 10.5 cm



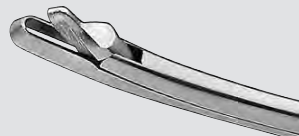
453723

Nasal Forceps, 45° upturned, through-cutting, robust model, medium, bite 2.75 x 6 mm, working length 10.5 cm



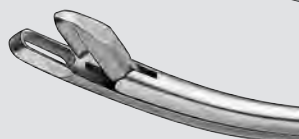
453724

Nasal Forceps, 45° upturned, through-cutting, robust model, large, bite 3 x 8 mm, working length 10.5 cm



453733

Nasal Forceps, through-cutting, fine, shaft end slightly curved upwards, bite 1.5 x 4.5 mm, working length 12.5 cm



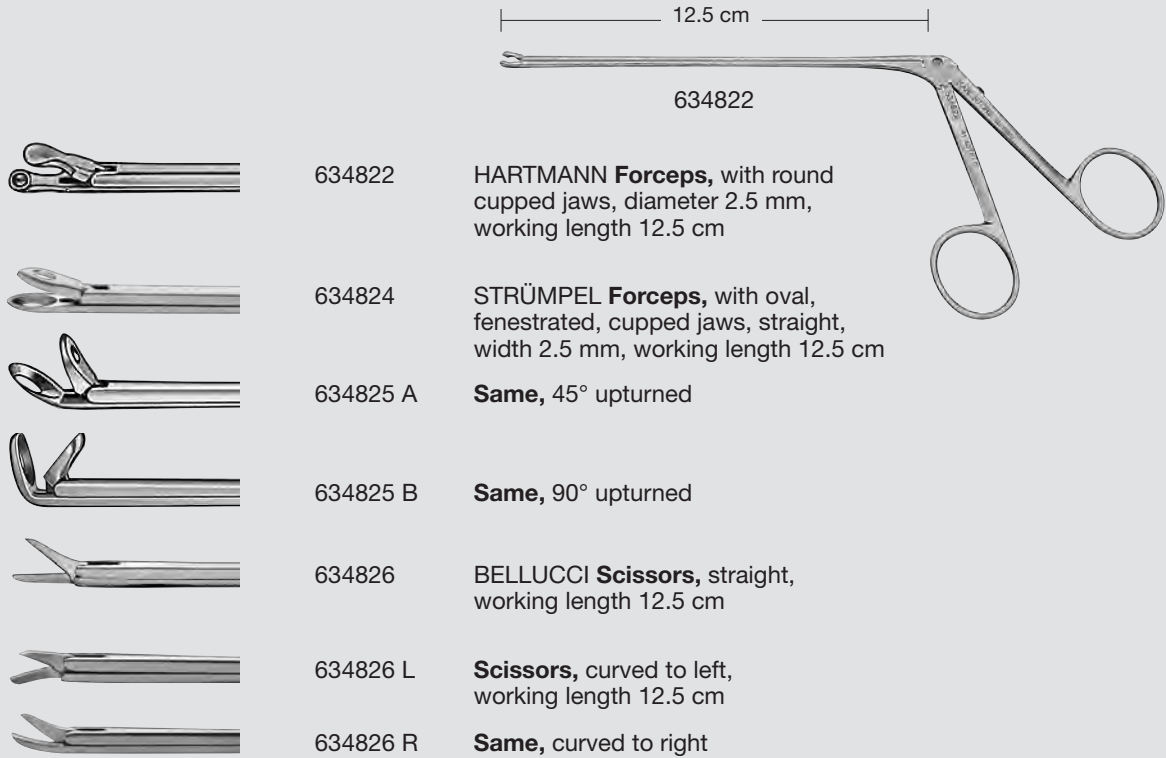
453734

Nasal Forceps, through-cutting, robust model, shaft end slightly curved upwards, working length 12.5 cm

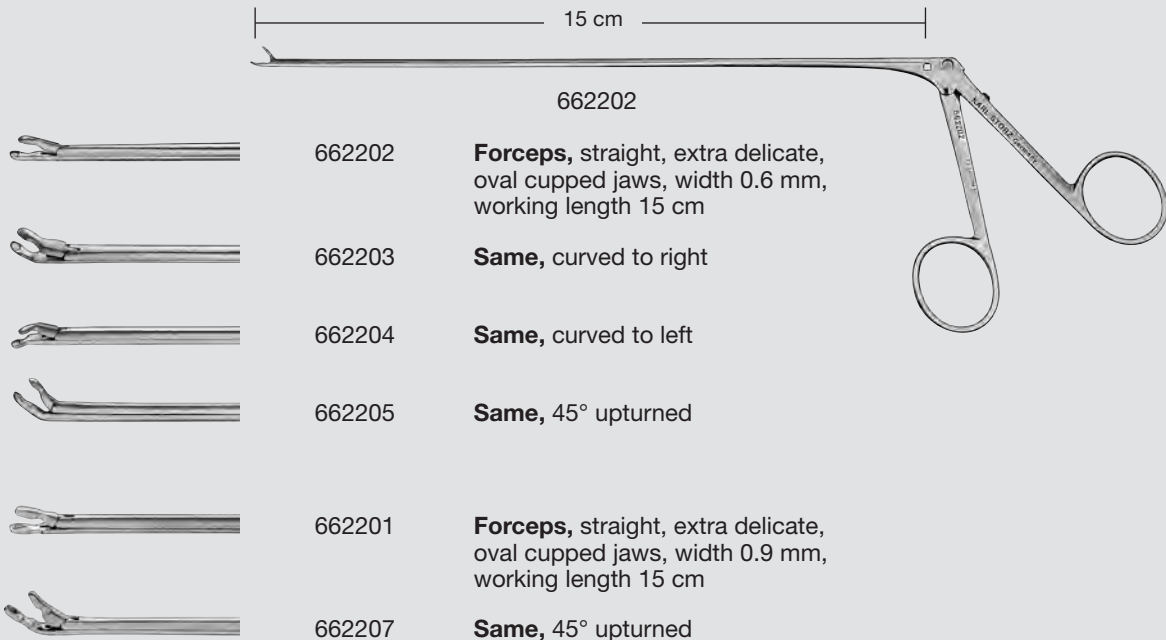
Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Delicate forceps and scissors – particularly suitable for postoperative treatment, working length 12.5 cm



Forceps, working length 15 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 15 cm

15 cm

662210



662210

Forceps, straight, not through-cutting, extra sharp, with oval, fenestrated cupped jaws, width 1.8 mm, working length 15 cm, color code: one blue handle



662212

Same, curved to right



662213

Same, curved to left



662214

Same, 45° upturned



662215

Same, 90° upturned

15 cm

662221



662221

Forceps, straight, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 15 cm



662223

Same, curved to right



662224

Same, curved to left



662227

Same, 45° upturned



662228

Same, 90° upturned



662211

Forceps, straight, not through-cutting, with oval, fenestrated cupped jaws, width 2.5 mm, working length 15 cm



662217

Same, 45° upturned



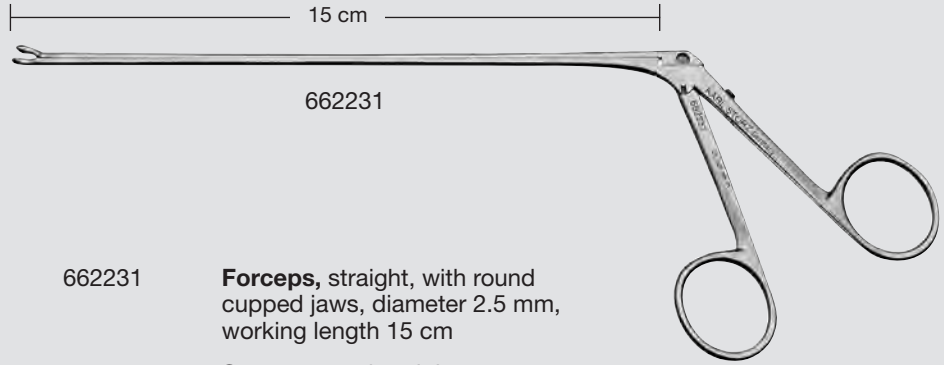
662218

Same, 90° upturned

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 15 cm



662231

Forceps, straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm



662235

Same, curved to right



662236

Same, curved to left



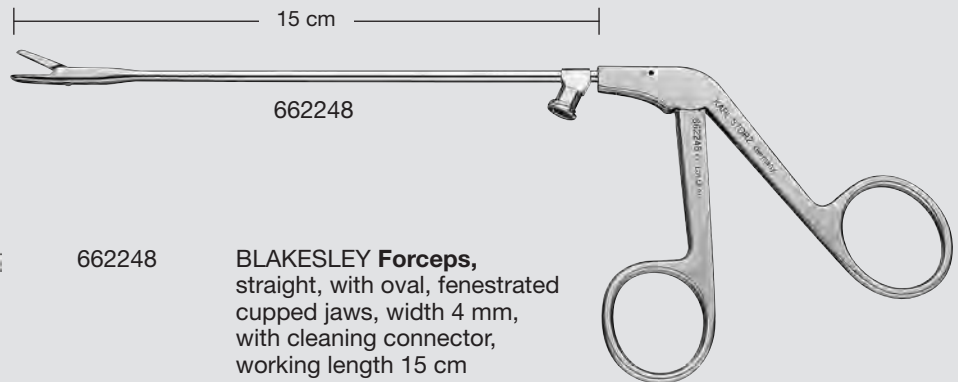
662237

Same, 45° upturned



662241

Forceps, straight, with round cupped jaws, diameter 4 mm, working length 15 cm



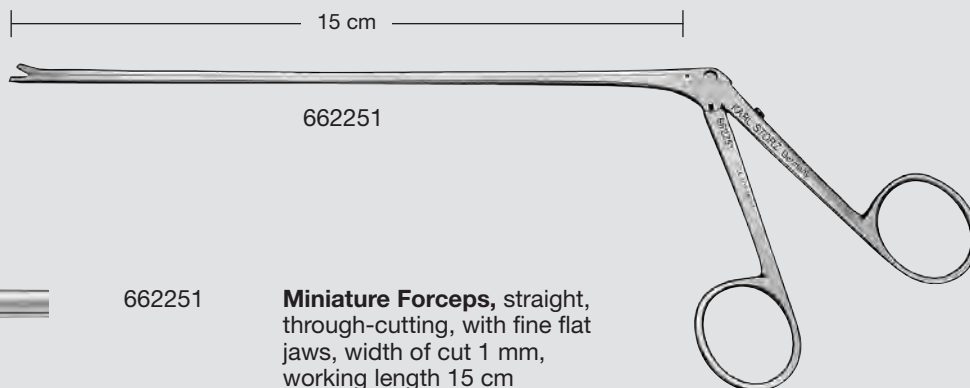
662248

BLAKESLEY Forceps, straight, with oval, fenestrated cupped jaws, width 4 mm, with cleaning connector, working length 15 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Miniature Forceps, working length 15 cm



662251

Miniature Forceps, straight, through-cutting, with fine flat jaws, width of cut 1 mm, working length 15 cm



662255

Same, curved to right



662256

Same, curved to left



662257

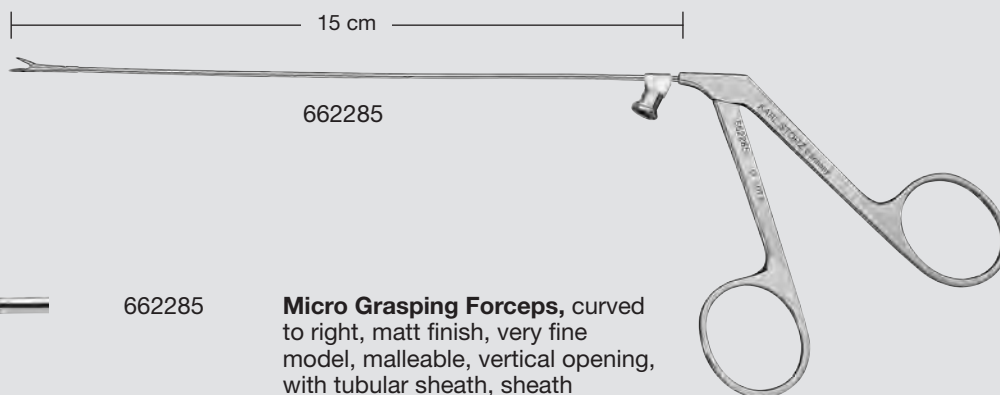
Same, curved upwards



662271

Grasping Forceps, straight, fine-serrated, working length 15 cm

Micro Grasping Forceps, working length 15 cm



662285

Micro Grasping Forceps, curved to right, matt finish, very fine model, malleable, vertical opening, with tubular sheath, sheath diameter 1.5 mm, with cleaning connector, working length 15 cm



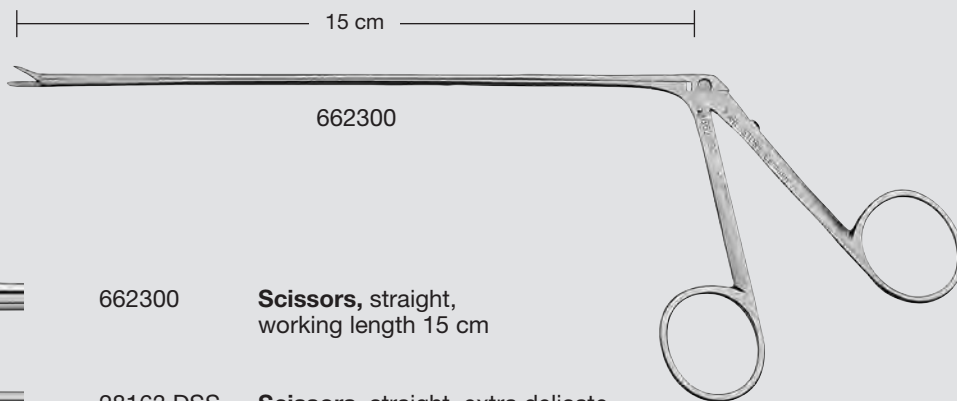
662286

Same, curved to left

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Scissors, working length 15 cm



662300

Scissors, straight,
working length 15 cm



28163 DSS

Scissors, straight, extra delicate,
working length 15 cm



662304

Same, curved to right, extra delicate



662305

Same, curved to left, extra delicate



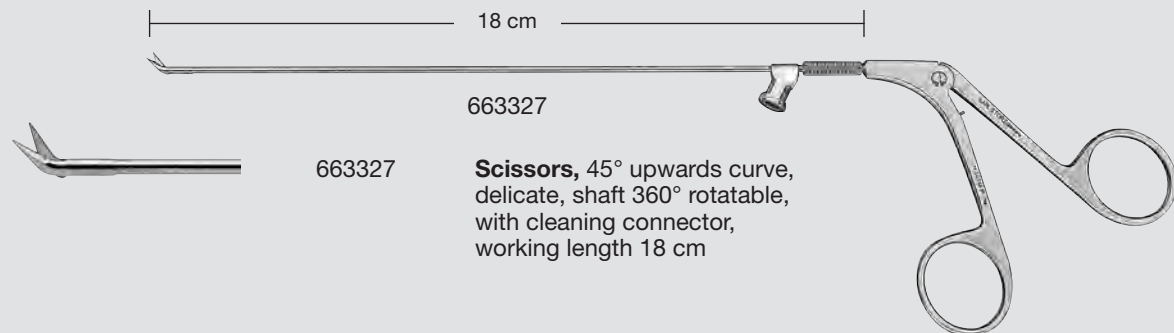
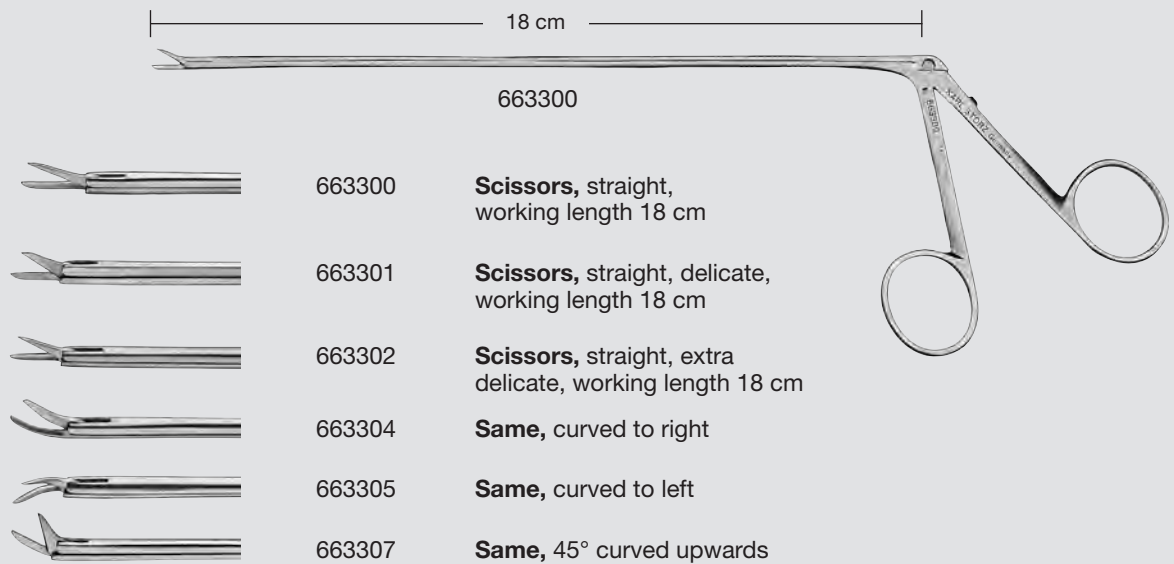
662307

Same, 45° curved upwards, extra delicate

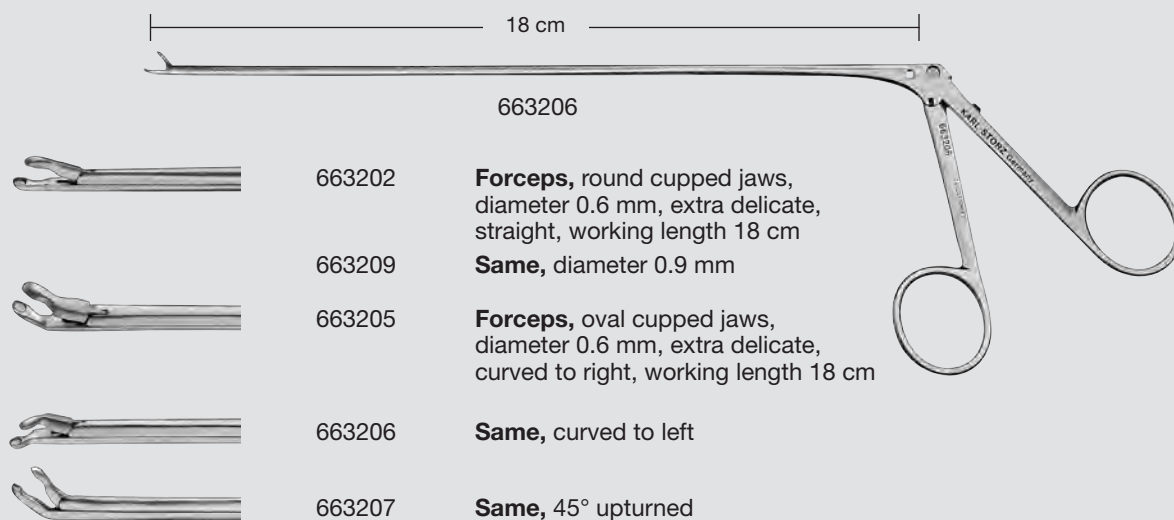
Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Scissors, working length 18 cm



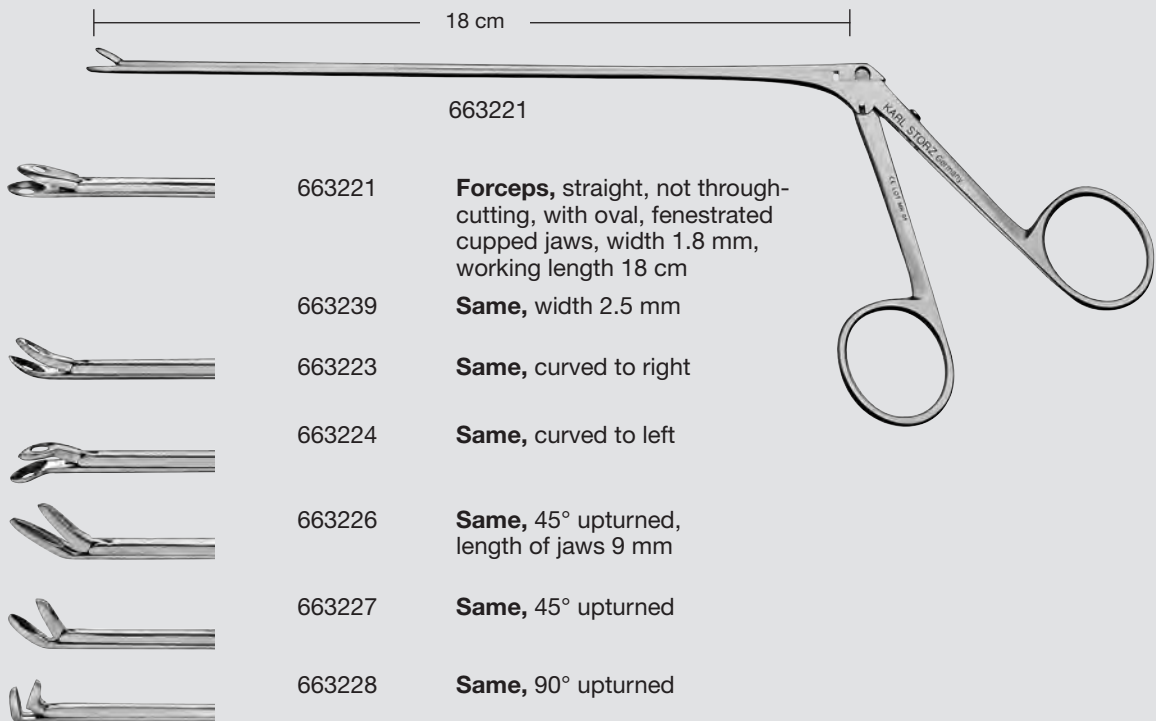
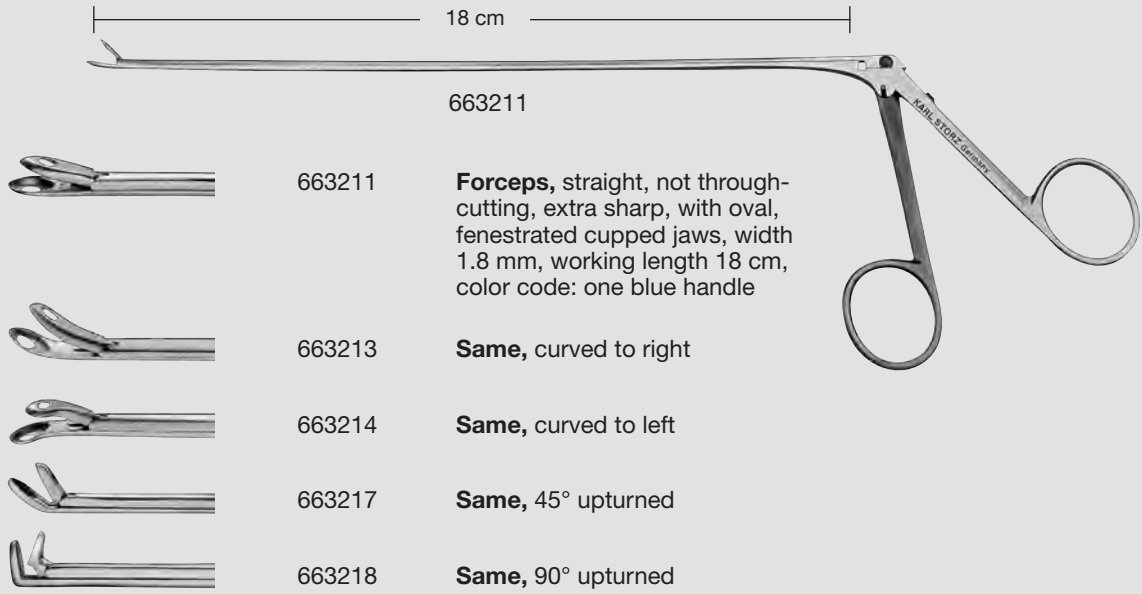
Forceps, working length 18 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

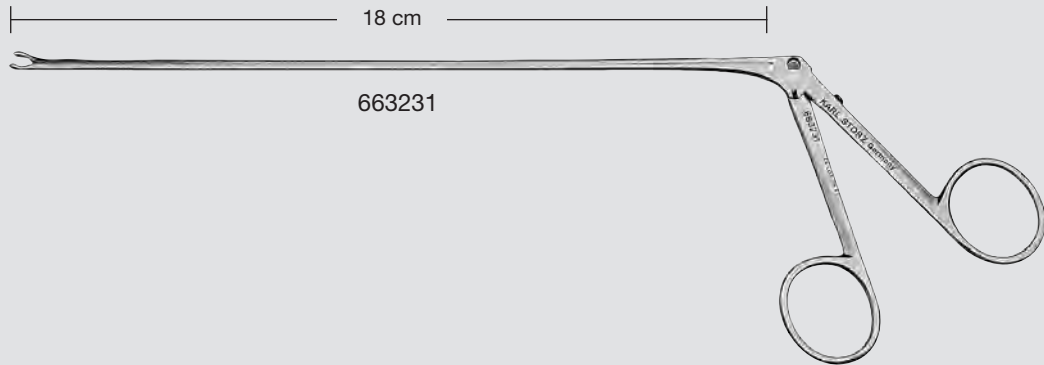
Forceps, working length 18 cm



Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 18 cm



663231

Forceps, straight, with round cupped jaws, diameter 2.5 mm, working length 18 cm



663235

Same, curved to right



663236

Same, curved to left



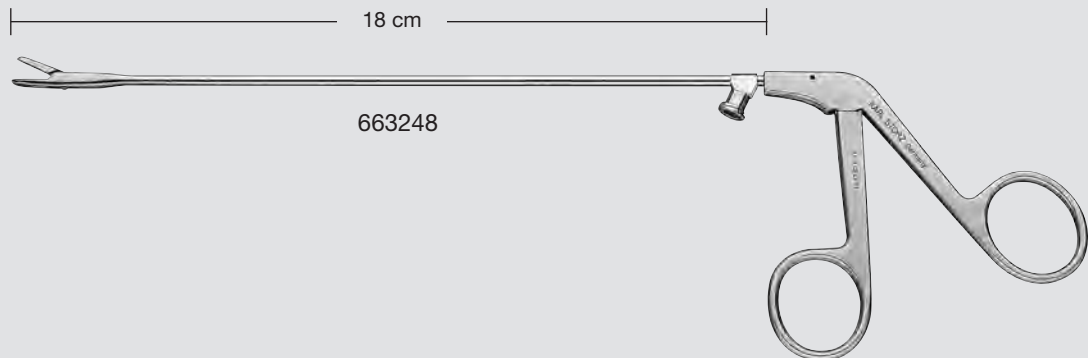
663237

Same, 45° upturned



663241

Same, diameter 4 mm



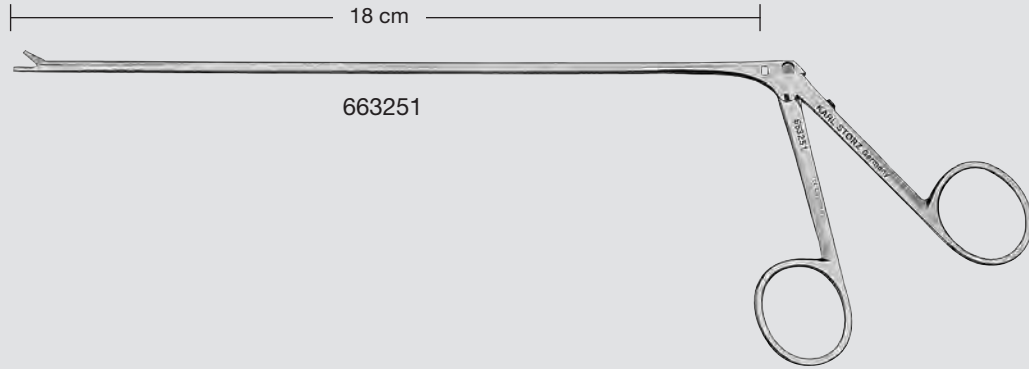
663248

BLAKESLEY Forceps, straight, with oval, fenestrated cupped jaws, width 4 mm, with cleaning connector, working length 18 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Forceps, working length 18 cm



663251

Miniature Forceps, straight, through-cutting, with fine flat jaws, width of cut 1 mm, working length 18 cm



663255

Same, curved to right



663256

Same, curved to left



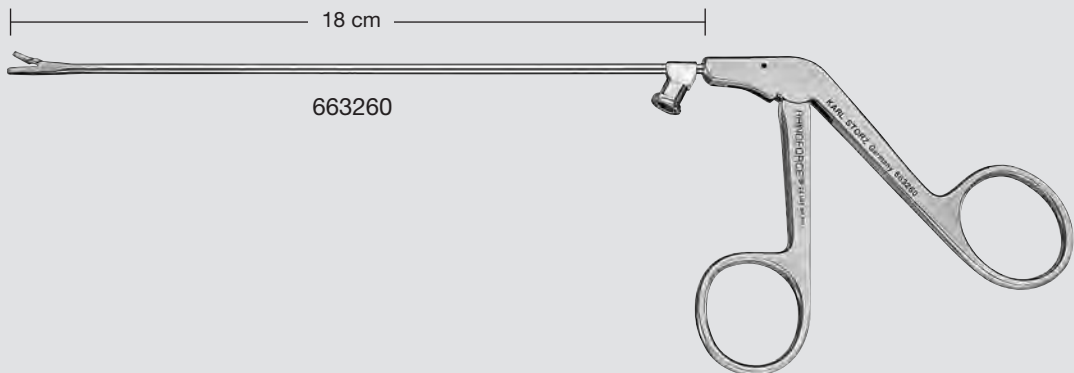
663257

Same, curved upwards



663271

Grasping Forceps, straight, fine-serrated, working length 18 cm



663260

GRÜNWARD-HENKE RHINOFORCE® II Forceps, straight, through-cutting, for a smooth cut, jaws 3 mm, BLAKESLEY shape, size 0, with cleaning connector, working length 18 cm

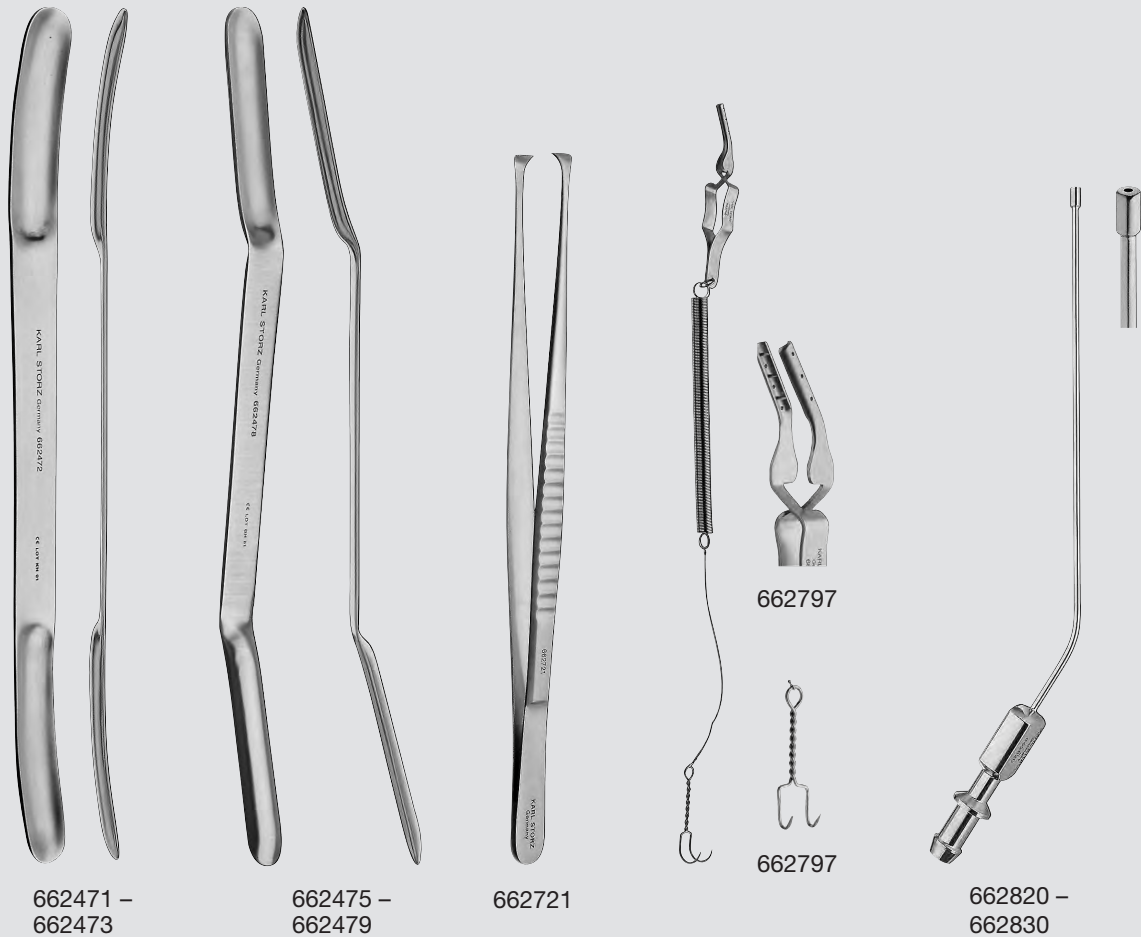


663263

Same, 45° upturned

Nose

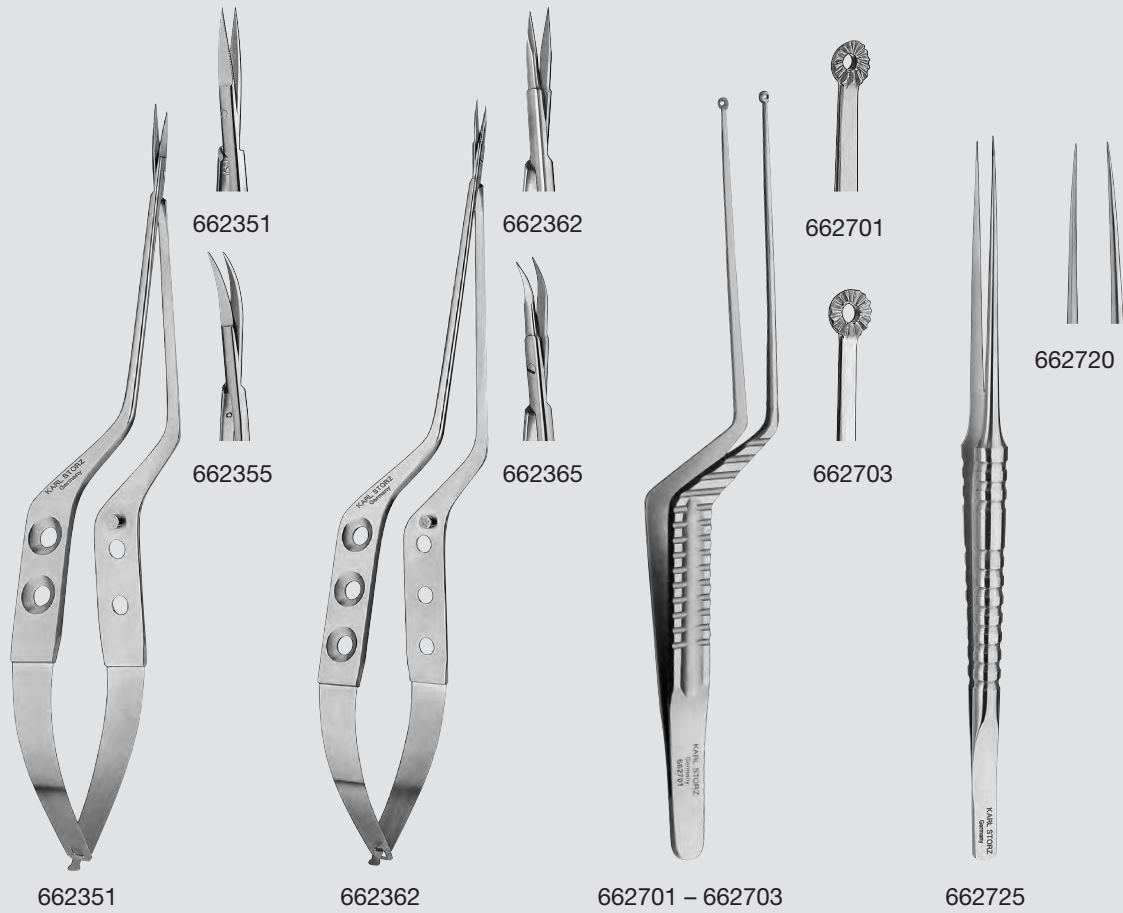
Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 662471 CUSHING **Brain Spatula**, angled on both sides, convex, malleable, width 11 and 13 mm, length 18 cm
- 662472 **Same**, width 15 and 18 mm
- 662473 **Same**, width 18 and 22 mm
- 662475 OLIVECRONA **Brain Spatula**, angled on both sides, concave, elastic, width 5 and 6 mm, length 18 cm
- 662476 **Same**, width 7 and 9 mm
- 662477 **Same**, width 11 and 13 mm
- 662478 **Same**, width 15 and 18 mm
- 662479 **Same**, width 18 and 22 mm
- 662721 ALLIS **Forceps**, with fine teeth, length 20 cm
- 662797 YASARGIL **Spring Hook**, small, diameter of spring 9 mm, total length 31 cm
- 662820 FRANK-PASQUINI **Suction Tube**, angular, tip straight, with grip plate and cut-off hole, diameter 2 mm, working length 12 cm
- 662825 **Same**, diameter 2.5 mm
- 662830 **Same**, diameter 3 mm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 662351 YASARGIL **Micro Scissors**, spring type, bayonet-shaped, scissor blades straight, length 20 cm
- 662355 YASARGIL **Same**, scissor blades curved downwards
- 662362 VANNAS **Micro Scissors**, spring type, bayonet-shaped, straight tips, length 20 cm
- 662365 **Same**, scissor blades curved upwards
- 662701 YASARGIL **Forceps**, for grasping tissue and tumors, round and serrated jaws, bayonet-shaped, diameter 3 mm, length 20 cm
- 662703 HUNT **Same**, diameter 5 mm
- 662720 **Micro Forceps**, tip 0.2 mm wide, straight, length 17 cm
- 662725 **Micro Forceps**, tip 0.5 mm wide, straight with plateau, length 17 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



663402



663405



663413



663461



663463



663466



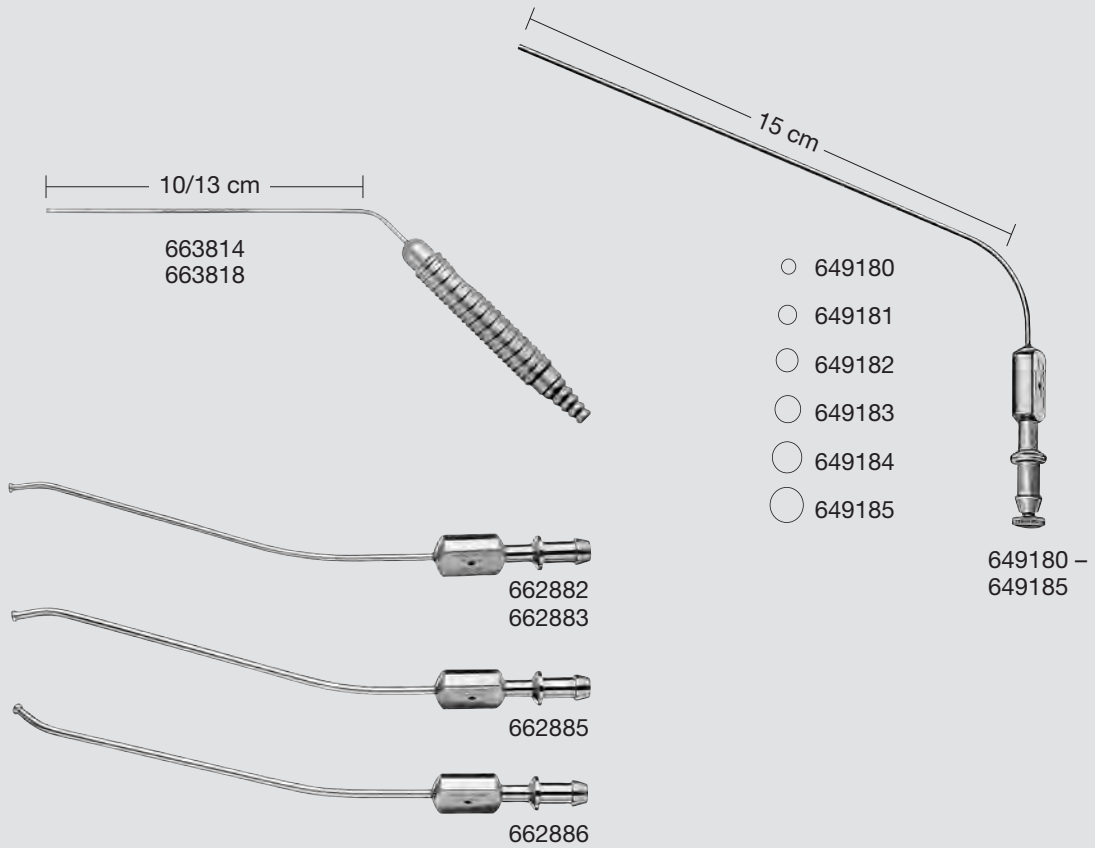
663482

- 663402 **Sickle Knife**, slightly curved,
with round handle, length 21.5 cm
- 663405 **Round Knife**, vertical, with round
handle, 4.5 x 3 mm, length 21.5 cm
- 663413 **Round Knife**, angled 30°, oval,
with round handle, 2.1 x 2.5 mm,
length 21.5 cm
- 663461 **Curette**, sharp, oval, angled 55°, 1.2 x
2 mm, with round handle, length 21.5 cm
- 663463 **Same**, angled 60°, 2 x 3.2 mm
- 663466 **Same**, angled 85°, 1.2 x 2 mm
- 663482 **Hook**, with ball end, angled 90°,
with round handle, length 21.5 cm

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

Suction Tubes, working length 10, 13 and 15 cm

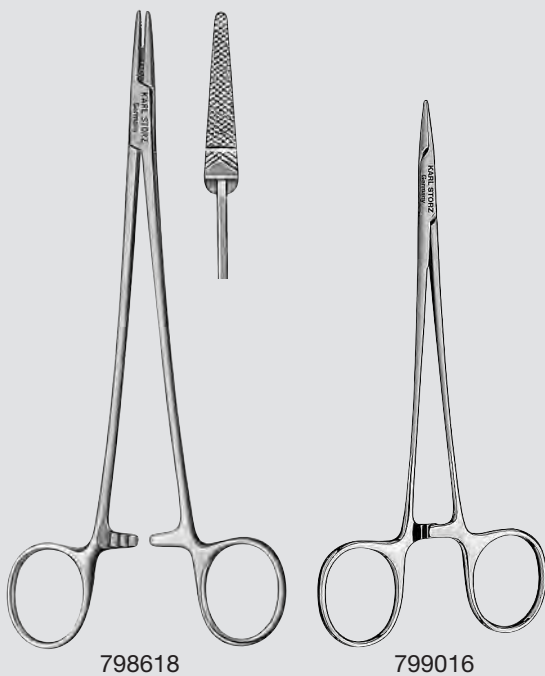
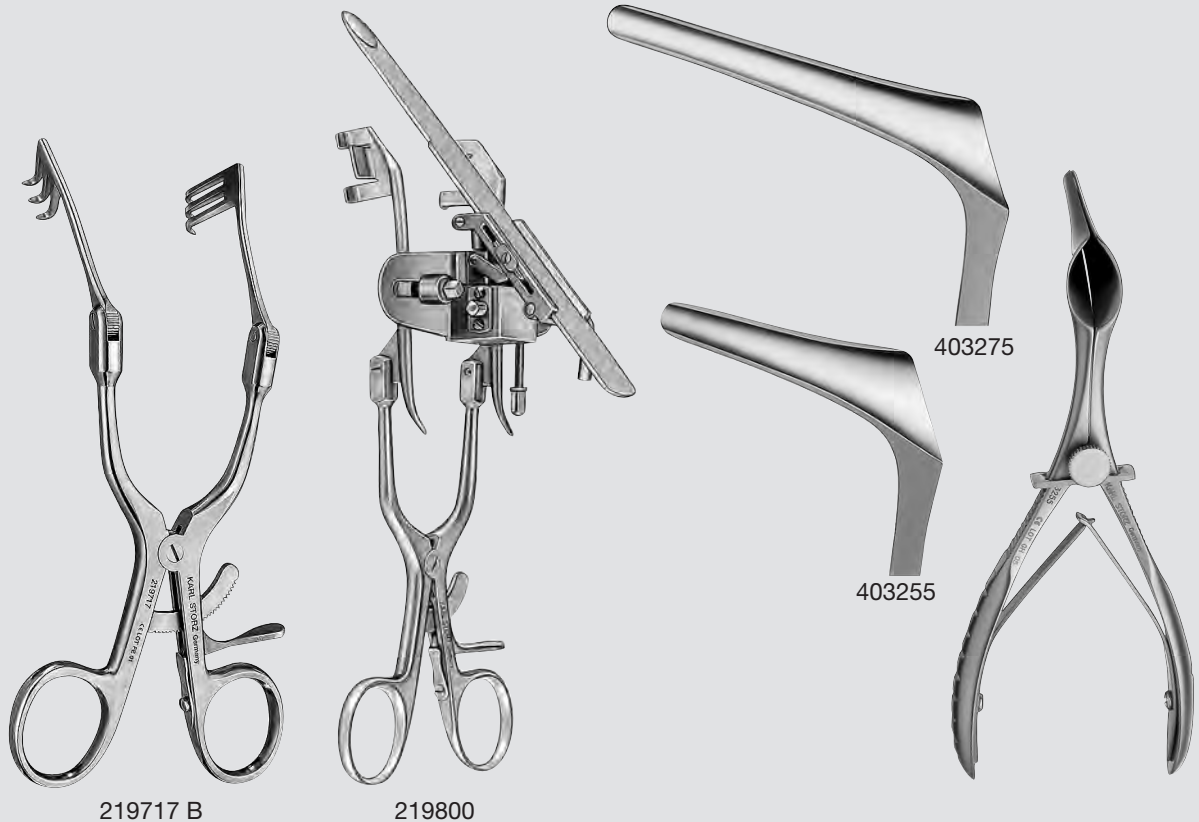


- | | |
|--------|---|
| 649180 | FERGUSON Suction Tube , with cut-off hole and stylet, LUER, 6 Fr., working length 15 cm |
| 649181 | Same , 7 Fr. |
| 649182 | Same , 8 Fr. |
| 649183 | Same , 10 Fr. |
| 649184 | Same , 12 Fr. |
| 649185 | Same , 15 Fr. |
| 663814 | Suction Tube , angular, malleable, with round handle and cut-off hole, diameter 2 mm, working length 10 cm |
| 663818 | Same , working length 13 cm |
| 662882 | FRANK-PASQUINI Suction Tube , angular, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, diameter 2.4 mm, working length 13 cm |
| 662883 | Same , curved downwards |
| 662885 | FRANK-PASQUINI Suction Tube , angular, tip curved upwards, ball end, with grip plate and cut-off hole, LUER, diameter 3 mm, working length 13 cm |
| 662886 | Same , curved downwards |

Components/Spare Parts see chapter 16

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base

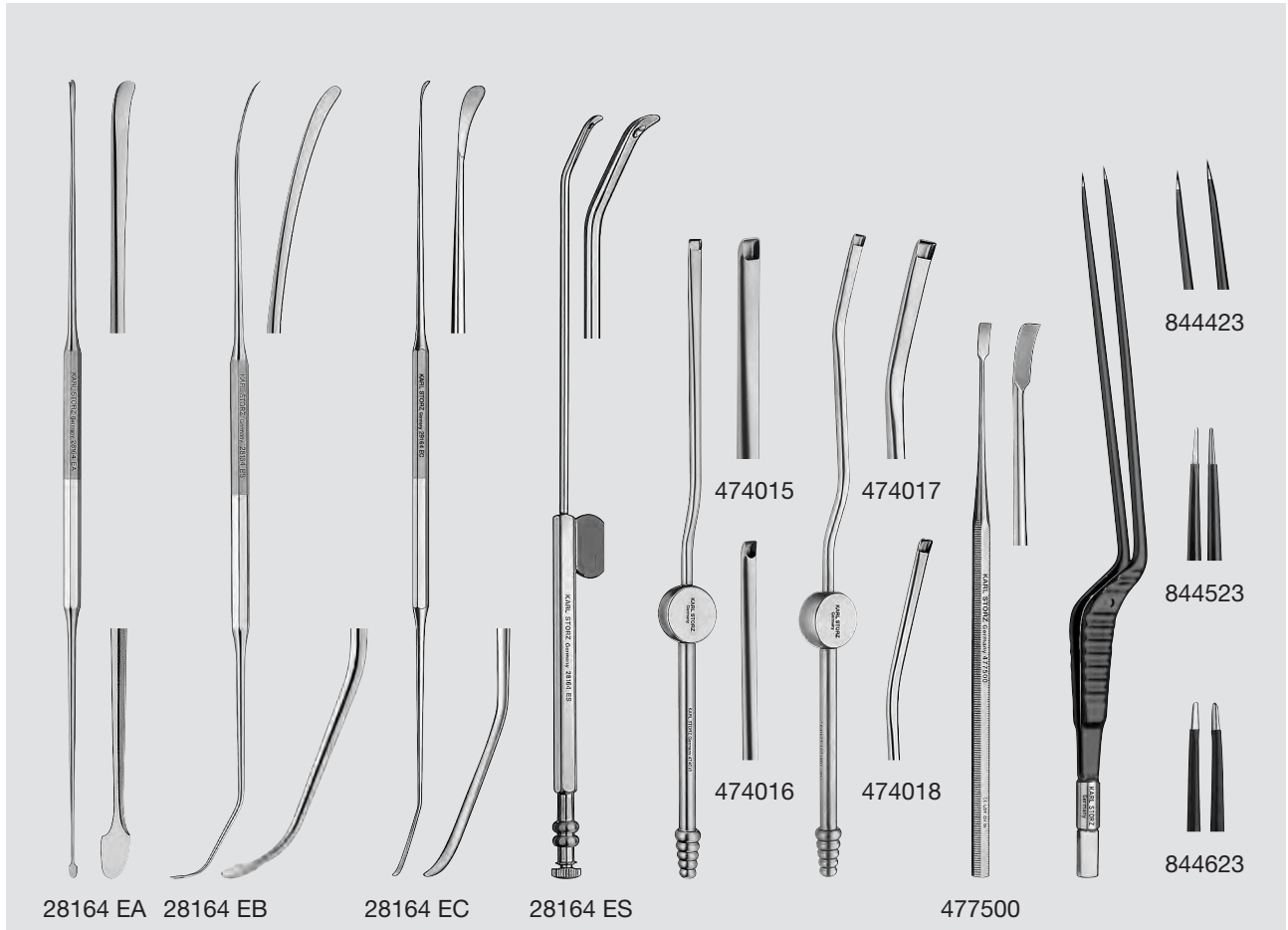


- 219717 B FISCH **Retractor**, articulated, 3 x 3 prongs, sharp, length 17 cm
- 219800 FISCH **Dura Retractor**, length 18 cm including:
 - Spatula**, straight, length 12 cm
 - Spatula**, straight, length 15 cm
 - Spatula**, curved, length 15 cm
 - Spatula Attachment**, for adjustment of spatulas
 - Wrench**, for spatula attachment
- 403255 KILLIAN-STRUYCKEN **Nasal Speculum**, with set rack, blade length 55 mm, length 15 cm
- 403275 **Same**, blade length 75 mm
- 798618 HEGAR **Needle Holder**, tungsten carbide inserts, slender, length 18 cm
- 799016 DRAF **Micro Needle Holder**, extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm

Components/Spare Parts see chapter 16

Nose

Nasal Sinuses,
Microscopic/Endoscopic Surgery
for Nasal Sinuses and Skull Base



- 28164 EA CASTELNUOVO **Elevator**, double-ended, semisharp and blunt, length 26 cm
- 28164 EB CASTELNUOVO **Elevator**, double-ended, angled end shovel-shaped, semisharp, blunt end slightly curved, length 26 cm
- 28164 EC CASTELNUOVO **Elevator**, double-ended, blunt end angled, semisharp end slightly curved, graduated, length 26 cm
- 28164 ES CASTELNUOVO **Suction Elevator**, with stylet, curved, length 25 cm
- 474015 CASTELNUOVO **Suction Elevator**, flat tip, 5 x 1.8 mm, lateral suction opening, bayonet-shaped, with grip plate, length 21 cm
- 474016 **Same**, flat tip 3 x 1.8 mm
- NEW** 474017 CASTELNUOVO **Suction Elevator**, flat tip 5 x 1.8 mm, lateral suction opening, bayonet-shaped, distal end curved, with grip plate, length 21 cm
- NEW** 474018 **Same**, 3 x 1.8 mm
- 477500 FREER **Raspator**, curved, width 4 mm, length 18 cm
- 844423 **Bipolar Coagulating Forceps**, insulated, bayonet-shaped, tip 0.3 mm, length 23 cm, for use with Bipolar High Frequency Cords 847000 E or 847000 A/F/M/N/S/T/V
- 844523 **Same**, tip 0.7 mm, length 23 cm
- 844623 **Same**, blunt, tip 1.2 mm, length 23 cm

THUMFART Irrigation and Suction Endoscope

with ring handle, with press or push button valve for switching irrigation on and off,
for use with HOPKINS® II telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths
723527 A – F and 723540 A – F

The suction-irrigation endoscope is used to clear the telescope lens of blood, secretions and condensation. It is no longer necessary to remove the telescope from the nasal cavity in order to clean the lens. This

eliminates the reorientation and adjustment of the surgical field which was necessary in the past and results in time savings and uninterrupted work.

Special Features:

- Handle is easy to hold and operate due to the ring handle and finger grip plate
- Irrigation-suction sheaths can be rotated 360° in the handle for use in all fields of view
- Continuous suction
- For use with high pressure irrigation or irrigation bag
- For use with HOPKINS® II telescopes diameter 2.7 and 4 mm
- Handle available with 2 different valves:
Press button valve with lock function:
 Pressing down the valve button into the lock position starts irrigation, pressing the valve button again releases the locked position and stops irrigation
Push button valve:
 Irrigation is only possible when the valve button is depressed



- 723620 THUMFART **Irrigation and Suction Handle**, with ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:
Press Button Valve, with lock function
- 723621 THUMFART **Irrigation and Suction Handle**, with ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:
Push Button Valve (irrigation only active when the valve button is depressed)
- 101010-10* **Single Use Push Button Pressure Valve**, for switching irrigation on and off, sterile, package of 10, for use with THUMFART and IRO Suction and Irrigation Handle 723620 H and 723622 H

IRO Irrigation and Suction Endoscope

with pistol grip handle, with press or push button valve for switching irrigation on and off,
for use with HOPKINS® II Telescopes diameter 2.7 and 4 mm as well as Irrigation and Suction Sheaths
723527 A – F and 723540 A – F

The IRO handle is distinguished by the following special features:

- Pistol-grip handle
- Irrigation-suction sheaths can be rotated 360° in the handle for use in all fields of view
- On-axis rotation of the sheath can be performed while maintaining the position of the pistol-grip handle. In this way, handling of instruments through the working channel is possible without becoming entangled with the fiber optic light cable.
- For use with HOPKINS® II Telescopes diameter 2.7 and 4 mm
- Grip is available with 2 different valves:
 - Press button valve with lock function: Pressing down the valve button into the lock position starts irrigation, pressing the valve button again releases the locked position and stops irrigation
 - Push button valve: Irrigation is only possible when the valve button is depressed
- For use with high pressure irrigation or irrigation bag
- Continuous suction



723622 IRO Irrigation and Suction Handle, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:

Press Button Valve, with lock function

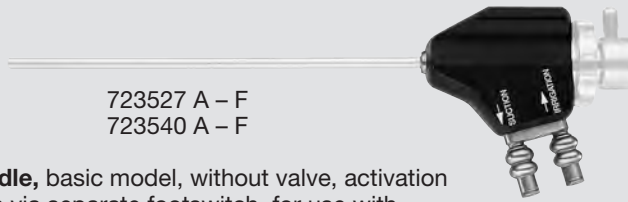
723623 IRO Irrigation and Suction Handle, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F including:

Push Button Valve (irrigation only active when the valve button is depressed)



7229 AA/BA/CA/FA
7230 AA/BA/CA/FA


723622/723623



723630 Irrigation and Suction Handle, basic model, without valve, activation and deactivation of irrigation via separate footswitch, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F

723630

101010-10* Single Use Push Button Pressure Valve, for switching irrigation on and off, sterile, package of 10, for use with THUMFART and IRO Suction and Irrigation Handle 723620 H and 723622 H

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

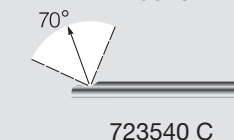
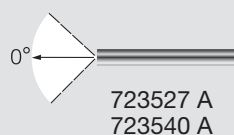
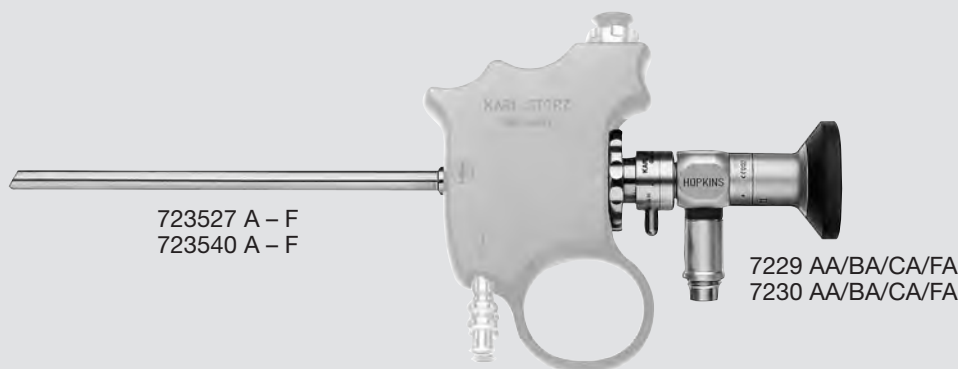
Components/Spare Parts see chapter 16

Irrigation and Suction Sheaths

for endoscopic nasal sinuses surgery, for use with Irrigation and Suction Handles 723620 – 723630 and HOPKINS® II telescopes with diameter 2.7 mm 7219 AA – FA, 7229 AA – FA and HOPKINS® II telescopes with diameter 4 mm 7230 AA – FA

Special Features:

- Design with double channel in a single sheath
- Maintenance free – no seal rings
- Hygienic – separate irrigation and suction canals
- Liquid which remains in the sheath cannot be rinsed out in the surgical area
- Slim, vertical oval sheath shapes: 3.5 x 4.7 mm and 4.8 x 6 mm
- Sheaths with inserted telescope can be rotated 360°
- 723527 A – F for use with 2.7 mm HOPKINS® II Telescopes with 0°, 30° and 45°
- 723540 A – F for use with 4 mm HOPKINS® Telescopes with 0°, 30°, 40° and 70°
- Suitable for IRO and THUMFART Irrigation and Suction Handles 723620 – 723623 and for 723630
- Easy preparation with Cleaning Accessories 723540 K/L, 723527 L



723527 A

Irrigation and Suction Sheath 0°, vertical oval, 3.5 x 4.7 mm, separate irrigation and suction channels, for use with Irrigation and Suction Handles 723620 – 723630, Cleaning Accessories 723527 L, 723540 K and Telescopes 7219 AA, 7229 AA

723527 B

Same, 30°, for use with Telescopes 7219 BA, 7229 BA

723527 F

Same, 45°, for use with Telescopes 7219 FA, 7229 FA

723540 A

Irrigation and Suction Sheath 0°, vertical oval, 4.8 x 6 mm, separate irrigation and suction channels, for use with Irrigation and Suction Handles 723620 – 723630, Cleaning Accessories 723540 K – L and Telescope 7230 AA

723540 B

Same, 30°, for use with Telescope 7230 BA

723540 F

Same, 45°, for use with Telescope 7230 FA

723540 C

Same, 70°, for use with Telescope 7230 CA

723540 K

Cleaning Attachment, for irrigation channel of Irrigation and Suction Sheaths 723527 A – F and 723540 A – F, LUER-Lock, length 3.5 cm

723540 L

Cleaning Tube, for suction/telescope channel of Irrigation and Suction Sheaths 723540 A – F and for Irrigation and Suction Sheaths 7230 AS – FS, LUER-Lock, length 23 cm

723527 L

Cleaning Tube, for suction/telescope channel of Irrigation and Suction Sheaths 723527 A – F and Irrigation and Suction Sheaths 7207 AS/BS, 7219 AS – FS, 7220 AS – FS and 7228 AS – FS, LUER-Lock, length 24 cm

CLEARVISION® II

for Intraoperative Cleaning of the Front Lens

CLEARVISION® II System

The KARL STORZ CLEARVISION® II System cleans the lens via a pulsating irrigation technique, which provides an unobstructed view during interventions in sinus or neural sinus surgery. The rinsing process is activated by pressing the footswitch. Releasing the footswitch reverses the pump to suction out any remaining irrigation fluid in the tube or irrigation sheath. The duration of the reverse rotation can be set on a switch on the front of the device. Any drops of irrigation liquid on the distal lens is removed to prevent reflections.

The CLEARVISION® II System can be used in conjunction with suitable sheaths for use with KARL STORZ HOPKINS® II Telescopes 7229 AA – FA and 7230 AA – FA.

Special Features:

- **The first stage (semi-pressed pedal) cleans the distal lens by means of a pulsating irrigation flow.**
- **The second stage (fully pressed pedal) activates a continuous irrigation flow.**
- **Two-stage footswitch**

Complete system configuration recommended




- 40 3341 01 CLEARVISION® II Set**, lens irrigation system for endoscopes, power supply 100 – 240 VAC, 50/60 Hz including:
Mains Cord
One-Pedal Footswitch
Silicone Tubing Set, sterilizable

- Optional accessory:**
031229-10* **Tubing Set**, sterile, package of 10

Specifications:

Irrigation	min. 30 min with 1 l irrigation liquid non-regulated flow (ml/min): 40	Dimensions w x h x d	100 x 180 x 70 mm
Power Supply	100-240 VAC, 50/60 Hz	Weight	1.5 kg
		Certified to	IEC 601-1, CE acc. to MDD

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see chapter 16

CLEARVISION® II

System Components

One-Pedal
Footswitch



20 0142 30

Silicone Tubing Set



40 3341 40

Irrigation Sheath



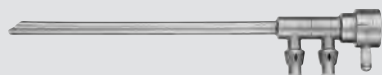
7230 FS

UNIT SIDE
PATIENT SIDE

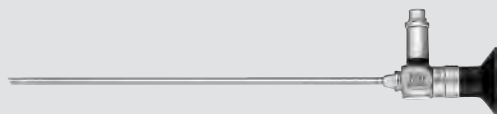















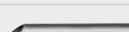

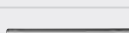
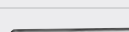
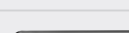
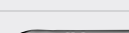
Irrigation Sheaths, proximally reinforced for use with Holder 28272 RKB

Irrigation Sheath, proximally reinforced for use with Adjustable Holder 28272 RKB



Compatible HOPKINS® Telescopes



Detail	Order No.	Outer Diameter	Working length	Order No.	View	Outer Diameter	Length
	7207 AS	3.5 x 4.7 mm	7 cm	7207 AA	0°	2.7 mm	11 cm
	7207 BS	3.5 x 4.7 mm	7 cm	7207 BA	30°	2.7 mm	11 cm
	7207 CS	3.5 x 4.7 mm	7 cm	7207 CA	70°	2.7 mm	11 cm
	7220 AS	4.8 x 3.7 mm	10 cm	7220 AA	0°	3 mm	14 cm
	7220 BS	4.8 x 3.7 mm	10 cm	7220 BA	30°	3 mm	14 cm
	7220 FS	4.8 x 3.7 mm	10 cm	7220 FA	45°	3 mm	14 cm
	7220 CS	4.8 x 3.7 mm	10 cm	7220 CA	70°	3 mm	14 cm
	7228 AS	4.8 x 6 mm	11 cm	7228 AA	0°	4 mm	15 cm
	7228 BS	4.8 x 6 mm	11 cm	7228 BA	30°	4 mm	15 cm
	7228 FS	4.8 x 6 mm	11 cm	7228 FA	45°	4 mm	15 cm
	7228 CS	4.8 x 6 mm	11 cm	7228 CA	70°	4 mm	15 cm
	7230 AS	4.8 x 6 mm	14 cm	7230 AA 28132 AA	0°	4 mm	18 cm
	7230 BS	4.8 x 6 mm	14 cm	7230 BA 28132 BA	30°	4 mm	18 cm
	7230 FS	4.8 x 6 mm	14 cm	7230 FA 28132 FA	45°	4 mm	18 cm
	7230 CS	4.8 x 6 mm	14 cm	7230 CA 28132 CA	70°	4 mm	18 cm
	7219 AS	3.5 x 4.7 mm	14 cm	7219 AA 7229 AA	0°	2.7 mm	18 cm
	7219 BS	3.5 x 4.7 mm	14 cm	7219 BA 7229 BA	30°	2.7 mm	18 cm
	7219 FS	3.5 x 4.7 mm	14 cm	7219 FA 7229 FA	45°	2.7 mm	18 cm
	7219 CS	3.5 x 4.7 mm	14 cm	7219 CA 7229 CA	70°	2.7 mm	18 cm

723527 L **Cleaning Tube**, for suction/telescope channel of Irrigation and Suction Sheaths 723527 A – F and Irrigation and Suction Sheaths 7207 AS/BS, 7219 AS – FS, 7220 AS – FS and 7228 AS – FS, LUER-Lock, length 24 cm

723540 L **Cleaning Tube**, for suction/telescope channel of Irrigation and Suction Sheaths 723540 A – F and for Irrigation and Suction Sheaths 7230 AS – FS, LUER-Lock, length 23 cm

Holding Systems

with KSLOCK, for use with Irrigation Sheaths for CLEARVISION® II System



28272 RKB **Holding System, autoclavable**, with quick release coupling KSLOCK

including:

Rotation Socket, to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand

Articulated Stand, reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female)

Clamping Jaw, metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths

3-05z



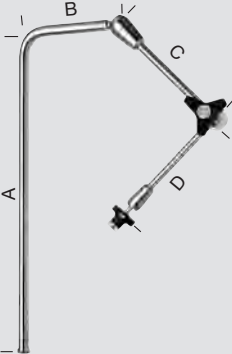
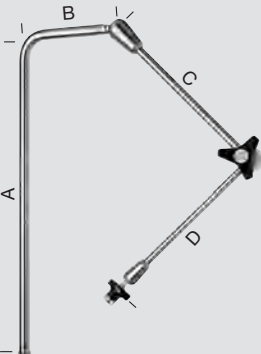
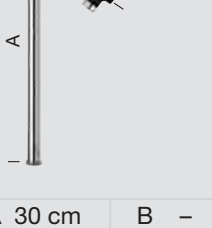
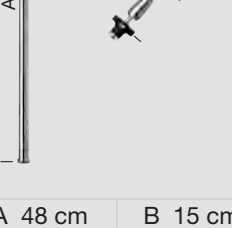


Further holding systems see page 204 and chapter 15, MICROSCOPY

Components/Spare Parts see chapter 16

Holding Systems

with KSLOCK



Socket	Articulated Stand					
28172 HK	28272 HA		28272 HB		28272 HC	
						
28172 HR						
	A 30 cm	B –	A 48 cm	B 15 cm	A 48 cm	B 15 cm
	C 20 cm	D 17 cm	C 20 cm	D 17 cm	C 27 cm	D 24 cm

Clamping Jaw	Complete Instrument		
28272 UGN	28272 KGA	28272 KGB	28272 KGC
	28272 RGA	28272 RGB	28272 RGC



Clamping Jaw, metal, with axial intake, for use with all square-headed KARL STORZ Telescopes, clamping range 16.5 up to 23 mm

28272 UKN	28272 KKA	28272 KKB	28272 KKC
	28272 RKA	28272 RKB	28272 RKC



Clamping Jaw, metal, with axial intake, for use with instrument, irrigation and telescope sheaths, clamping range 4.8 up to 12.5 mm

28272 UL	28272 KLA	28272 KLB	28272 KLC
	28272 RLA	28272 RLB	28272 RLC




Clamping Jaw, universal, clamping range 0 – 18 mm

28272 UF	28272 KFA	28272 KFB	28272 KFC
	28272 RFA	28272 RFB	28272 RFC



Clamping Jaw, for use with all KARL STORZ polymer housing fiberscopes

Clamping Cylinder		
	28272 C	Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope.



■ MOTOR SYSTEMS

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO

High-Performance EC Micro Motor II

High-Speed Micro Motor

DrillCut-X® II Shaver Handpieces

DrillCut-X® II N Shaver Handpieces

Shaver Blades

Sinus Burrs

INTRA Drill Handpieces

Burrs

STAMMBERGER-SACHSE Intranasal Drill

High-Speed Handpieces

High-Speed Burrs

Motor Systems

Special Features

UNIDRIVE® S III ENT SCB/UNIDRIVE® S III ECO

The multifunctional unit for ENT



UNIDRIVE® S III ENT SCB



UNIDRIVE® S III ECO

Special Features:

	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen: Function selection via touch screen	●	-
Set values of the last session are stored	●	●
Choice of user languages	●	-
Color display	●	-
One unit – multifunctional:		
– Shaver system for surgery of the paranasal sinuses and anterior skull base	}	●
– INTRA Drill Handpieces (40,000 rpm and 80,000 rpm)		
– Sinus Shaver		
– Micro Saws		
– STAMMBERGER-SACHSE Intranasal Drill		
– Dermatome	}	●
– High-Speed Handpieces (60,000 rpm and 100,000 rpm)		
Two motor outputs: Two motor outputs enable simultaneous connection of two motors: For example, a shaver and micro motor	●	●
Soft start function	●	-
Formulated error messages	●	-
Integrated irrigation and coolant pump:		
– Micro-processor controlled irrigation rate	●	●
– Quick and easy connection of the tubing set		
Program selection via automated motor recognition	●	●
Continuously variable revolution range	●	●
Maximum number of revolutions and motor torque: Microprocessor-controlled revolutions per minute. Therefore the preselected parameters are maintained all the time during drilling.	●	●
Maximum number of revolutions can be preset	●	●
With connection possibilities to the KARL STORZ Communication Bus (KARL STORZ-SCB)	●	-
Irrigator rod included	●	-

System specifications

Mode		Order No.	rpm
Shaver mode Operation mode: Max. rev. (rpm):	oscillating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece	40 7120 50	10,000
	DrillCut-X® II N Shaver Handpiece	40 7120 55	10,000
Sinus burr mode Operation mode: Max. rev. (rpm):	rotating in conjunction with Handpiece: DrillCut-X® II Shaver Handpiece	40 7120 50	12,000
	DrillCut-X® II N Shaver Handpiece	40 7120 55	12,000
High-speed drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: High-Speed Micro Motor	20 7120 33	60,000/100,000
Drilling mode Operation mode: Max. rev. (rpm):	counterclockwise or clockwise in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	40,000/80,000
Micro saw mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	15,000/20,000
Intranasal drill mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	60,000
Dermatome mode Max. rev. (rpm):	in conjunction with: micro motor and connecting cable	[20 7110 33] [20 7111 73]	8,000
Power supply:	100 – 240 VAC, 50/60 Hz		
Dimensions: (w x h x d)	300 x 165 x 265 mm		
Two outputs for parallel connection of two motors			
Integrated irrigation pump:			
Flow:	adjustable in 9 steps		

	UNIDRIVE® S III ENT SCB	UNIDRIVE® S III ECO
Touch Screen:	6,4" / 300 cd/m ²	
Weight:	5.2 kg	4.7 kg
Certified to:	IEC 601-1 CE acc. to MDD	IEC 60601-1
Available languages:	English, French, German, Spanish, Italian, Portuguese, Greek, Turkish, Polish, Russian	numerical codes

Motor Systems

Special features of high-performance EC micro motor II
and of the high-speed micro motor

Special features of high-performance EC micro motor II:

- Self-cooling, brushless high-performance EC micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Detachable connecting cable
- INTRA coupling
- Maximum torque 4 Ncm
- Number of revolutions can be continuously adjusted up to 40,000 rpm
- Possible to adjust the number of revolutions to 80,000 rpm with the appropriate handle



20 7110 33

20 7110 33 **High-Performance EC Micro Motor II**, for use with UNIDRIVE® II/UNIDRIVE® ENT/OMFS/NEURO/ECO and Connecting Cable 20 7110 73, or for use with UNIDRIVE® S III ENT/ECO/NEURO and Connecting Cable 20 7111 73



20 7111 73 **Connecting Cable**, to connect High-Performance EC Micro Motor 20 7110 33 to UNIDRIVE® S III ENT/ECO/NEURO

Special Features of the high-speed micro motor:

- Brushless high-speed micro motor
- Autoclavable
- Can be processed in a cleaning machine
- Maximum torque 6 Ncm
- Number of revolutions can be continuously adjusted up to 60,000 rpm
- Possible to adjust the number of revolutions to 100,000 rpm with the appropriate handle



20 7120 33

20 7120 33 **High-Speed Micro-Motor**, max. speed 60,000 rpm, including connecting cable, for use with UNIDRIVE® S III ENT/NEURO

UNIDRIVE® S III ENT SCB

UNIDRIVE® S III ECO



40 7016 20-1



40 7014 20

40 7016 01-1 UNIDRIVE® S III ENT SCB, motor control unit with color display, touch screen, two motor outputs, integrated irrigation pump and SCB module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Irrigator Rod

Two-Pedal Footswitch, two-stage, with proportional function

Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

SCB Connecting Cable, length 100 cm

Single Use Tubing Set*, sterile, package of 3

40 7014 01 UNIDRIVE® S III ECO, motor control unit with two motor outputs and integrated irrigation pump, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

Two-Pedal Footswitch, two-stage, with proportional function


Silicone Tubing Set, for irrigation, sterilizable

Clip Set, for use with silicone tubing set **20 7116 40**

Single Use Tubing Set*, sterile, package of 3

Specifications:

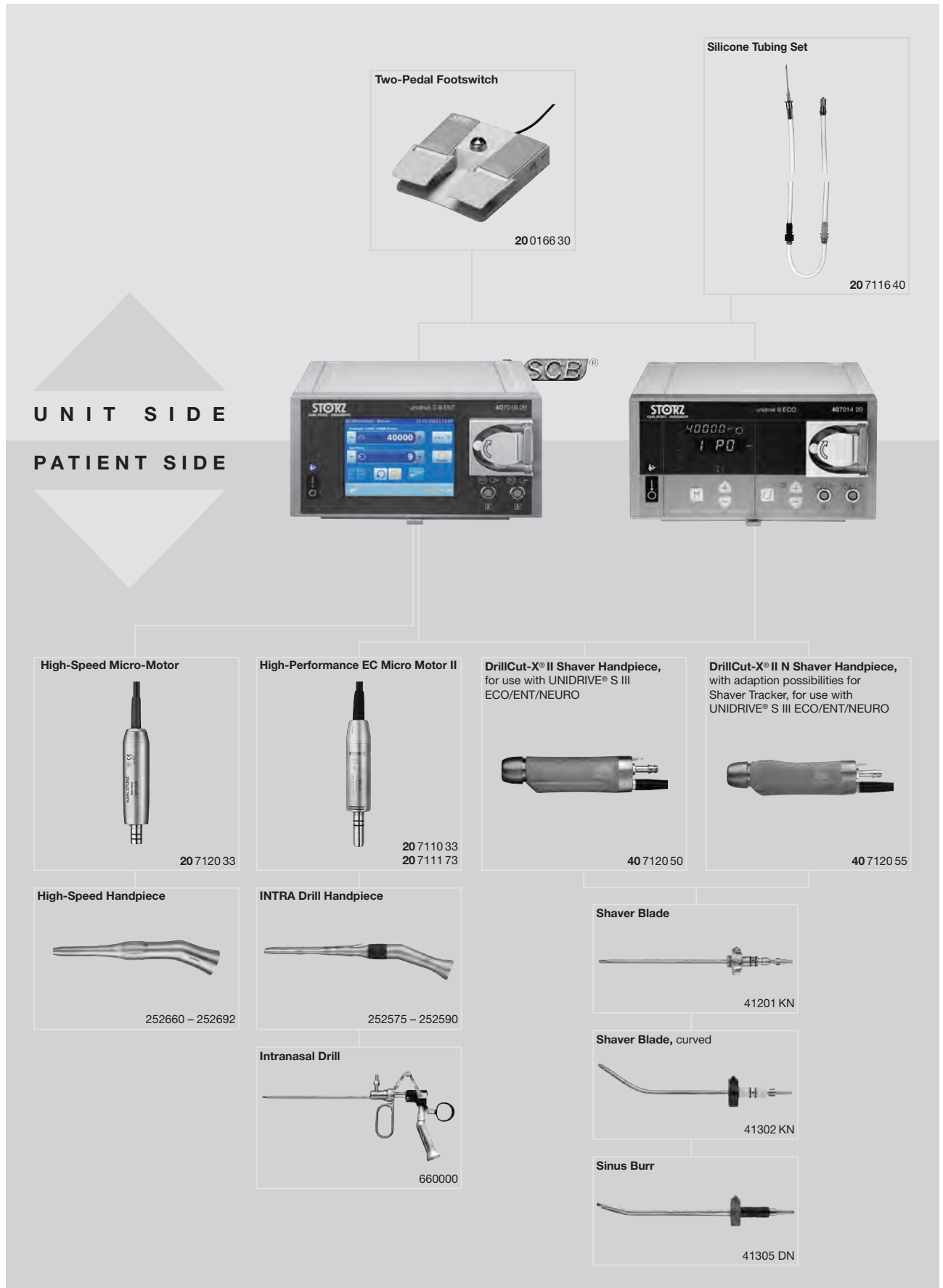
Touch Screen	UNIDRIVE® S III ENT SCB: 6,4"/300 cd/m ²	Dimensions w x h x d	300 x 165 x 265 mm
Flow	9 steps	Weight	5.2 kg
Power supply	100-240 VAC, 50/60 Hz	Certified to	IEC 601-1, CE acc. to MDD

*  mtp medical technical promotion gmbh,
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Components/Spare Parts see chapter 16

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO

System Components



Two-Pedal Footswitch

200166 30

Silicone Tubing Set

207116 40

STORZ UNIDRIVE S III ENT SCB 407016 20

STORZ UNIDRIVE S III ECO 407014 20

High-Speed Micro-Motor

207120 33

High-Performance EC Micro Motor II

207110 33
207111 73

DrillCut-X® II Shaver Handpiece, for use with UNIDRIVE® S III ECO/ENT/NEURO

407120 50

DrillCut-X® II N Shaver Handpiece, with adaption possibilities for Shaver Tracker, for use with UNIDRIVE® S III ECO/ENT/NEURO

407120 55

High-Speed Handpiece

252660 - 252692

INTRA Drill Handpiece

252575 - 252590

Shaver Blade

41201 KN

Shaver Blade, curved

41302 KN

Intranasal Drill

660000

Sinus Burr

41305 DN

4-03s

Optional Accessories

for UNIDRIVE® S III ENT SCB and UNIDRIVE® S III ECO



280053 **Universal Spray**, 6x 500 ml bottles – HAZARDOUS GOODS – UN 1950
including:
Spray Nozzle

280053 C **Spray Nozzle**, for the reprocessing of INTRA burr handpieces,
for use with Universal Spray 280053 B



031131-10* **Tubing Set**, for irrigation, for single use, sterile,
package of 10



mtp medical technical promotion gmbh,
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DrillCut-X® Shaver Handpieces

Special Features

Special Features:

Max. 10,000 rpm for shaver blades, max. 12,000 rpm for sinus shavers

Straight suction channel

Integrated irrigation channel

Completely immersible and machine-washable

Rapid coupling for fixation of shaver blades and sinus shavers

Can be adapted to navigated shaver tracker

DrillCut-X® II
40 7120 50

DrillCut-X® II N
40 7120 55

●

●

●

●

●

●

●

●

●

●

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●



40 7120 50

40 7120 50 **DrillCut-X® II Shaver Handpiece**, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 55

40 7120 55 **DrillCut-X® II N Shaver Handpiece**, with adaption possibilities for Shaver Tracker 40 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO

DrillCut-X® II Shaver Handpieces

Special Features:

- Powerful motor
- Oscillation mode for shaver blades, max. 10,000 rpm
- Rotation mode for sinus shavers, max. 12,000 rpm
- Straight suction channel and integrated irrigation
- Variable handle allows connection with various handpieces
- Suitable for use in washer and autoclavable at 134° C
- Quick coupling mechanism for exchange of work inserts
- Proven DrillCut-X® blade portfolios can be used



40 7120 50

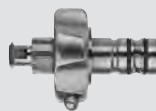
40 7120 50 **DrillCut-X® II Shaver Handpiece**, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Optional Accessory:



41250 RA

41250 RA **Cleaning Adaptor**, LUER-Lock, for cleaning DrillCut-X® shaver handpieces

DrillCut-X® II N Shaver Handpieces

Special Features:

- Powerful motor
- Oscillation mode for shaver blades, max. 10,000 rpm
- Rotation mode for sinus shavers, max. 12,000 rpm
- Straight suction channel and integrated irrigation
- Variable handle allows connection with various handpieces
- Suitable for use in washer and autoclavable at 134° C
- Quick coupling mechanism facilitates rapid exchange of working inserts
- Proven DrillCut-X® blade portfolios can be used
- Adaptation possibilities for Shaver Tracker 40 8001 22
- Allows shaver navigation when used with NAV1® PICO 40 8000 01



40 7120 55

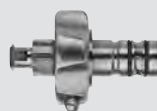
40 7120 55 **DrillCut-X® II N Shaver Handpiece**, with adaption possibilities for Shaver Tracker 40 8001 22, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Optional Accessory:



41250 RA

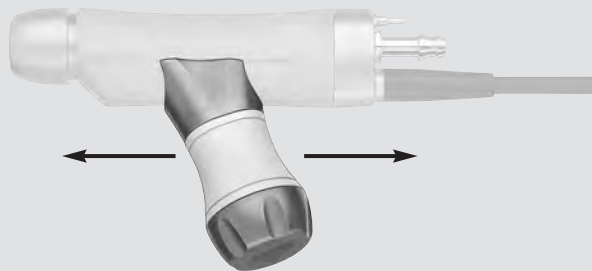
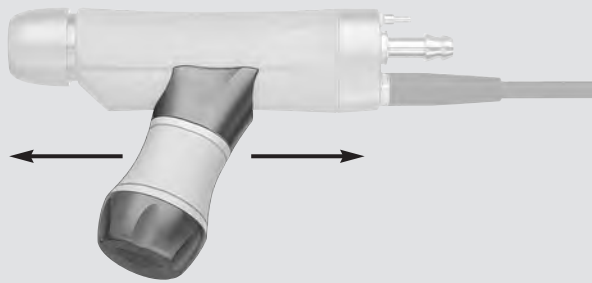
41250 RA **Cleaning Adaptor**, LUER-Lock, for cleaning DrillCut-X® shaver handpieces

Handle for DrillCut-X® II Shaver Handpiece

for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Special Features:

- Easy handle control allows individual adjustment
- Variable mounting options to DrillCut-X® II or DrillCut-X® II N shaver handpieces
- Fixation via rotary lock
- Suitable for use in washer and autoclavable at 134 °C



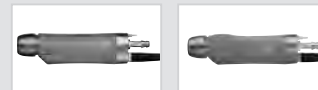
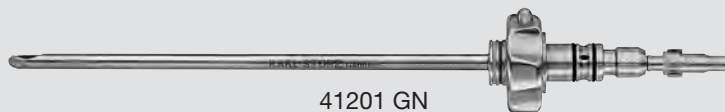
40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

Shaver Blades, straight

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



Shaver Blades, straight, sterilizable

Detail	for use with		Shaver Blade length 12 cm
	40 7120 50 DrillCut-X® II Handpiece	40 7120 55 DrillCut-X® II N Handpiece	
		41201 KN	serrated cutting edge, diameter 4 mm, color code: blue-red
		41201 KK	double serrated cutting edge, diameter 4 mm, color code: blue-yellow
		41201 GN	concave cutting edge, oval cutting window, diameter 4 mm, color code: blue-green
		41201 LN	concave cutting edge, oblique cutting window, diameter 4 mm, color code: blue-black
		41201 SN	straight cutting edge, diameter 4 mm, color code: blue-blue
		41201 KSA	serrated cutting edge, diameter 3 mm, color code: blue-red
		41201 KKSA	double serrated cutting edge, diameter 3 mm, color code: blue-yellow
		41201 KKSB	double serrated cutting edge, diameter 2 mm, color code: blue-yellow
		41201 LSA	concave cutting edge, oblique cutting window, diameter 3 mm, color code: blue-black

Optional Accessory:



41200 RA

Cleaning Adaptor, LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

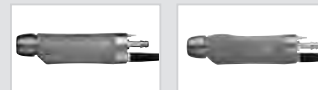
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41204 KKB



Shaver Blades, curved 35°/40°, sterilizable

Detail	for use with	Shaver Blade length 12 cm
	40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece	
	41202 KN	curved 35°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41204 KKF	curved 40°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41204 KKB	curved 40°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41204 KKFA	curved 40°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41204 KKBA	curved 40°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow

Optional Accessory:



41200 RA

Cleaning Adaptor, LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

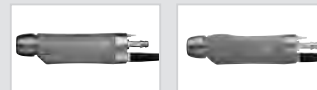
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41203 KKF



Shaver Blades, curved 65°, sterilizable

Detail	for use with		Shaver Blade length 12 cm
	40 7120 50 DrillCut-X® II Handpiece	40 7120 55 DrillCut-X® II N Handpiece	
	41203 KNF		curved 65°, cutting edge serrated forwards, diameter 4 mm, color code: blue-red
	41203 KNB		curved 65°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41203 KKF		curved 65°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41203 KKB		curved 65°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41203 KKFA		curved 65°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41203 KKBA		curved 65°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow
	41203 GNF		curved 65°, concave cutting edge, oval cutting window, forward opening, diameter 4 mm, color code: blue-green
	41203 GNB		curved 65°, concave cutting edge, oval cutting window, backward opening, diameter 4 mm, color code: blue-green

Optional Accessory:



41200 RA

Cleaning Adaptor, LUER-Lock, for cleaning the inner and outer blades of reusable Shaver Blades 412xx

Components/Spare Parts see chapter 16

Shaver Blades, straight

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



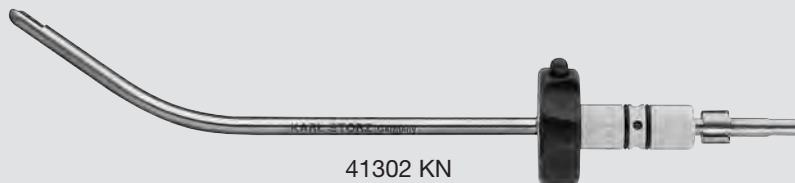
Shaver Blades, straight, **for single use**, sterile, package of 5

Detail	for use with	Shaver Blade length 12 cm
	40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece	
	41301 KN	serrated cutting edge, diameter 4 mm, color code: blue-red
	41301 KK	double serrated cutting edge, diameter 4 mm, color code: blue-yellow
	41301 GN	concave cutting edge, oval cutting window, diameter 4 mm, color code: blue-green
	41301 LN	concave cutting edge, oblique cutting window, diameter 4 mm, color code: blue-black
	41301 SN	straight cutting edge, diameter 4 mm, color code: blue-blue
	41301 KSA	serrated cutting edge, diameter 3 mm, color code: blue-red
	41301 KKSA	double serrated cutting edge, diameter 3 mm, color code: blue-yellow
	41301 KKSB	double serrated cutting edge, diameter 2 mm, color code: blue-yellow
	41301 LSA	concave cutting edge, oblique cutting window, diameter 3 mm, color code: blue-black

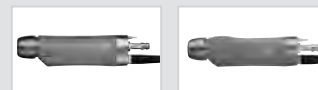
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41302 KN



Shaver Blades, curved 35°/40°, **for single use**, sterile, package of 5

Detail	for use with		Shaver Blade length 12 cm
	40 7120 50 DrillCut-X® II Handpiece	40 7120 55 DrillCut-X® II N Handpiece	
	41302 KN		curved 35°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41304 KKF		curved 40°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41304 KKB		curved 40°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41304 KKFA		curved 40°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41304 KKBA		curved 40°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow

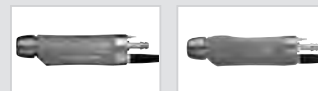
Shaver Blades, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N



41303 KKB



Shaver Blades, curved 65°, **for single use**, sterile, package of 5

Detail	for use with	Shaver Blade length 12 cm
	40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece	
	41303 KNF	curved 65°, cutting edge serrated forwards, diameter 4 mm, color code: blue-red
	41303 KNB	curved 65°, cutting edge serrated backwards, diameter 4 mm, color code: blue-red
	41303 KKF	curved 65°, cutting edge serrated forwards, double serrated, diameter 4 mm, color code: blue-yellow
	41303 KKB	curved 65°, cutting edge serrated backwards, double serrated, diameter 4 mm, color code: blue-yellow
	41303 KKFA	curved 65°, cutting edge serrated forwards, double serrated, diameter 3 mm, color code: blue-yellow
	41303 KKBA	curved 65°, cutting edge serrated backwards, double serrated, diameter 3 mm, color code: blue-yellow
	41303 GNF	curved 65°, cutting edge concave forwards, oval cutting window, diameter 4 mm, color code: blue-green
	41303 GNB	curved 65°, cutting edge concave backwards, oval cutting window, diameter 4 mm, color code: blue-green

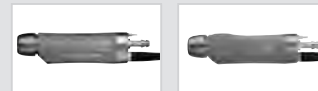
Sinus Burrs, curved

for Nasal Sinuses and Skull Base Surgery

For use with DrillCut-X® II and DrillCut-X® II N

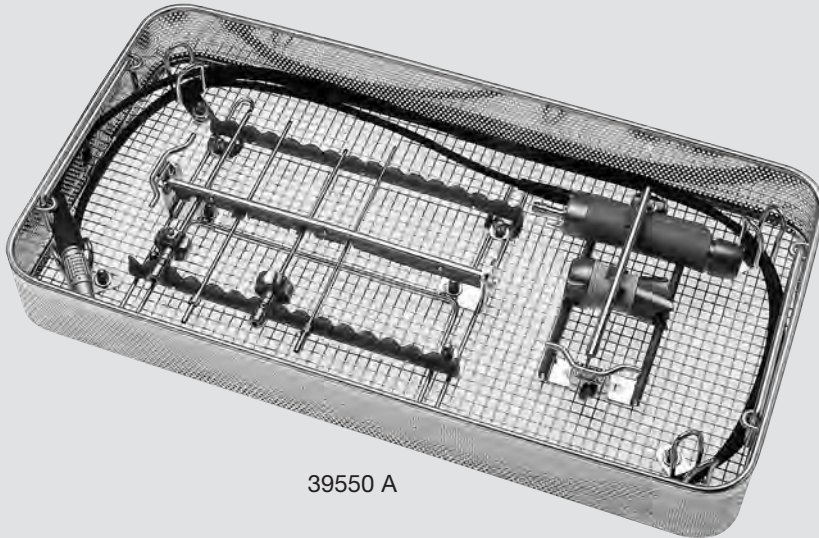


41305 RN



Sinus Burrs, curved 70°/55°/40°/15°, **for single use**, sterile, package of 5

Detail	for use with	Sinus Burr length 12 cm
	40 7120 50 DrillCut-X® II Handpiece 40 7120 55 DrillCut-X® II N Handpiece	
	41304 W	curved 40°, cylindric, drill diameter 3 mm, shaft diameter 4 mm, color code: red-blue
	41303 WN	curved 55°, cylindric, drill diameter 3.6 mm, shaft diameter 4 mm, color code: red-blue
	41305 RN	curved 15°, bud drill, drill diameter 4 mm, shaft diameter 4 mm, color code: red-black
	41305 DN	curved 15°, diamond head, drill diameter 3 mm, shaft diameter 4 mm, color code: red-yellow
	41305 D	curved 15°, diamond head, drill diameter 5 mm, shaft diameter 4 mm, color code: red-yellow
	41305 DW	curved 40°, diamond head, drill diameter 5 mm, shaft diameter 4 mm, color code: red-yellow
	41303 DT	curved 70°, diamond head, drill diameter 3.6 mm, shaft diameter 4 mm, color code: red-yellow



39550 A

39550 A

Wire Tray, provides safe storage of accessories for KARL STORZ paranasal sinus shaver systems during cleaning and sterilization

for storage of:

- Up to 7 shaver attachments
- Connecting cable

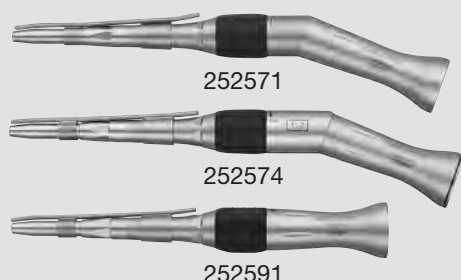
Please note: The instruments displayed are not included in the sterilizing and storage tray.

INTRA Drill Handpiece

for Surgery in Ethmoid and Skull Base Area

Special Features:

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 or 80,000 rpm
- Detachable irrigation tubes
- Can be processed in a cleaning machine



- 252571 **INTRA Drill Handpiece**, angled, length 15 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs
- 252574 **Same**, transmission 1:2 (80,000 rpm)
- 252591 **INTRA Drill Handpiece**, straight, length 13 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs



Detail	Size	Dia. mm	Standard	Diamond	Diamond coarse
	014	1.4	649614	649714	–
	018	1.8	649618	649718	–
	023	2.3	649623	649723	649723 G
	027	2.7	649627	649727	649727 G
	031	3.1	649631	649731	649731 G
	035	3.5	649635	649735	649735 G
	040	4	649640	649740	649740 G
	045	4.5	649645	649745	649745 G
	050	5	649650	649750	649750 G
	060	6	649660	649760	649760 G
	070	7	649670	649770	649770 G

- 649600 **Standard Straight Shaft Burr**, stainless, size 014 – 070, length 9.5 cm, set of 11
- 649700 **Diamond Straight Shaft Burr**, stainless, size 014 – 070, length 9.5 cm, set of 11
- 649700 G **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating for precise drilling and abrasion without hand pressure and generating minimal heat, size 023 – 070, length 9.5 cm, set of 9, color code: gold
- 280033 **Rack**, for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm

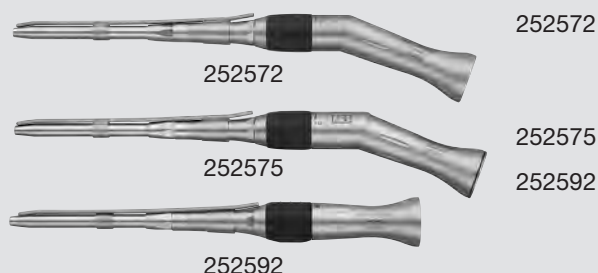
High Performance EC Micro Motor II 20711033 and Connecting Cable 20711173 see page 209

INTRA Drill Handpiece

for Surgery in Ethmoid and Skull Base Area

Special Features:

- Tool-free closing and opening of the drill
- Right/left rotation
- Max. rotating speed up to 40,000 or 80,000 rpm
- Detachable irrigation tubes
- Can be processed in a cleaning machine



INTRA Drill Handpiece, angled, length 18 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and burrs

Same, transmission 1:2 (80,000 rpm)

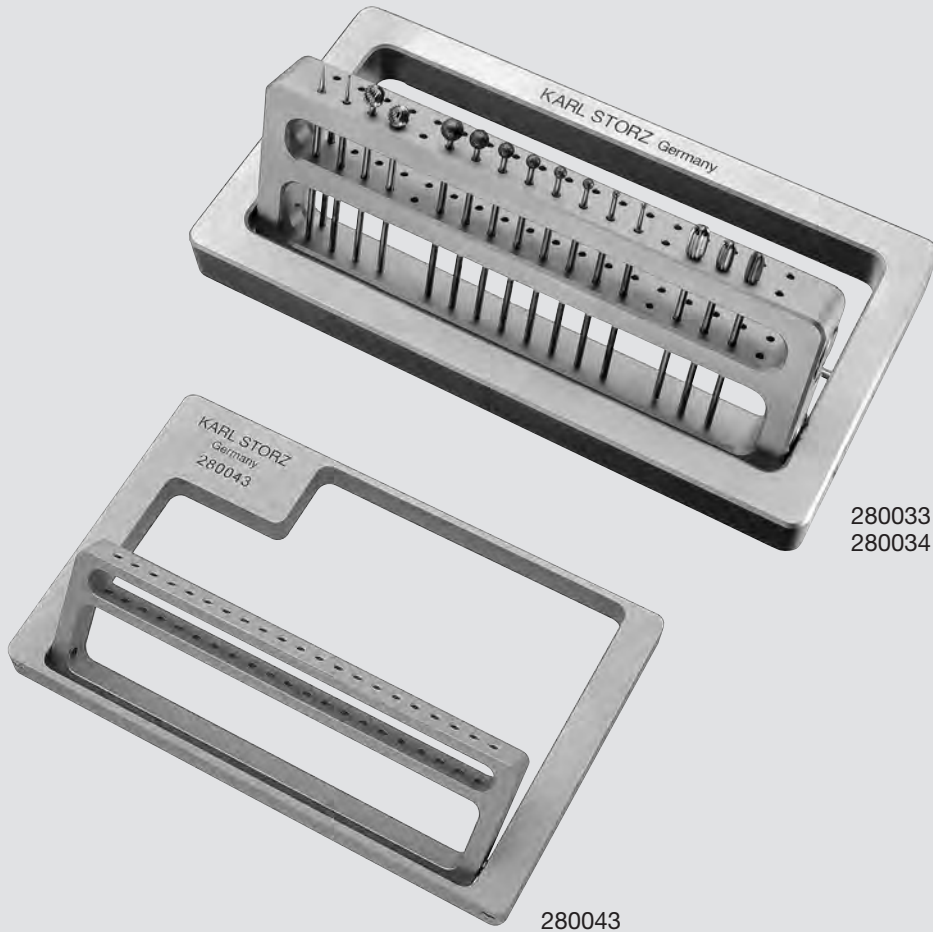
INTRA Drill Handpiece, straight, length 17 cm, transmission 1:1 (40,000 rpm), for use with KARL STORZ high-performance EC micro motor II and straight shaft burrs



Detail	Size	Dia. mm	Standard	Diamond	Diamond coarse
			sterilizable	sterilizable	sterilizable
	014	1.4	649614 L	649714 L	-
	018	1.8	649618 L	649718 L	-
	023	2.3	649623 L	649723 L	649723 GL
	027	2.7	649627 L	649727 L	649727 GL
	031	3.1	649631 L	649731 L	649731 GL
	035	3.5	649635 L	649735 L	649735 GL
	040	4	649640 L	649740 L	649740 GL
	045	4.5	649645 L	649745 L	649745 GL
	050	5	649650 L	649750 L	649750 GL
	060	6	649660 L	649760 L	649760 GL
	070	7	649670 L	649770 L	649770 GL

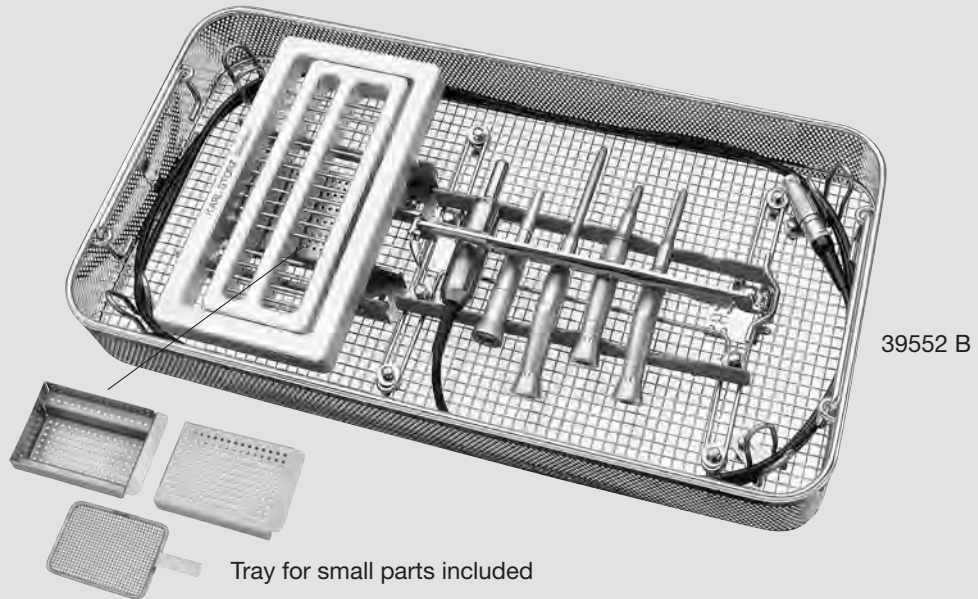
- 649600 L **Standard Straight Shaft Burr**, stainless, size 014 – 070, length 12.5 cm, set of 11
- 649700 L **Diamond Straight Shaft Burr**, stainless, size 014 – 070, length 12.5 cm, set of 11
- 649700 GL **Rapid Diamond Straight Shaft Burr**, stainless, with coarse diamond coating, sizes 023 – 070, length 12.5 cm, set of 9, color code: gold
- 280034 **Rack**, for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209



- 280033 **Rack**, for 36 straight shaft burrs with a length of 9.5 cm, foldable, sterilizable, size 22 x 14 x 2 cm
- 280034 **Rack**, for 36 straight shaft burrs with a length of 12.5 cm, foldable, sterilizable, size 22 x 17 x 2 cm
- 280043 **Rack**, flat model, to hold 21 straight shaft burrs with a length of 7 cm (6 pcs) and 9.5 cm (15 pcs), folding model, sterilizable, size 17.5 x 11.5 x 1.2 cm

Please note: The burrs displayed are not included in the racks.



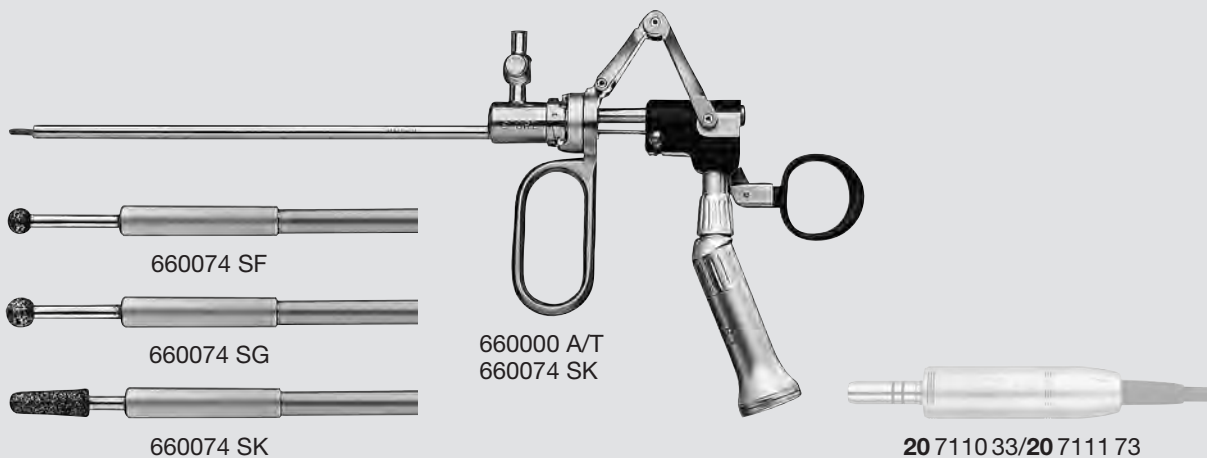
- 39552 A **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **not** included
- for storage of:**
- Up to 6 drill handpieces
 - Connecting cable
 - EC micro motor
 - Small parts
- 39552 B **Wire Tray**, provides safe storage of accessories for KARL STORZ drilling/grinding systems during cleaning and sterilization, includes tray for small parts, for use with Rack 280030, rack **included**
- for storage of:**
- Up to 6 drill handpieces
 - Connecting cable
 - EC micro motor
 - Up to 36 drill bits and burs
 - Small parts

Please note: The instruments displayed are not included in the sterilizing and storage tray.

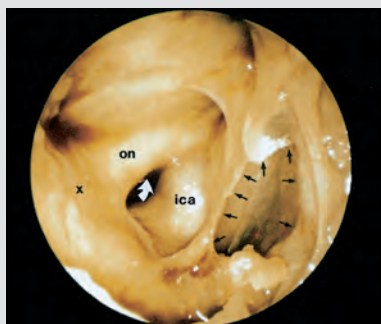
STAMMBERGER-SACHSE Intranasal Drill

Special Features:

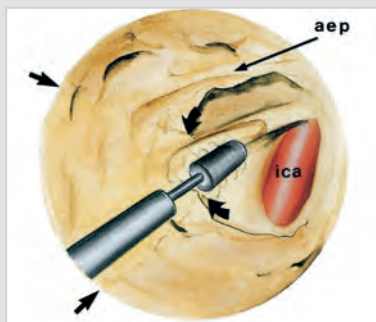
- No fixed coupling to the endoscope makes independent manipulation possible
- The guide sheath remains stationary; only the abrasors rotate
- The abrador is retracted into the guide sheath for protection of tissue and endoscope during introduction



660000 STAMMBERGER-SACHSE Intranasal Drill,
including:
Double Ring Sliding Handle, for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece
Guide Sheath, outer diameter 5 mm, with irrigation stopcock
Diamond Abrador, delicate, spherical, diameter 2.5 mm
Diamond Abrador, delicate, spherical, diameter 3 mm
Diamond Abrador, delicate, conical, from diameter 2.5 mm to diameter 3 mm



ica = Arteria carotis interna
aep = Arteria ethmoidalis posterior

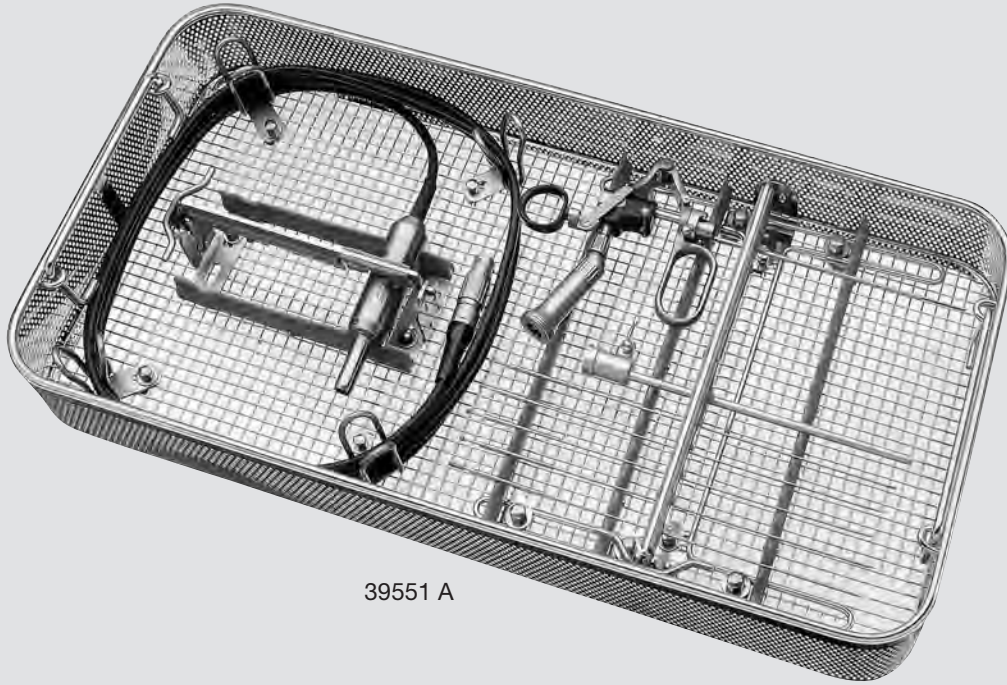


on = Nervus opticus
x = Tuberculum opticum



z = Anulus zinnii

High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7111 73 see page 209
Components/Spare Parts see chapter 16



39551 A

39551 A **Wire Tray**, provides safe storage of accessories for the KARL STORZ intranasal drill system during cleaning and sterilization

for storage of:

- Intranasal drill
- Connecting cable
- EC micro motor
- Up to 10 diamond abrasors

Please note: The instruments displayed are not included in the sterilizing and storage tray.

UNIDRIVE® S III ENT SCB

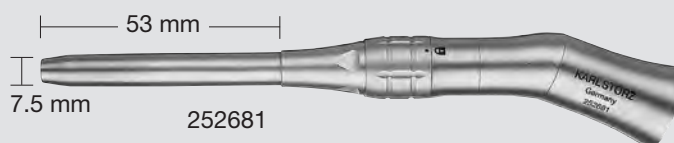
High-Speed Handpieces, angled, 100,000 rpm

For use with High-Speed Drills, shaft diameter 3.17 mm
and with High-Speed Micro Motor 20 7120 33

100,000 rpm
diameter 7.5 mm



20 7120 33



252681



252682

- 252681 **High-Speed Handpiece**, medium, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**
- 252682 **High-Speed Handpiece**, long, angled, 100,000 rpm, for use with High-Speed Micro-Motor **20 7120 33**

UNIDRIVE® S III ENT SCB

High-Speed Handpieces, angled, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm
and with High-Speed Micro Motor 20 7120 33

60,000 rpm
diameter 5.5 mm



20 7120 33



252661



252662



252663

- 252661 **High-Speed Handpiece**, short, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252662 **High-Speed Handpiece**, medium, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33
- 252663 **High-Speed Handpiece**, long, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

UNIDRIVE® S III ENT SCB

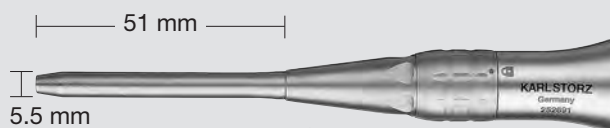
High-Speed Handpieces, straight, 60,000 rpm

For use with High-Speed Drills, shaft diameter 2.35 mm
and with High-Speed Micro Motor 20 7120 33

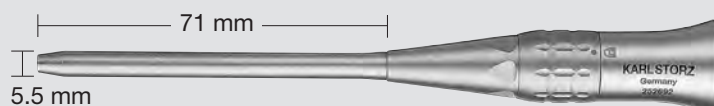
60,000 rpm
diameter 5.5 mm



20 7120 33



252691



252692

252691 **High-Speed Handpiece**, short, straight, 60,000 rpm,
for use with High-Speed Micro-Motor **20 7120 33**

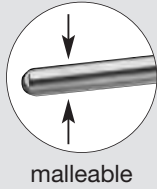
252692 **High-Speed Handpiece**, medium, straight, 60,000 rpm,
for use with High-Speed Micro-Motor **20 7120 33**

UNIDRIVE® S III ENT SCB

High-Speed Handpieces, malleable, slim, angled, 60,000 rpm

60,000 rpm
diameter 4.7 mm

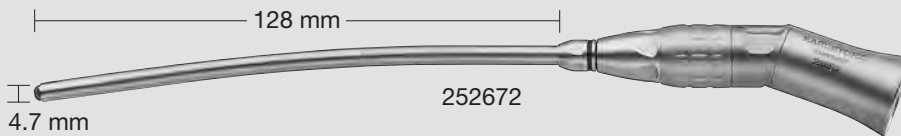
For use with High-Speed Drills, shaft diameter 1 mm
and with High-Speed Micro Motor 20 7120 33



The handpieces have malleable shafts that can be bent up to 20° according to user requirements.



20 7120 33



252671 **High-Speed Handpiece**, extra long, malleable, slim, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

252672 **High-Speed Handpiece**, super long, malleable, slim, angled, 60,000 rpm, for use with High-Speed Micro-Motor 20 7120 33

High-Speed Micro Motor 20 7120 33 see page 209

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252681



252682



High-Speed Standard Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	medium	long
1	350110 M	–
2	350120 M	350120 L
3	350130 M	350130 L
4	350140 M	350140 L
5	350150 M	350150 L
6	350160 M	350160 L
7	350170 M	350170 L



High-Speed Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

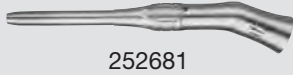
Diameter in mm	medium	long
1	350210 M	–
2	350220 M	350220 L
3	350230 M	350230 L
4	350240 M	350240 L
5	350250 M	350250 L
6	350260 M	350260 L
7	350270 M	350270 L

UNIDRIVE® S III ENT SCB

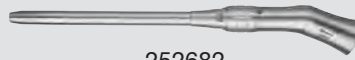
High-Speed Diamond Burrs, High-Speed Acorn,
High-Speed Barrel Burrs, High-Speed Neuro Fluted Burrs

For use with High-Speed Handpieces, 100,000 rpm

100,000 rpm
diameter 7.5 mm



252681



252682



High-Speed Coarse Diamond Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	medium	long
3	350330 M	350330 L
4	350340 M	350340 L
5	350350 M	350350 L
6	350360 M	350360 L
7	350370 M	350370 L



High-Speed Acorn, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	medium
7.5	350675 M
9	350690 M



High-Speed Barrel Burrs, 100,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	medium
6	350960 M
9.1	350991 M



High-Speed Neuro Fluted Burrs, 100,000 rpm, **for single use**, sterile, package of 5

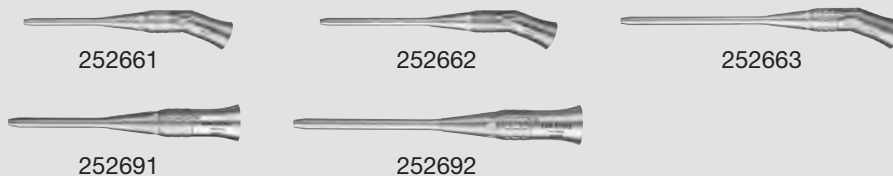
Diameter in mm	medium	long
1.8	350718 M	350718 L
3	350730 M	350730 L

UNIDRIVE® S III ENT SCB

High-Speed Standard Burrs, High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



High-Speed Standard Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium	long
1	330110 S	330110 M	–
2	330120 S	330120 M	330120 L
3	330130 S	330130 M	330130 L
4	330140 S	330140 M	330140 L
5	330150 S	330150 M	330150 L
6	330160 S	330160 M	330160 L
7	330170 S	330170 M	330170 L



High-Speed Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

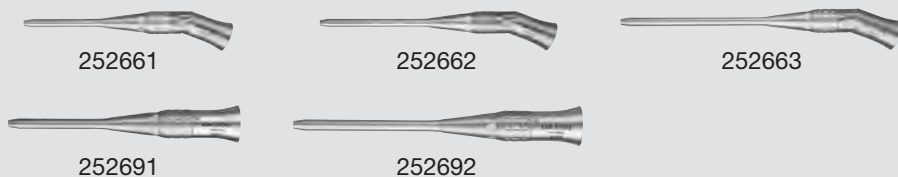
Diameter in mm	short	medium	long
0.6	330206 S	–	–
1	330210 S	330210 M	–
1.5	330215 S	–	–
2	330220 S	330220 M	330220 L
3	330230 S	330230 M	330230 L
4	330240 S	330240 M	330240 L
5	330250 S	330250 M	330250 L
6	330260 S	330260 M	330260 L
7	330270 S	330270 M	330270 L

UNIDRIVE® S III ENT SCB

High-Speed Diamond Burrs, High-Speed Cylinder Burrs,
LINDEMANN High-Speed Fluted Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 5.5 mm



High-Speed Coarse Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short	medium	long
3	330330 S	330330 M	330330 L
4	330340 S	330340 M	330340 L
5	330350 S	330350 M	330350 L
6	330360 S	330360 M	330360 L
7	330370 S	330370 M	330370 L



High-Speed Cylinder Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	short
4	330440 S
6	330460 S



LINDEMANN High-Speed Fluted Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Size in mm (diameter x length)	short
Diameter 2.1/11	330511 S
Diameter 2.3/26	330526 S

UNIDRIVE® S III ENT SCB

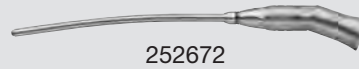
High-Speed Diamond Burrs

For use with High-Speed Handpieces, 60,000 rpm

60,000 rpm
diameter 4.7 mm



252671



252672



High-Speed Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	extra long	super long
2	320220 EL	320220 SL
3	320230 EL	320230 SL
4	320240 EL	320240 SL



High-Speed Coarse Diamond Burrs, 60,000 rpm, **for single use**, sterile, package of 5

Diameter in mm	extra long	super long
2	320320 EL	320320 SL
3	320330 EL	320330 SL
4	320340 EL	320340 SL

CMOS Video Rhino-Laryngoscope

Special Features:

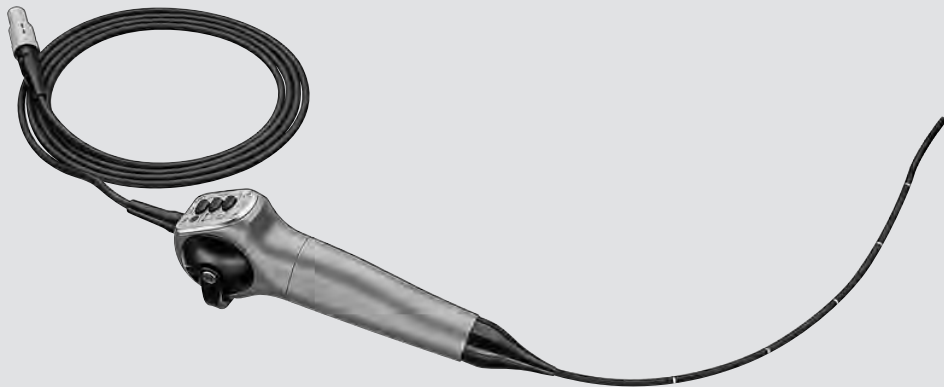
- CMOS chip technology
- Integrated LED light source
- Bidirectional deflection 140°
- Function keys on the endoscope enable the recording of pictures and video sequences as well as the use of the white balance function. These and other functions can be activated on the monitor.
- Can be combined with KARL STORZ C-HUB® system
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable via EtO-Gas, Sterrad® 100S, Sterrad® NX and Steris® System 1/System 1E

Special Features of Monitor:

- Compact design
- Image can be rotated by 180°
- 7" TFT wide-view angle display with resolution of 800 x 480 pixels
- Resistant ABS plastic housing
- LED illumination
- Documentation of video sequences (MPEG4) and images (JPEG) on SD memory card
- Replay of recorded video sequences and images via monitor
- Cinch video output for connecting external monitor
- Operation with line voltage and rechargeable lithium-ion batteries – also possible during charging
- Operating time with batteries for about 2 hours
- VESA 75 norm for attaching further accessories
- Splash-proof according to IP54



CMOS Video Rhino-Laryngoscope



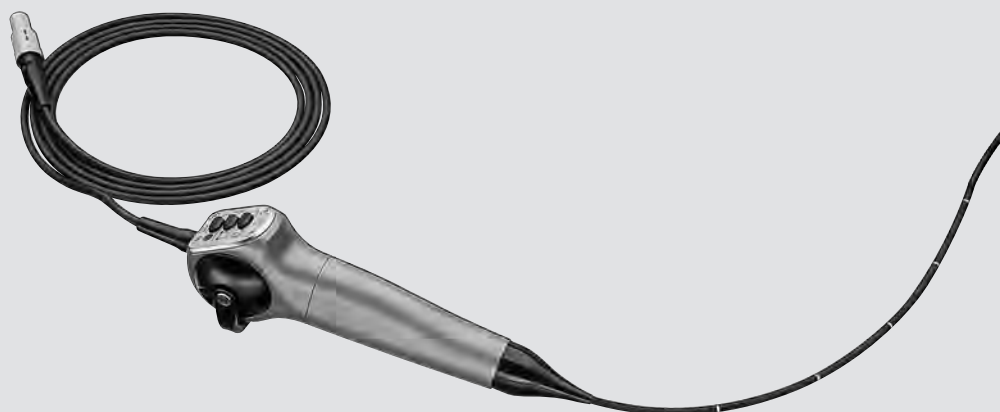
11101 CM

11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
for use with Monitor 8402 ZX
Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°

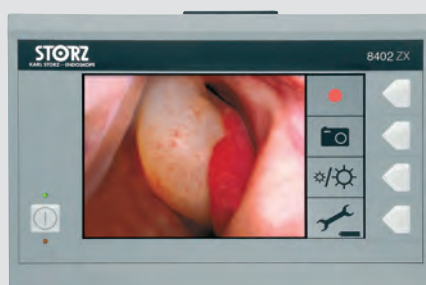
Following accessories are included:

11101 CM **CMOS Video-Rhino-Laryngoskop**
13242 XL **Leakage Tester**, with bulb and manometer
11025 E **Pressure Compensation Cap**, for ventilation
during gas sterilization
27677 FV **Case**

CMOS Video Rhino-Laryngoscope



11101 CM



8402 ZX

11101 CMM CMOS Video Rhino-Laryngoscope with Monitor

Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°

Following accessories are included:

11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
8402 ZX **Monitor für CMOS-Endoskope**

Nothing could be easier!

The KARL STORZ C-CAM® can be directly connected to a USB interface on a Medical PC via C-HUB®.

Thanks to its CMOS sensor, the C-CAM® camera head is able to provide a resolution of 640 x 480 pixels. The endoscope can be attached as usual with the proven KARL STORZ grip mechanism.

C-HUB® features an USB interface that can be connected to all Medical PCs, whether desktops or laptops.

It also features an S-Video connection for direct transmission of image data to an external monitor.

If the C-HUB® is connected to a Medical PC, image data or videos can be directly archived on the hard drive and processed with the relevant programs.



20 2901 01

20 2901 01 C-HUB® Camera Control Unit

for use with C-CAM® 20 2901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, interfaces: USB 2.0, S-Video output (NTSC), power socket

including:

C-HUB® Power Supply

S-Video (Y/C) Connecting Cable

USB Connecting Cable



20 2901 32

20 2901 32 C-CAM® Camera Head, 8-pin

one-chip CMOS camera head, resolution 640 x 480, focal length $f = 20$ mm, compatible with C-HUB® 20 2901 01 and C-MAC® 8402 ZX

Further information to C-CAM® and C-HUB® see catalog TELEPRESENCE

Components/Spare Parts see catalog TELEPRESENCE

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X

STORZ
KARL STORZ — ENDOSKOPE

Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable with EtO-Gas, Sterrad® 100S and Steris® System 1/System 1E
- Short insertion tip



8-111

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X



11101 VP

11101 VP **CCD Video Rhino-Laryngoscope, PAL**, for use with IMAGE1,
TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X

Direction of view: 0°
Angle of view: 85°
Deflection up/down: 140°/140°
Working length: 30 cm
Outer diameter: 3.7 mm

Following accessories are included:

- 27677 VC **Case**
13242 XL **Leakage Tester**, with bulb and manometer
11025 E **Pressure Compensation Cap**, for ventilation during gas sterilization

Note: The video connecting cables are not included in the set and must be ordered separately!

- 22 2000 77 **Video Endoscope Adaptor**, color systems **PAL/NTSC**,
length 90 cm, for use with GI CCU and IMAGE1
or
20 2130 70 **Video Connecting Cable**, for all KARL STORZ video
endoscopes and TELECAM SL II, TELECAM DX II,
TELE PACK or TELE PACK X, length 60 cm

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Rhino-Laryngoscope

STORZ
KARL STORZ — ENDOSKOPE

TELE PACK X is a portable system that combines a monitor, camera and light source. Integrated data enables the recording of medical examinations or

surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Display

- 15" LCD display
- Image rotation
- 24-bit color intensity
- DVI-D video output for connecting HD monitors

Storage possibilities

- SD card slot
- USB ports for external hard drives, USB flash drives and post-script printers
- Picture gallery for records
- Playback of saved videos
- Print-ready patient report documentation

Illumination

- HiLux 50 Watt high-performance light source
- Color temperature of 5700 K
- Up to 1000 hours lamp operating time

Control

- Membrane keyboard for wipe-down disinfection
- Arrow keys for control
- Connection socket for pedal control

Additional information

- Portable housing
- Universal power supply unit: 100 – 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 450 x 350 x 150 mm
- Weight: 7 kg



20045001-EN

200450 01-EN TELE PACK X

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC**, with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Technical information see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

Rhino-Fiberscopes



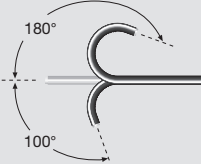

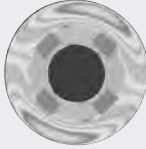
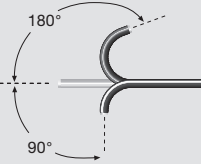


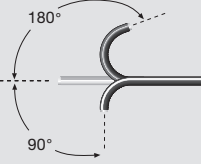


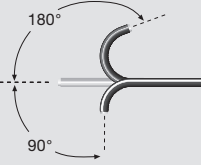
Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Simple leakage test takes only a few minutes and requires no additional accessories
- Sterilizable with EtO gas, Steris® and Sterrad®



Rhino-Fiberscopes

Overview

Rhino-Fiberscopes	Order No.		Deflection	Direction of View	Direction of View
3.5 x 340 mm 	11001 RD			0°	90°
3.5 x 300 mm 	11101 RP			0°	70°
2.5 x 270 mm 	11101 SK			0°	90°
2.5 x 370 mm 	11101 SP			0°	90°

Following accessories are included:



27677 BB

Case

27677 RR

Case

11025 E

Pressure Compensation Cap, for ventilation during gas sterilization

13242 XL

Leakage Tester, with bulb and manometer

13272

Mouthpiece

27651 AK

Cleaning Brush, round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm

11003 KA

Biopsy Forceps, flexible, double action jaws, oval, diameter 1 mm, length 60 cm

11003 KB

Grasping Forceps, flexible, double action jaws, diameter 1 mm, length 60 cm

Working Length	Working Channel Inner Diameter	Distal Tip Outer Diameter	Case	Accessories included						
				Pressure Compensation Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps	
34 cm	1.5 mm	3.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AK	11003 KA	11003 KB	
30 cm	–	3.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–	
27 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–	
37 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–	

Optional accessories:



- 15006 B "ULTRA STOP" Antifog Solution, 25 ml, pipette bottle
- 15006 C "ULTRA STOP" Antifog Solution, 30 ml, sterile, pierce bottle
- 15006 D "ULTRA STOP" Antifog Solution, 15 ml, atomizer bottle



 **EndoCAMEleon**® ENT

ENDOCAMELEON® ENT



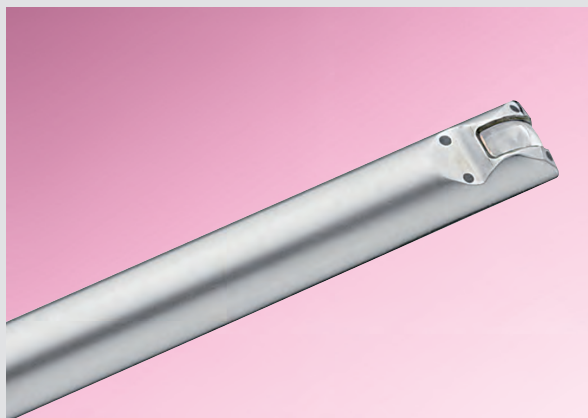
ENDOCAMELEON® ENT is the newest member of the HOPKINS® family of rod-lens telescopes.

A simple turn of the adjusting knob enables the user to select the direction of view between 15° and 90°. This enables the surgeon to select the desired direction of view.

ENDOCAMELEON® ENT significantly enhances orientation during use without the time-consuming change-

over of telescopes, thereby ensuring safe and smooth work.

ENDOCAMELEON® ENT combines the user comfort of the proven HOPKINS® endoscopes with a variable direction of view.



The familiar ergonomics and handling of conventional telescopes is enhanced with the additional convenience of a variable direction of view.



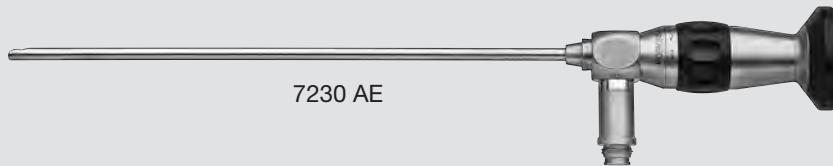
The direction of view is adjusted by a mere turn of the adjusting knob at the proximal end of the ENDOCAMELEON® ENT.



Diameter 4 mm, length 18 cm

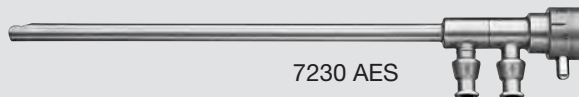
Special Features:

- Variable direction of view from 15° – 90°
- Easy-to-use adjusting knob selects the desired direction of view
- HOPKINS® telescope with rod-lens system
- Diameter 4 mm, length 18 cm
- Standard eyepiece fits all camera heads



7230 AE

ENDOCAMELEON® ENT HOPKINS® Telescope, diameter 4 mm, length 18 cm, **autoclavable**, variable direction of view from 15° – 90°, adjustment knob for selecting the desired direction of view, fiber optic light transmission incorporated, color code: gold



7230 AES

7230 AES

Irrigation and Suction Sheath, outer diameter 4.8 x 6 mm, working length 14 cm, for use with ENDOCAMELEON® ENT HOPKINS® Telescope 7230 AE and KARL STORZ lens irrigation system CLEARVISION® II

ENDOCAMELEON® ENT



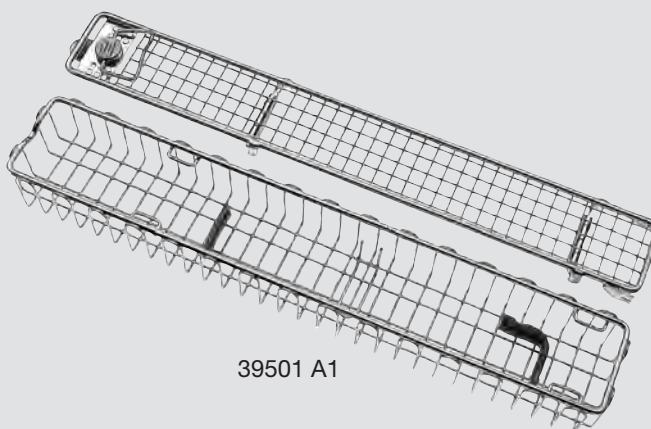
Accessories:



495 NA

495 NA

Fiber Optic Light Cable, with straight connector, diameter 3.5 mm, length 230 cm



39501 A1

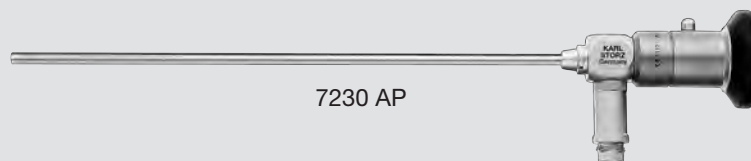
39501 A1

Wire Tray for Cleaning, Sterilization and Storage of one rigid endoscope, including holder for light post adaptors, silicone telescope holders and lid, external dimensions (w x d x h): 290 x 60 x 52 mm, for rigid endoscopes up to diameter 5 mm and working length 20 cm

HOPKINS® II Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
of Nose and Nasal Sinuses, diameter 4 mm, length 18 cm

For Diagnosis and Early Detection of Carcinomas



7230 AP



7230 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



7230 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red



7230 FP

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: black

Fluid Light Cables



495 FO

Fluid Light Cable, diameter 3 mm, length 180 cm

495 FP

Desgleichen, Länge 250 cm

495 FS

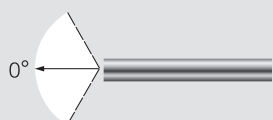
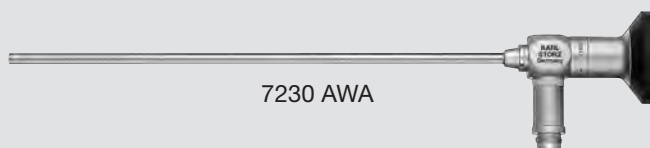
Fluid Light Cable, diameter 2 mm, length 220 cm

For high performance D-LIGHT C/AF light system as well as ENDOVISION® TRICAM® SL II PDD video systems for use with HOPKINS® II Telescopes 7230 AP – FP for autofluorescence/photodynamic diagnosis (PDD) see chapter 13, FLUORESCENCE and catalog TELEPRESENCE

HOPKINS® II Telescopes

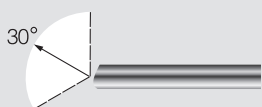
for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 4 mm, length 18 cm



7230 AWA

HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7230 BWA

HOPKINS® II Wide Angle Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



7230 FWA

HOPKINS® II Wide Angle Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



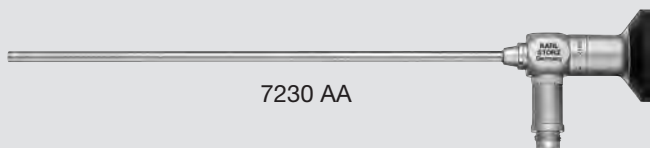
7230 CWA

HOPKINS® II Wide Angle Lateral Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 4 mm, length 18 cm



7230 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7230 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



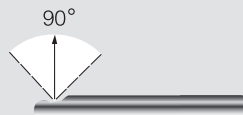
7230 FA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



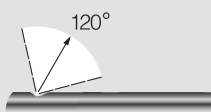
7230 CA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow



7230 DA

HOPKINS® II Lateral Telescope 90°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue



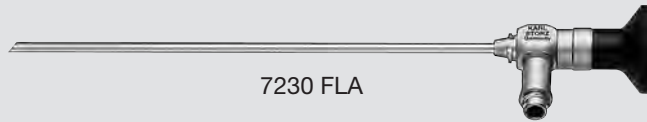
7230 EA

HOPKINS® II Retrograde Telescope 120°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: white

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 4 mm, length 18 cm

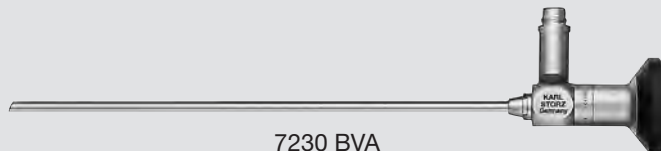


7230 FLA



7230 FLA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on the left, fiber optic light transmission incorporated, color code: black



7230 BVA



7230 BVA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color code: red



7230 FVA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color code: black

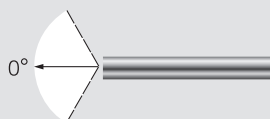


7230 CVA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, connection for fiber optic light cable on upper side, fiber optic light transmission incorporated, color code: yellow



7235 AWA



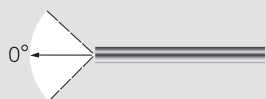
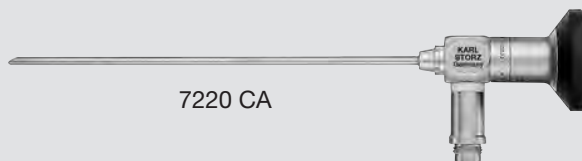
7235 AWA

HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view, diameter 5 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 3 mm, length 14 cm, with extra large image



7220 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7220 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



7220 FA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



7220 FVA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 3 mm, length 14 cm, **autoklavierbar**, connection for fiber optic light cable upwards, fiber optic light transmission incorporated, color code: black



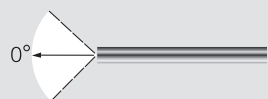
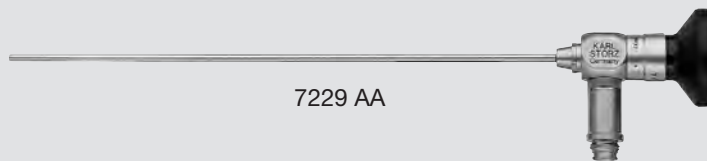
7220 CA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 3 mm, length 14 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 2.7 mm, length 18 cm, with extra large image



7229 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7229 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



7229 FA

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: black



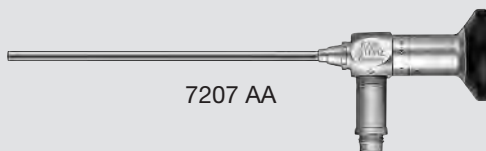
7229 CA

HOPKINS® II Lateral Telescope 70°, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

HOPKINS® II Telescopes

for Diagnosis, Surgery and Treatment of Nose and Nasal Sinuses

Diameter 2.7 mm, length 11 cm



7207 AA



7207 AA

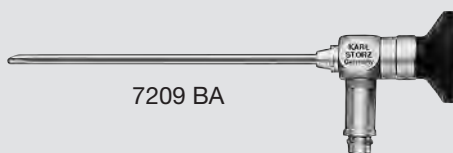
HOPKINS® II Straight Forward Telescope 0°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7207 BA

HOPKINS® II Forward-Oblique Telescope 30°, diameter 2.7 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Diameter 3 mm, length 11 cm



7209 BA



7209 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 3 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

Fiber Optic Light Cable



495 NL

495 NL

Fiber Optic Light Cable, diameter 3.5 mm, length 180 cm

495 NA

Same, length 230 cm

Additional Light Cables see catalog TELEPRESENCE



11301 D4



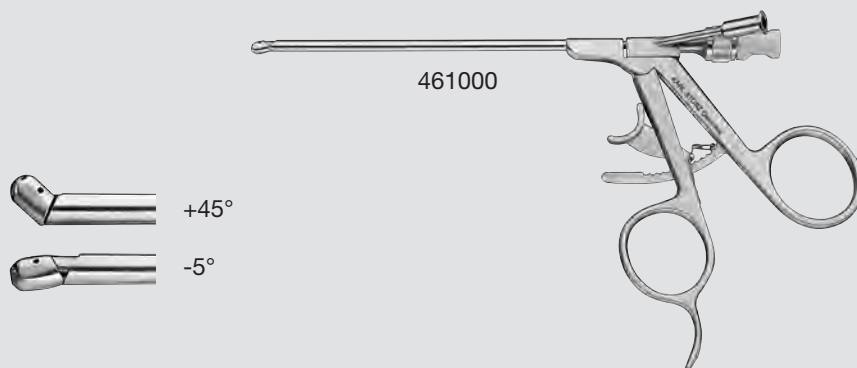
11301 DG

- 11301 D4 **Battery Light Source LED for Endoscopes**, with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**, with 2 Photo Batteries 121306 P
- 11301 DE **Battery Light Source LED for Endoscopes**, rechargeable, with click connection, brightness > 110 lm / > 150 klx, color temperature 5500 K, lithium-ion batteries, charging time 60 min, burning time at 100% brightness 40 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**
- 11301 DF **Same**, with fast screw thread
- 11301 DG **Charging Unit**, for 11301 DE/11301 DF, for two LED battery light sources, with fixed integrated power supply and adaptor for EU, UK, USA and Australia, power supply 110 – 240 VAC, 50/60 Hz, **suitable for wipe disinfection**
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm

LASER Rhinoscopy

LASER Application Sheath

LEUNIG-GREVERS LASER Application Instrument



461000 LEUNIG-GREVERS **LASER Application Instrument**, for endonasal LASER surgery, forceps-shaped, for endonasal LASER treatment, handle with ratchet, sheath with channel for introduction of LASER probes up to 1 mm in diameter, distal tip continuously articulating from -5° up to $+45^{\circ}$, with integrated smoke evacuation channel, working length 10 cm

723527 L **Cleaning Tube**, for telescope channel of LASER Rhinoscope Sheaths 722010 A – B, LUER-Lock, length 24 cm

Components/Spare Parts see chapter 16



723770

STAMMBERGER Telescope Handle, flat, standard model, length 11 cm, for use with HOPKINS® straight forward telescopes 0° with diameter 4 mm and length 18 cm



723771

STAMMBERGER Telescope Handle, round, length 14.5 cm, for use with HOPKINS® telescopes 30° – 120° with length 18 cm



723772

STAMMBERGER Telescope Handle, round, standard model, length 11 cm, for use with HOPKINS® telescopes 30° – 120° with diameter 4 mm and length 18 cm



723773

STAMMBERGER Telescope Handle, round, length 6.5 cm, for use with HOPKINS® telescopes with diameter 2.7/3 mm and length 11 cm



723774

STAMMBERGER Telescope Handle, round, length 11 cm, for use with HOPKINS® telescopes with diameter 1.9/2.7 mm and length 18 cm



723750 A

Protection Tube, for HOPKINS® telescopes with length of 6 – 11 cm



723750 B

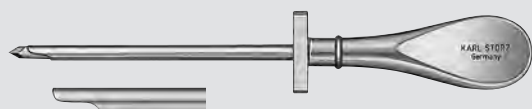
Protection Tube, working length 19.7 cm, for use with HOPKINS® telescopes with a length of 18 cm



39105 A

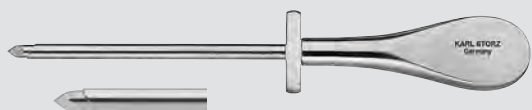
39105 A

Cleaning Adaptor, for manual or machine cleaning of instruments without irrigation port from 1.5 to 5 mm diameter



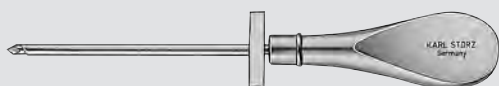
723005 A

Trocar for Sinoscopy, with beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with HOPKINS® telescopes with diameter 4 mm



723005 B

Trocar for Sinoscopy, oblique beak, outer diameter 5 mm, length of the cannula 8.5 cm, for use with HOPKINS® telescopes with diameter 4 mm



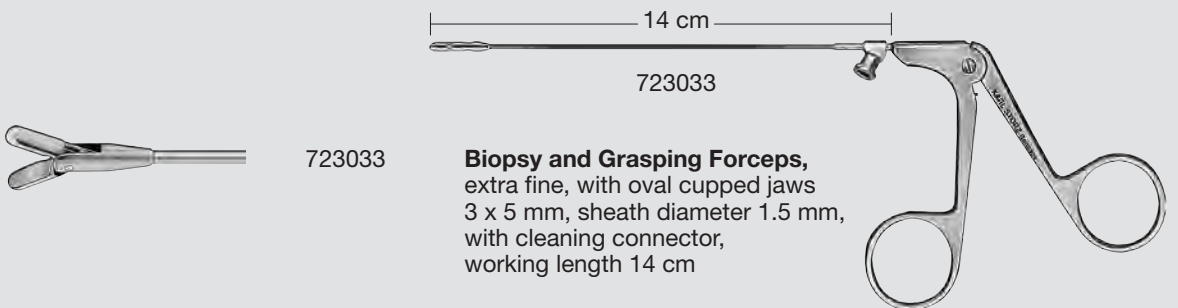
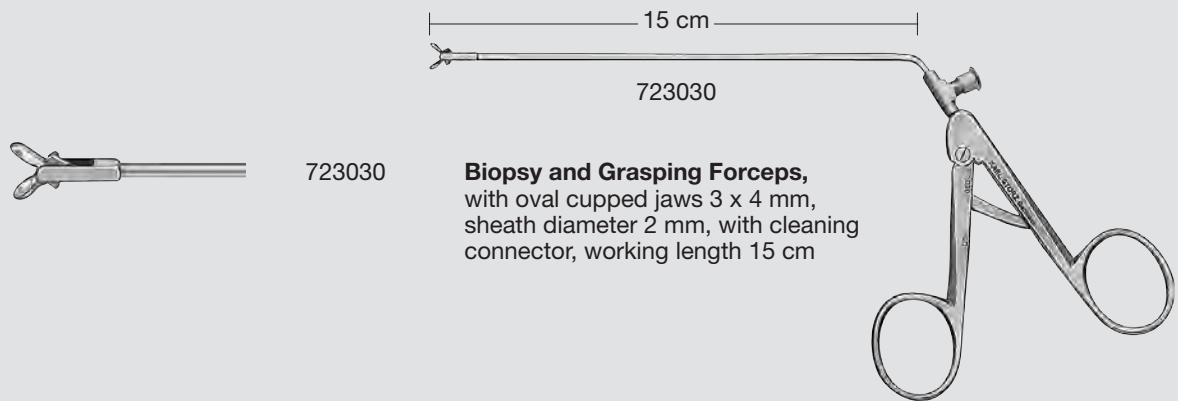
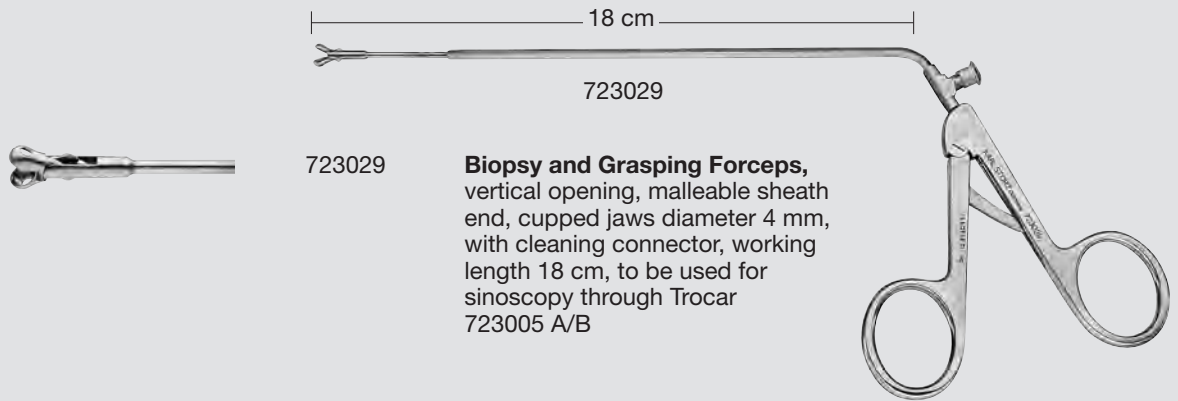
723103 B

Trocar for Sinoscopy, oblique beak, outer diameter 3.3 mm, length of the cannula 7.5 cm, for use with HOPKINS® telescopes with diameter 2.7 mm

FESS Instruments

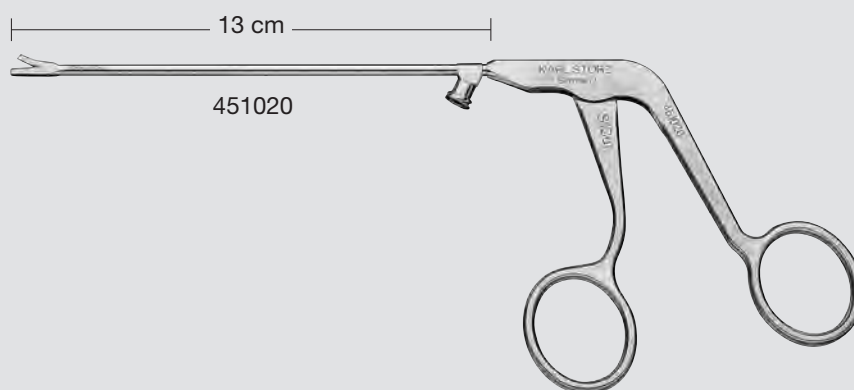
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

Biopsy and Grasping Forceps working length 14, 15 and 18 cm



Special Features:

- Flat jaws
- Through-cutting and backward-cutting versions also available



456021

GRÜNWALD-HENKE **SilCut® Nasal Forceps**, straight, not through-cutting, BLAKESLEY shape, size 1, with cleaning connector, working length 13 cm



456521

Same, 45° upturned



451020

GRÜNWALD-HENKE **SilCut® Nasal Cutting Forceps**, straight, through-cutting, BLAKESLEY shape, size 0, with cleaning connector, working length 13 cm



451021

Same, size 1



451520

GRÜNWALD-HENKE **SilCut® Nasal Cutting Forceps**, 45° upturned, through-cutting, BLAKESLEY shape, size 0, with cleaning connector, working length 13 cm



451521

Same, size 1



452011

MACKAY-GRÜNWALD SilCut® Nasal Cutting Forceps, straight, through-cutting, size 1.8 x 3 mm, with cleaning connector, working length 13 cm



452021

SilCut® Nasal Cutting Forceps, straight, through-cutting, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452022

Same, width of cut 2.7 mm



452023

Same, width of cut 3.4 mm



452031

SilCut® Nasal Cutting Forceps, jaws upturned 15°, through-cutting, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452032

Same, width of cut 2.7 mm



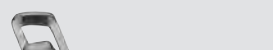
452033

Same, width of cut 3.4 mm



459110

STAMMBERGER SilCut® Antrum Punch, upbiting backward cutting, with cleaning connector, working length 10 cm



459151

Same, right side downward and forward cutting



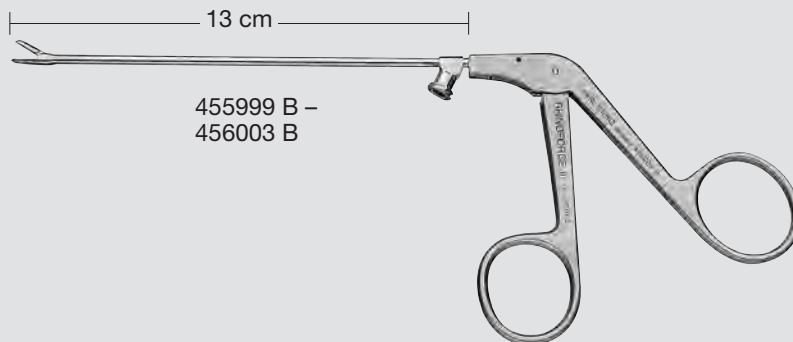
459152

Same, left side downward and forward cutting

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

BLAKESLEY RHINOFORCE® II Nasal Forceps



455999 B

BLAKESLEY RHINOFORCE® II Nasal Forceps, straight, size 00, with cleaning connector, working length 13 cm



456000 B

Same, size 0



456001 B

Same, size 1



456002 B

Same, size 2



456003 B

Same, size 3



456499 B

BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps, 45° upturned, size 00, with cleaning connector, working length 13 cm



456500 B

Same, size 0



456501 B

Same, size 1



456502 B

Same, size 2

Recommended stainless steel trays for sterilization 39910 SC see catalog HYGIENE

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



456801 B

BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps**, 90° upturned, size 1, with cleaning connector, working length 13 cm



456802 B

Same, size 2



456803 B

Same, size 3



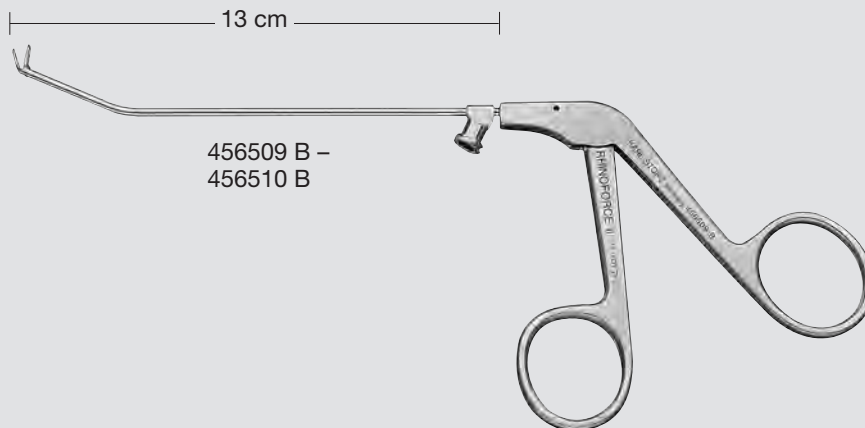
456601 B

BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps**, curved to right 45°, size 1, with cleaning connector, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

BLAKESLEY-CASTELNUOVO RHINOFORCE® II Nasal Forceps



456509 B -
456510 B



456009 B BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, with straight jaw, width 2.5 mm, with cleaning connector, working length 13 cm



456010 B **Same**, width 3 mm



456509 B BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, jaws 45° upturned, width 2.5 mm, with cleaning connector, working length 13 cm

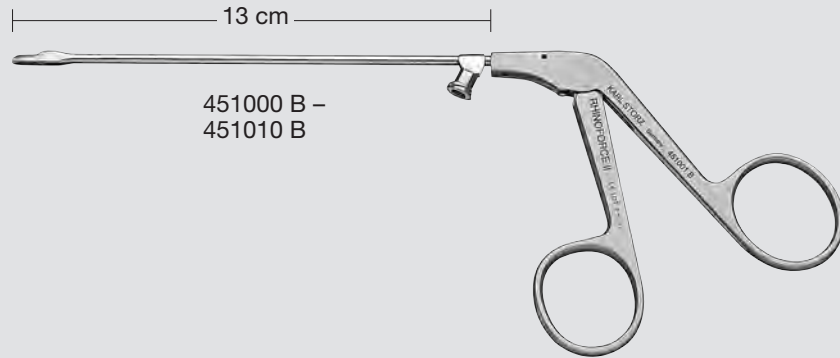


456510 B **Same**, width 3 mm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

GRÜNWALD-HENKE/CASTELNUOVO RHINOFORCE® II Nasal Forceps, through-cutting



451000 B –
451010 B



451000 B

GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps**, straight, through-cutting, for a smooth cut, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



451001 B
451002 B

Same, size 1, width 3.5 mm
Same, size 2, width 4 mm



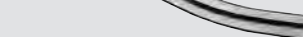
451500 B

GRÜNWALD-HENKE **RHINOFORCE® II Nasal Cutting Forceps**, 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



451501 B
451502 B

Same, size 1, width 3.5 mm
Same, size 2, width 4 mm



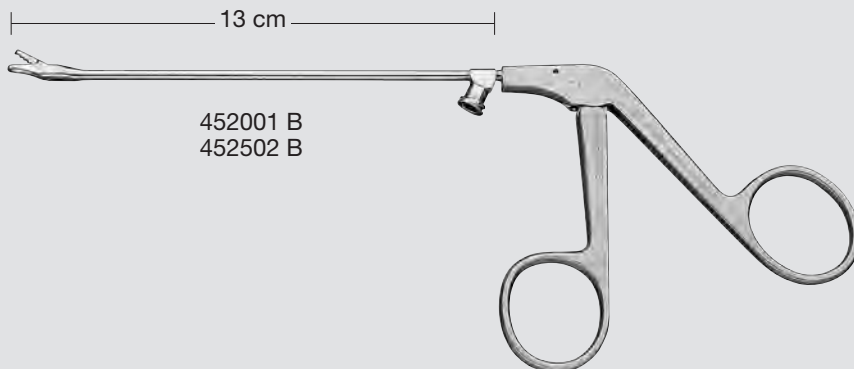
451510 B

CASTELNUOVO **RHINOFORCE® II Nasal Cutting Forceps**, end of sheath 25° upturned, through-cutting, jaws 45° upturned, BLAKESLEY shape, width 3 mm, with cleaning connector, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Forceps, through-cutting



452001 B

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Cutting Forceps, straight, through-cutting, extra delicate, for a smooth cut, 8 x 3 mm, size 1, with cleaning connector, working length 13 cm



452002 B

Same, 11.5 x 3.5 mm, size 2



452501 B

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Cutting Forceps, 45° upturned, through-cutting, extra delicate, for a smooth cut, 8 x 3 mm, size 1, with cleaning connector, working length 13 cm



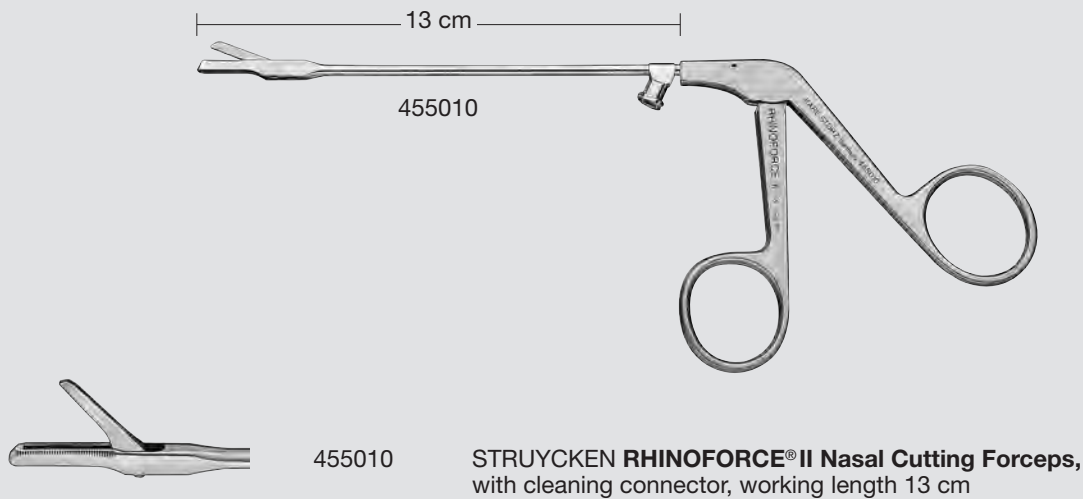
452502 B

Same, 11.5 x 3.5 mm, size 2

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps



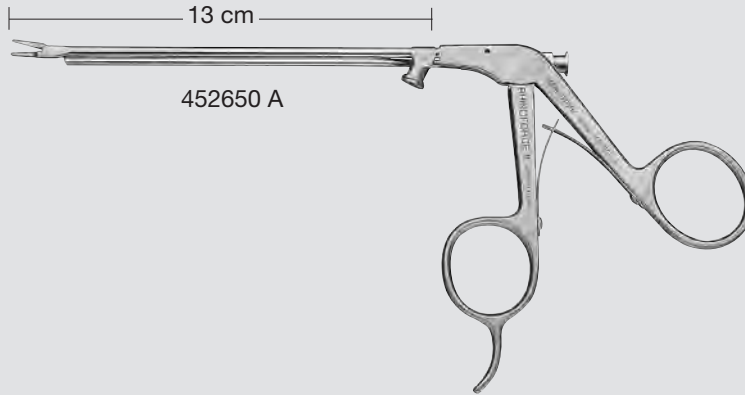
STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps,
with cleaning connector, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

MONTGOMERY-YOUNGS RHINOFORCE® II Clip Applicator,
for endonasal endoscopic sphenopalatine artery ligature

Winner of the **2006**
Cutler Surgical Prize



The **Cutlers' Surgical Prize** is one of the most prestigious annual awards for innovation in the design or application of surgical instruments or techniques. The prize as well as the Clarke medal are awarded by the surgical association and the president of the Royal College of Surgeons of England.



452650 A MONTGOMERY-YOUNGS **RHINOFORCE® II**
Clip Applicator, for endonasal endoscopic
sphenopalatine artery ligature, with suction
channel, handle with spring, straight, with
cleaning connector, working length 13 cm,
for use with Titanium Clips 8665 T



452650 C **Same**, jaws angled to the right

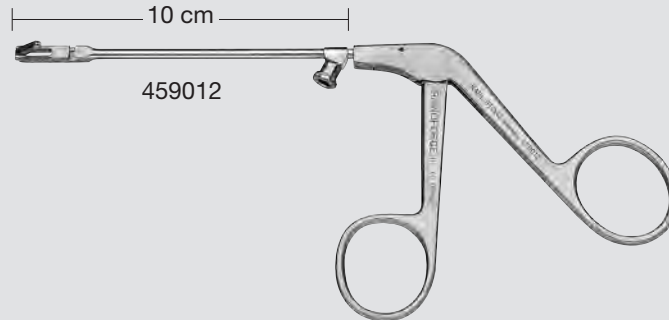


452650 D **Same**, jaws angled to the left

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Antrum Punch, backward cutting



459010

STAMMBERGER RHINOFORCE® II Antrum Punch,
upside backward cutting, with cleaning connector,
working length 10 cm



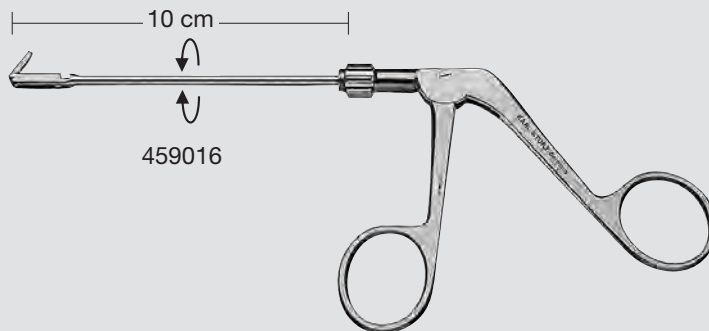
459011

Same, right side backward cutting



459012

Same, left side backward cutting



459016

STAMMBERGER Antrum Punch, backward
cutting, sheath 360° rotatable, with fixing screw,
dismantling, working length 10 cm, for use with
Cleaning Adaptor 459015 LL



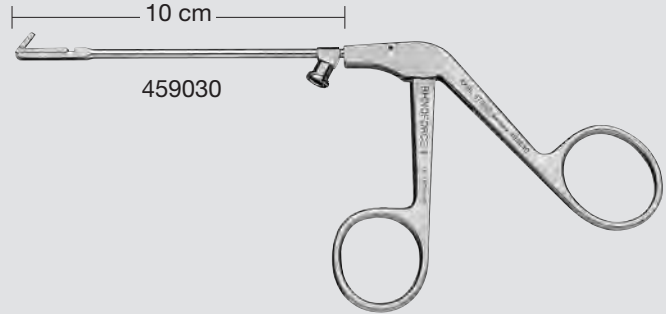
459015 LL

Cleaning Adaptor

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Antrum Punches, pediatric size, backward cutting



459030

STAMMBERGER **RHINOFORCE® II Antrum Punch**, small pediatric size, slender, upward backward cutting, with cleaning connector, working length 10 cm



459031

Same, right side backward cutting



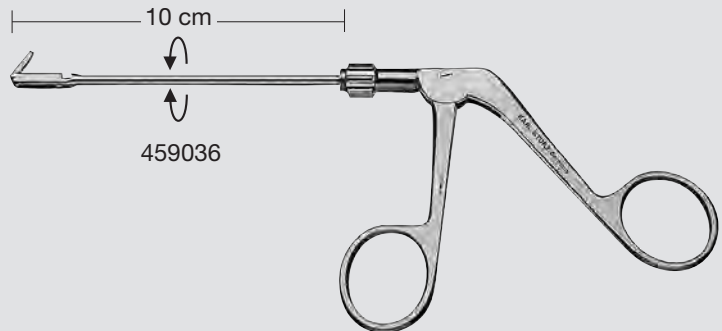
459032

Same, left side backward cutting



459033

Same, downside backward cutting



459036

STAMMBERGER **Antrum Punch**, small pediatric size, slender, backward cutting, sheath 360° rotating, with fixing screw, dismantling, working length 10 cm, for use with Cleaning Adaptor 459015 LL



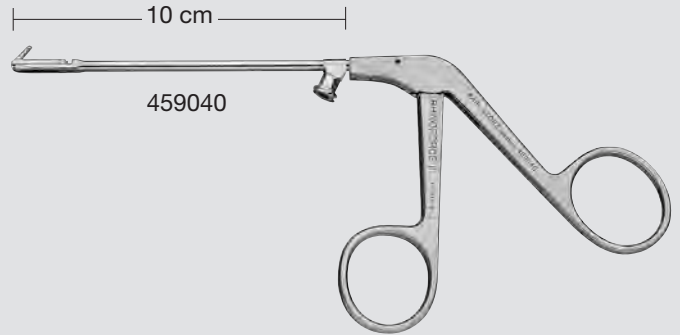
459015 LL

Cleaning Adaptor

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

PARSONS RHINOFORCE® II Punches, backward cutting



459040

PARSONS RHINOFORCE® II Punch,
for resection of the uncinat
process, upward backward cutting,
movable jaw with round tip,
diameter 2.5 mm, with cleaning
connector, working length 10 cm



459041

Same, right side backward
cutting



459042

Same, left side backward
cutting

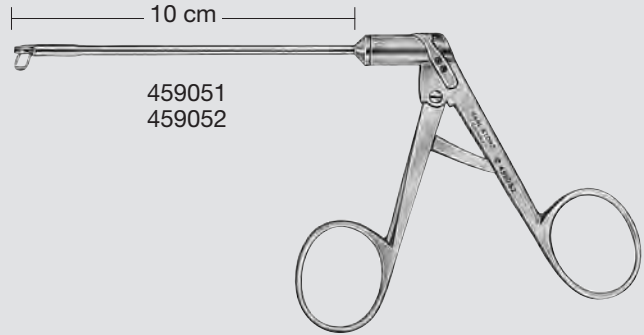
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Antrum Punch, sidebiting downward and forward cutting

The sidebiting antrum punch forceps designed in conjunction with Professor Heinz STAMMBERGER are crucial for removing remnants of the inferior unciniate process. The forceps are available in left and right version and are designed to cut downward and forward. The forceps design allows individual shaping of the antrostomy opening and extension of the antro-

stomy inferiorly and posteriorly. Use of the new sidebiting forceps can help reduce the time required for a middle meatal antrostomy. The sidebiting forceps can also be used to connect an accessory ostium to the natural maxillary ostium, as well as for partial resection of the inferior orbital floor in orbital decompression procedures.



459051

STAMMBERGER Antrum Punch,
right side downward and forward
cutting, working length 10 cm



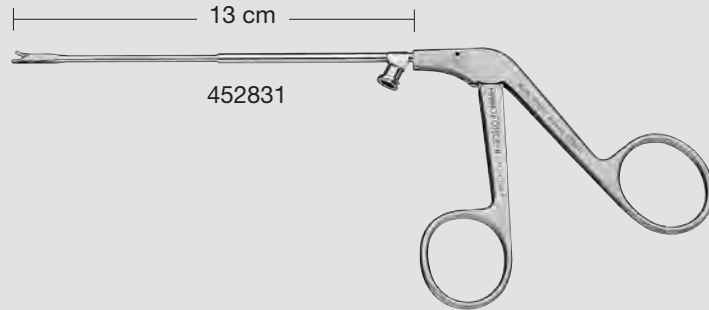
459052

Same, left side downward and
forward cutting

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

RHINOFORCE® II Miniature Nasal Forceps, flat jaws, through-cutting



452831

RHINOFORCE® II Miniature Nasal Forceps, with extra fine flat jaws, through-cutting, straight sheath, straight jaws, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452832

Same, jaws 45° upturned



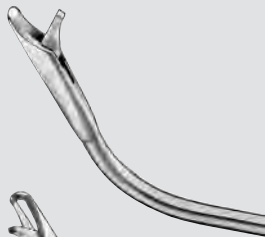
452833

Same, sheath curved 30°, straight jaws



452834

Same, sheath curved 30°, jaws 45° upturned



452841

CASTELNUOVO RHINOFORCE® II Miniature Nasal Forceps, with extra fine flat jaws, through-cutting, 65° upturned, backward opening, width of cut 1.5 mm, with cleaning connector, working length 13 cm



452841 L

Same, left side opening



452841 R

Same, right side opening

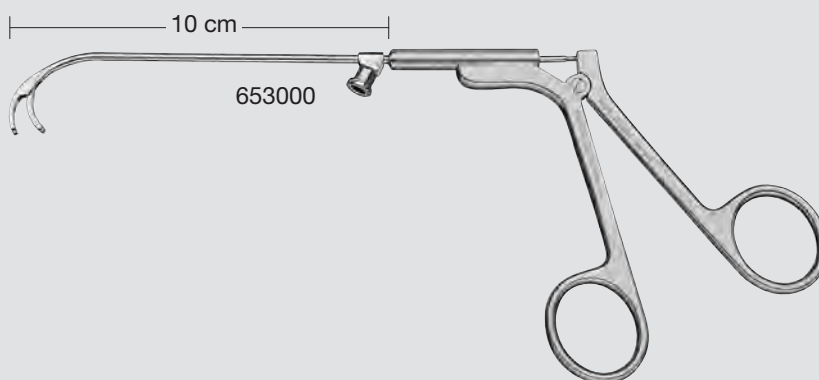
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

HEUWIESER Antrum Grasping Forceps

Special Features:

- Short, sharp-radius curve starting at the joint of the jaws
- Far-reaching jaws open backwards
- For endonasal removal of cysts and polyps
- With the telescope introduced separately the forceps sheath with a diameter of 2.5 mm permits handling and visualization inside the antrum
- Distal end of the forceps is sharply curved like an antrum cannula thus making it possible to introduce the working end far into the antrum; the fundus of the antrum is reached down to the alveolar sinus
- Fenestrated jaws enable unobstructed view of anatomic structures and the position of the jaws, thus facilitating localized work with grasping forceps
- Also suitable for removing fish bones and hairs from the hypopharynx



653000 **HEUWIESER Antrum Grasping Forceps**, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120° backward opening, with cleaning connector, working length 10 cm

653001 **Same**, jaws curved upwards

653002 **Same**, jaws curved to right

653003 **Same**, jaws curved to left

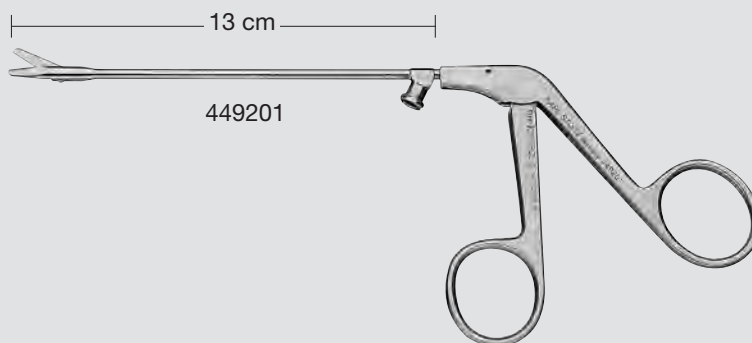
653005 **HEUWIESER Antrum Grasping Forceps**, with extra long curve for anterior alveolar recess, fixed jaw curved downwards 115°, movable jaw backward opening up to 140°, with cleaning connector, working length 10 cm









653006 **Same**, fixed jaw curved downwards 140°, movable jaw backward opening 155°

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

RHINOFORCE® II Nasal Scissors

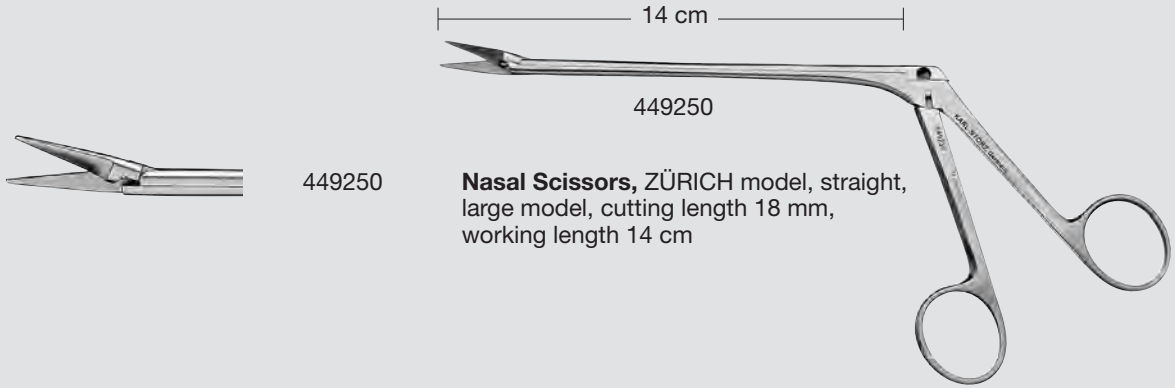


	449201	RHINOFORCE® II Nasal Scissors , straight, with cleaning connector, working length 13 cm
	449202	Same , curved to right
	449203	Same , curved to left
	449204	RHINOFORCE® II Nasal Scissors , cutting blades curved upwards, to cut the anterior part of the middle turbinate in case of narrow nose and to prevent postoperative synechia, with cleaning connector, working length 13 cm
	449205	Same , curved downwards
	449211	RHINOFORCE® II Nasal Scissors , straight, small model, length of cut 10 mm, with cleaning connector, working length 13 cm
	449212	Same , curved to right
	449213	Same , curved to left

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

Nasal Scissors



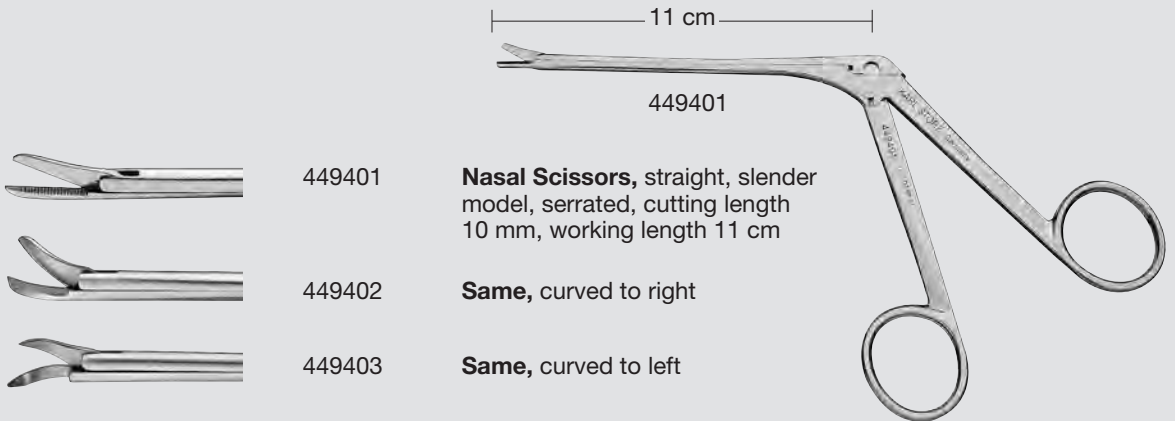
449250

Nasal Scissors, ZÜRICH model, straight,
large model, cutting length 18 mm,
working length 14 cm



449251

Nasal Scissors, ZÜRICH model, straight,
small model, cutting length 12 mm,
working length 12 cm



449401

Nasal Scissors, straight, slender
model, serrated, cutting length
10 mm, working length 11 cm

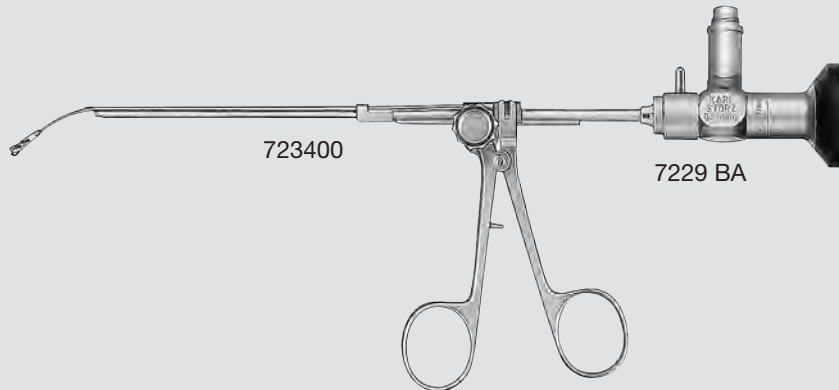
449402

Same, curved to right

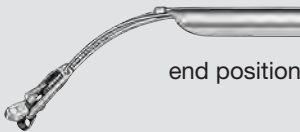
449403

Same, curved to left

Optical Biopsy and Grasping Forceps, retractable



starting position



end position

723400

Optical Biopsy and Grasping Forceps,
flexible, for use with HOPKINS® II Telescope
7229 BA and Trocars 723005 A/B



7229 BA

HOPKINS® II Forward-Oblique Telescope 30°,
enlarged view, diameter 2.7 mm, length 18 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: red

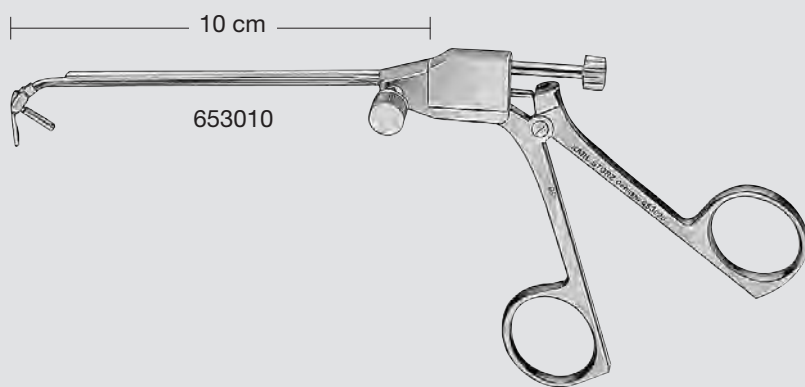
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

HEUWIESER Antrum Grasping Forceps, double action jaws

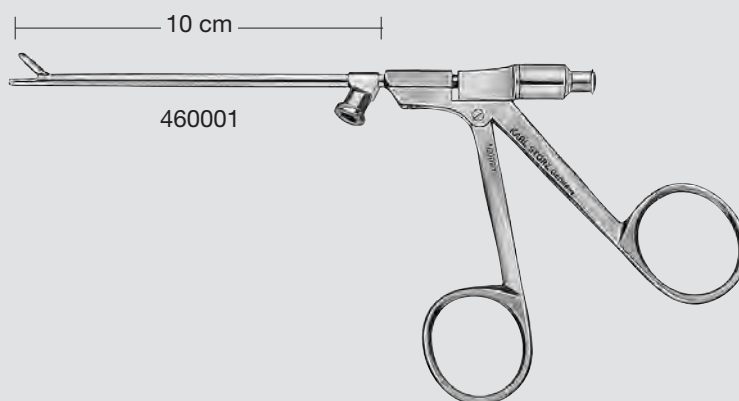
Special Features:

- Enlarged action radius of jaws compared to that of HEUWIESER standard forceps
- Retrograde position of both jaws adjustable: upper jaw up to 120° angle, inferior jaw up to 180°, opens backwards



HEUWIESER Antrum Grasping Forceps,
double action jaws adjustable to retrograde
position, working length 10 cm

STAMMBERGER Suction Punches, with central suction channel



460001

STAMMBERGER Suction Punch, for biopsy and grasping, straight, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm



460501

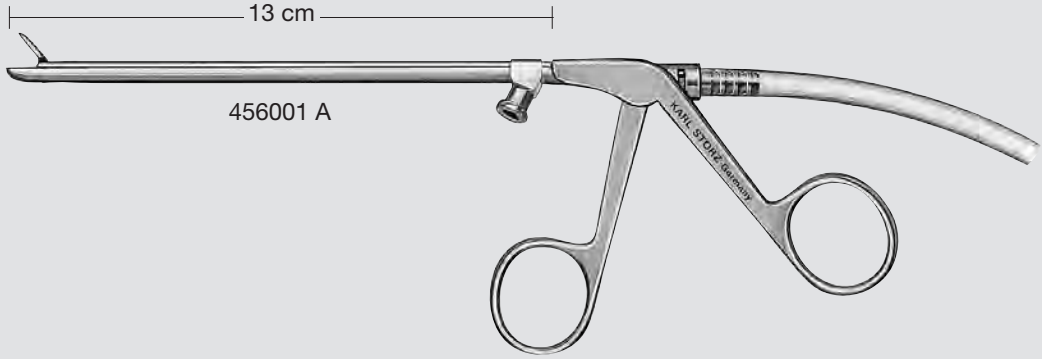
STAMMBERGER Suction Punch, for biopsy and grasping, curved upwards, with central suction channel, with Cleaning Stylet 460001 E, size 1, with cleaning connector, working length 10 cm



FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KENNEDY-BLAKESLEY/LUSK RHINOFORCE® II Suction Punches and Biopsy and Grasping Forceps, with lateral suction channel



456001 A

KENNEDY-BLAKESLEY RHINOFORCE® II Suction Punch, for biopsy and grasping, straight, with suction channel, size 1, with cleaning connector, working length 13 cm



456002 A

Same, size 2



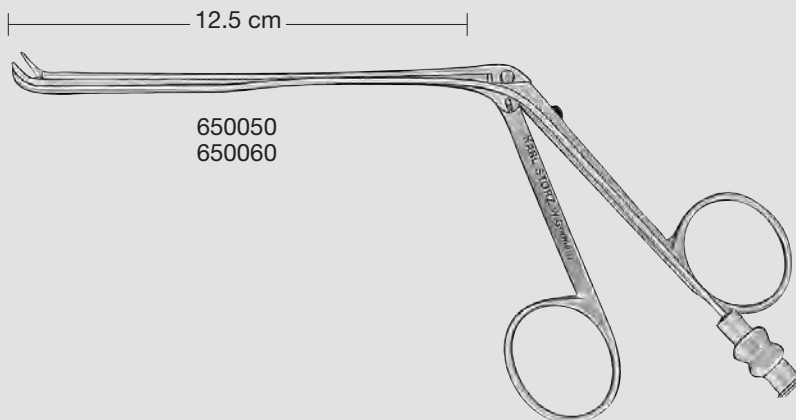
456501 A

KENNEDY-BLAKESLEY RHINOFORCE® II Biopsy and Grasping Forceps, 45° upturned, with suction channel, size 1, with cleaning connector, working length 12.5 cm



456502 A

Same, size 2



650050

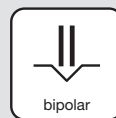
KENNEDY-LUSK Biopsy and Grasping Forceps, straight, for children, with suction channel, working length 12.5 cm



650060

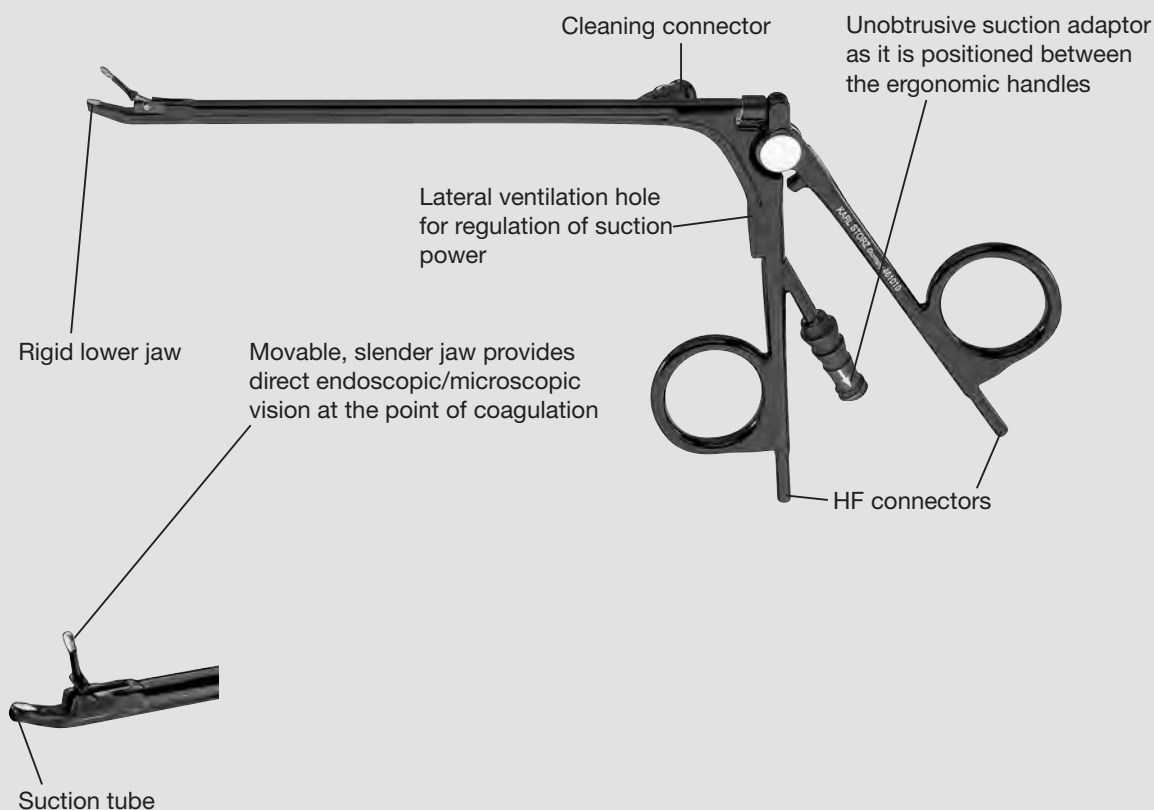
Same, 45° upturned

STAMMBERGER Bipolar Suction Forceps



Special Features:

- Design similar to standard paranasal grasping forceps
- Integrated suction channel
- Suction power regulation
- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied, enabling punctual and extensive coagulation
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation
- Two instrument heads: angled 15° and 45° to the instrument sheath
- Slim design enables good availability of previously hard to reach regions for cauterization



STAMMBERGER Bipolar Suction Forceps

Indications/Applications:

- Arterial bleeding (ethmoidal, sphenopalatine and maxillary arteries, turbinate and septum vessels)
- Skull base surgery
- Oozing hemorrhage from the mucosa edges
- Vascular processes, i.e. nasopharyngeal fibroma
- Epistaxis
- Secondary hemorrhage, i.e. from adenotomes in the nasopharynx
- Edema prevention, shrinkage of mucosa (for example, posterior end of the turbinate)
- Turbinate cauterization



461010



461010

STAMMBERGER **Bipolar Suction Forceps**, 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



461015



461015

STAMMBERGER **Bipolar Suction Forceps**, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see pages 426-428

TAKE-APART® Bipolar Forceps ^{NEW}

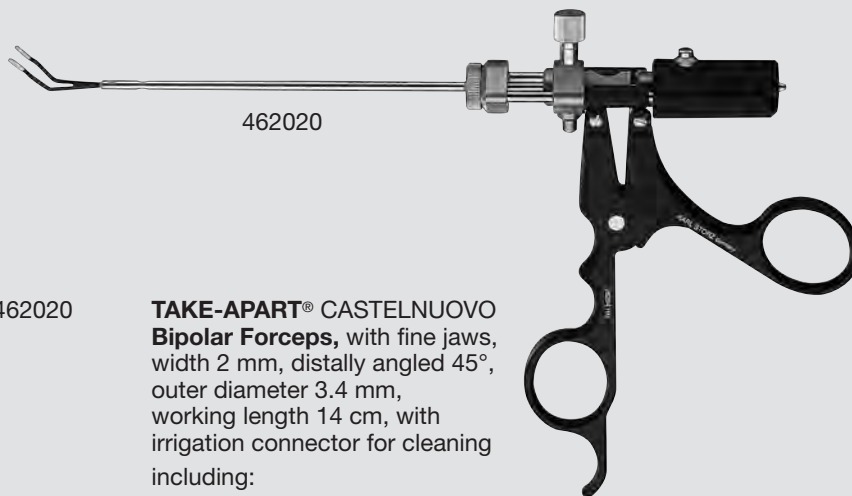
For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV



462020

TAKE-APART® CASTELNUOVO Bipolar Forceps, with fine jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



462023

TAKE-APART® Bipolar Forceps, with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



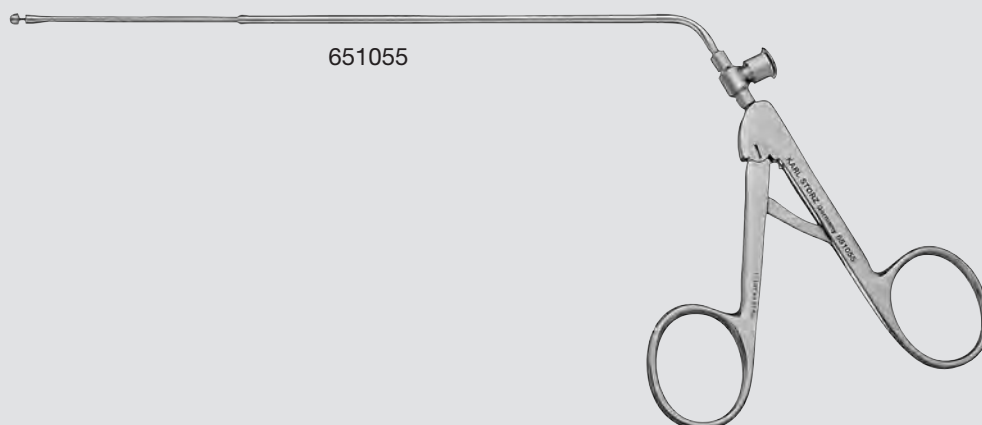
FESS Instruments





for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Circular Cutting Punches, with cleaning connector

Special Features:

- For enlarging openings in the sphenoid frontal wall
- Circular cutting punch mechanism allows cutting in a full circle of 360° without rotating the instrument as required with a conventional punch forceps
- No interference with other instruments simultaneously used in the nose (e. g. endoscope, suction tube)
- Available in 2 sizes: diameter 3.5 and 4.5 mm, punch head 4-fold LASER-welded
- With cleaning connector
- Multipurpose use:
 - In addition to abrading procedures applied to the sphenoid frontal wall, bony ethmoid septa, pieces of nasal concha and other thin bony bridges can also be cut away
 - Suitable for treatment of choanal atresia



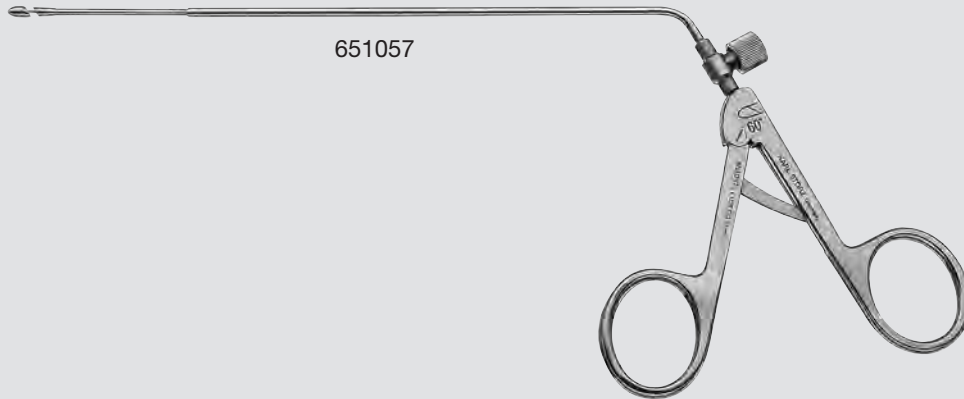
	651055	STAMMBERGER Punch , circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, with cleaning connector, working length 18 cm
	651050	Same , diameter 4.5 mm
	651060	STAMMBERGER Punch , circular cutting, 65° upturned, for frontal sinus recess, diameter 3.5 mm, with cleaning connector, working length 17 cm
	651065	Same , diameter 4.5 mm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER Punches

Egg-shaped tip, for opening the ethmoid cells and the sphenoid sinus



651057

STAMMBERGER **Punch**, egg-shaped tip, circular cut, 60° cutting direction from distal above to proximal below, tip diameter 3.5 mm, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, working length 18 cm



651058

Same, 120° cutting direction from distal below to proximal above



651052

STAMMBERGER **Punch**, egg-shaped tip, circular cut, 60° cutting direction from distal above to proximal below, tip diameter 4.5 mm, straight sheath, for sphenoid, ethmoid and choanal atresia, with cleaning connector, working length 18 cm



651053

Same, 120° cutting direction from distal below to proximal above



651061

STAMMBERGER **Punch**, egg-shaped tip, circular cut, 90° cutting direction, tip diameter 3.5 mm, sheath 65° upturned, for frontal sinus recess, with cleaning connector, working length 17 cm



651066

Same, tip diameter 4.5 mm

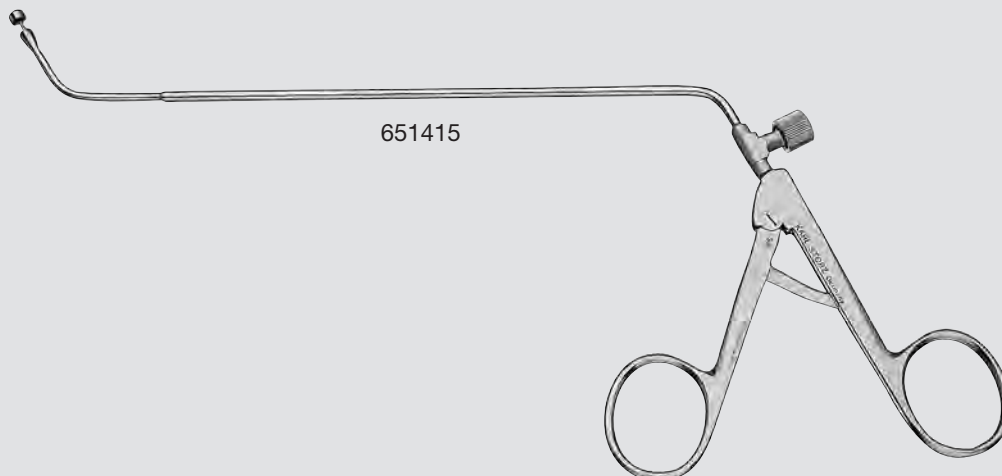
FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KAMEL Antrum Punches

Special Features:

- Middle meatal antrostomy punch
- Short tip, 30° and 45° upturned
- Punch head diameter 4.5 mm
- Circular cutting
- Working length 13 cm
- With cleaning connector



651410

KAMEL **Punch**, 30° upturned, punch head diameter 4.5 mm, circular cutting, with cleaning connector, working length 13 cm



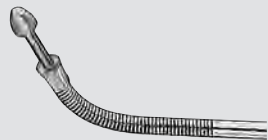
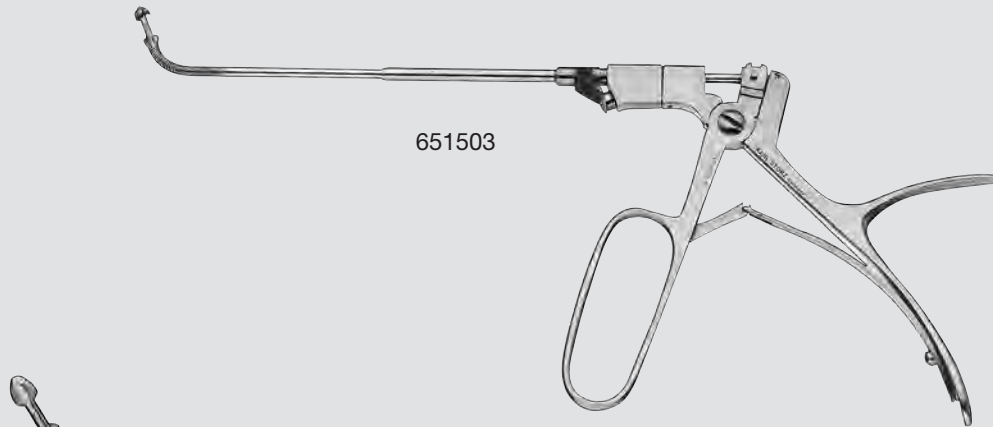
651415

Same, 45° upturned

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

HOSEMANN Frontal Sinus/Recess Punches and Sphenoid Punch, with central irrigation channel



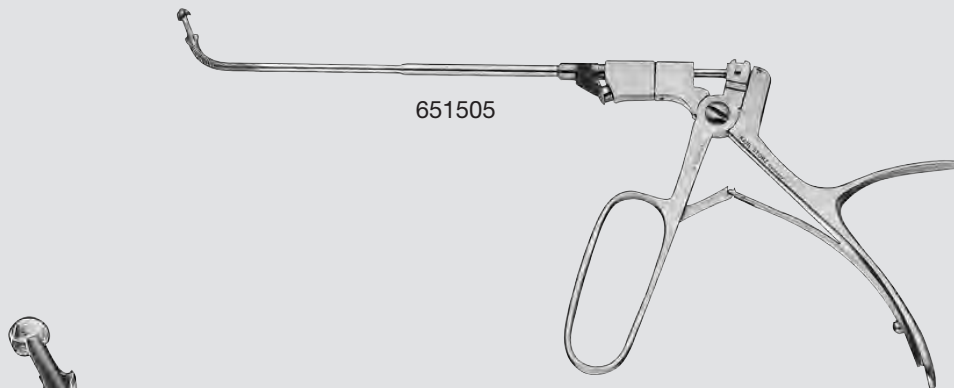
651503

HOSEMANN Frontal Sinus/Recess Punch, 70° upturned, slender model, punch head diameter 3.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 2.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm



651504

HOSEMANN Sphenoid Punch, straight, slender model, punch head diameter 3.5 mm, not through-cutting, front part of punch fixed, rear part of punch movable, sheath diameter 2.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm



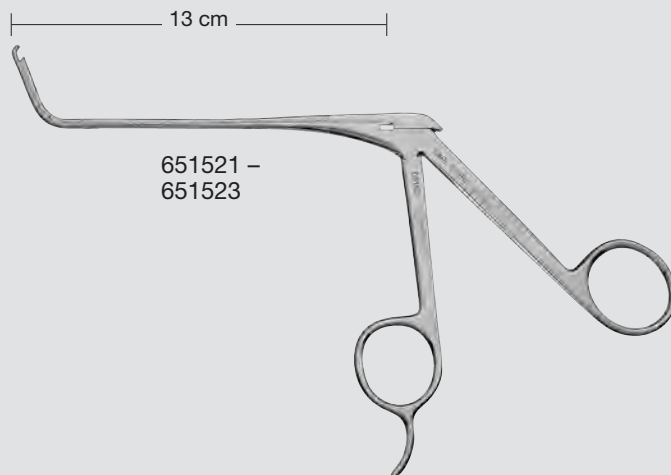
651505

HOSEMANN Frontal Sinus/Recess Punch, 70° upturned, robust model, punch head diameter 5.5 mm, not through-cutting, upper part of punch fixed, lower part of punch movable, sheath diameter 3.5 mm, central irrigation channel with concealed LUER-Lock irrigation adaptor, working length 13 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

Frontal Sinus Punch with link chain sheath, backward cutting



651521 -
651523



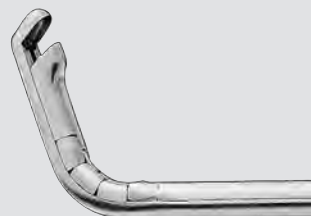
651521

Frontal Sinus Punch, with link chain sheath 70° upturned, backward cutting, to reduce the spina nasalis superior, small, jaws 2.5 x 2 mm, working length 13 cm



651522

Same, medium (standard size), jaws 3.5 x 3 mm



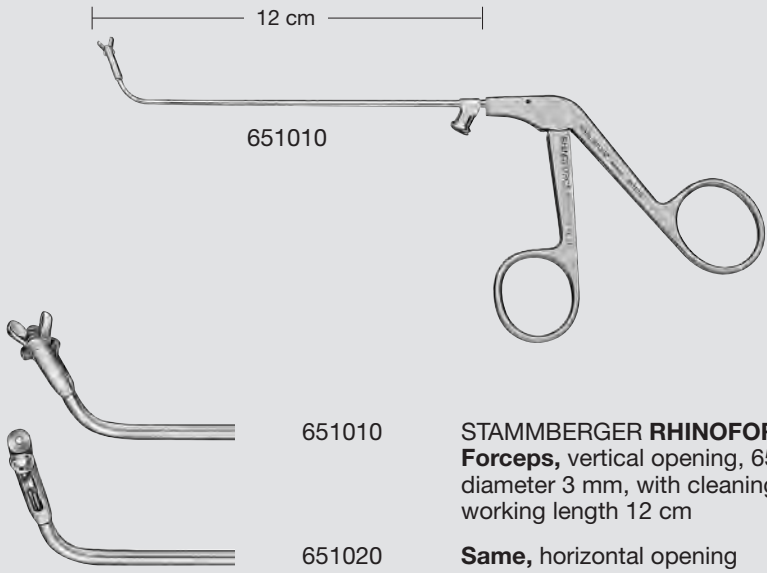
651523

Same, large, jaws 5.5 x 5 mm

FESS Instruments

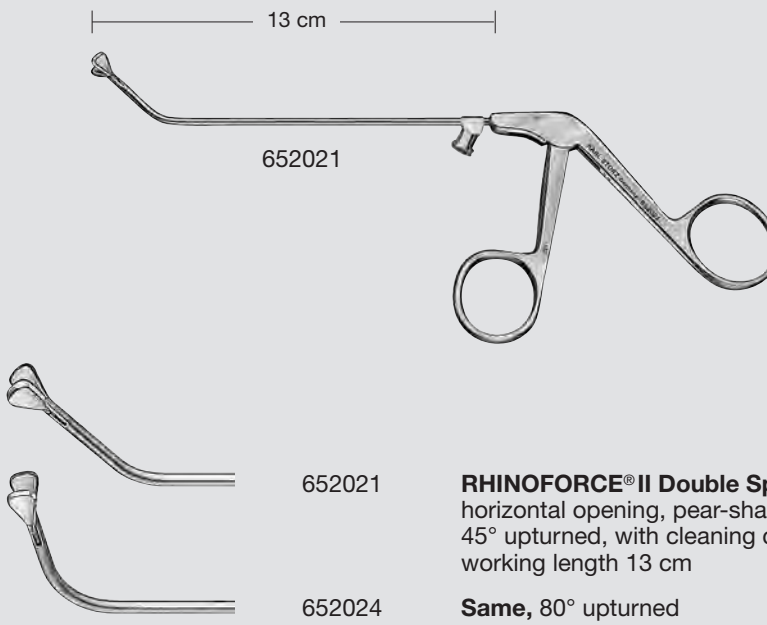
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

STAMMBERGER RHINOFORCE® II Double Spoon Forceps, round and pear-shaped



STAMMBERGER RHINOFORCE® II Double Spoon Forceps, vertical opening, 65° upturned, spoon diameter 3 mm, with cleaning connector, working length 12 cm

Same, horizontal opening



RHINOFORCE® II Double Spoon Forceps, horizontal opening, pear-shaped jaws, 45° upturned, with cleaning connector, working length 13 cm

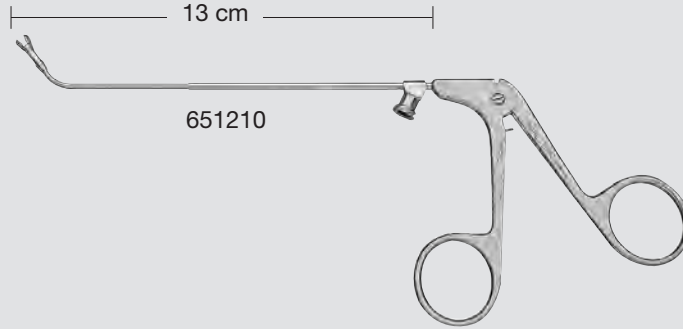
Same, 80° upturned

3-99z

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KUHN-BOLGER Double Spoon Giraffe Forceps, cupped jaws, not through-cutting



651210

KUHN-BOLGER **Double Spoon Giraffe Forceps**,
55° upturned, vertical opening, spoon diameter 3 mm,
with cleaning connector, working length 13 cm



651220

Same, horizontal opening



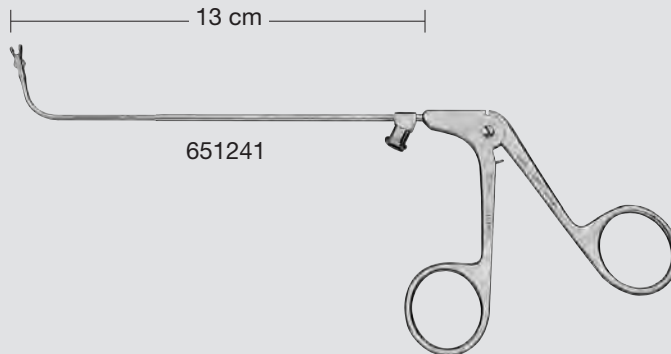
651211

KUHN-BOLGER **Double Spoon Giraffe Forceps**,
55° upturned, vertical opening, spoon diameter 2 mm,
with cleaning connector, working length 13 cm



651221

Same, horizontal opening



651231

KUHN-BOLGER **Double Spoon Giraffe Forceps**,
90° upturned, horizontal opening, spoon diameter 2 mm,
with cleaning connector, working length 13 cm



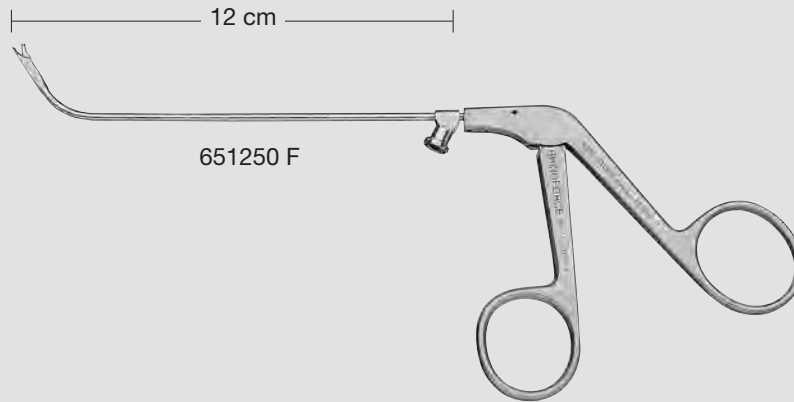
651241

Same, vertical opening

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KUHN RHINOFORCE® II Frontal Sinus Forceps, flat jaws, through-cutting, straight tip



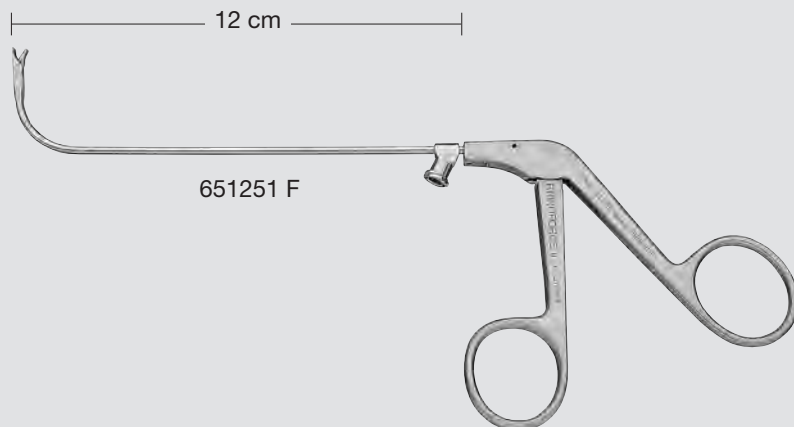
651250 F KUHN RHINOFORCE® II Frontal Sinus Forceps, through-cutting, with extra fine flat jaws, sheath 60° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm



651250 FL Same, left side opening



651250 FR Same, right side opening



651251 F KUHN RHINOFORCE® II Frontal Sinus Forceps, through-cutting, with extra fine flat jaws, sheath 90° upturned, width of cut 1.5 mm, backward opening, with cleaning connector, working length 12 cm

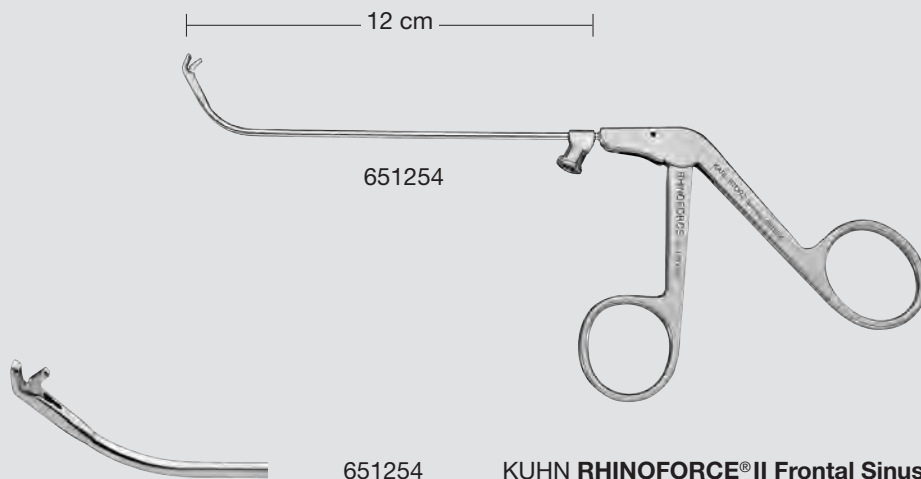


651251 FL Same, left side opening



651251 FR Same, right side opening

RHINOFORCE® II KUHN Frontal Sinus Forceps, flat jaws, through-cutting



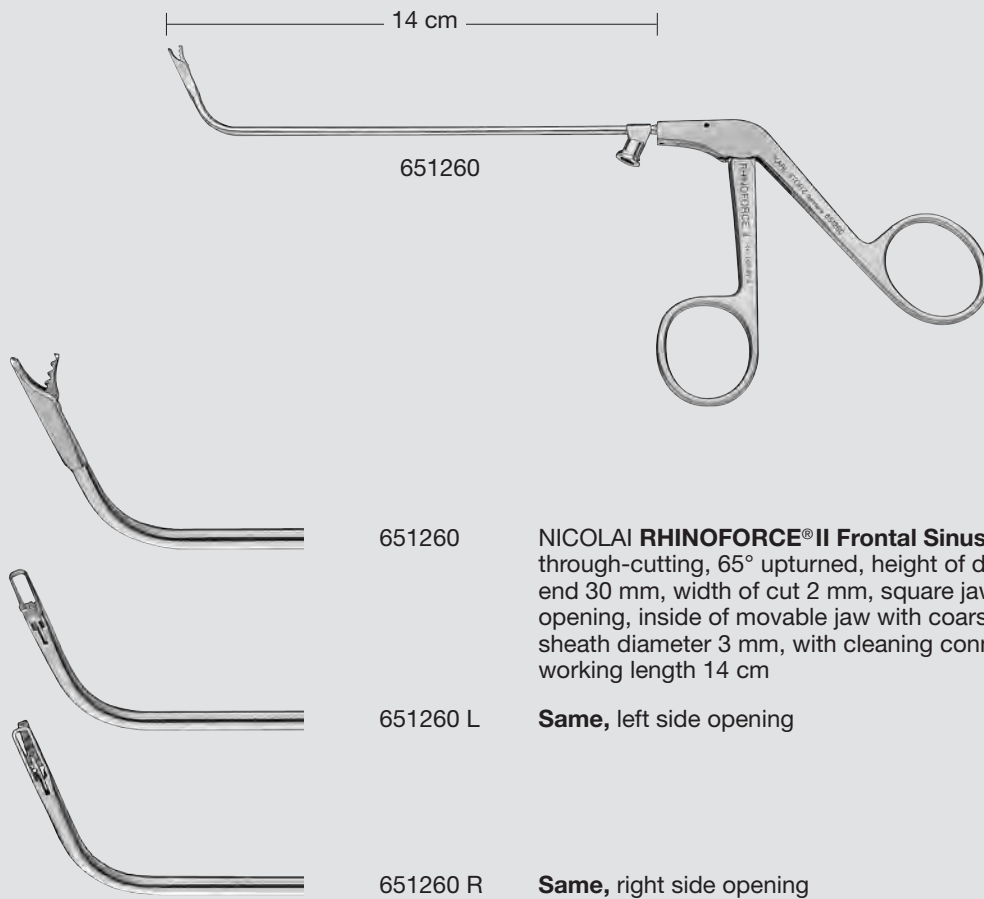
651254

KUHN RHINOFORCE® II Frontal Sinus Forceps,
through-cutting, jaws angled 45°, extra fine flat
jaws, sheath 60° upturned, width of cut 1.5 mm,
backward opening, with cleaning connector,
working length 12 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

NICOLAI RHINOFORCE® II Frontal Sinus Forceps, through-cutting



NICOLAI RHINOFORCE® II Frontal Sinus Forceps,
through-cutting, 65° upturned, height of distal sheath
end 30 mm, width of cut 2 mm, square jaws, backward
opening, inside of movable jaw with coarse serration,
sheath diameter 3 mm, with cleaning connector,
working length 14 cm

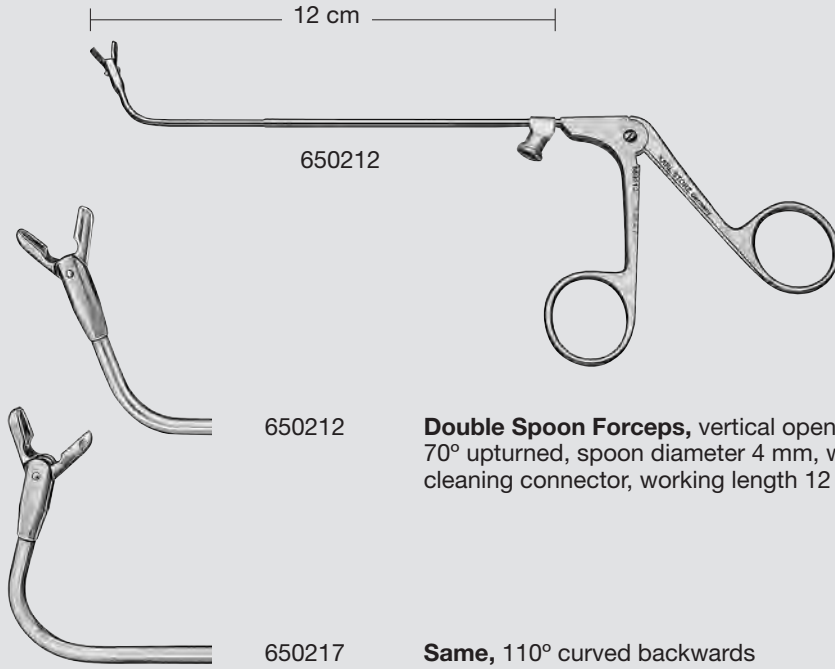
Same, left side opening

Same, right side opening

FESS Instruments

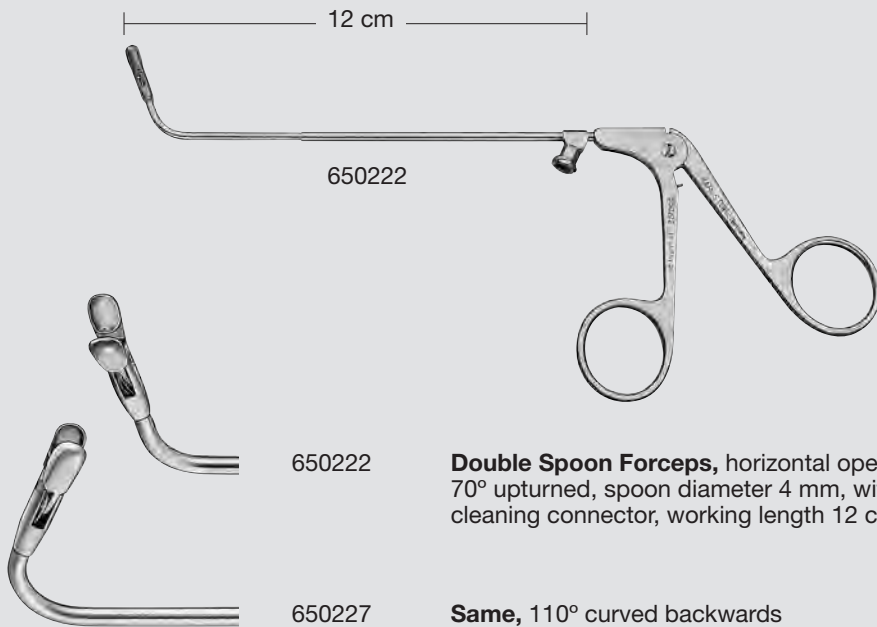
for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base

Double Spoon Forceps, cupped jaws



Double Spoon Forceps, vertical opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, working length 12 cm

Same, 110° curved backwards



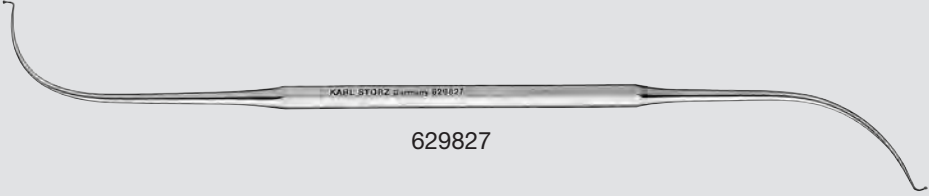

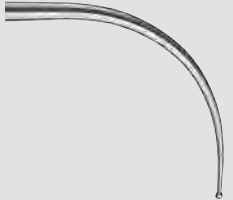
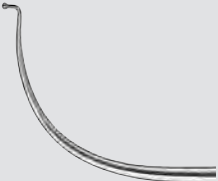
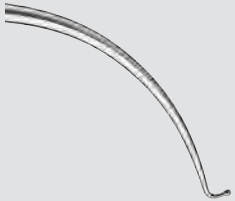








Double Spoon Forceps, horizontal opening, 70° upturned, spoon diameter 4 mm, with cleaning connector, working length 12 cm

Same, 110° curved backwards

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base

KUHN Frontal Sinus Seeker

	629827		
	629826	KUHN Frontal Sinus Seeker , double-ended, No. 2, both sides curved 90°, one tip straight, one tip reverse angle, length 22 cm	
	629827	KUHN Frontal Sinus Seeker , double-ended, No. 3, one side curved 77°, other side curved 90°, both tips forward angle, length 22 cm	
	629828	KUHN Frontal Sinus Seeker , double-ended, No. 4, both sides curved 90°, tips angled right and left, length 22 cm	
	629829	KUHN Frontal Sinus Seeker , double-ended, No. 5, both sides curved 77°, tips angled right and left, length 22 cm	
	629830	KUHN Frontal Sinus Seeker , double-ended, No. 6, both sides curved 77°, one tip straight, other tip reverse angle, length 22 cm	
	629835	Seeker , double-ended, straight, malleable, one tip with ball end, other tip without ball end and blunt, length 24 cm	

4-031

FESS Instruments

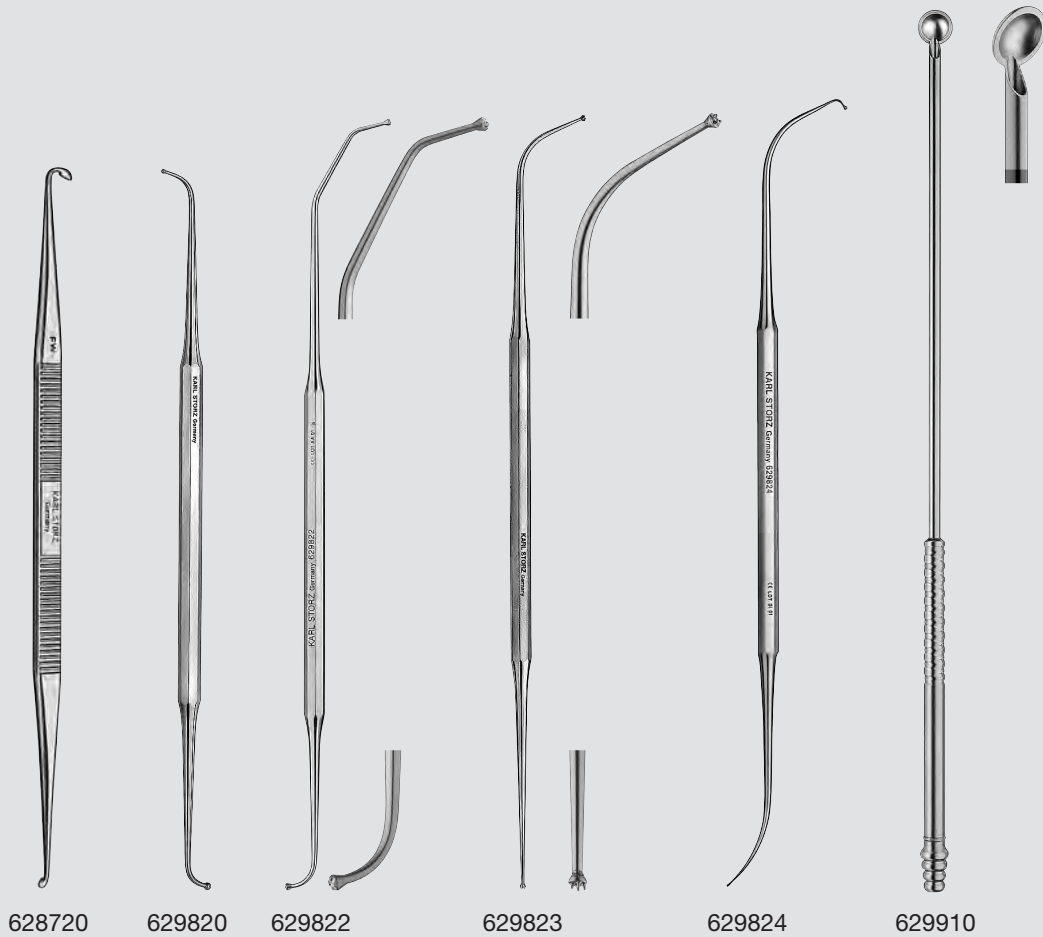
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



- 223300 **PLESTER Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- 474001 **FREER Suction Elevator**, with stylet, length 19 cm
- 474005 **FREER-JACOBS Elevator**, double-ended, semisharp, one side slightly curved FREER elevator, width 5 mm, other side JACOBS elevator, angled 45°, width 2.5 mm, length 20 cm, for infundibulotomy
- 479100 **COTTLE Elevator**, double-ended, semisharp and blunt, graduated, length 20 cm
- 628001 **Sickle Knife**, pointed, length 19 cm
- 628002 **Sickle Knife**, round, double-cutting, length 19 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



- 628720 **Curette**, double-ended, oval, one side short curved 45°, semisharp, diameter 2.2 mm, other side long curved 90°, sharp, diameter 2.7 mm, length 19 cm
- 629820 **Probe**, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
- 629822 CASTELNUOVO **Positioning Instrument**, double-ended, curved 80°/double curved, with 4 spikes, length 22 cm
- 629823 CASTELNUOVO **Positioning Instrument**, double-ended, straight/curved 60°, with 4 spikes, length 22 cm
- 629824 CASTELNUOVO **Frontal Sinus Probe**, double-ended, curved, length 22 cm
- 629910 STAMMBERGER **Plate Elevator**, closed blade diameter 10 mm, tip angled 30°, with suction channel, LUER, with round handle, length 25 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



- 628601 **Antrum Curette**, oval, size 1,
length 19 cm
- 628602 **Same**, size 2
- 628603 **Same**, size 3

- 628701 **Antrum Curette**, round,
length 19 cm
- 628702 **Same**, oblong, small
- 628703 **Same**, oblong, large

- 628712 **KUHN-BOLGER Frontal Sinus Curette**,
55° curved, oval, forward cutting,
length 19 cm
- 628714 **Same**, 90° curved

- 628715 **KUHN-BOLGER Frontal Sinus Curette**,
elongated 90° curve, oblong, small,
length 19 cm

- 629703 **Antrum Curette**, forward cutting,
small, length 19 cm
- 629704 **Same**, backward cutting

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



223530 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm

223535 **Same**, slightly curved spatula, straight, size 3 mm

223540 **Same**, round spatula, tip angled 45°, size 3 mm

223532 BEHRBOHM **Dissector**, for dissection in the region of the paranasal sinuses, skull base and petrous bone, curved, sharp, flat long spatula, tip angled 15°, with round handle, size 2 mm, length 17 cm

223537 **Same**, slightly curved spatula, size 3 mm

223542 **Same**, round spatula, tip angled 45°, size 3 mm

223533 BEHRBOHM **Snake Dissector**, long curved, sharp, long flat spatula, tip angled 15°, with round handle, size 2 mm, length 18 cm

223538 **Same**, slightly curved spatula, size 3 mm

223543 **Same**, round spatula, tip angled 45°, size 3 mm

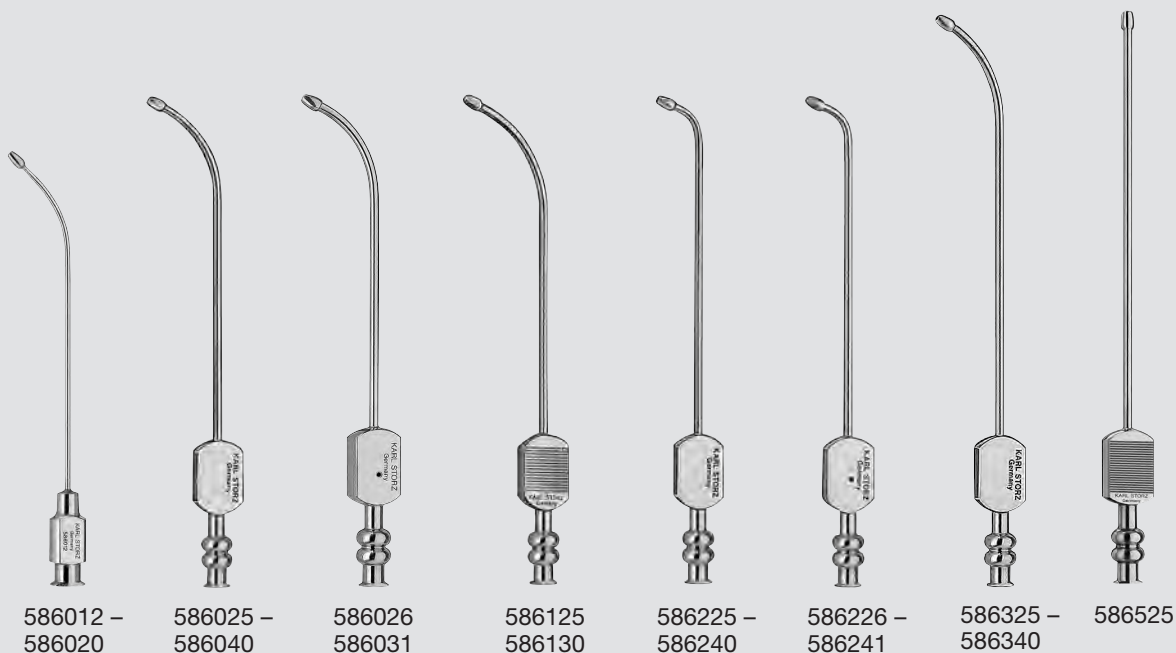
529505 BEHRBOHM **Bullotome**, suction tube with conical tip, sharp, with cut-off hole and mandrel, angular, outer diameter 5 Fr., working length 10 cm, total length 17.5 cm

529507 **Same**, outer diameter 7 Fr.

529509 **Same**, outer diameter 9 Fr.

FESS Instruments

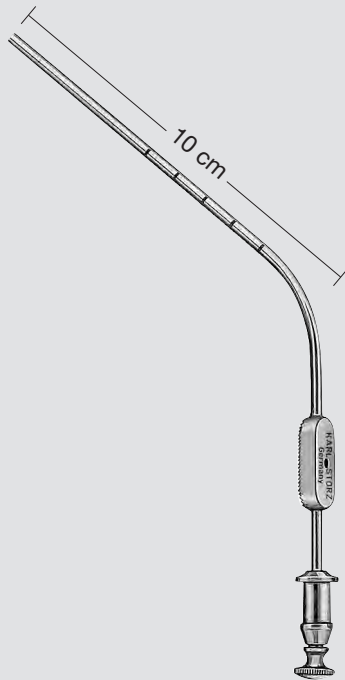
for Endoscopic Diagnosis, Surgery and Postoperative Treatment
of Nasal Sinuses and Anterior Skull Base



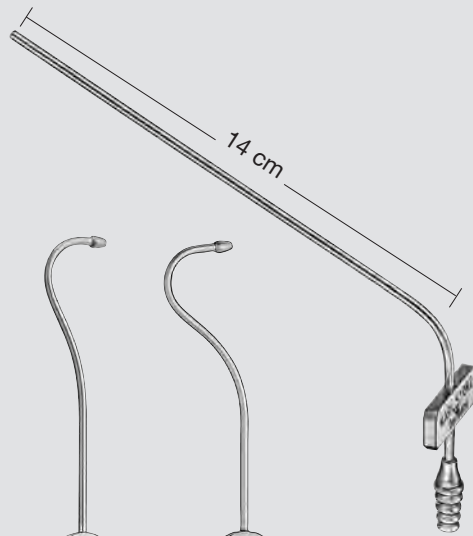
586012 – 586020	Antrum Cannula , LUER-Lock, long curved, with olive, without grip plate, outer diameter 1.2 mm, length 9 cm	586225	v. EICKEN Antrum Cannula , LUER-Lock, short curved, outer diameter 2.5 mm, length 12.5 cm
586015	Same , with olive diameter 2.7 mm, outer diameter 1.5 mm	586230	Same , outer diameter 3 mm
586020	Same , outer diameter 2 mm	586240	Same , outer diameter 4 mm
586025	v. EICKEN Antrum Cannula , LUER-Lock, long curved, outer diameter 2.5 mm, length 12.5 cm	586226	v. EICKEN Antrum Cannula , LUER-Lock, with cut-off hole, short curved, outer diameter 2.5 mm, length 12.5 cm
586030	Same , outer diameter 3 mm	586231	Same , outer diameter 3 mm
586040	Same , outer diameter 4 mm	586241	Same , outer diameter 4 mm
586026	v. EICKEN Antrum Cannula , LUER-Lock, with cut-off hole, long curved, outer diameter 2.5 mm, length 12.5 cm	586325	v. EICKEN Antrum Cannula , LUER-Lock, long curved, outer diameter 2.5 mm, length 15 cm
586031	Same , outer diameter 3 mm	586330	Same , outer diameter 3 mm
		586340	Same , outer diameter 4 mm
586125	v. EICKEN Antrum Cannula , LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm	586525	Antrum Cannula , LUER-Lock, straight, malleable, with serrated grip plate, outer diameter 2.5 mm, working length 15 cm
586130	Same , outer diameter 3 mm		

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



529305 –
529309



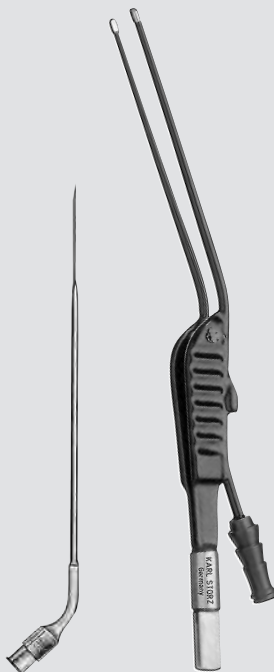
586145

586146

722830



722925



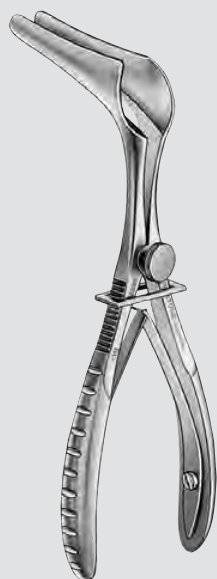
810506

843219

- 529305 **FRAZIER Suction Tube**, with mandrel and cut-off hole, with distance marking at 5 – 9 cm, 5 Fr., working length 10 cm
- 529307 **Same**, 7 Fr.
- 529309 **Same**, 9 Fr.
- 586145 v. **EICKEN-CASTELNUOVO Antrum Cannula**, LUER-Lock, S-shaped slightly curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
- 586146 **Same**, strongly curved
- 722830 **Suction Tube**, angular, with grip plate and cut-off hole, LUER, outer diameter 3 mm, working length 14 cm
- 722925 **Suction Tube**, conical, malleable, with finger grip plate, LUER-Lock, outer diameter 2.5 mm, working length 13 cm
- 810506 **Septum Needle**, angular, LUER-Lock
- 843219 **Bipolar Coagulation Forceps**, insulated, angular, blunt, with integrated suction channel for epistaxis, with cut-off hole, length 19 cm

FESS Instruments

for Endoscopic Diagnosis, Surgery and Postoperative Treatment of Nasal Sinuses and Anterior Skull Base



403240 –
403290



404455 –
404490

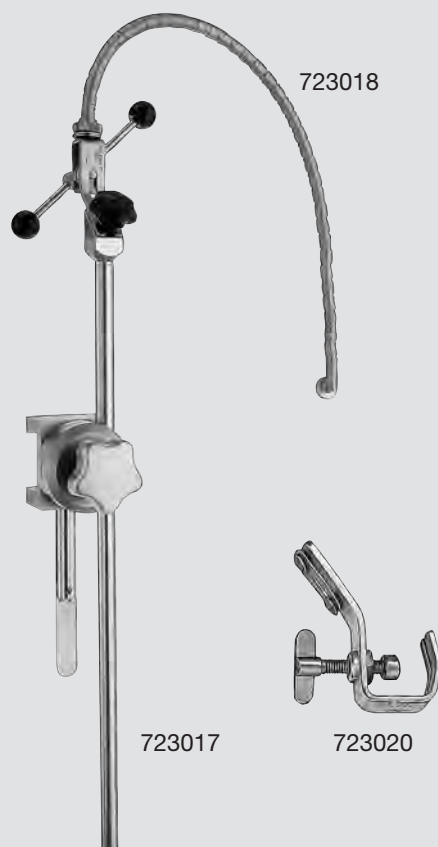


404555 –
404590

403240 **KILLIAN-STRUYCKEN Nasal Speculum**, with set rack, blade length 40 mm, length 15 cm
 403255 **Same**, blade length 55 mm
 403265 **Same**, blade length 65 mm
 403275 **Same**, blade length 75 mm
 403290 **Same**, blade length 90 mm

404455 **RUDERT Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, left blade length 55 mm, right blade shortened with 3 mandrels, length 15 cm
 404465 **Same**, left blade length 65 mm
 404475 **Same**, left blade length 75 mm
 404490 **Same**, left blade length 90 mm

404555 **RUDERT Nasal Speculum**, for adults, with set screw and adaptation for Flexible Tension Arm 723018, right blade length 55 mm, left blade shortened with 3 mandrels, length 15 cm
 404565 **Same**, right blade length 65 mm
 404575 **Same**, right blade length 75 mm
 404590 **Same**, right blade length 90 mm

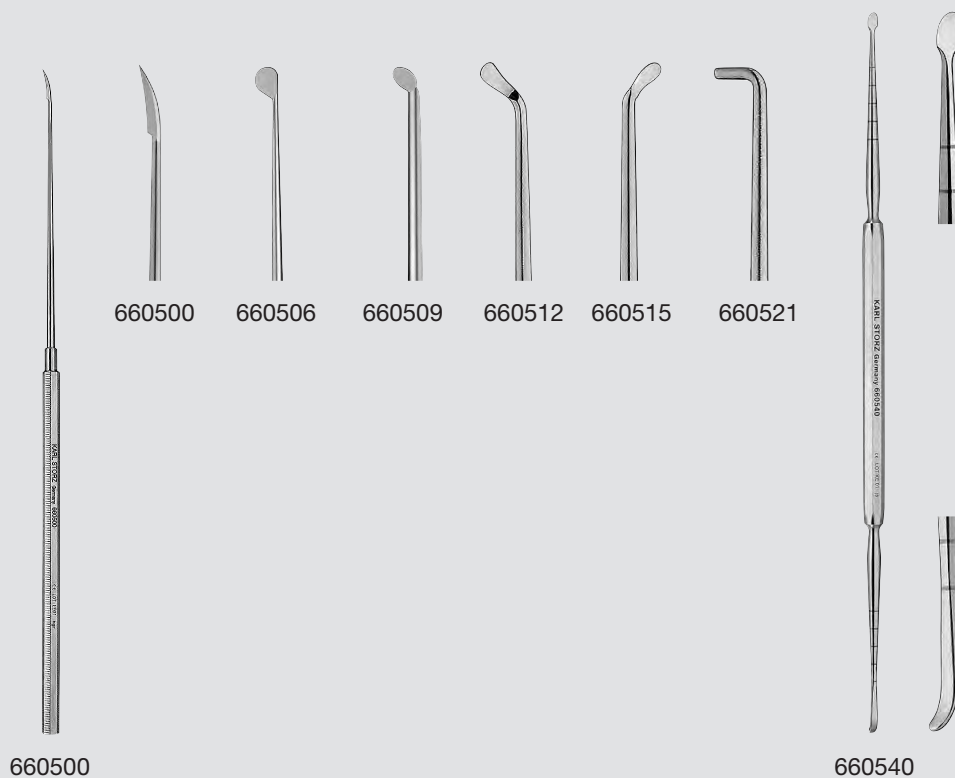


For use with Nasal Specula 404455 – 404475, 404555 – 405575

- 723017 **Rotating Clamp**, with holding rod for Flexible Tension Arms 723018 and 28162 FB, attachable to the operating table's sliding rail
- 723018 **Flexible Tension Arm**, length 50 cm
- 723020 **Connector**, for Flexible Tension Arm 723018, attachable to rods up to diameter 16 mm

The tension arm can also be attached to an anesthesia frame using the connector in place of the holding rod.

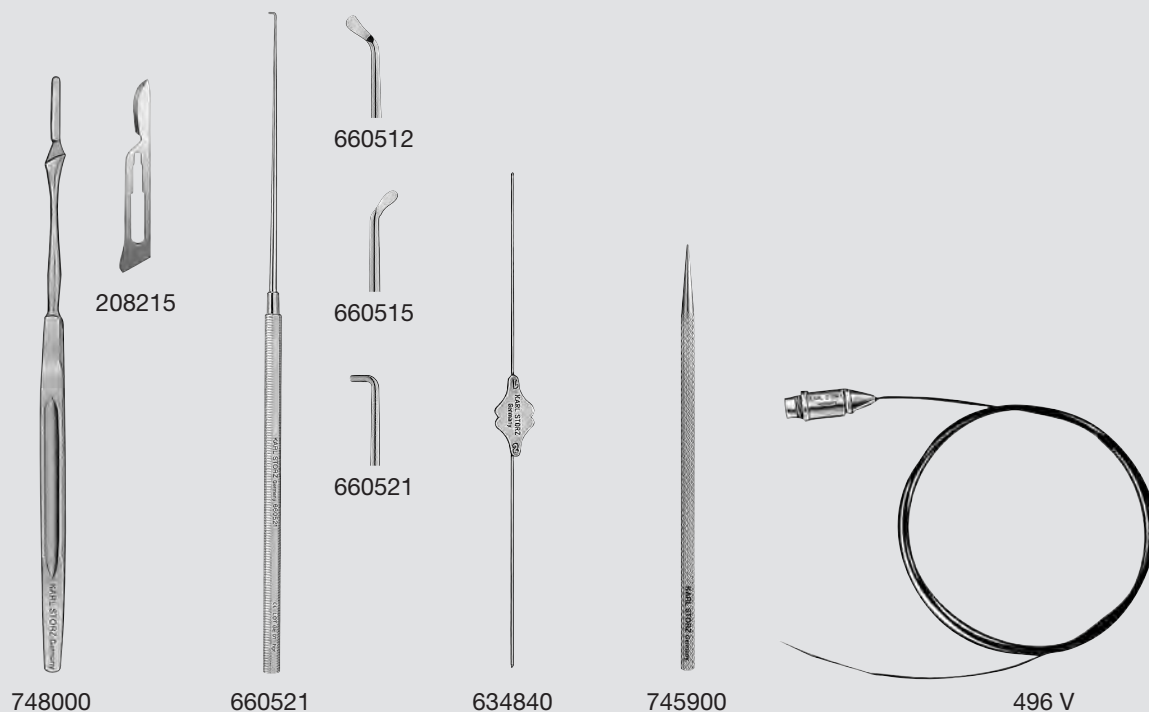
Set recommended by Prof. MESSERKLINGER and Prof. STAMMBERGER



- 660500 **Sickle Knife**, slightly curved, pointed, length 18 cm
- 660506 **Round Knife**, vertical cutting, 3.5 x 2.5 mm, length 18 cm
- 660509 **Round Knife**, angled 45°, diameter 2 mm, length 18 cm
- 660512 **Elevator**, sharp, curved to right, length 18 cm
- 660515 **Elevator**, sharp, curved to left, length 18 cm
- 660521 **Hook**, 90°, blunt, length 18 cm
- 660540 **Elevator**, double-ended, blunt, graduated, length 20 cm

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Prof. CASTELNUOVO



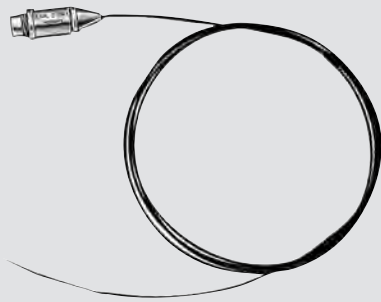
- 748000 **Surgical Handle**, Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15
- 208215 **Blade**, Fig. 15, sterile, package of 100
- 660521 **Hook**, 90°, blunt, length 18 cm
- 660512 **Elevator**, sharp, curved to right, length 18 cm
- 660515 **Elevator**, sharp, curved to left, length 18 cm
- 634840 BOWMAN **Lachrymal Probe**, length 13 cm including:
 Probe, size 0000 – 000
 Probe, size 00 – 0
 Probe, size 1 – 2
- 745900 WILDER **Dilator**, for salivary duct, length 11 cm
- 496 V **Lachrymal Probe**, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

Probe for Diaphanoscopic Localization of the Nasolacrimal Ducts

Dacryocystorhinostomy acc. to SIEGERT/WEERDA

The obstructed nasolacrimal ducts have to be represented intraoperatively for dacryocystorhinostomy. However, intraoperative endonasal localization of the pathologically changed ducts may prove difficult, due to the considerable anatomical variations from one patient to the next. The instruments for representation of the nasolacrimal duct comprise a light source, a light guide and a special optical probe with a distal diameter of 0.5 mm.

For endonasal dacryocystorhinostomy, the sterile distal end of the optical probe is introduced into the lacrimal sac, or up to the point of the blockage, through the upper or lower lacrimal point. The spot of light visible at the end of the light guide “marks” the nasal end of the clear lacrimal duct. It is advisable to briefly turn down the external lights in the operating room at first in order to locate the nasolacrimal duct while the lacrimal sac is still covered by considerable tissue.

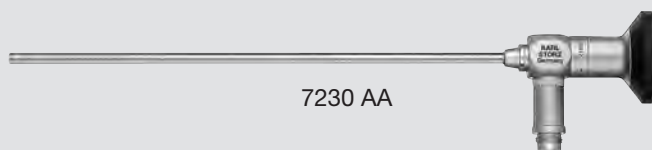


496 V

Lachrymal Probe, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG



7230 AA



7230 AA

HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green



7230 BA

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



479100

COTTLE Elevator, double-ended, semisharp and blunt, graduated, length 20 cm

628001

Sickle Knife, pointed, length 19 cm

628702

Antrum Curette, oblong, small, length 19 cm

660506

Round Knife, vertical cutting, 3.5 x 2.5 mm, length 18 cm

660509

Round Knife, angled 45°, diameter 2 mm, length 18 cm

479100

628001

628702

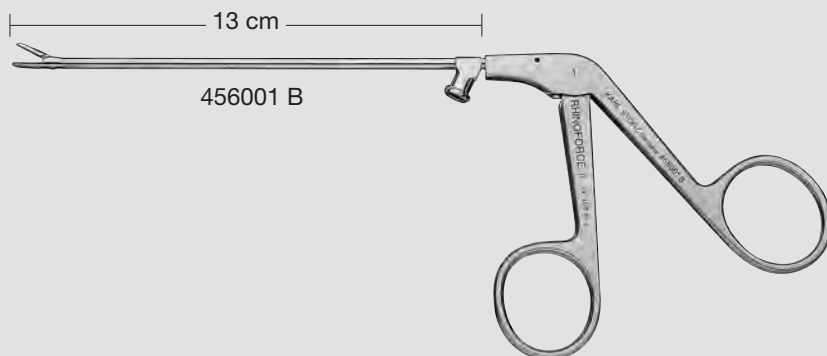
660506

660509

7-01

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG



456001 B

BLAKESLEY RHINOFORCE® II Nasal Forceps, straight, size 1, with cleaning connector, working length 13 cm



456501 B

BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps, 45° upturned, size 1, with cleaning connector, working length 13 cm



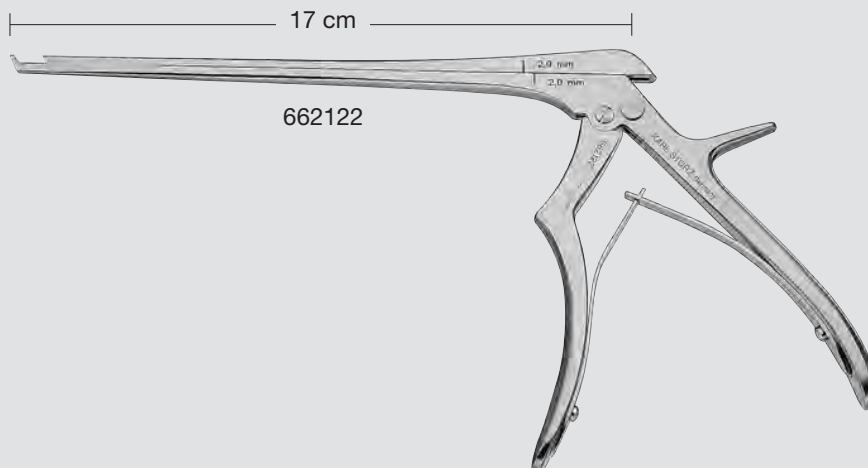
452002 B

MACKAY-GRÜNWALD RHINOFORCE® II Nasal Cutting Forceps, straight, through-cutting, extra delicate, for a smooth cut, 11.5 x 3.5 mm, size 2, with cleaning connector, working length 13 cm



451500 B

GRÜNWALD-HENKE RHINOFORCE® II Nasal Cutting Forceps, 45° upturned, through-cutting, for a smooth cut, BLAKESLEY shape, size 0, width 3 mm, with cleaning connector, working length 13 cm



662122

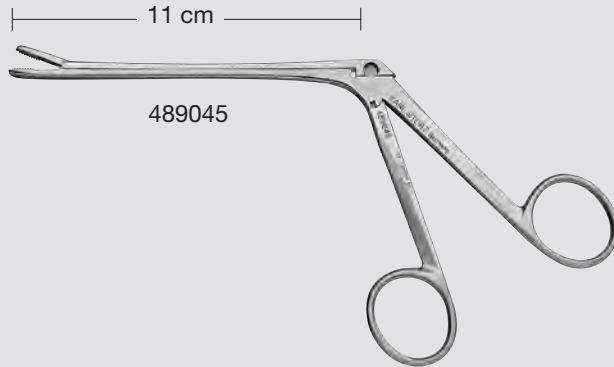


NEW 662122

KERRISON Bone Punch, detachable, rigid, upbiting 40° forward, size 2 mm, working length 17 cm

Instruments for Endonasal Dacryocystorhinostomy

Set recommended by Dr. M. YUNG

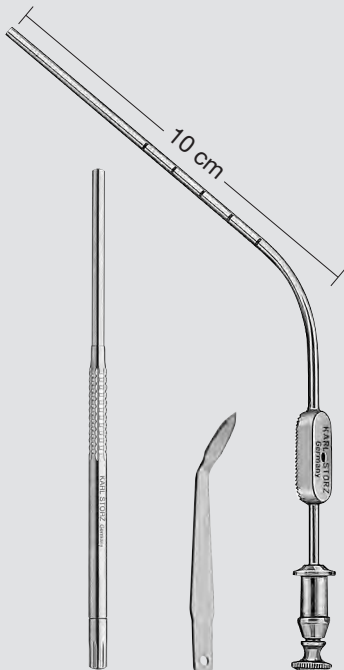


489045

FERRIS-SMITH Nasal Forceps, serrated, working length 11 cm



489045



496550

496770

529307

634840

745900

NEW

496550

Surgical Handle, for miniature blades, round, length 16.5 cm, for Blades 496764 – 65

496770

Miniature Blade, angled 45°, pointed, sterile, width 3 mm, package of 3

529307

FRAZIER Suction Tube, with mandrel and cut-off hole, with distance marking at 5 – 9 cm, 7 Fr., working length 10 cm

634840

BOWMAN Lachrymal Probe, length 13 cm including:

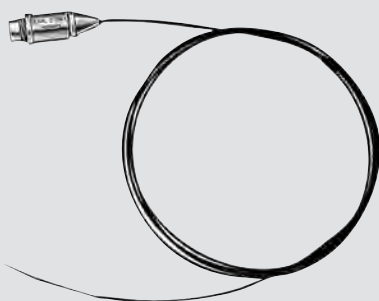
Probe, size 0000 – 000

Probe, size 00 – 0

Probe, size 1 – 2

745900

WILDER Dilator, for salivary duct, length 11 cm

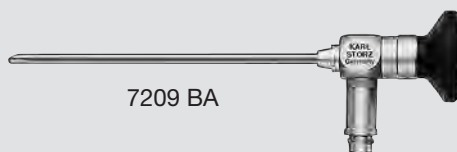


496 V

Lachrymal Probe, for diaphanoscopic localization of the nasolacrimal ducts and fistulae, diameter of distal tip 0.5 mm, sterile, for single use, for use with Fiber Optic Light Cable 495 NL, package of 3

Components/Spare Parts see chapter 16

Additional instruments and units



7209 BA



7209 BA

HOPKINS® Forward-Oblique Telescope 30°, diameter 3 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red



404040
404055



430300

404040 **Nasal Speculum**, with fiber optic light carrier, blade length 40 mm, length 13.5 cm

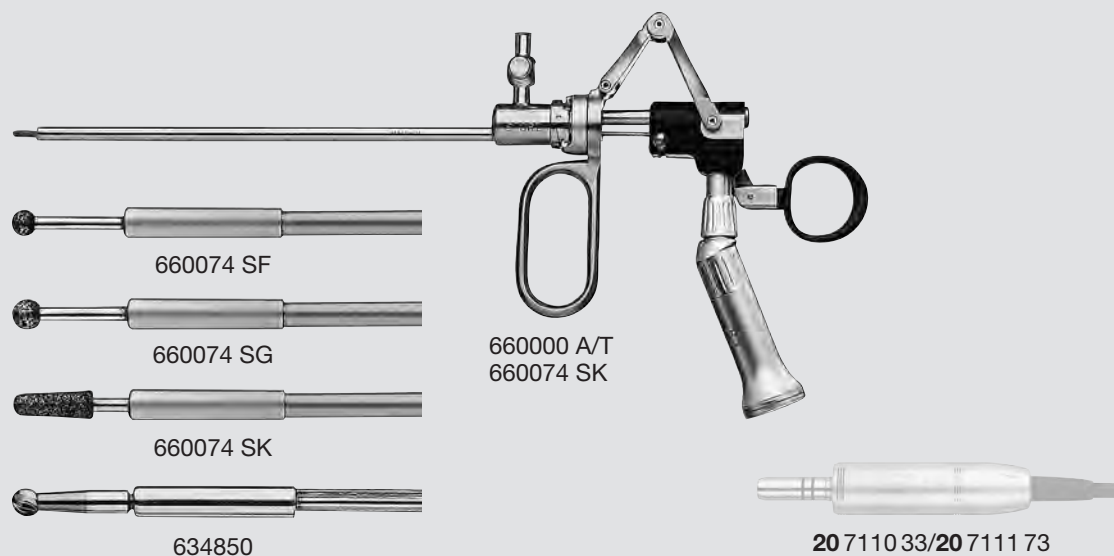
404055 **Nasal Speculum**, with fiber optic light carrier, blade length 55 mm, length 13.5 cm

430300 **LUBET-BARBON Nasal Dressing Forceps**, serrated, working length 10.5 cm

Components/Spare Parts see chapter 16

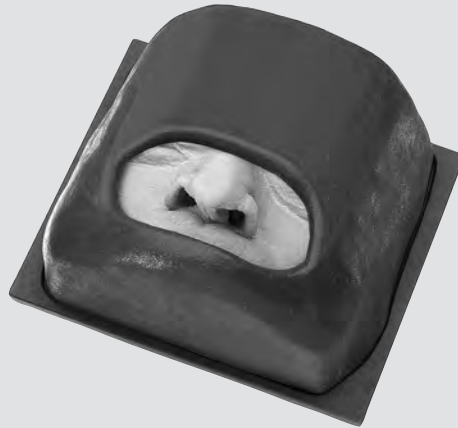
Instruments for Endonasal Dacryocystorhinostomy

Additional instruments and units



- 660000 STAMMBERGER-SACHSE **Intranasal Drill**, for use with EC micro motor including:
Double Ring Sliding Handle, for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece
Guide Sheath, outer diameter 5 mm, with irrigation stopcock
Diamond Abrador, delicate, spherical, diameter 2.5 mm
Diamond Abrador, delicate, spherical, diameter 3 mm
Diamond Abrador, delicate, conical, from diameter 2.5 mm to diameter 3 mm
- 634850 JONES **DCR Cutting Burr**, for endonasal dacryocystorhinostomy, tungsten carbide, diameter 2.7 mm, length 22 cm, for use with Intranasal Drill 660000

For use with Motor Systems see pages 205-212
High Performance EC Micro Motor II 20 7110 33 and Connecting Cable 20 7110 73 see page 209
Components/Spare Parts see chapter 16



- 723128 **Training Model**, for endoscopy of the nose and paranasal sinuses
including:
Section Plane 1: Front Plate
Section Plane 2: Turbinate/Septum
Section Plane 3: Maxillary Sinus
Section Plane 4: Ethmoidal Cells
Section Plane 5: Sphenoidal Sinus
Base Plate
Mask
Case
Documentation Atlas

Components/Spare Parts see chapter 16

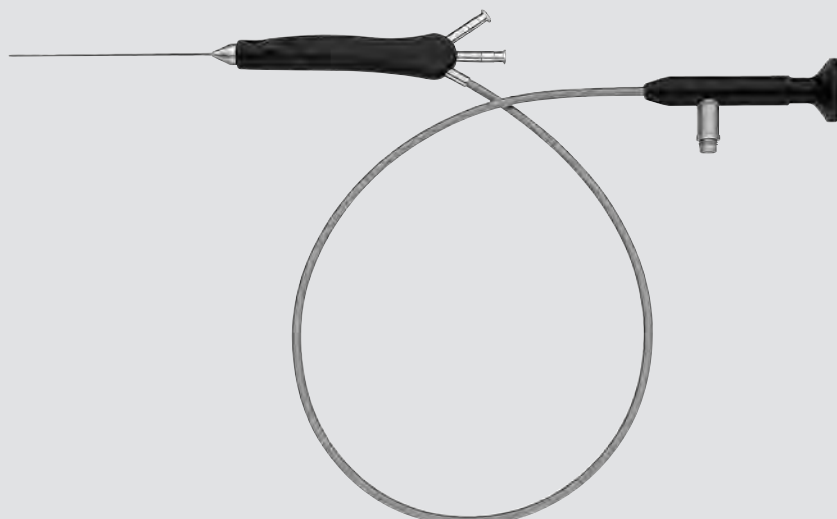


**TELESCOPES AND INSTRUMENTS
FOR SIALENDOSCOPY**

ERLANGEN Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

ALL-IN-ONE Miniature Endoscopes, ERLANGEN model



11573 A

11572 A **Miniature Straight Forward Telescope 0°**, diameter 0.8 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated

11573 A **Miniature Straight Forward Telescope 0°**, diameter 1.1 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, working channel diameter 0.45 mm, irrigation channel diameter 0.25 mm, length 140 cm, remote eyepiece, fiber optic light transmission incorporated

for use with:

- Stone Extractor 11582 M/11573 NP
- Micro Burr 11573 MB
- Guide Wire 745725
- Laser Probe

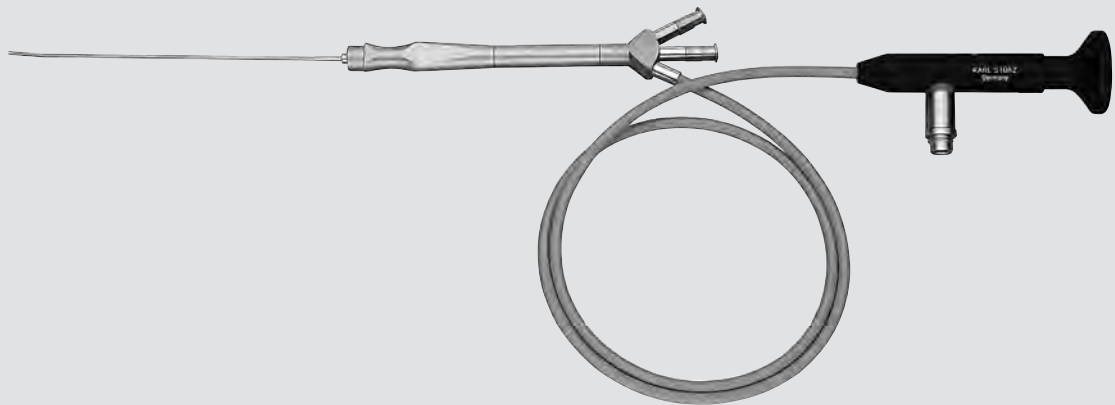
11574 A **Miniature Straight Forward Telescope 0°**, diameter 1.6 mm, working length 10 cm, NiTi, semiflexible, with scale, **autoclavable**, working channel diameter 0.85 mm, irrigation channel diameter 0.25 mm, length 140 cm, with remote eyepiece, fiber optic light transmission incorporated

for use with:

- Stone Extractor 11582 M/11573 NP
- Micro Burr 11574 MB
- Foreign Body Forceps 11574 TJ
- Biopsy Forceps 11574 ZJ
- Guide Wire 745720
- Laser Probe
- Balloon Catheter 11583 BP

Instruments, Sterilization and Storage Trays see pages 326-332

ALL-IN-ONE Miniature Endoscopes



11575 A

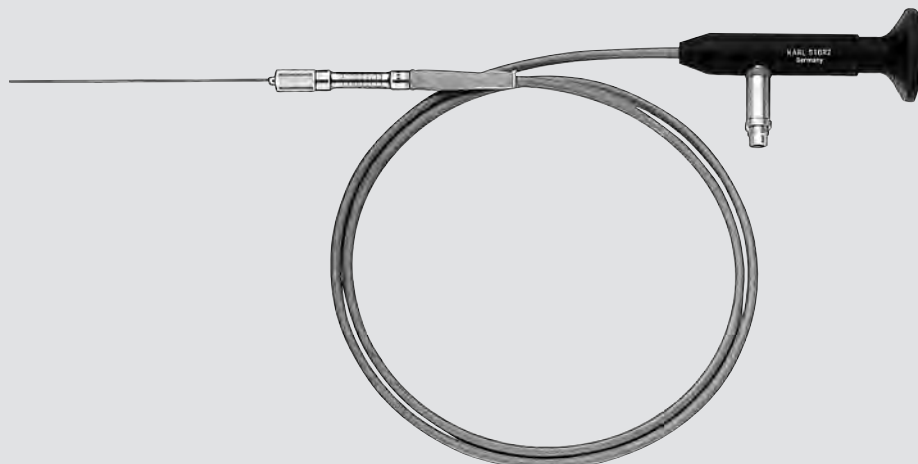
- 11575 A **Miniature Straight Forward Telescope 0°**, diameter 1.3 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, working channel diameter 0.65 mm, irrigation channel diameter 0.25 mm, length 100 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P
for use with:
- Stone Extractor 11575 K/L
 - Guide Wire 745720
 - Laser Probe
- 11581 A **Miniature Straight Forward Telescope 0°**, diameter 0.89 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P
- 11582 A **Miniature Straight Forward Telescope 0°**, diameter 1.1 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, working channel 0.45 mm, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated
for use with:
- Stone Extractor 11582 M/11573 NP
 - Guide Wire 745725
 - Laser Probe
- 11583 A **Miniature Straight Forward Telescope 0°**, diameter 1.6 mm, working length 12 cm, semirigid, **autoclavable**, distal angle 5°, working channel 0.8 mm, irrigation channel 0.2 mm, length 140 cm, remote eyepiece with fiber optic light transmission incorporated, including Protective Tube 11520 P
for use with:
- Stone Extractor 11575 K/L
 - Guide Wire 745720
 - Grasping Forceps 11583 TJ
 - Biopsy Forceps 11583 ZJ
 - Laser Probe
 - Balloon Catheter 11583 BP

Instruments, Sterilization and Storage Trays see pages 326-332

Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

Miniature Endoscopes for Children and Adolescents Modular System

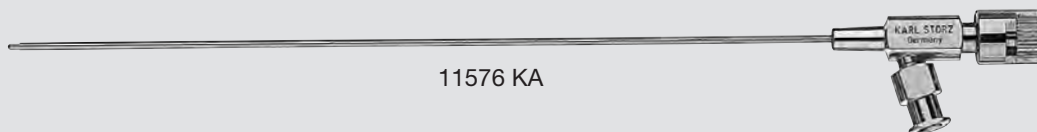


11576 A

11576 A

Miniature Straight Forward Telescope 0°, diameter 0.75 mm, working length 16 cm, semirigid, **autoclavable**, length 145 cm, with remote eyepiece and light connection, LUER-Lock adaptor, fiber optic light transmission incorporated, including Protective Tube 11576 P

Examination Sheath



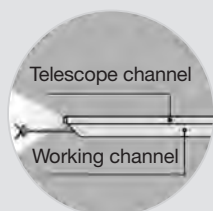
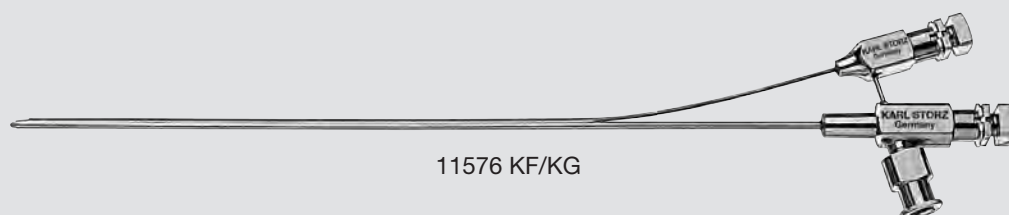
11576 KA

11576 KA

Examination Sheath, diameter 1.1 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11576 A

Miniature Endoscopes for Children and Adolescents Modular System

Operating Sheath

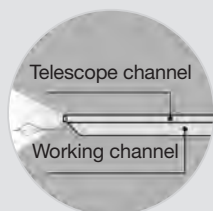


11576 KF

Operating Sheath, oval, diameter 1.1 and 1.3 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Balloon Catheter 11577 BP
- Grasping Forceps 11576 TJ
- Biopsy Forceps 11576 ZJ
- Laser Probe



11576 KG

Operating Sheath, oval, diameter 1.1 and 0.8 mm, working length 16 cm, telescope channel diameter 0.9 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

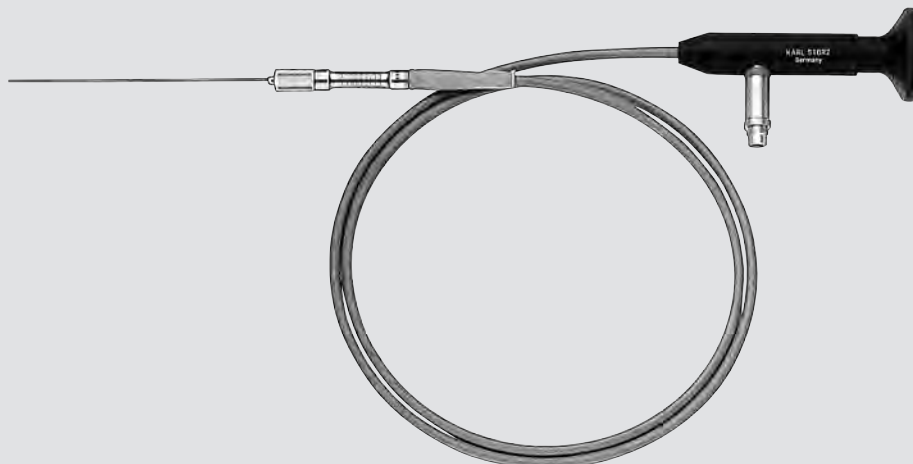
- Miniature Straight Forward Telescope 11576 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

Instruments see pages 326-332

Miniature Endoscopes

for Diagnostic and Therapeutic Sialendoscopy

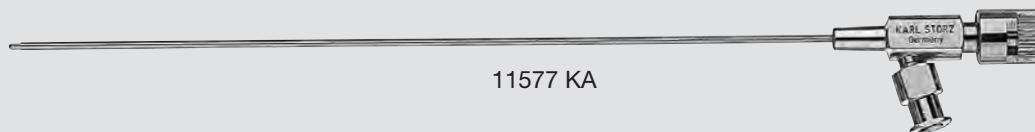
Miniature Endoscopes for Adults Modular System



11577 A

- 11577 A **Miniature Straight Forward Telescope 0°**, diameter 1 mm, working length 16 cm, semirigid, autoclavable, length 145 cm, with remote eyepiece and light connection, LUER-Lock adaptor, fiber optic light transmission incorporated, including Protective Tube 11576 P

Examination Sheath

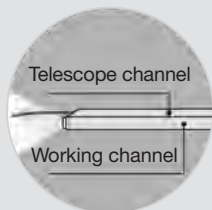
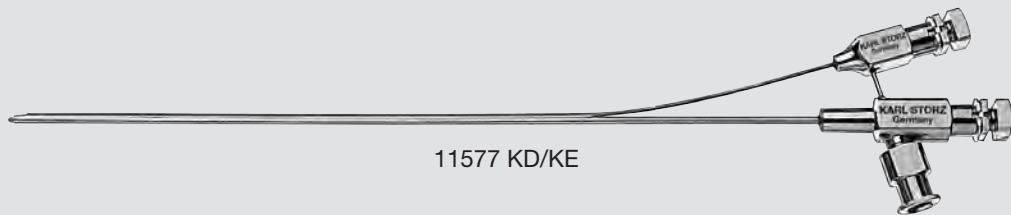


11577 KA

- 11577 KA **Examination Sheath**, diameter 1.3 mm, working length 16 cm, with blunt obturator, with lateral LUER-Lock adaptor for irrigation, for use with Miniature Straight Forward Telescope 11577 A

Miniature Endoscopes for Adults
Modular System

Operating Sheath

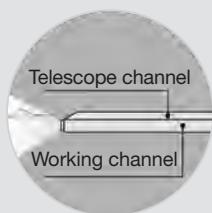


11577 KE

Operating Sheath, oval, diameter 1.3 and 1.3 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 1.15 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11577 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Balloon Catheter 11577 BP
- Grasping Forceps 11576 TJ
- Biopsy Forceps 11576 ZJ
- Laser Probe



11577 KD

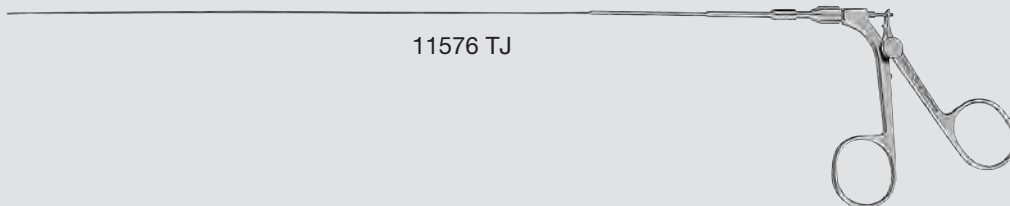
Operating Sheath, oval, diameter 1.3 and 0.8 mm, working length 16 cm, telescope channel diameter 1.15 mm, working channel diameter 0.65 mm, with 2 obturators, with lateral LUER-Lock adaptor for irrigation

for use with:

- Miniature Straight Forward Telescope 11577 A
- Stone Extractor 11575 K/L
- Guide Wire 745720
- Laser Probe

Forceps

11576 TJ



11576 TJ

Foreign Body Forceps, flexible, double action jaws, diameter 1 mm, working length 19 cm, for use with Operating Sheaths 11576 KF and 11577 KE



11576 ZJ

Biopsy Forceps, flexible, double action jaws, diameter 1 mm, working length 19 cm, for use with Operating Sheaths 11576 KF and 11577 KE



11583 TJ

Foreign Body Forceps, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A



11583 ZJ

Biopsy Forceps, flexible, double action jaws, diameter 0.8 mm, working length 26.5 cm, for use with Miniature Straight Forward Telescope 11583 A

11574 TJ



11574 TJ

Foreign Body Forceps, flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A



11574 ZJ

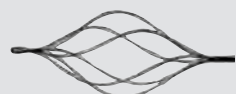
Biopsy Forceps, flexible, double action jaws, diameter 0.8 mm, working length 30 cm, for use with Miniature Straight Forward Telescopes 11574 A and 11583 A

Stone Extractors, Balloon Catheters, Guide Wires, Burrs



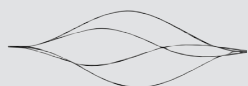
11575 K

Stone Extractor, diameter 0.6 mm, basket with 3 wires, sterile, for single use



11575 L

Stone Extractor, diameter 0.6 mm, basket with 6 wires, sterile, for single use



11582 M

Stone Extractor, diameter 0.4 mm, basket with 4 wires, sterile, for single use



NEW 11573 NP

Front-loading Stone Extractor, without handle, diameter 0.4 mm, length 35 cm, basket with 4 wires, sterile, for single use, package of 10



11577 BP

Balloon Catheter, diameter 0.9 mm, sterile, for single use, package of 10, for use with Operating Sheaths 11576 KF, 11577 B and 11577 KE



NEW 11583 BP

Balloon Catheter, diameter 0.7 mm, sterile, for single use, package of 10, for use with Telescopes 11574 A and 11583 A

745720

Guide Wire, diameter 0.6 mm, sterile, for single use, package of 10, for use with Bougies 745710 – 745713

745725

Guide Wire, diameter 0.4 mm, sterile, for single use, package of 10, for use with Bougies 745808 – 745713



NEW 11573 T

Stone Extractor, diameter 0.6 mm, basket with 4 wires, tipless, handle for fixation to endoscope



NEW 11573 M

Stone Extractor, diameter 0.4 mm, basket with 4 wires, handle for fixation to endoscope



NEW 11573 MB

Micro Burr for Salivary Stones, diameter 0.38 mm, for use with Telescopes 11573 A and 11582 A



NEW 11574 MB

Micro Burr for Salivary Stones, diameter 0.8 mm, for use with Telescopes 11574 A and 11583 A

Forceps and Angled Scissors

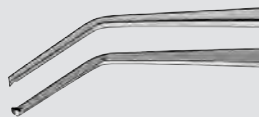


745715



745715

Dressing Forceps, angled,
length 15 cm



745716

Tissue Forceps, angled,
with 1 x 2 teeth, length 15 cm



745717

745717

Angled Scissors for Salivary Gland,
with bulb, length 14 cm

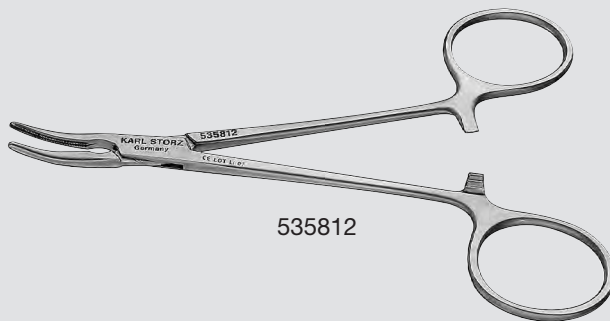
745719

METZENBAUM Scissors, for sialolithotomy,
curved, sharp/sharp, length 18 cm

Instruments

for Sialendoscopy

Artery Forceps



535812

535812

DE BAKEY "Mosquito" Artery Forceps,
atraumatic, curved, length 12 cm

Mouth Gag



58195



58194

MOLT Mouth Gag, large model,
length 14 cm

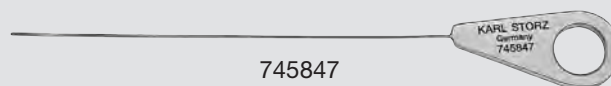


58195

DEHNHARDT Mouth Gag, length 12.5 cm

Dilation Instruments

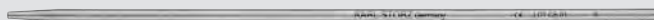
Salivary Duct Probes



745847

745847	size 0000	745853	size 3
745848	size 000	745854	size 4
745849	size 00	745855	size 5
745850	size 0	745856	size 6
745851	size 1	745857	size 7
745852	size 2	745858	size 8

Bougies



745710

745708	Bougie , diameter 1 mm, for use with Guide Wire 745725
745709	Same , diameter 1.5 mm
745710	Bougie , diameter 2 mm, for use with Guide Wire 745720 and 745725
745711	Same , diameter 2.5 mm
745712	Same , diameter 3 mm
745713	Same , diameter 3.5 mm

Dilators



745910



745920

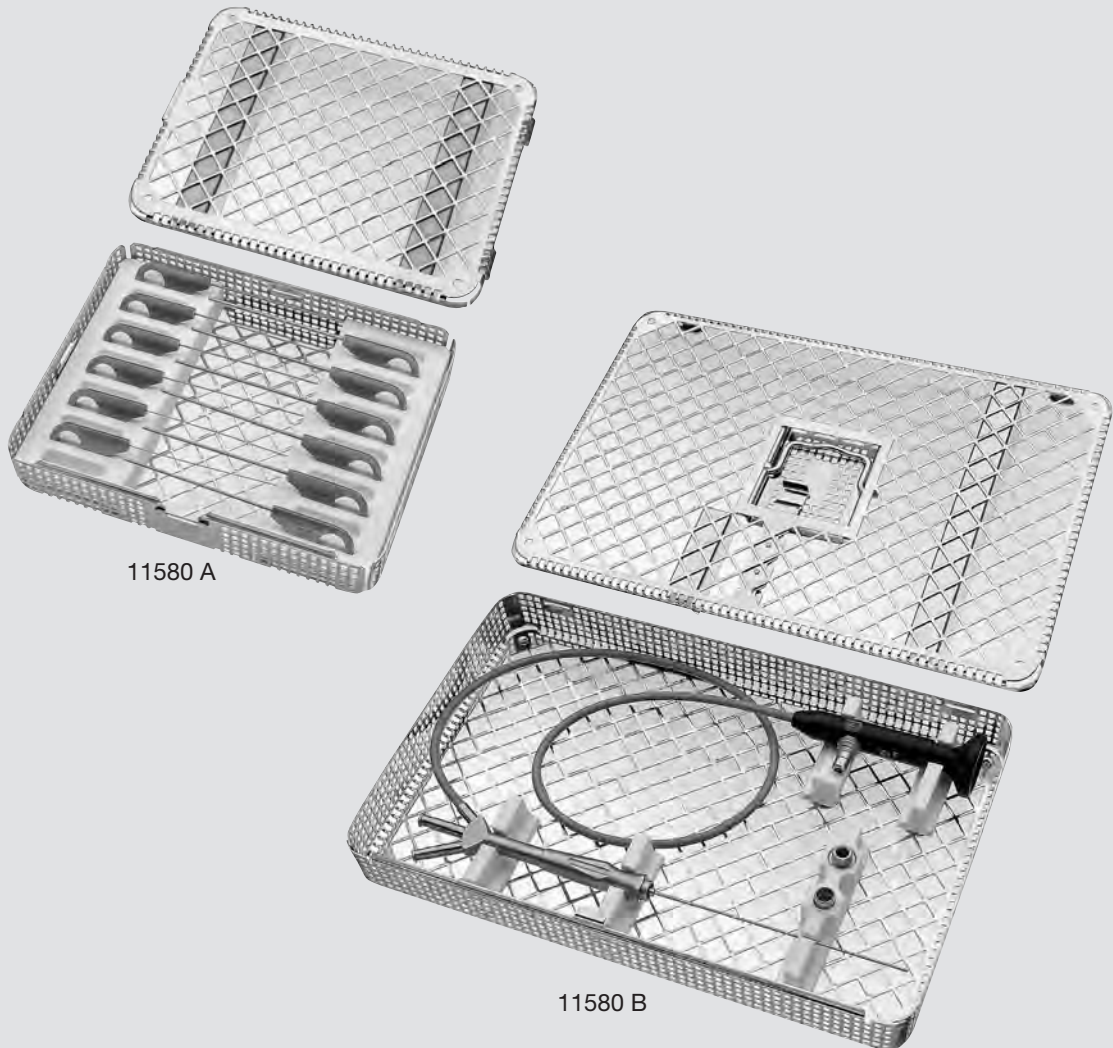


745900

745905	Dilator , for salivary duct (Wharton duct), very pointed
745910	Dilator , for salivary duct, length 14 cm
745920	Dilator , for salivary duct, size 1, diameter 0.5 – 0.8 mm, length 11.5 cm
745921	Same , size 2, diameter 0.7 – 1 mm
745922	Same , size 3, diameter 0.9 – 1.2 mm
745923	Same , size 4, diameter 1 – 1.6 mm
745924	Same , size 5, diameter 1.3 – 1.8 mm
745900	WILDER Dilator , for salivary duct, length 11 cm

Accessories

Metal Trays



11580 A

11580 B

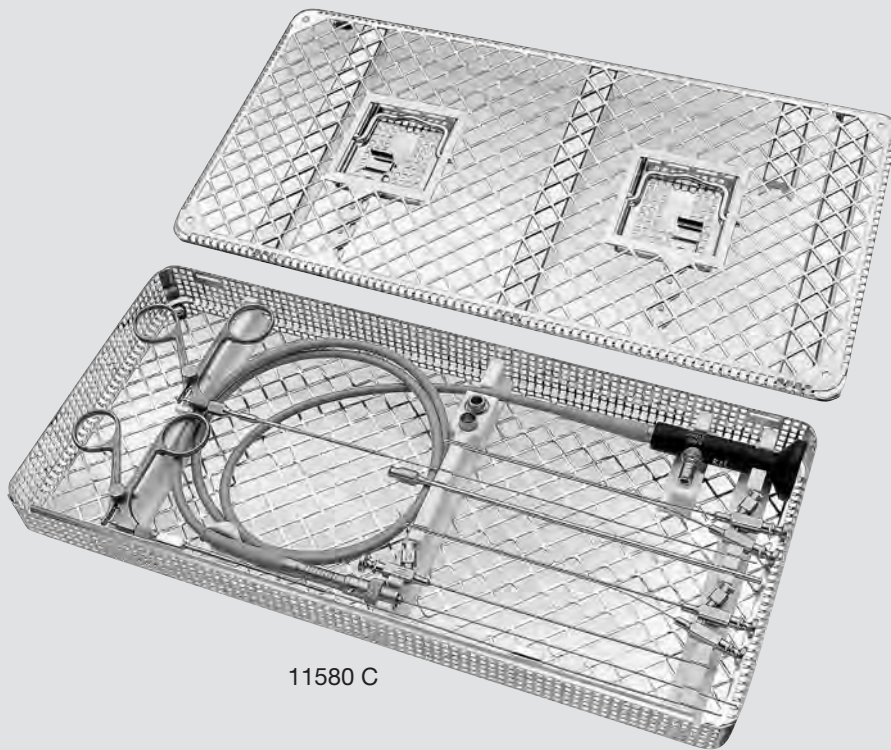
11580 A **Metal Tray**, for sterilization and storage of Salivary Duct Probes 745847 – 745858 and Dilator 745910, perforated, lid with silicone bridges, external dimensions (w x d x h): 178 x 135 x 37 mm

11580 B **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11575 A, 11581 A, 11582 A, 11583 A, 11578 A or 5800, perforated, lid with silicone bridges, with port for irrigation connector, external dimensions (w x d x h): 275 x 178 x 35 mm

Please note: The instruments displayed are not included in the metal trays.

Accessories

Metal Trays



11580 C

- 11580 C **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11576 A or 11577 A and two Micro Burrs 11573 MB and 11574 MB, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm
- 11580 D **Metal Tray**, for sterilization and storage of one Miniature Straight Forward Telescope 11572 A – 11574 A, perforated, lid with silicone bridges, with port for irrigation adaptor, external dimensions (w x d x h): 275 x 175 x 37 mm
- 11580 J **Metal Tray**, for sterilization and storage of two Foreign Body Forceps 11574 TJ and 11574 ZJ as well as two Burrs 11573 MB and 11574 MB for sialendoscopy, perforated, lid with silicone bridges, external dimensions (w x d x h): 373 x 178 x 35 mm

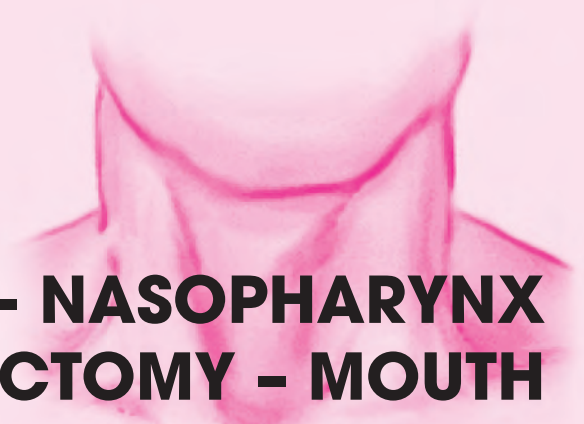
Cleaning

- 27651 K1 **Cleaning Brush**, round, flexible, for working channel diameter 0.4 – 0.6 mm, length 40 cm, for single use, package of 10
- 27651 K2 **Same**, for working channel diameter 0.6 – 0.8 mm
- 27651 K3 **Same**, for working channel diameter 0.8 – 1.4 mm
- 27651 K5 **Same**, for working channel diameter 0.25 – 0.4 mm

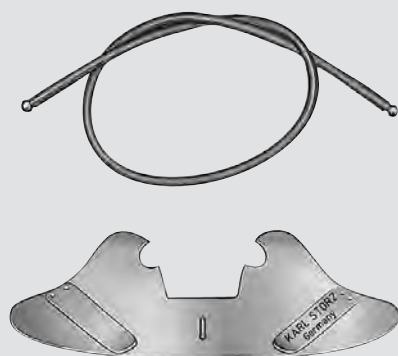
Lithotripsy of Salivary Stones

Extracorporeal shock wave lithotripsy for salivary stones with STORZ MINILITH SL 1
see catalog Oral and Maxillofacial Surgery

Please note: The instruments displayed are not included in the metal trays.



ADENOIDECTOMY - NASOPHARYNX
TONSILLECTOMY - MOUTH
TRACHEOSTOMY - LARYNX



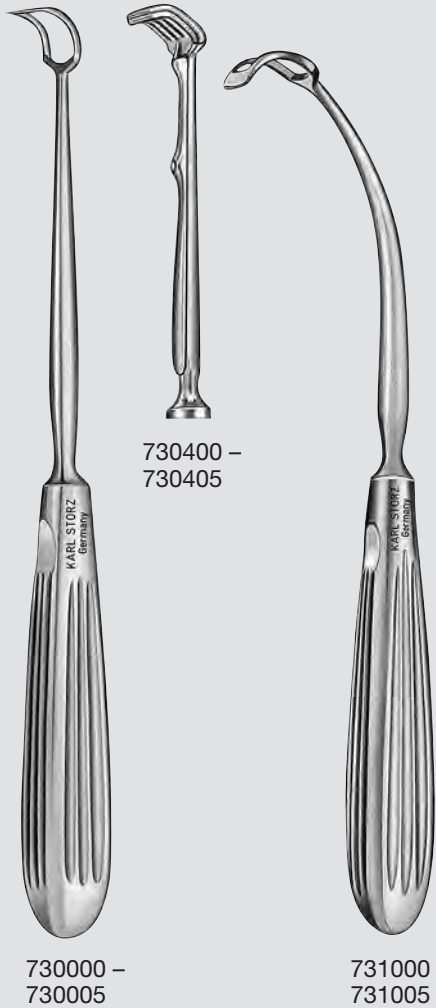
725000



746700

725000 HOPMANN **Uvula Retractor**, length 12.5 cm

746700 NAGER **Pillar Retractor**, length 21 cm



size 0



size 1



size 2



size 3



size 4



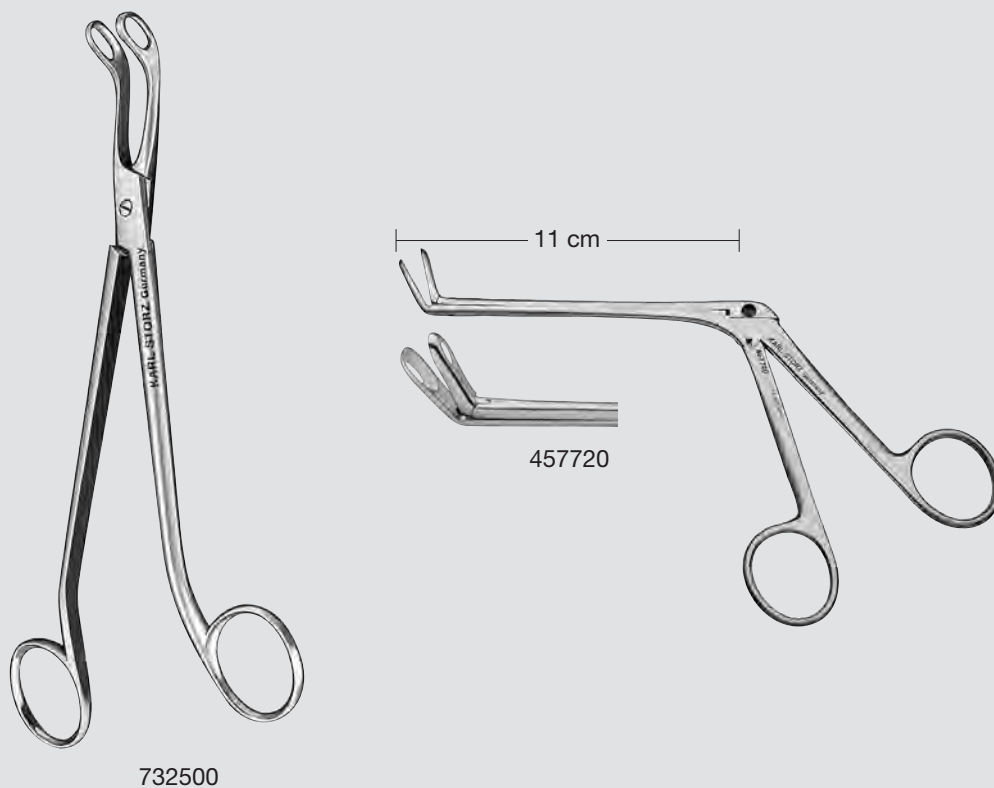
size 5



- 730000 BECKMANN **Adenoid Curette**, straight, size 0, length 22 cm
- 730001 **Same**, size 1
- 730002 **Same**, size 2
- 730003 **Same**, size 3
- 730004 **Same**, size 4
- 730005 **Same**, size 5

- 730400 BECKMANN **Adenoid Curette**, with cage, straight, size 0, length 22 cm
- 730401 **Same**, size 1
- 730402 **Same**, size 2
- 730403 **Same**, size 3
- 730404 **Same**, size 4
- 730405 **Same**, size 5

- 731000 NEGUS **Adenoid Curette**, curved, size 0, length 21 cm
- 731001 **Same**, size 1
- 731002 **Same**, size 2
- 731003 **Same**, size 3
- 731004 **Same**, size 4
- 731005 **Same**, size 5



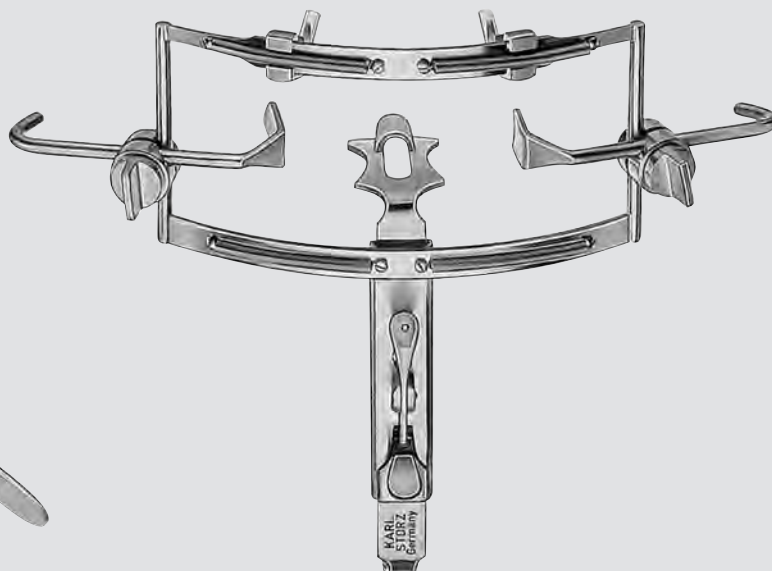
- 457720 BLAKESLEY-WIGAND **Nasal Forceps**, 60° upturned, long jaws 6 x 20 mm, rounded tips, working length 11 cm
- 732500 JURACZ **Adenoid Forceps**, sharp, length 19 cm



- 740000 **BRÜNINGS Tongue Depressor**, length 19 cm
- 740014 **Tongue Depressor**, width 20 x 25 mm, length 17.5 cm
- 740200 **FRENZEL Tongue Depressor**, length 16.5 cm
- 740500 **MORITZ-SCHMIDT Tongue Depressor**, length 19 cm
- 740701 **Tongue Depressor**, with solid handle,
width 88 x 25 mm, length 15 cm
- 740700 **HARTMANN Tongue Depressor**, length 17 cm
- 740800 **HARTMANN Tongue Depressor**, for children, length 16 cm



742909 – 742913



743500

- 742909 JENNINGS **Mouth Gag**, small, length 9 cm
- 742911 **Same**, medium, standard size, length 11 cm
- 742913 **Same**, large, length 13 cm

- 743500 DINGMANN **Mouth Gag**, complete including:
 - Tongue Depressor**, size 1, 55 x 25 mm
 - Tongue Depressor**, size 2, 60 x 27 mm
 - Tongue Depressor**, size 3, 70 x 30 mm
 - 2x **Cheek Retractor**, adjustable
 - 2x **Screw Connection**, complete
 - 2x **Tooth Hook**, movable

3-994

Components/Spare Parts see chapter 16

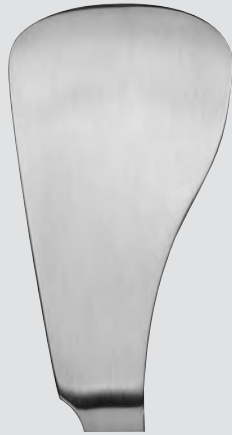
DAVIS-MEYER Tongue Blades



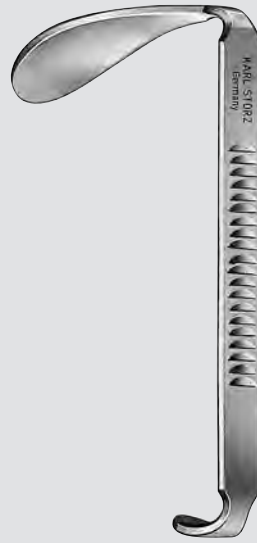
743910	DAVIS-MEYER Tongue Blade , with anesthetic tube, size 1, 28 x 68 mm
743915	Same , size 1½, 29 x 73 mm
743920	Same , size 2, 30 x 76 mm
743925	Same , size 2½, 31 x 83 mm
743930	Same , size 3, 32 x 88 mm
743935	Same , size 3½, 33 x 98 mm
743940	Same , size 4, 34 x 108 mm

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy

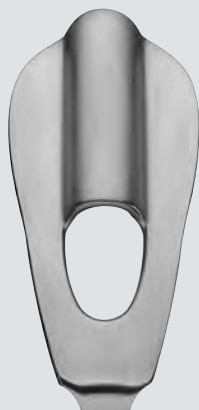


744101 –
744104

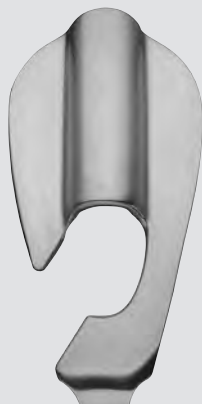


744101 –
744104

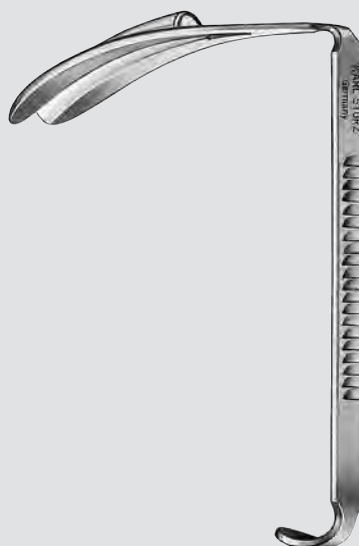
- 744101 **HERBERHOLD Tongue Blade**, with asymmetric recess, size 1, 29 x 65 mm
- 744102 **Same**, size 2, 33 x 73 mm
- 744103 **Same**, size 3, 38 x 83 mm
- 744104 **Same**, size 4, 41 x 98 mm



744200 –
744205

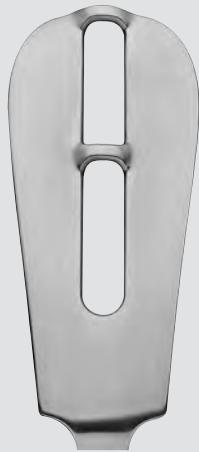


744251 –
744253



744200 –
744205

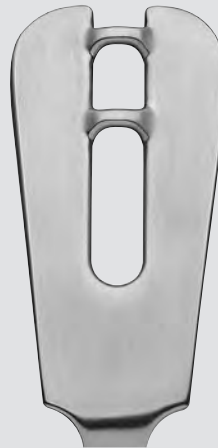
- | | | |
|------------|----------|--|
| NEW | 744200 | RUSSEL-DAVIS Tongue Blade , with central groove, size 0, 25 x 60 mm |
| | 744201 | Same , size 1, 30 x 70 mm |
| | 744202 | Same , size 2, 34 x 80 mm |
| | 744203 | Same , size 3, 39 x 84 mm |
| | 744204 | Same , size 4, 42 x 98 mm |
| | 744205 | Same , size 5, 47 x 105 mm |
| | 744201 A | RUSSEL-DAVIS Tongue Blade , with central groove, narrow blade, size 1, 19 x 62 mm |
| | 744202 A | Same , size 2, 22 x 67 mm |
| | 744203 A | Same , size 3, 25 x 75 mm |
| | 744204 A | Same , size 4, 27 x 83 mm |
| | 744205 A | Same , size 5, 34 x 90 mm |
| NEW | 744251 | Tongue Blade , with central groove and lateral opening, size 1, 30 x 70 mm |
| NEW | 744252 | Same , size 2, 34 x 80 mm |
| NEW | 744253 | Same , size 3, 39 x 84 mm |



744301 –
744305



744301 –
744305



744302 H –
744303 H



744302 H –
744303 H

- 744301 **Tongue Blade, WÜRZBURG model,** slotted, size 1, 28 x 69 mm
 744302 **Same,** size 2, 32 x 77 mm
 744303 **Same,** size 3, 34 x 85 mm
 744304 **Same,** size 4, 37 x 98 mm
 744305 **Same,** size 5, 38 x 105 mm

- 744302 H **HORNBERGER Tongue Blade,** slotted, blade size 32 x 70 mm
 744303 H **Same,** blade size 34 x 78 mm



744402 –
744405



744402 –
744405

- 744402 RING **Tongue Blade**, size 2, 25 x 61 mm
- 744403 **Same**, size 3, 28 x 74 mm
- 744404 **Same**, size 4, 34 x 88 mm
- 744405 **Same**, size 5, 37 x 100 mm

Mouth – Tonsillectomy

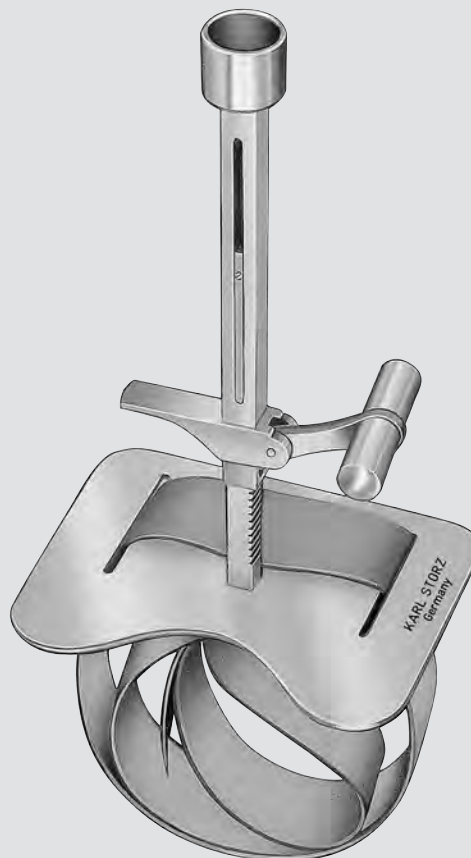


- 744500 DAVIS-MEYER **Mouth Gag**, standard model, with sliding Tooth Hook 744501, for use with Tongue Blades 743910 – 744405
- 744503 **Palate Support Blade**, for toothless patients, for use with Mouth Gags 744500, 744510
- 744510 DAVIS-MEYER **Mouth Gag**, special model, reverse opening, with 2 movable Tooth Hooks 744501, for use with Tongue Blades 743910 – 744505

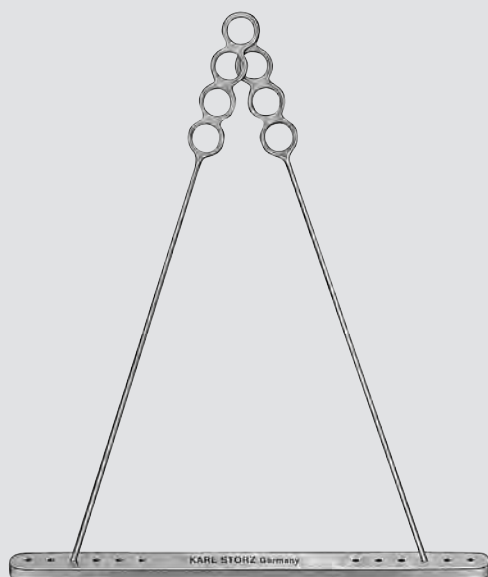
Components/Spare Parts see chapter 16



744600



744800



745200

744600

McIVOR Mouth Gag, with removable bow for replacement of rubber tube, for use with Tongue Blades 743910 – 744405

744610

McIVOR Mouth Gag, with small bow for children, with removable bow for replacement of rubber tube, width 80 mm, height 45 mm, length 15 cm, for use with Tongue Blades 743910 – 744405

744800

NEGUS Chest Support, with webbing strap, for adults, rod 14 cm, for use with Tongue Blades 743910 – 744405 and Mouth Gags 744500 – 744600

745200

DRAFFIN Suspension Apparatus Bipod, for use with Tongue Blades 743910 – 744405 and Mouth Gags 743500, 744500 – 744600

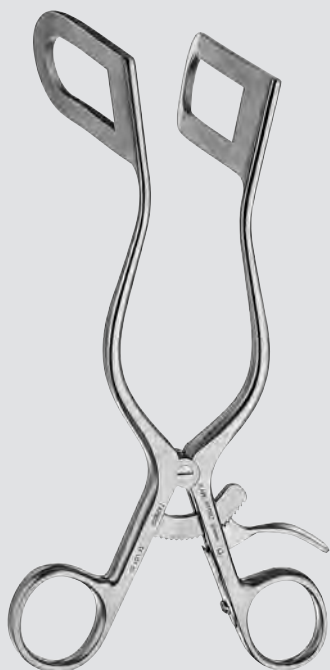
including:

2x **Rod**, with 4 rings

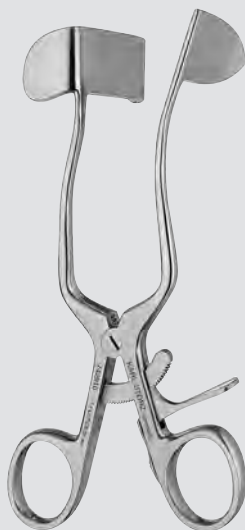
Base Plate

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy



742900



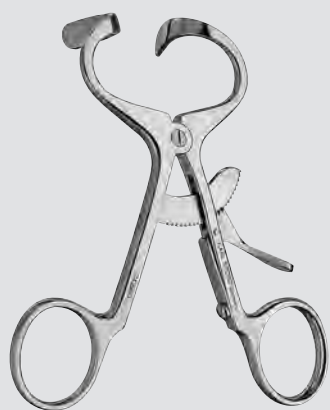
742910



742920

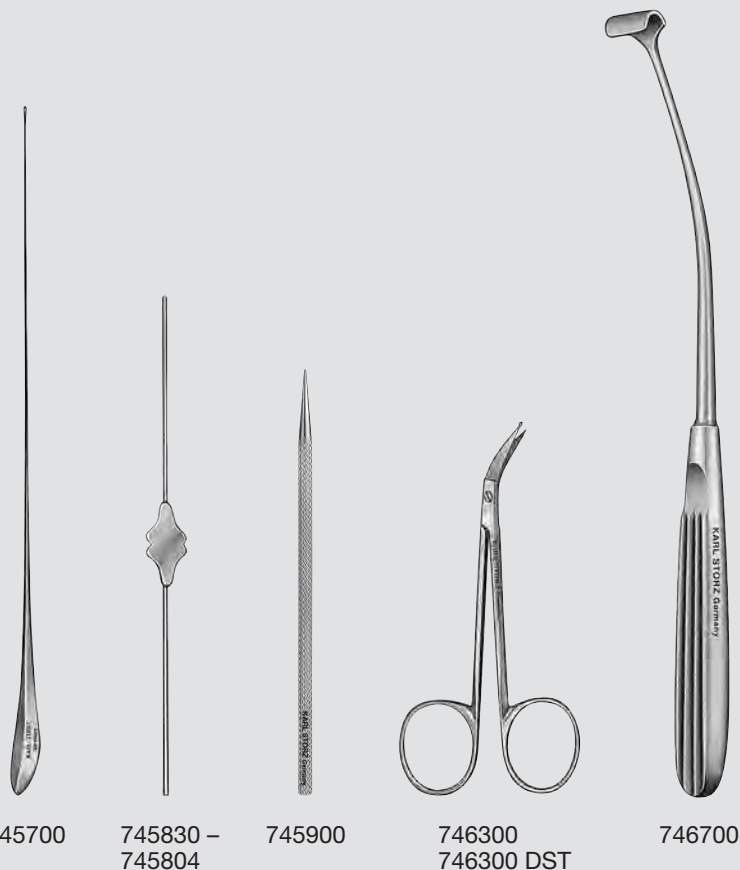


742950



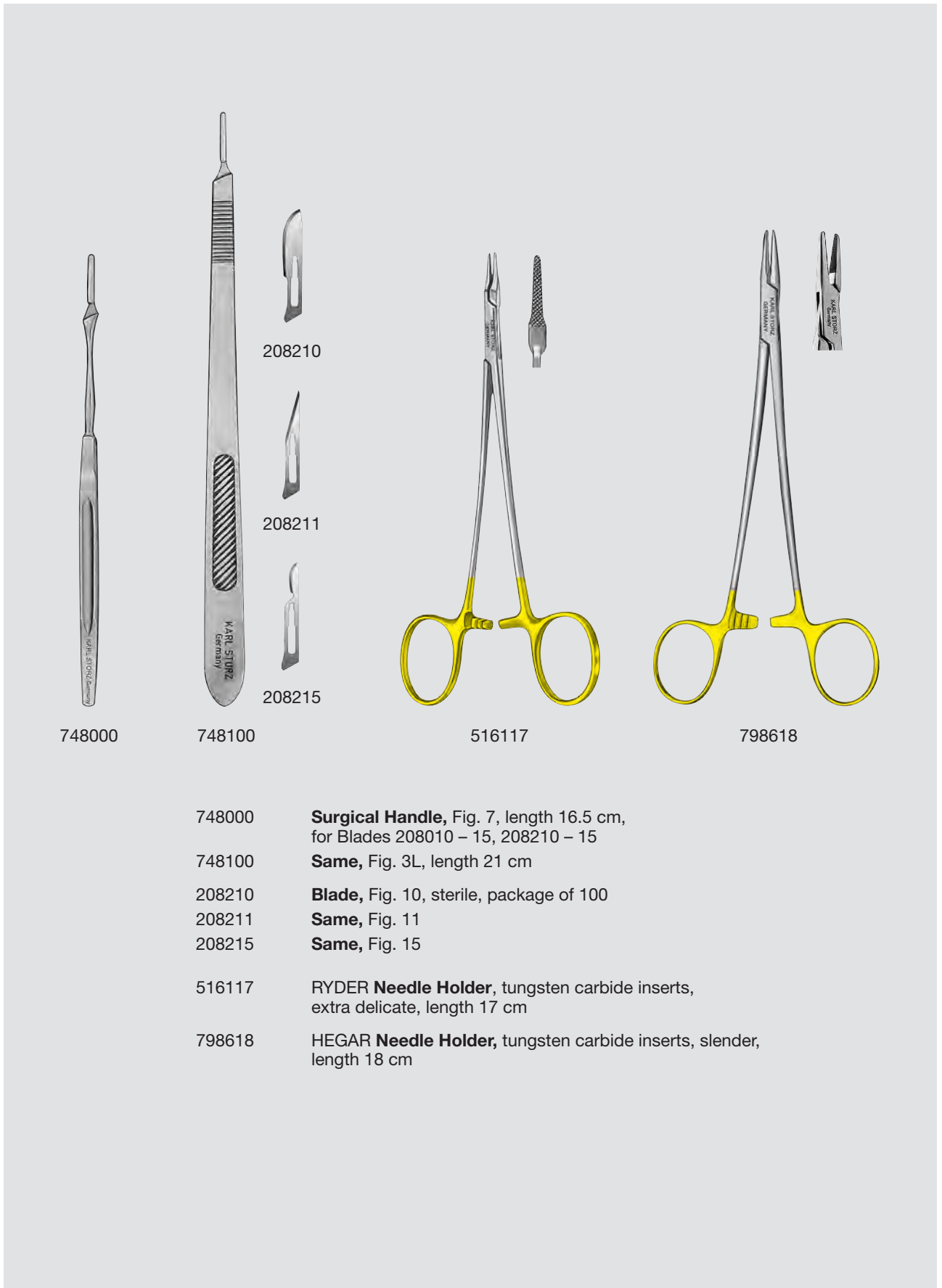
742960

- 742900 **Mouth Gag**, large fenestrated blades, length 17 cm
- 742910 **HARTL Mouth Gag**, right blade with U-shaped curve, length 13 cm
- 742920 **HARTL Mouth Gag**, left blade with U-shaped curve, length 13 cm
- 742950 **DOYEN-MOLT Mouth Gag**, length 14 cm
- 742960 **DOYEN-MOLT Mouth Gag**, length 10.5 cm



- 745700 SEIFFERT **Probe, for salivary duct**, silver, extra delicate, diameter 0.5 mm, length 18 cm
- 745830 BOWMAN **Probe, for salivary duct**, size 0000 – 000, diameter 0.5 and 0.6 mm, length 13 cm
- 745800 **Same**, size 00 – 0, diameter 0.7 and 0.8 mm
- 745802 **Same**, size 1 – 2, diameter 0.9 and 1.1 mm
- 745804 **Same**, size 3 – 4, diameter 1.3 and 1.4 mm
- 745900 WILDER **Dilator**, for salivary duct, length 11 cm
- 746300 **Scissors for Salivary Duct**, delicate, with ball end, length 10 cm
- 746300 DST **Same**, with titanium nitride coating, color code: copper
- 746700 NAGER **Pillar Retractor**, length 21 cm

Mouth – Tonsillectomy



748000

748100

208210

208211

208215

516117

798618

748000 **Surgical Handle**, Fig. 7, length 16.5 cm,
for Blades 208010 – 15, 208210 – 15

748100 **Same**, Fig. 3L, length 21 cm

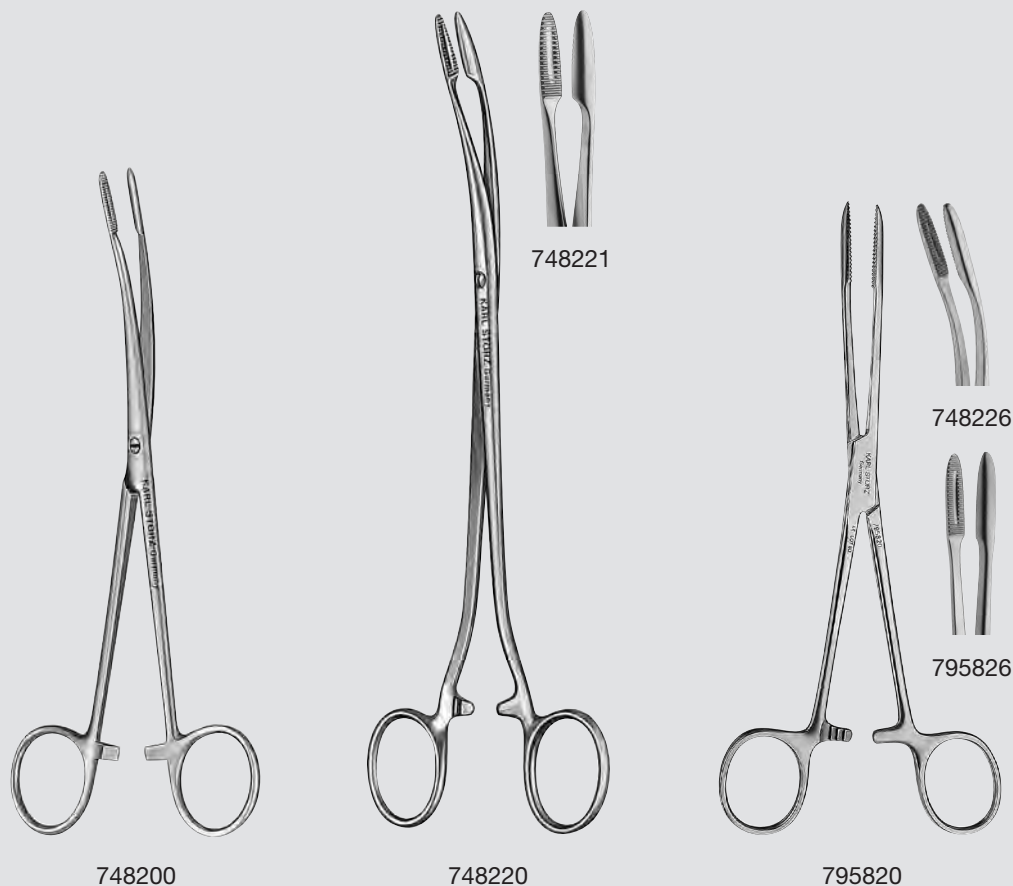
208210 **Blade**, Fig. 10, sterile, package of 100

208211 **Same**, Fig. 11

208215 **Same**, Fig. 15

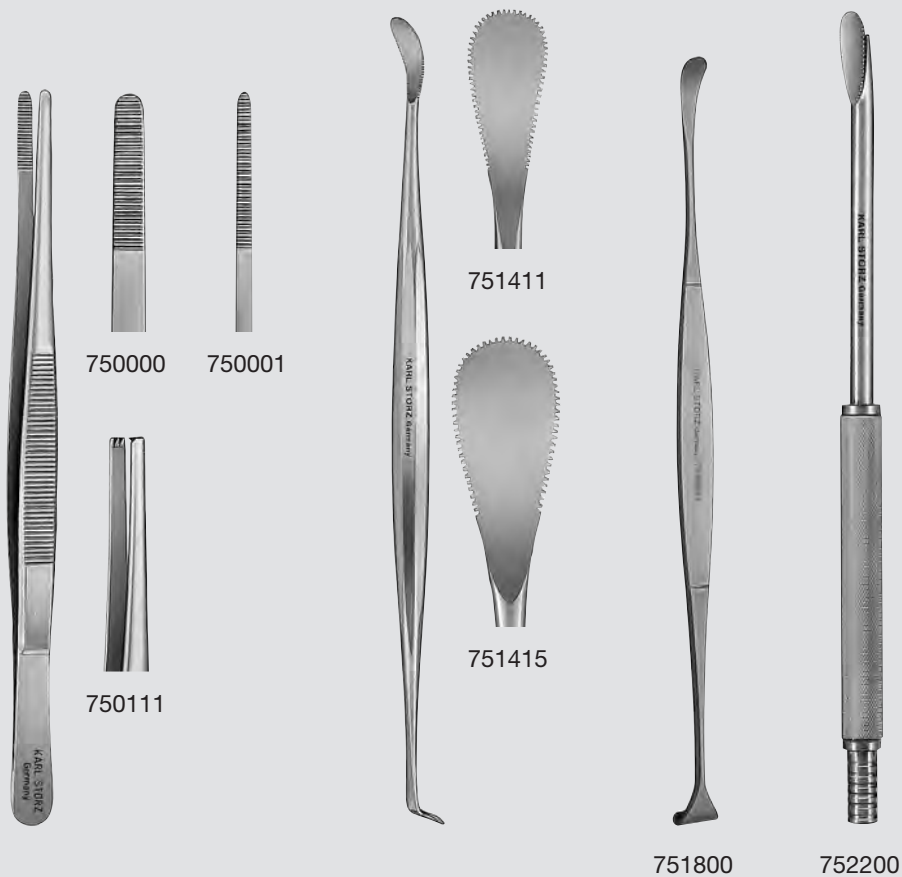
516117 **RYDER Needle Holder**, tungsten carbide inserts,
extra delicate, length 17 cm




798618 **HEGAR Needle Holder**, tungsten carbide inserts, slender,
length 18 cm



- 748200 **Dressing and Sponge Holding Forceps**, slim, curved, with ratchet, length 19 cm
- 748220 **DUPLAY Dressing and Sponge Holding Forceps**, curved, with ratchet, length 21 cm
- 748221 **Same**, straight
- 748226 **MAIER Dressing and Sponge Holding Forceps**, curved, with ratchet, length 26 cm
- 795820 **GROSS Dressing and Sponge Holding Forceps**, straight, with ratchet, length 20 cm
- 795826 **MAIER Dressing and Sponge Holding Forceps**, straight, with ratchet, length 26.5 cm

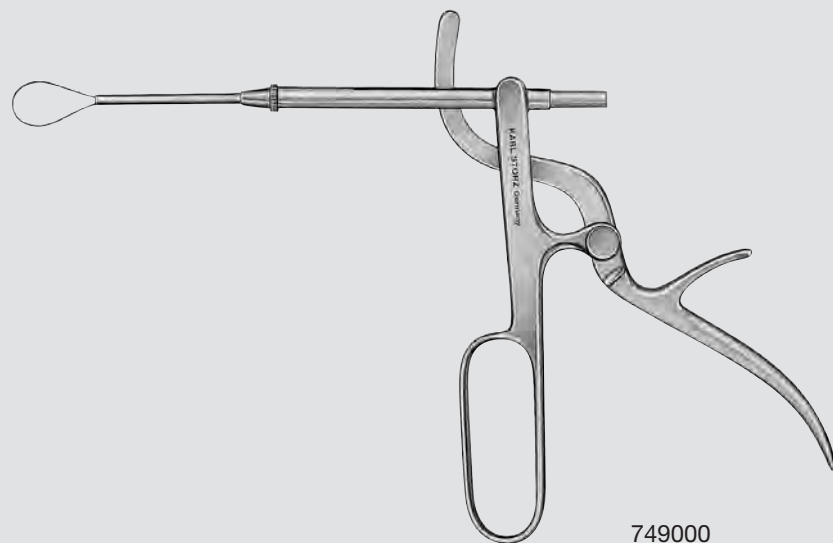
Mouth – Tonsillectomy



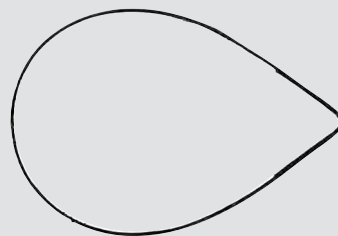
- 750000 **Forceps**, serrated, width 4 mm, length 20 cm
- 750001 **Same**, width 1.8 mm
-  750111 **Tissue Forceps**, 1 x 2 teeth, width 2 mm, length 20 cm
-  750112 **Same**, width 3.5 mm
-  750123 **Same**, 2 x 3 teeth, width 4.5 mm
- 751411 HENKE **Elevator**, width 11.5 mm, length 23.5 cm
(standard size)
- 751415 HENKE **Elevator**, width 15 mm, length 24 cm
- 751800 HURD **Dissector and Pillar Retractor**, width 9 mm,
length 22.5 cm
- 752200 STIERLEN **Suction Dissector**, width 13.5 mm,
length 24 cm

Mouth – Tonsillectomy

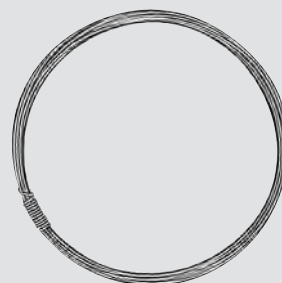
15 cm



749000



754200



754300

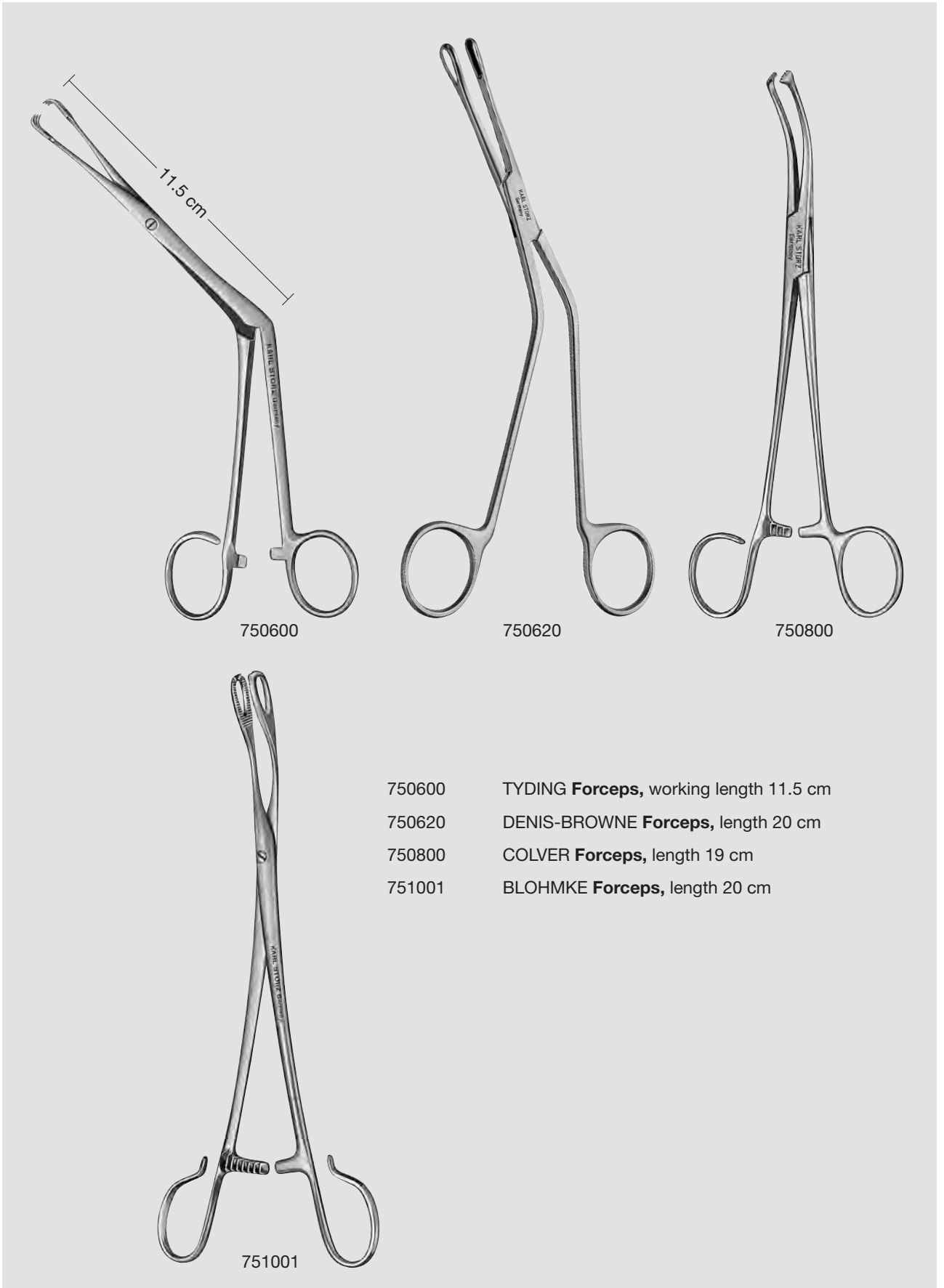


754350

- 749000 **TYDING Tonsil Snare**, working length 15 cm, for use with Wire Snare Loops 754200 or Snare Wire 754300
- 754200 **Wire Snare Loop**, stainless steel, package of 100
- 754300 **Snare Wire**, diameter 0.4 mm, 10 m roll, for use with 749000
- 754350 **Wire Cutting Scissors**, serrated, length 12.5 cm

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy



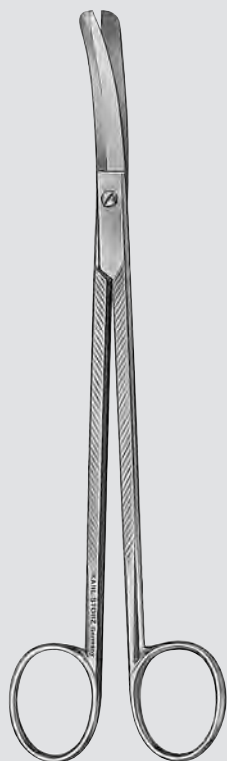
750600

750620

750800

- 750600 TYDING **Forceps**, working length 11.5 cm
- 750620 DENIS-BROWNE **Forceps**, length 20 cm
- 750800 COLVER **Forceps**, length 19 cm
- 751001 BLOHMKE **Forceps**, length 20 cm

751001



752500

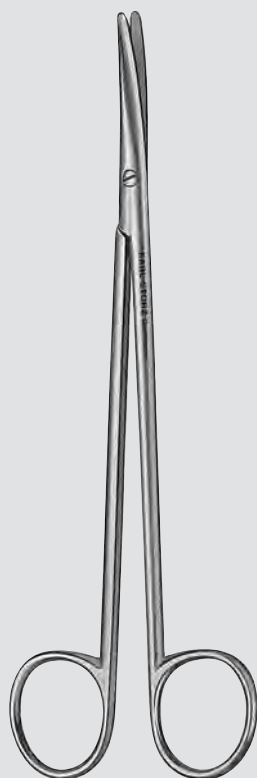


752700

752800



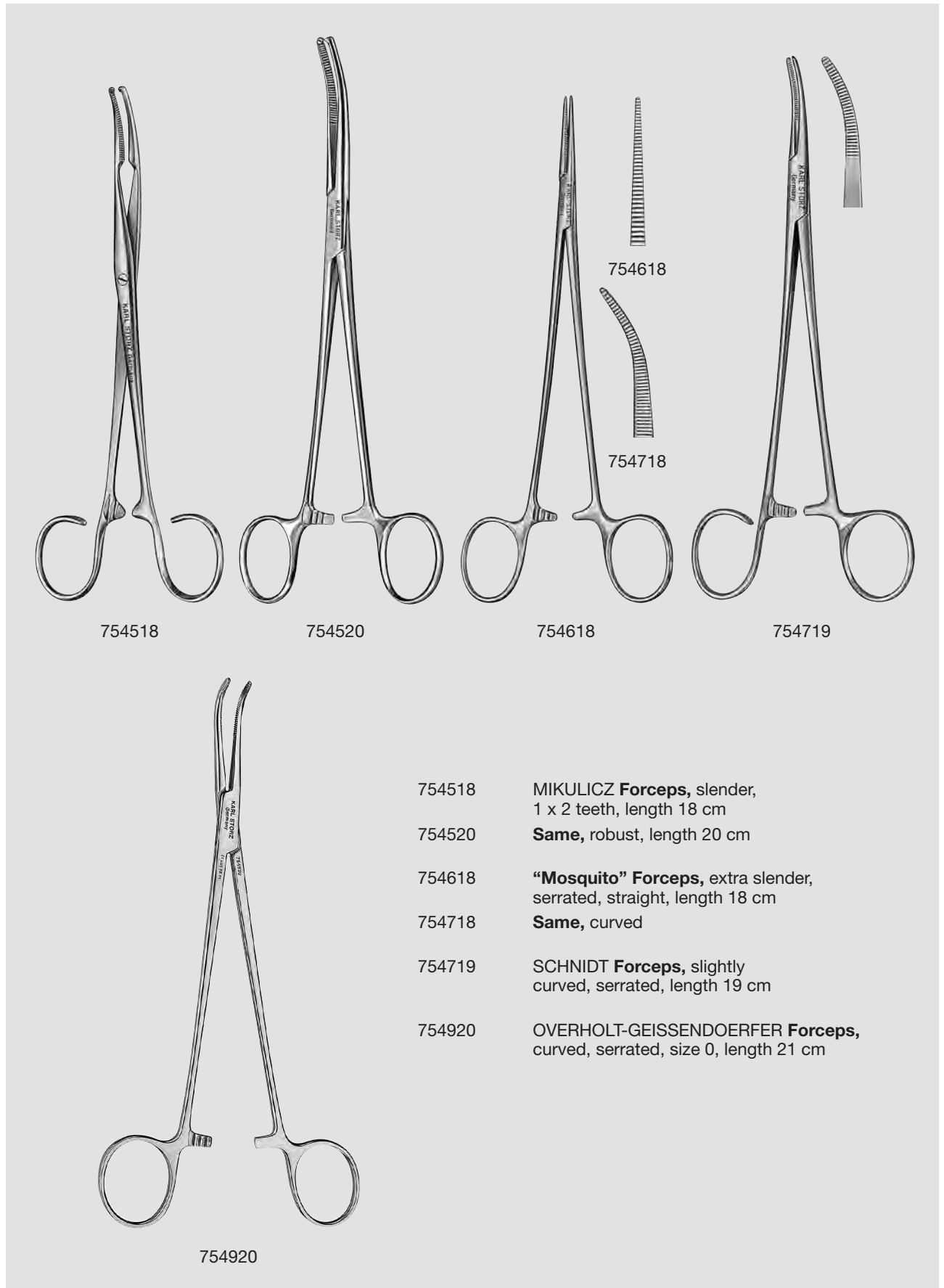
752918



752920

- 752500 GOOD **Scissors**, length 19.5 cm
- 752700 BOETTCHE **Scissors**, length 18.5 cm
- 752800 **Same**, pointed
- 752918 METZENBAUM **Scissors**, curved, length 18 cm
- 752920 **Same**, length 20 cm
- 752923 **Same**, length 23 cm
- 752928 **Same**, length 28 cm

Mouth – Tonsillectomy



754518

754520

754618

754719

754618

754718

754518

MIKULICZ Forceps, slender, 1 x 2 teeth, length 18 cm

754520

Same, robust, length 20 cm

754618

“Mosquito” Forceps, extra slender, serrated, straight, length 18 cm

754718

Same, curved

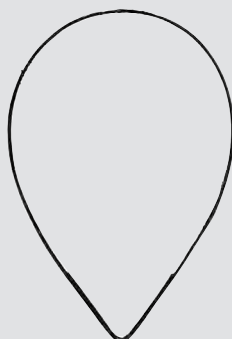
754719

SCHNIDT Forceps, slightly curved, serrated, length 19 cm

754920

OVERHOLT-GEISSENDOERFER Forceps, curved, serrated, size 0, length 21 cm

754920



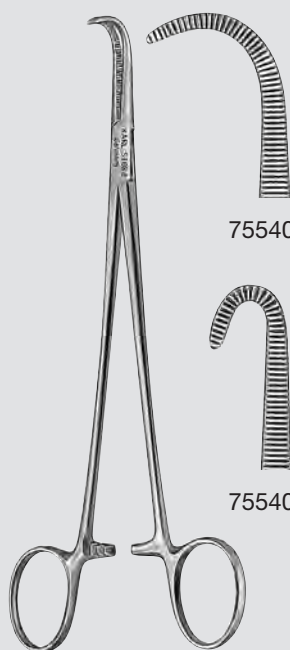
754200



755120

755220

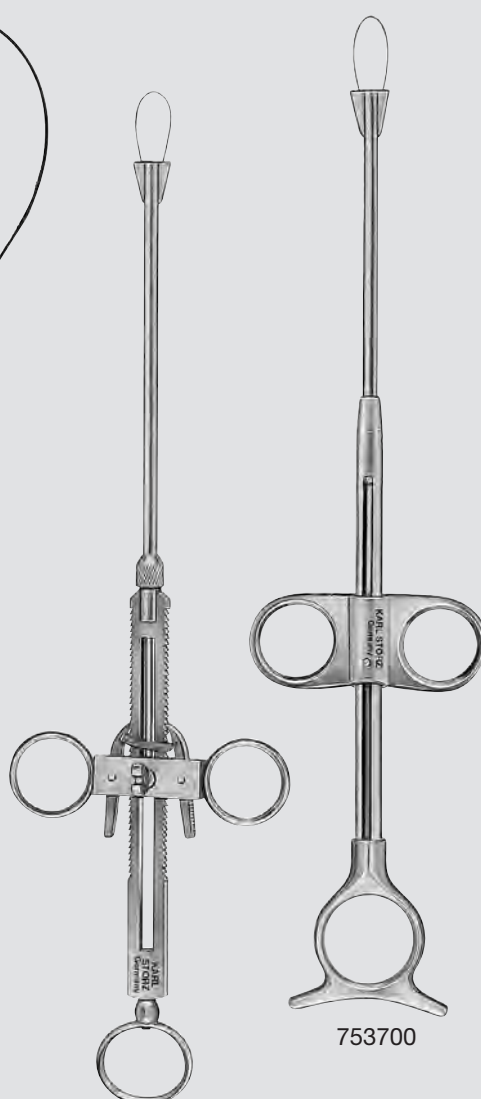
755120



755401

755402

755401



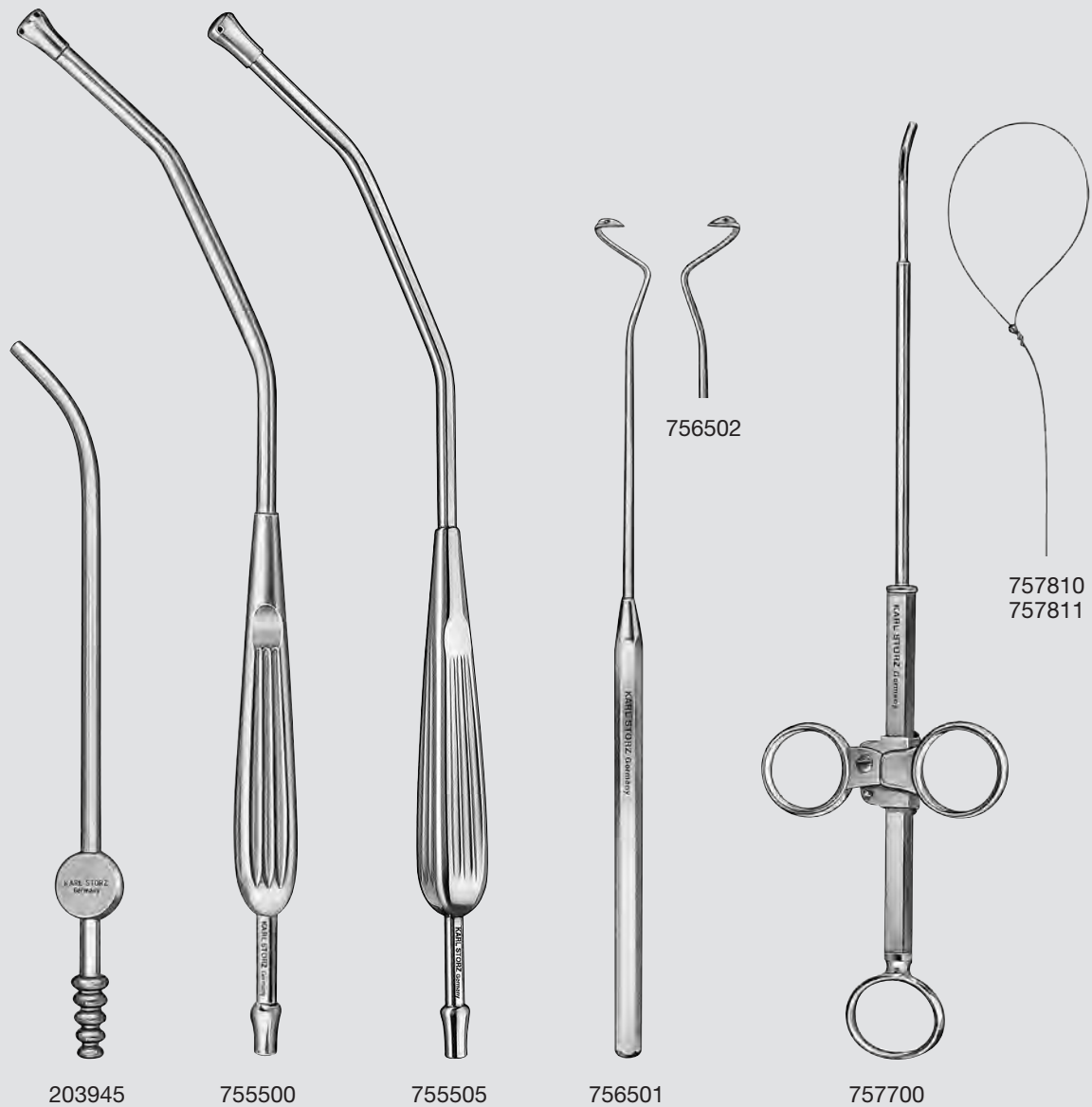
753500

753700

- 755120 HALLE-BIRKETT **Forceps**, slender, straight, length 20 cm
- 755220 **Same**, curved
- 755401 NEGUS **Forceps**, large curve, length 20 cm
- 755402 **Same**, small curve
- 753500 BRÜNINGS **Tonsil Snare**, length 29 cm
- 753700 EVES **Tonsil Snare**, length 27 cm
- 754200 **Wire Snare Loop**, stainless steel, package of 100

Components/Spare Parts see chapter 16

Mouth – Tonsillectomy



- 203945 **Suction Tube**, curved, conical, outer diameter 4.5 mm, length 20 cm
- 755500 **YANKAUER Suction Tube**, standard model, with large holes, length 29 cm
- 755505 **Same**, with small holes
- 756501 **HURD Tonsil Suture Needle**, right, length 22.5 cm
- 756502 **Same**, left
- 757700 **Roeder Loop Applicator**, model E, length 27 cm
- 757810 **Loops**, for Roeder Loop Applicator 757700, polyglycolic acid, absorbable, sterile, in package of 12, size 0
- 757811 **Same**, strength 1

Components/Spare Parts see chapter 16

Laryngeal mirrors illustrated in actual size



Size 00
Diameter 8 mm



Size 0
Diameter 10 mm



Size 1
Diameter 12 mm



Size 2
Diameter 14 mm



Size 3
Diameter 16 mm



Size 4
Diameter 18 mm



Size 5
Diameter 20 mm



Size 6
Diameter 22 mm



Size 7
Diameter 24 mm



Size 8
Diameter 26 mm



Size 9
Diameter 28 mm



Size 10
Diameter 30 mm

Laryngeal Instruments

Laryngeal Mirrors with RHODIUM Front Surface



767900 – 767910

Laryngeal Mirrors with RHODIUM Front Surface, autoclavable, with unscrewable hexagonal handle, sizes 0 – 10

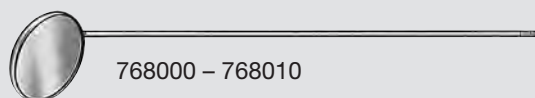
767911 **Laryngeal Mirror, with RHODIUM coating, autoclavable,** with unscrewable hexagonal handle, set of 11 mirrors, nos. 767900 – 767910, sizes 0 – 10

- 767900 size 0
- 767901 size 1
- 767902 size 2
- 767903 size 3
- 767904 size 4
- 767905 size 5
- 767906 size 6
- 767907 size 7
- 767908 size 8
- 767909 size 9
- 767910 size 10



769950

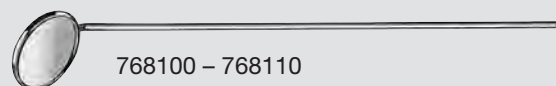
769950 **Handle, only, hexagonal, length 7.5 cm, for Laryngeal Mirrors 767900 – 767910, 770000 – 770020**



768000 – 768010

Laryngeal Mirror with RHODIUM Front Surface, autoclavable, mirror only, stem with thread, for use with hexagonal Handles 767900 – 767910 and 769950

- 768000 size 0
- 768001 size 1
- 768002 size 2
- 768003 size 3
- 768004 size 4
- 768005 size 5
- 768006 size 6
- 768007 size 7
- 768008 size 8
- 768009 size 9
- 768010 size 10



768100 – 768110

Laryngeal Mirror with RHODIUM Front Surface, autoclavable, without handle, stem without thread, size 0, for use with Handles 770500/770600

- 768100 size 0
- 768101 size 1
- 768102 size 2
- 768103 size 3
- 768104 size 4
- 768105 size 5
- 768106 size 6
- 768107 size 7
- 768108 size 8
- 768109 size 9
- 768110 size 10



770500

770500 **Handle, with set screw, length 10.5 cm, for Laryngeal Mirrors 768100 – 768110, 770100 – 770120**



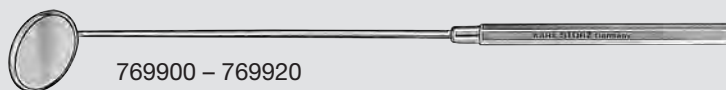
770600

770600 **Same, with central screw connection, length 11.5 cm**

For the actual size of the laryngeal mirror see page 358

Laryngeal Instruments

Laryngeal Mirrors Standard Version



769900 – 769920

Laryngeal Mirror, with unscrewable hexagonal handle, size 00 – 10

769921 **Laryngeal Mirror**, with unscrewable hexagonal handle, set of 12 mirrors, nos. 769900 – 769920, sizes 00 – 10

- 769920 size 00
- 769900 size 0
- 769901 size 1
- 769902 size 2
- 769903 size 3
- 769904 size 4
- 769905 size 5
- 769906 size 6
- 769907 size 7
- 769908 size 8
- 769909 size 9
- 769910 size 10



769950

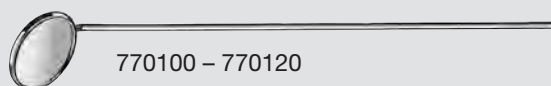
769950 **Handle**, only, hexagonal, length 7.5 cm, for Laryngeal Mirrors 767900 – 767910, 770000 – 770020



770000 – 770020

Laryngeal Mirror, mirror only, stem with thread, size 00 – 10, can be screwed on Handles 769900 – 769920 and 769950

- 770020 size 00
- 770000 size 0
- 770001 size 1
- 770002 size 2
- 770003 size 3
- 770004 size 4
- 770005 size 5
- 770006 size 6
- 770007 size 7
- 770008 size 8
- 770009 size 9
- 770010 size 10



770100 – 770120

Laryngeal Mirror, without handle, stem without thread, size 00 – 10



770500

770500 **Handle**, with set screw, length 10.5 cm, for Laryngeal Mirrors 768100 – 768110, 770100 – 770120

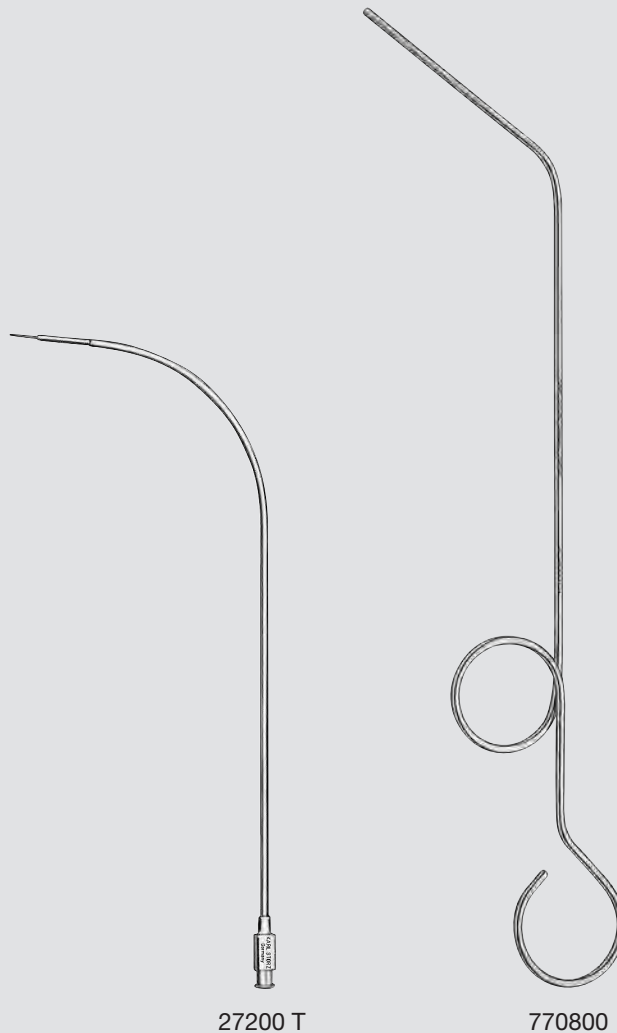
- 770120 size 00
- 770100 size 0
- 770101 size 1
- 770102 size 2
- 770103 size 3
- 770104 size 4
- 770105 size 5
- 770106 size 6
- 770107 size 7
- 770108 size 8
- 770109 size 9
- 770110 size 10



770600

770600 **Same**, with central screw connection, length 11.5 cm

For the actual size of the laryngeal mirror see page 358



27200 T

27200 T

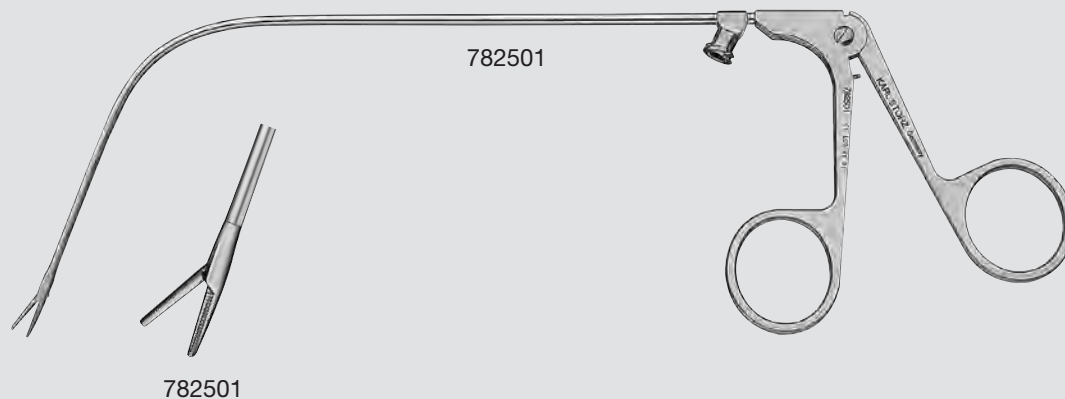
JOUSSEN **Larynx Cannula**, curved, for single use, LUER-Lock, outer diameter of tip 0.6 mm, for collagen application, for use with High Pressure Syringe 771400 or Syringe 810002, package of 3

770800

770800

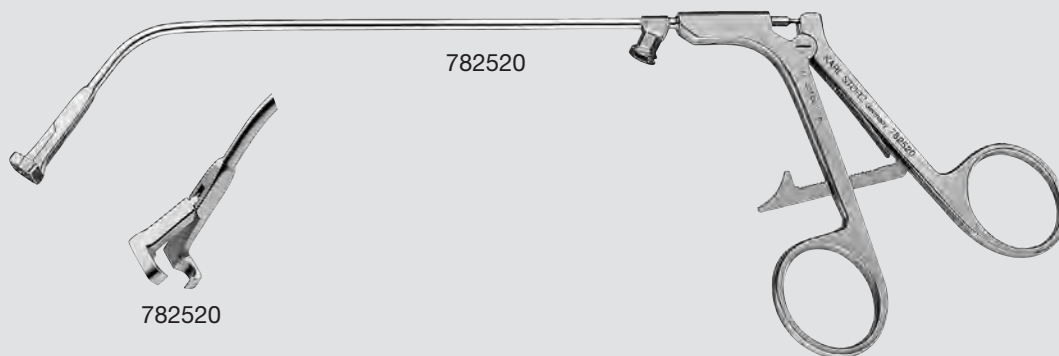
PELTESON **Cotton Applicator**, working length 27 cm

Working length 17 cm



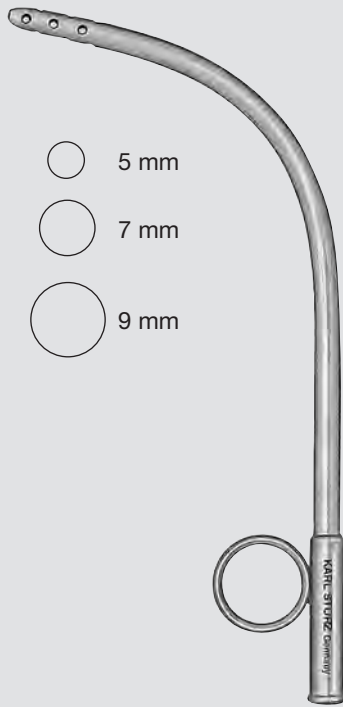
782501

Indirect Laryngeal Forceps, for foreign bodies, serrated, straight, open forwards, with cleaning connector, working length 17 cm

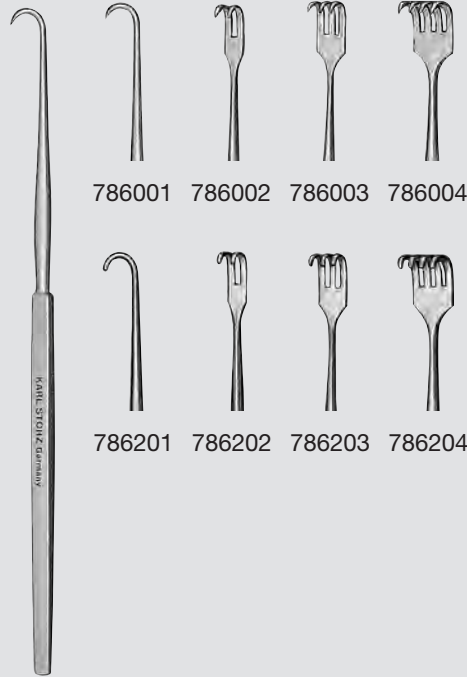


782520

Indirect Laryngeal Forceps, to apply needle electrodes, with ratchet, with cleaning connector, working length 17 cm



785005 –
785009



786001 786002 786003 786004

786201 786202 786203 786204



786500

785005 **BRÜNINGS Life-Saving Tube**,
outer diameter 5 mm, length 20 cm
785007 **Same**, outer diameter 7 mm
785009 **Same**, outer diameter 9 mm

786001 **Retractor**, sharp, 1 prong, length 17 cm
786002 **Same**, 2 prongs
786003 **Same**, 3 prongs
786004 **Same**, 4 prongs

786201 **Retractor**, blunt, 1 prong, length 17 cm
786202 **Same**, 2 prongs
786203 **Same**, 3 prongs
786204 **Same**, 4 prongs

786500 **SCHÖNBORN Thymus Retractor**,
width 5 mm, length 20.5 cm



403575



404075
404090



786600

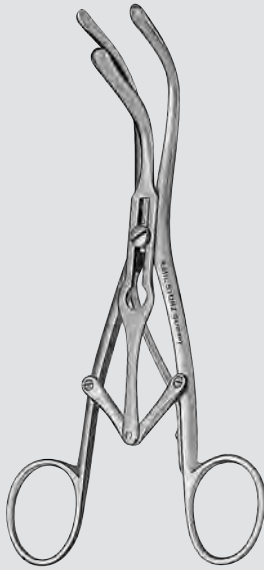
- 403575 **KILLIAN-STRUYCKEN Nasal Speculum**, standard model, blade length 75 mm, length 13.5 cm
- 404075 **Nasal Speculum**, with fiber optic light carrier, blade length 75 mm, length 13.5 cm
- 404090 **Same**, blade length 90 mm
- 786600 **WEERDA Tracheal Speculum**, length 19 cm

Please note:

LED Battery Light Sources for use with 404075 and 404090 see page 261

Components/Spare Parts see chapter 16

Larynx – Tracheotomy



786800



786900



787000

- | | |
|--------|--|
| 786800 | LABORDE Tracheal Dilator , length 15 cm, three-bladed |
| 786900 | Same , two-bladed |
| 787000 | KOCHER Probe , length 16.5 cm |



789500



789610

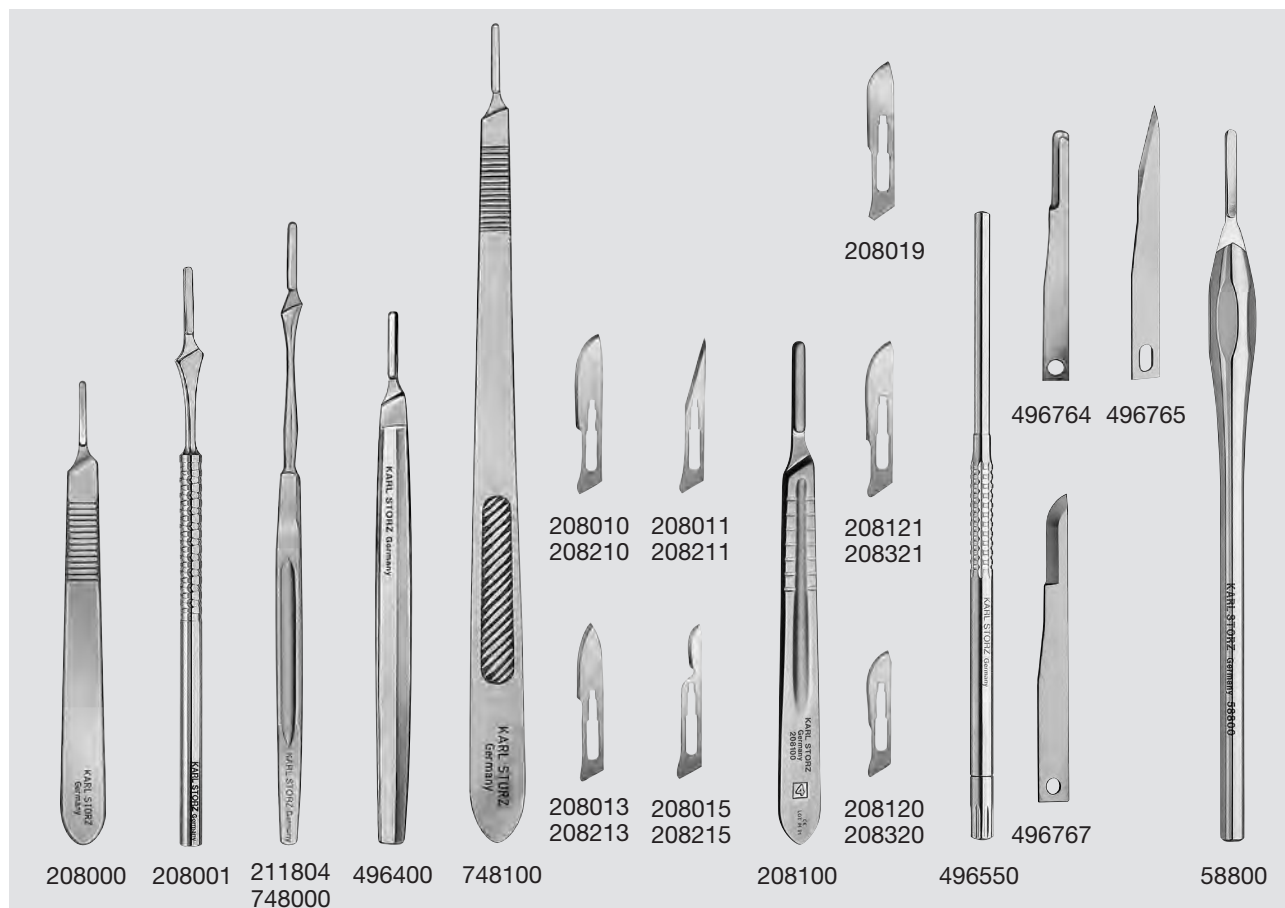
789500 **KILLIAN Laryngectomy Scissors**, double action, length 21.5 cm

789610 **Forceps**, for parotidectomy, KIEL model, angled, length 17 cm



HOSPITAL SUPPLIES
SCALPELS, SCISSORS, FORCEPS
NEEDLE HOLDERS, RETRACTORS
MISCELLANEOUS

Scalpels and Handles



208000	Surgical Handle , Fig. 3, length 12.5 cm, for Blades 208010 – 15, 208210 – 15	208100	Surgical Handle , Fig. 4, length 13.5 cm, for Blades 208019, 208120 – 21, 208320 – 21
208001	Round Surgical Handle , Fig. 3, length 15 cm, for Blades 208010 – 15, 208210 – 15	208120	Blade , for Handle 208100, Fig. 20, non-sterile, package of 100
211804	FISCH Dual Purpose Scalpel Handle , elevator on one side, scalpel handle no. 7 on the other side, length 16 cm	208121	Same , Fig. 21
496400	MASING Surgical Handle , length 14 cm, for Blades 208010 – 15, 208210 – 15	208019	Blade , Fig. 19, sterile, package of 100
748000	Surgical Handle , Fig. 7, length 16.5 cm, for Blades 208010 – 15, 208210 – 15	208320	Blade , for Handle 208100, Fig. 20, sterile, package of 100
748100	Surgical Handle , Fig. 3L, length 21 cm, for Blades 208010 – 15, 208210 – 15	208321	Same , Fig. 21
208010	Blade , Fig. 10, non-sterile, package of 100	NEW 496550	Surgical Handle , for miniature blades, round, length 16.5 cm, for Blades 496764 – 65
208011	Same , Fig. 11	496764	Miniature Blade , Fig. 64, round, sterile, package of 25
208013	Same , Fig. 13	496765	Same , Fig. 65, pointed
208015	Same , Fig. 15	496767	Same , Fig. 67, concentrated
208210	Blade , Fig. 10, sterile, package of 100	NEW 58800	Surgical Handle , straight, length 14 cm, for Blades 208010 – 15, 208210 – 15
208211	Same , Fig. 11		
208213	Same , Fig. 13		
208215	Same , Fig. 15		

Scissors



790501
790801



790502
790802



790503
790803

790501 **Scissors**, straight,
sharp/sharp, length 13 cm
790502 **Same**, sharp/blunt
790503 **Same**, blunt/blunt

790801 **Scissors**, straight,
sharp/sharp, length 14.5 cm
790802 **Same**, sharp/blunt
790803 **Same**, blunt/blunt



791001
791201



791002
791202

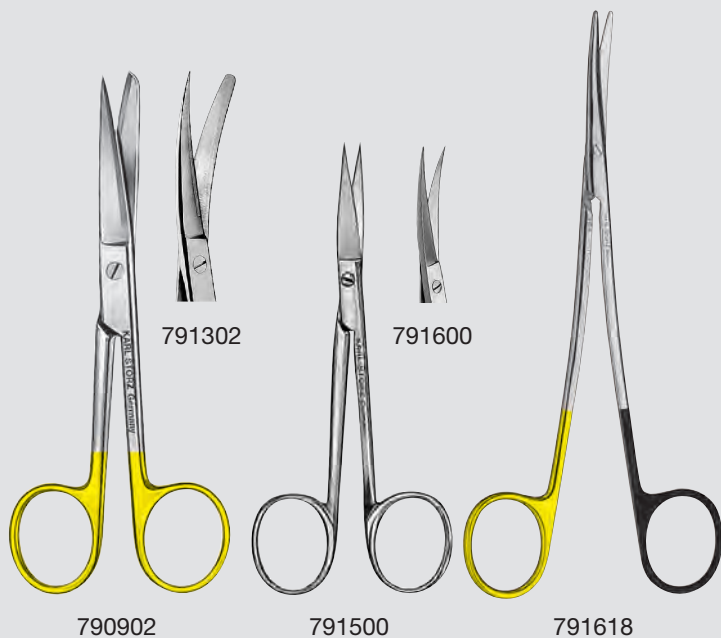


791003
791203

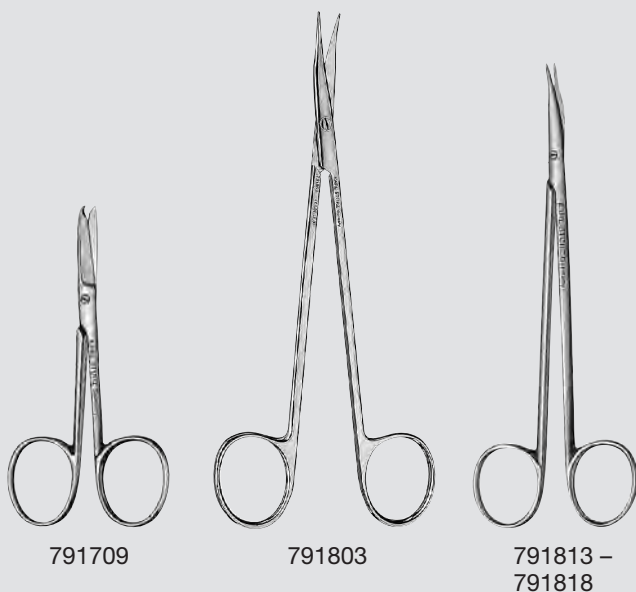
791001 **Scissors**, curved,
sharp/sharp, length 13 cm
791002 **Same**, sharp/blunt
791003 **Same**, blunt/blunt

791201 **Scissors**, curved,
sharp/sharp, length 14.5 cm
791202 **Same**, sharp/blunt
791203 **Same**, blunt/blunt

Scissors



- 790902 **Scissors**, with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm
- 791302 **Same**, curved
- 791500 **Stitch Scissors**, straight, sharp/sharp, length 12.5 cm
- 791600 **Same**, curved
- 791618 **Ligature Scissors**, with tungsten carbide inserts, curved, lower blade serrated, length 18 cm, color code: one black handle ring, one gold-plated handle ring



- 791709 **SPENCER Stitch Scissors**, length 9 cm
- 791803 **JAMESON Scissors**, curved, pointed, delicate tips, length 15.5 cm
- 791813 **REYNOLDS Scissors**, curved, delicate tips, length 13 cm
- 791815 **Same**, length 15 cm
- 791818 **Same**, length 18 cm

Scissors



791903
791905



792003
792005



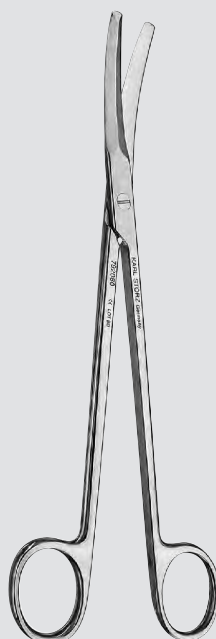
792013



792026



792071



792080

- 791903 **MAYO Scissors**, straight, length 15 cm
- 791905 **Same**, length 17 cm
- 792003 **MAYO Scissors**, curved, length 15 cm
- 792005 **Same**, length 17 cm
- 792013 **Same**, with tungsten carbide inserts
- 792026 **MAYO-LEXER Scissors**, with tungsten carbide inserts, curved, narrow blades, length 16 cm
- 792071 **TOENNIS Dissecting Scissors**, fine model, straight, blunt/blunt, length 18 cm
- 792080 **POTTS-SMITH Dissecting Scissors**, curved, blunt/blunt, length 19 cm

Scissors

Scissors with Good Cutting Quality

“The Diamond Standard®” Scissors

Special Features:

- Good cutting quality
- Razor-sharp lower blade ensures easy and efficient cutting
- Color code: one gold-plated handle ring
- Some models are available with tungsten carbide inserts, color code: one black handle ring, one gold-plated handle ring

Scissors with titanium nitride coating

Special Features:

- More durable surface
- Color code: copper
- Some models are available with tungsten carbide inserts



790802 DS



790902 DS



791002 DS
791202 DS



791003 DS
791003 DST

790802 DS **Scissors**, straight, sharp/blunt, length 14.5 cm, color code: one gold-plated handle ring

790902 DS **Scissors**, with tungsten carbide inserts, straight, sharp/blunt, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring

791002 DS **Scissors**, curved, sharp/blunt, length 13 cm, color code: one gold-plated handle ring

791003 DS **Same**, blunt/blunt

791003 DST **Same**, with titanium-nitride coating, color code: copper

791202 DS **Scissors**, curved, sharp/blunt, length 14.5 cm, color code: one gold-plated handle ring

Scissors

Scissors with Ultimate Cutting Quality



791302 DS
791302 DST



791815 DS



792013 DS
792013 DST

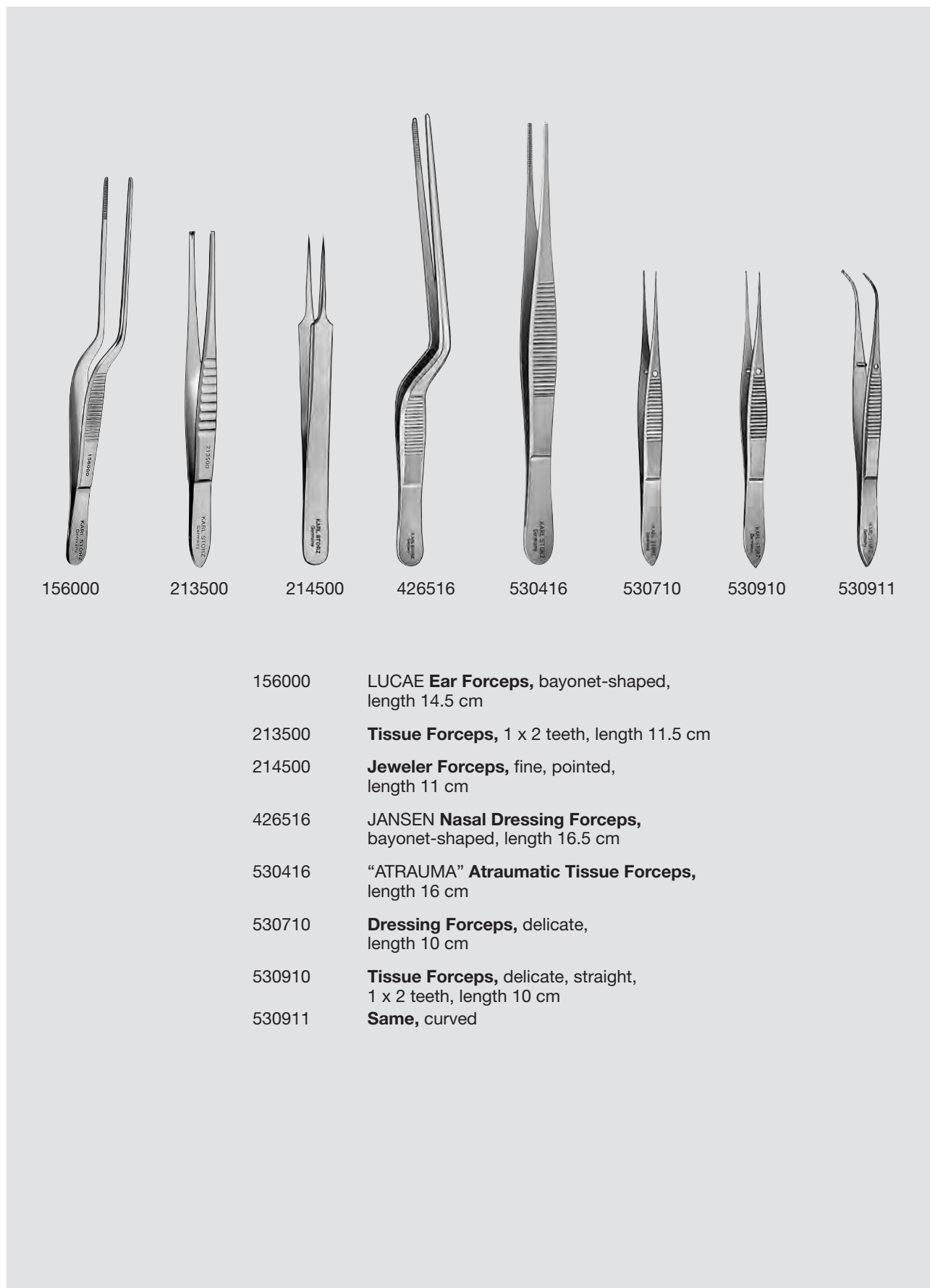
791302 DS **Scissors**, with tungsten carbide inserts, curved, sharp/blunt, length 14.5 cm, color code: one black handle ring, one gold-plated handle ring

791302 DST **Same**, with titanium-nitride coating, color code: copper

791815 DS **REYNOLDS Dissecting Scissors**, curved, small tips, length 15 cm, color code: one gold-plated handle ring

792013 DS **MAYO Dissecting Scissors**, with tungsten carbide inserts, curved, length 15 cm, color code: one black handle ring, one gold-plated handle ring

792013 DST **Same**, with titanium-nitride coating, length 14.5 cm, color code: copper



156000

213500

214500

426516

530416

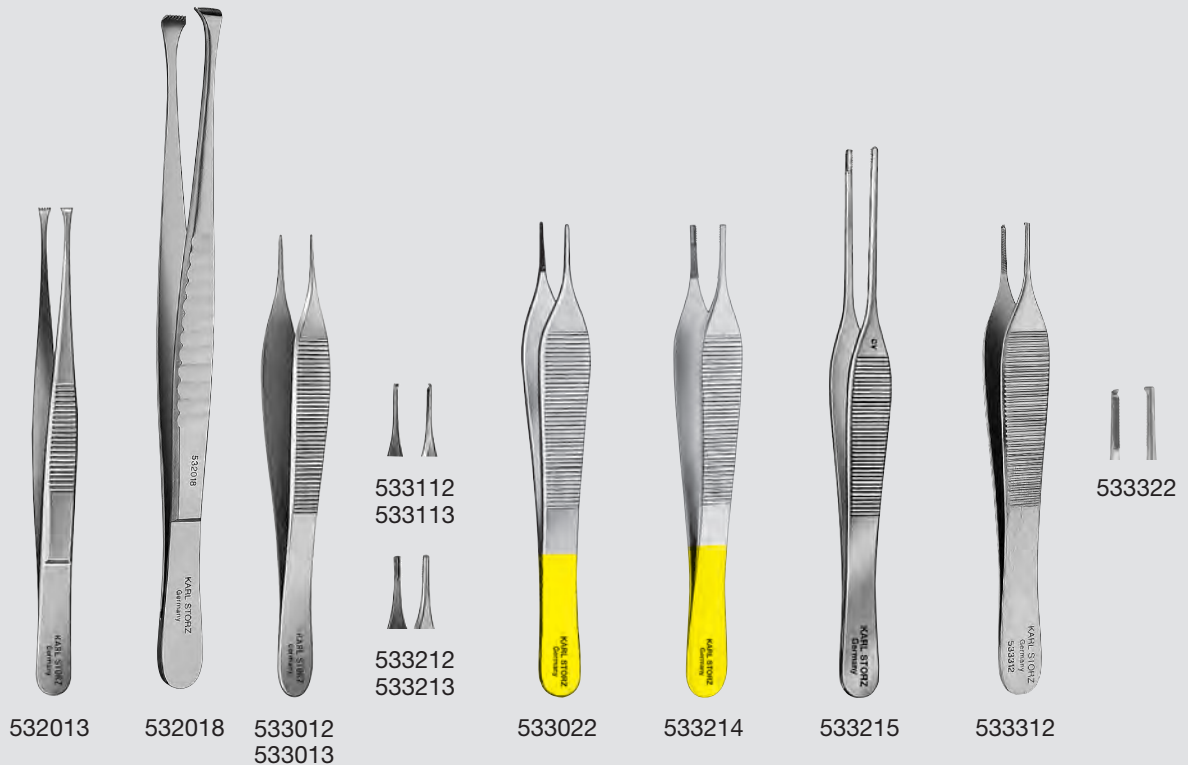
530710

530910

530911

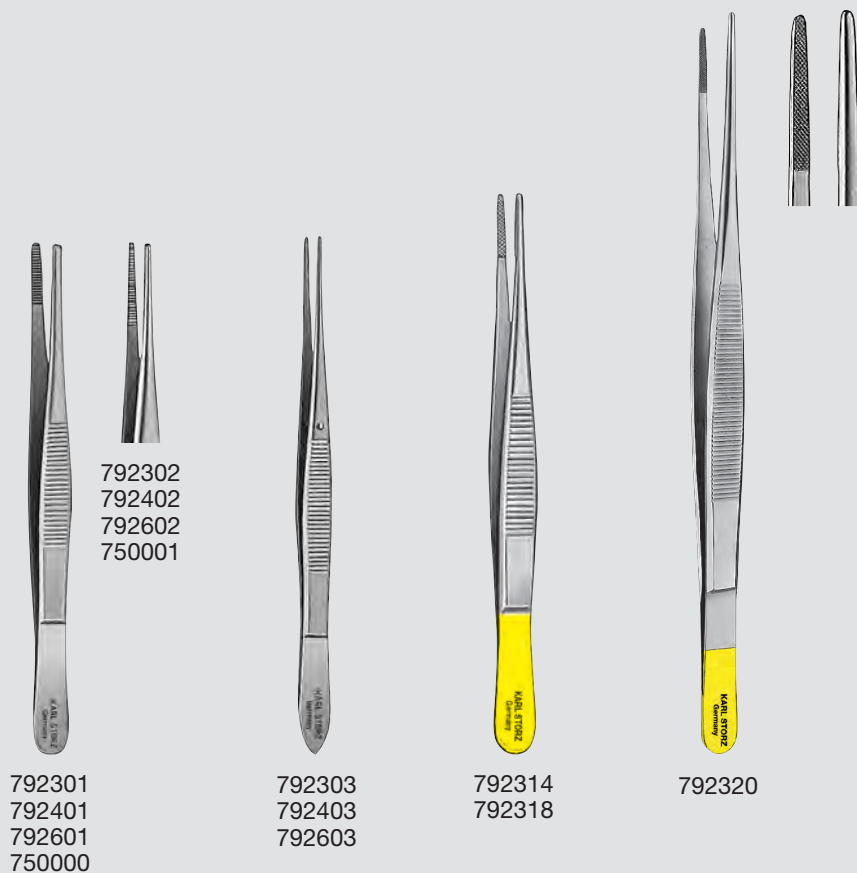
- 156000 **LUCAE Ear Forceps**, bayonet-shaped, length 14.5 cm
- 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- 214500 **Jeweler Forceps**, fine, pointed, length 11 cm
- 426516 **JANSEN Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- 530416 **“ATRAUMA” Atraumatic Tissue Forceps**, length 16 cm
- 530710 **Dressing Forceps**, delicate, length 10 cm
- 530910 **Tissue Forceps**, delicate, straight, 1 x 2 teeth, length 10 cm
- 530911 **Same**, curved

Dressing and Tissue Forceps



- 532013 **Tissue Forceps**, straight, with 7 x 8 fine teeth, length 13 cm
- NEW** 532018 **STÖVER Tissue Forceps**, straight, with 7 x 8 fine teeth, length 18 cm
- 533012 **ADSON Dressing Forceps**, serrated, length 12 cm
- 533013 **Same**, micro-model
- 533022 **Same**, tungsten carbide inserts
- 533112 **ADSON Tissue Forceps**, 1 x 2 teeth, length 12 cm
- 533113 **Same**, micro-model
- 533212 **ADSON-BROWN Tissue Forceps**, atraumatic, fine side grasping teeth, length 12 cm
- 533213 **Same**, micro-model
- 533214 **ADSON-BROWN Tissue Forceps**, atraumatic, fine side grasping teeth, tungsten carbide inserts, width 1.5 mm, length 12 cm
- 533215 **GLANZ Forceps**, atraumatic, fine side grasping teeth, with extra long tips, length 15 cm
- 533312 **ADSON Tissue Forceps**, serrated, 1 x 2 teeth, length 12 cm
- 533322 **ADSON Tissue Forceps**, serrated, 1 x 2 teeth, tungsten carbide inserts, length 12 cm

Dressing Forceps



792302
792402
792602
750001

792301
792401
792601
750000

792303
792403
792603

792314
792318

792320

- 792301 **Dressing Forceps**, standard width, length 13 cm
- 792302 **Same**, medium
- 792303 **Same**, narrow
- 792314 **Dressing Forceps**, tungsten carbide inserts, width 1.8 mm, length 14.5 cm
- 792318 **Same**, length 18 cm
- 792320 **Atraumatic Tissue Forceps**, tungsten carbide inserts, serrated, length 20 cm
- 792401 **Dressing Forceps**, standard width, length 14.5 cm
- 792402 **Same**, medium
- 792403 **Same**, narrow
- 792601 **Dressing Forceps**, standard width, length 16 cm
- 792602 **Same**, medium
- 792603 **Same**, narrow
- 750000 **Forceps**, serrated, width 4 mm, length 20 cm
- 750001 **Same**, width 1.8 mm

Forceps



793215



793216



793220



793225



793918

793215 HELMS **Forceps**, pointed, atraumatic, length 15 cm

793216 GILLIES **Tissue Forceps**, serrated, 1 x 2 teeth, length 15.5 cm

793220 WAUGH **Tissue Forceps**, serrated, 1 x 2 teeth, length 20 cm

793225 **Same**, length 25 cm

793918 WAUGH **Tissue Forceps**, 1 x 2 teeth, length 18 cm



793301
793401
793601
750112



793302
793402
793602
750111



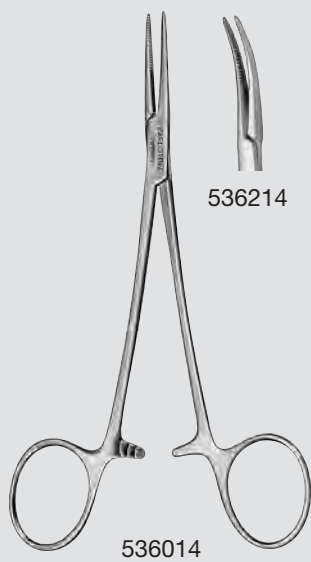
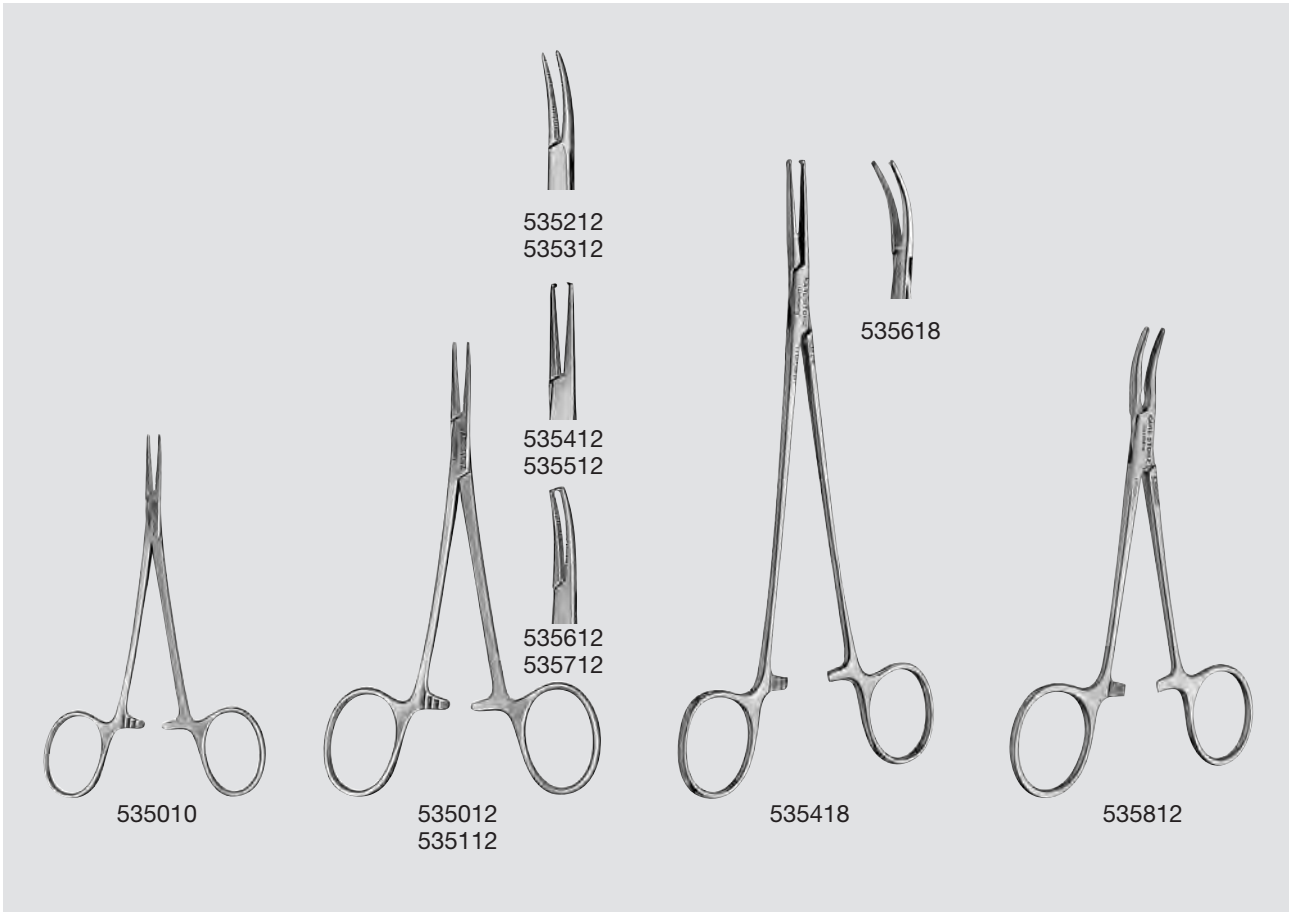
793303
793303 F
793403
793603



750123

- 793301 **Tissue Forceps**, 1 x 2 teeth, standard width, length 13 cm
- 793302 **Same**, medium
- 793303 **Same**, narrow
- 793303 F **Same**, slender, soft spring
- 793401 **Tissue Forceps**, 1 x 2 teeth, standard width, length 14.5 cm
- 793402 **Same**, medium
- 793403 **Same**, narrow
- 793601 **Tissue Forceps**, 1 x 2 teeth, standard width, length 16 cm
- 793602 **Same**, medium
- 793603 **Same**, narrow
- 750111 **Tissue Forceps**, 1 x 2 teeth, width 2 mm, length 20 cm
- 750112 **Same**, width 3.5 mm
- 750123 **Tissue Forceps**, 2 x 3 teeth, width 4.5 mm, length 20 cm
- 750134 **Tissue Forceps**, 3 x 4 teeth, width 4.5 mm, length 20 cm

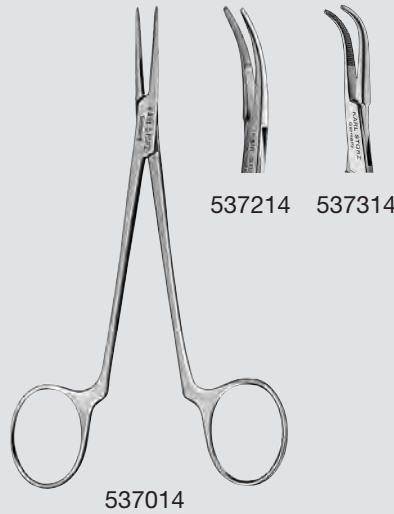
Artery Forceps



- 535010 **Baby “Mosquito” Forceps,**
straight, extra slender, length 10 cm
- 535012 **HALSTEAD “Mosquito” Artery Forceps,**
straight, length 12.5 cm
- 535112 **Same,** micro-model
- 535212 **HALSTEAD “Mosquito” Artery Forceps,**
curved, length 12.5 cm
- 535312 **Same,** micro-model
- 535412 **HALSTEAD “Mosquito” Artery Forceps,**
straight, 1 x 2 teeth, length 12.5 cm
- 535512 **Same,** micro-model
- 535612 **Same,** curved
- 535712 **Same,** micro-model, curved
- 535418 **HALSTEAD “Mosquito” Artery Forceps,**
straight, 1 x 2 teeth, length 18 cm
- 535618 **Same,** curved
- 535812 **DE BAKEY “Mosquito” Artery Forceps,**
atraumatic, curved, length 12 cm
- 536014 **Artery Forceps, PROVIDENCE model,**
delicate, straight, length 14 cm
- 536214 **Same,** curved

1-914

Artery Forceps



- 536414 CRILE **Artery Forceps**, straight, length 14 cm
- 536514 **Same**, curved
- 536814 KELLY **Artery Forceps**, straight, length 14 cm
- 536816 **Same**, length 16 cm
- 536909 **Dissecting and Ligature Forceps**, straight, smooth jaws, length 9.5 cm
- 536914 KELLY **Artery Forceps**, curved, length 14 cm
- 536916 **Same**, length 16 cm
- 537014 **Dissecting Forceps**, straight, without ratchet, length 14 cm
- 537214 **Same**, slightly curved
- 537314 **Same**, strongly curved
- 537222 **Artery Forceps**, slightly curved, without ratchet, length 22.5 cm
- 539330 **Bulldog Clamp**, curved, length 5 cm
- 539327 DIEFENBACH **Bulldog Clamp**, curved, length 4 cm

Artery Forceps



789610



789614



794014 –
794020

794214 –
794220



794228



794514 –
794520

794814 –
794818

- 789610 **Forceps**, for parotidectomy, KIEL model, angled, length 17 cm
- 789614 **Parotid Spreading Forceps**, curved, fine, length 14 cm
- 794014 **ROCHESTER-PEAN Artery Forceps**, straight, length 14 cm
- 794016 **Same**, length 16 cm
- 794018 **Same**, length 18 cm
- 794020 **Same**, length 20 cm
- 794214 **ROCHESTER-PEAN Artery Forceps**, curved, length 14 cm
- 794216 **Same**, length 16 cm
- 794218 **Same**, length 18 cm
- 794220 **Same**, length 20 cm
- 794228 **ADSON Artery Forceps**, curved 90°, slender, length 18 cm
- 794514 **OCHSNER-KOCHER Artery Forceps**, straight, 1 x 2 teeth, length 14 cm
- 794516 **Same**, length 16 cm
- 794518 **Same**, length 18 cm
- 794520 **Same**, length 20 cm
- 794814 **OCHSNER-KOCHER Artery Forceps**, curved, 1 x 2 teeth, length 14 cm
- 794816 **Same**, length 16 cm
- 794818 **Same**, length 18 cm

Forceps



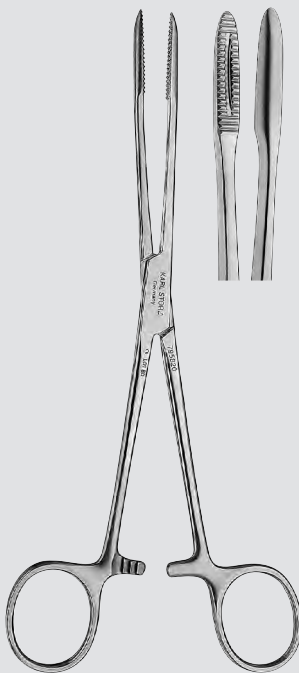
795015
795016



795115



795720



795820
795826



795890

795015

ALLIS Forceps, 4 x 5 teeth, length 15 cm

795016

Same, 5 x 6 teeth

795115

BRAUN Hook Forceps, 4 x 4 teeth, length 15.5 cm

795720

GROSS-MAIER Dressing and Sponge Holding Forceps, straight, with groove, without ratchet, length 20 cm

795820

GROSS Dressing and Sponge Holding Forceps, straight, with ratchet, length 20 cm

795826

MAIER Dressing and Sponge Holding Forceps, straight, with ratchet, length 26.5 cm

795890

Foreign Body Forceps, slightly curved, serrated, with ratchet, length 21 cm

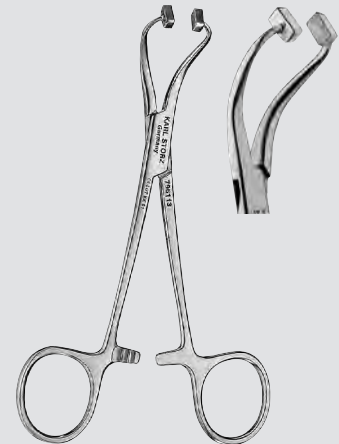
Towel Forceps



796008 –
796013



796109



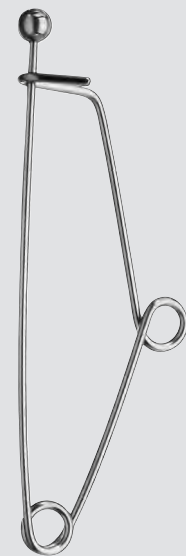
796113



796209



796413



796699

796008 **BACKHAUS Towel Forceps**,
length 9 cm

796011 **Same**, length 11 cm

796013 **Same**, length 13 cm

796109 **Towel Forceps**, with serrated inserts,
length 9.5 cm, for paper cover sheets

796113 **Towel Forceps**, with serrated inserts,
length 13 cm, for paper cover sheets

796209

SCHÄDEL Towel Forceps,
length 9 cm

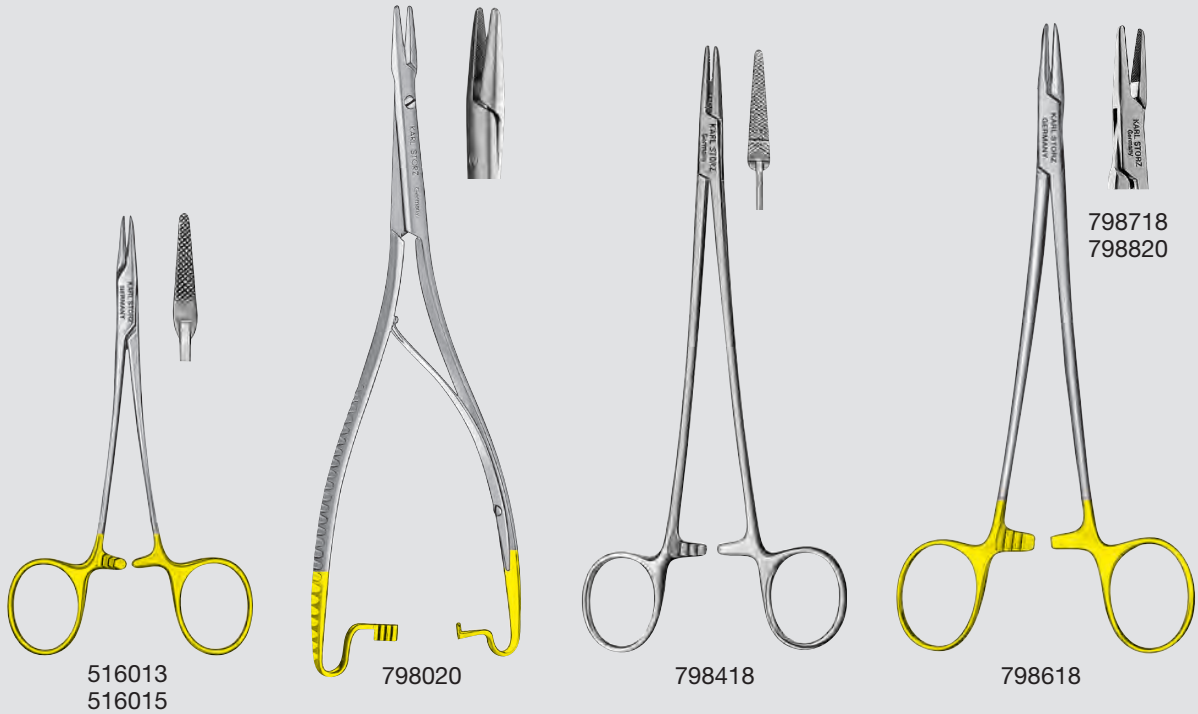
796413

EDNA-LORNA Towel Forceps,
serrated, non-perforating,
length 13 cm

796699

Safety Pin, for holding
ring handle instruments,
length 14 cm

Needle Holders



- 516013 **Needle Holder**, tungsten carbide inserts, length 13 cm
- 516015 **Same**, length 15 cm
- 798020 **MATHIEU Needle Holder**, tungsten carbide jaws, slender, length 20 cm
- 798418 **HEGAR Needle Holder**, slender, length 18 cm
- 798618 **Same**, tungsten carbide inserts
- 798718 **HEGAR-MAYO Needle Holder**, tungsten carbide inserts, robust, length 18 cm
- 798820 **HEGAR Needle Holder**, tungsten carbide inserts, robust, length 20 cm
- 799016 **DRAF Micro Needle Holder**, extra fine, coated jaws, matt finish, polished handle rings, length 16.5 cm
- 800001 **DESCHAMPS Ligature Needle**, curved to right, length 20 cm
- 800002 **Same**, curved to left
- 800005 **FISCH Aneurysm Needle**, curved, length 20 cm

BARRAQUER Micro Instruments



799114



799214



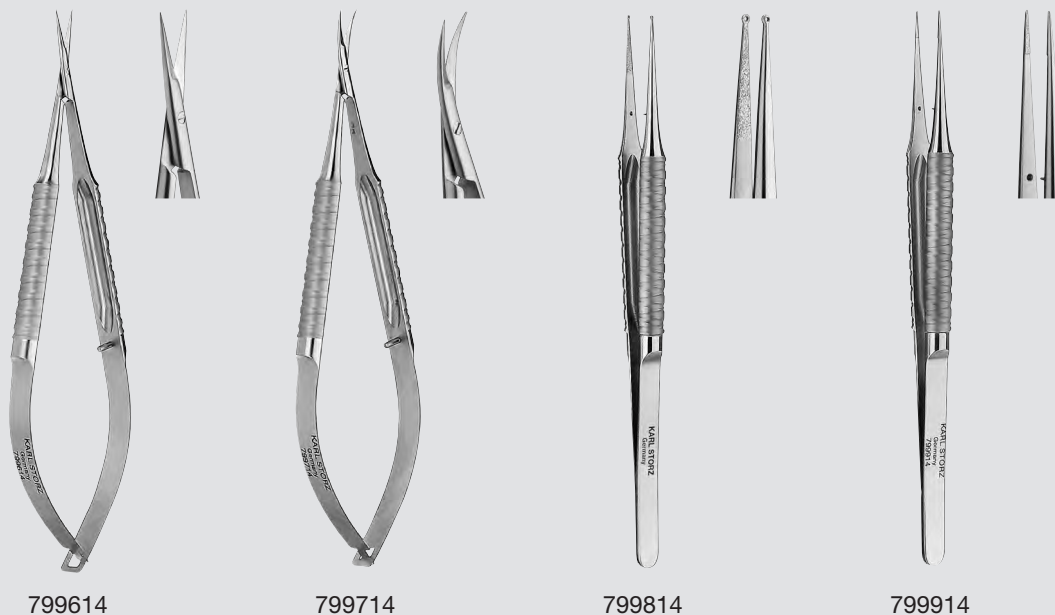
799314



799414

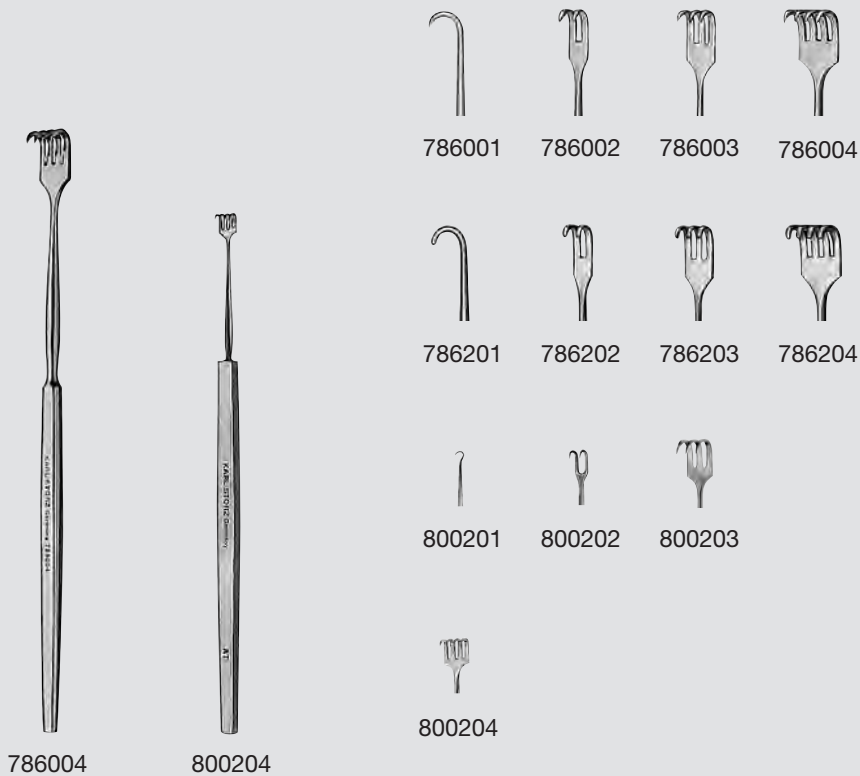


- 799114 BARRAQUER **Micro Needle Holder**, with round spring handle, straight, smooth-coated jaws, with ratchet, length 14 cm
- 799118 **Same**, length 18 cm
- 799214 BARRAQUER **Micro Needle Holder**, with round spring handle, curved, smooth-coated jaws, with ratchet, length 14 cm
- 799216 **Same**, length 16 cm
- 799218 **Same**, length 18 cm
- 799314 BARRAQUER **Micro Needle Holder**, with round spring handle, straight, serrated, tungsten carbide jaws, with ratchet, length 14 cm
- 799316 **Same**, length 16 cm
- 799414 BARRAQUER **Micro Needle Holder**, with round spring handle, curved, serrated, tungsten carbide jaws, with ratchet, length 14 cm
- 799418 **Same**, length 18 cm

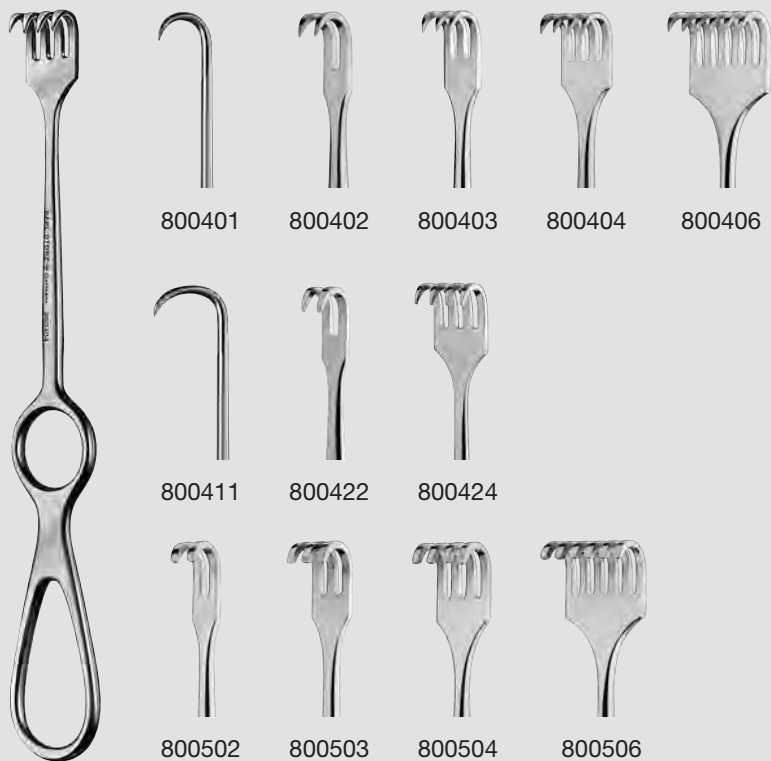


- 799614 **Micro Scissors**, with round spring handle, straight, serrated cutting edge, length 14 cm
- 799616 **Same**, length 16 cm
- 799618 **Same**, length 18 cm
- 799714 **Micro Scissors**, with round spring handle, curved, serrated cutting edge, length 14 cm
- 799716 **Same**, length 16 cm
- 799718 **Same**, length 18 cm
- 799814 **Micro Ring Forceps**, with round spring handle, straight, coated, length 14 cm
- 799818 **Same**, length 18 cm
- 799914 **Micro Forceps**, with round spring handle, straight, coated, length 14 cm
- 799916 **Same**, length 16 cm

Retractors



- 786001 **Retractor**, sharp, 1 prong, length 17 cm
- 786002 **Same**, 2 prongs
- 786003 **Same**, 3 prongs
- 786004 **Same**, 4 prongs
- 786201 **Retractor**, blunt, 1 prong, length 17 cm
- 786202 **Same**, 2 prongs
- 786203 **Same**, 3 prongs
- 786204 **Same**, 4 prongs
- 800201 **Retractor**, extra fine, sharp, 1 prong, length 12 cm
- 800202 **Same**, 2 prongs
- 800203 **Retractor**, extra fine, sharp, 3 prongs, length 13 cm
- 800204 **Retractor**, extra fine, sharp, 4 prongs, length 13 cm



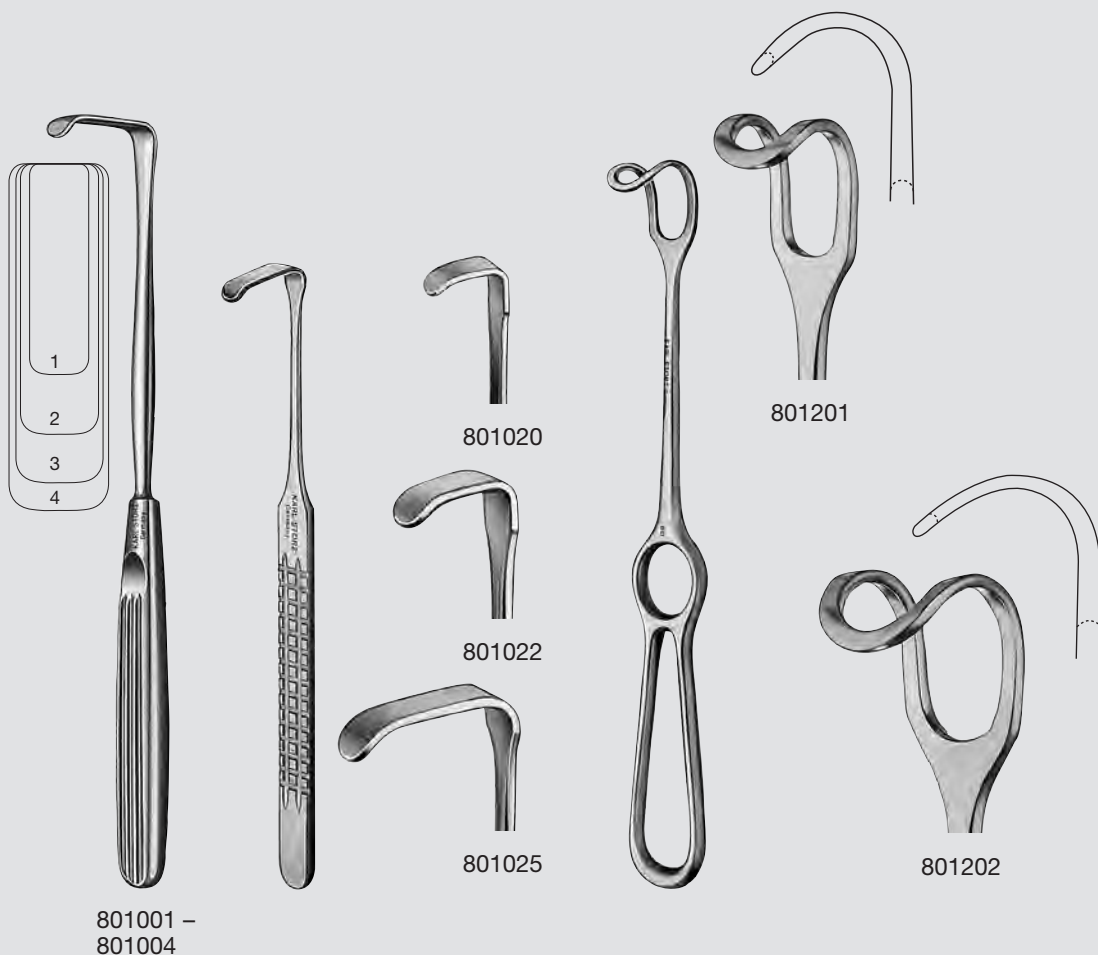
800401 VOLKMANN **Retractor**, sharp, 1 prong, length 21 cm
 800402 **Same**, 2 prongs
 800403 **Same**, 3 prongs
 800404 **Same**, 4 prongs
 800406 **Same**, 6 prongs

800411 VOLKMANN **Retractor**, sharp, 1 prong, long curve for cheekbone, length 21 cm

800422 VOLKMANN **Retractor**, semisharp, 2 prongs, size 8.5 x 8 mm, length 22 cm
 800424 VOLKMANN **Retractor**, semisharp, 4 prongs, length 21 cm

800502 VOLKMANN **Retractor**, blunt, 2 prongs, length 21 cm
 800503 **Same**, 3 prongs
 800504 **Same**, 4 prongs
 800506 **Same**, 6 prongs

Retractors



- 801001 **LANGENBECK Retractor**,
size 1, 25 x 7.5 mm,
length 22 cm
- 801002 **Same**, size 2, 31 x 9 mm
- 801003 **Same**, size 3, 37 x 10.5 mm
- 801004 **Same**, size 4, 40 x 12 mm
- 801020 **LANGENBECK-GREEN**
Retractor, with flat handle,
10 x 4 mm, length 16 cm
- 801022 **Same**, 16 x 6 mm
- 801025 **Same**, 24 x 6 mm

- 801201 **MIDDELDORPF Retractor**,
with grid handle, small, size 1,
15 x 15 mm, length 20 cm
- 801202 **Same**, medium, size 2, 20 x 20 mm

Retractors



801403

801404

801414

801600

801700

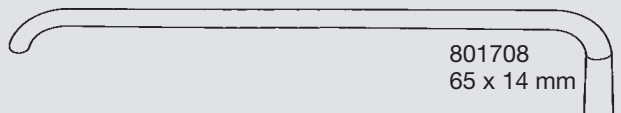
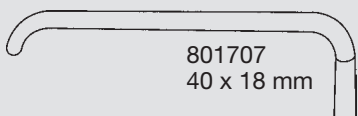
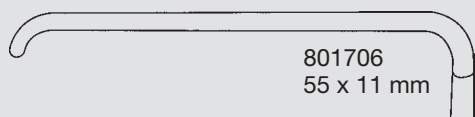
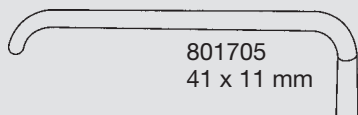
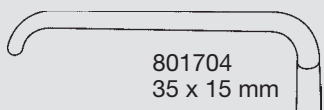
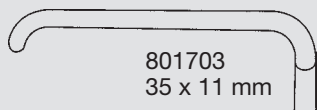
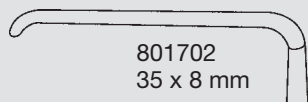
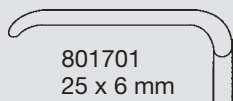
801800



58147

- 801403 ISRAEL **Retractor**, blunt, 3 prongs, size 36 x 30 mm, length 22 cm
- 801404 **Same**, 4 prongs, size 40 x 40 mm, length 24 cm
- 801414 GLANZ **Retractor**, blunt, 4 prongs, curved backwards, size 30 x 12 mm, length 21 cm, for retraction of the jugular vein during throat surgery
- 801600 LANGENBECK **Retractor**, oval blade, size 60 x 20 mm, length 21.5 cm
- 801700 **Same**, rectangular blade
- 801800 LANGENBECK **Retractor**, size 33 x 14 mm, length 21.5 cm
- 58147 **Orbital Retractor**, angled 80°, with scale, with flat handle, size 40 x 8 mm, length 16 cm

Retractors



801701 –
801706

801707
801708

801701 **KOCHER-LANGENBECK Retractor**, size 25 x 6 mm, length 21.5 cm

801702 **Same**, size 35 x 8 mm

801703 **Same**, size 35 x 11 mm

801704 **Same**, size 35 x 15 mm

801705 **Same**, size 41 x 11 mm

801706 **Same**, size 55 x 11 mm

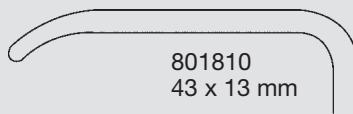
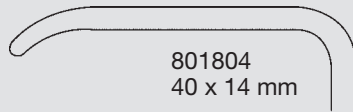
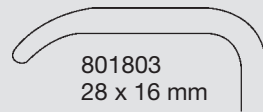
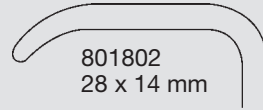
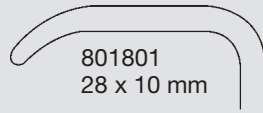
801707 **KOCHER Retractor**, size 40 x 18 mm, length 23 cm

801708 **KOCHER-LANGENBECK Retractor**, size 65 x 14 mm, length 21.5 cm

Retractors



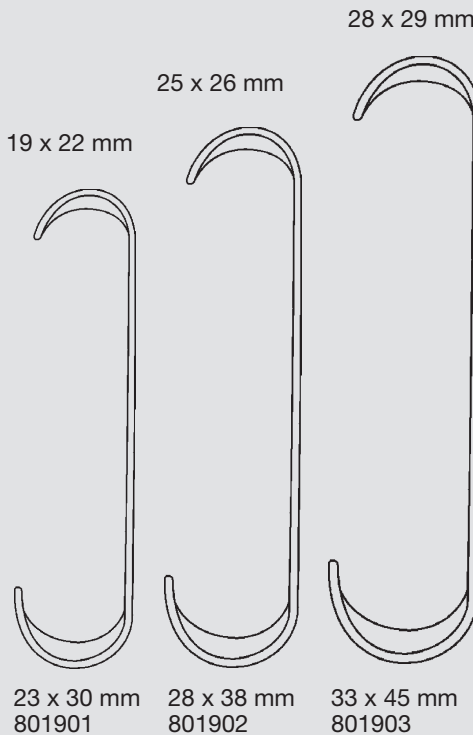
801801 –
801810



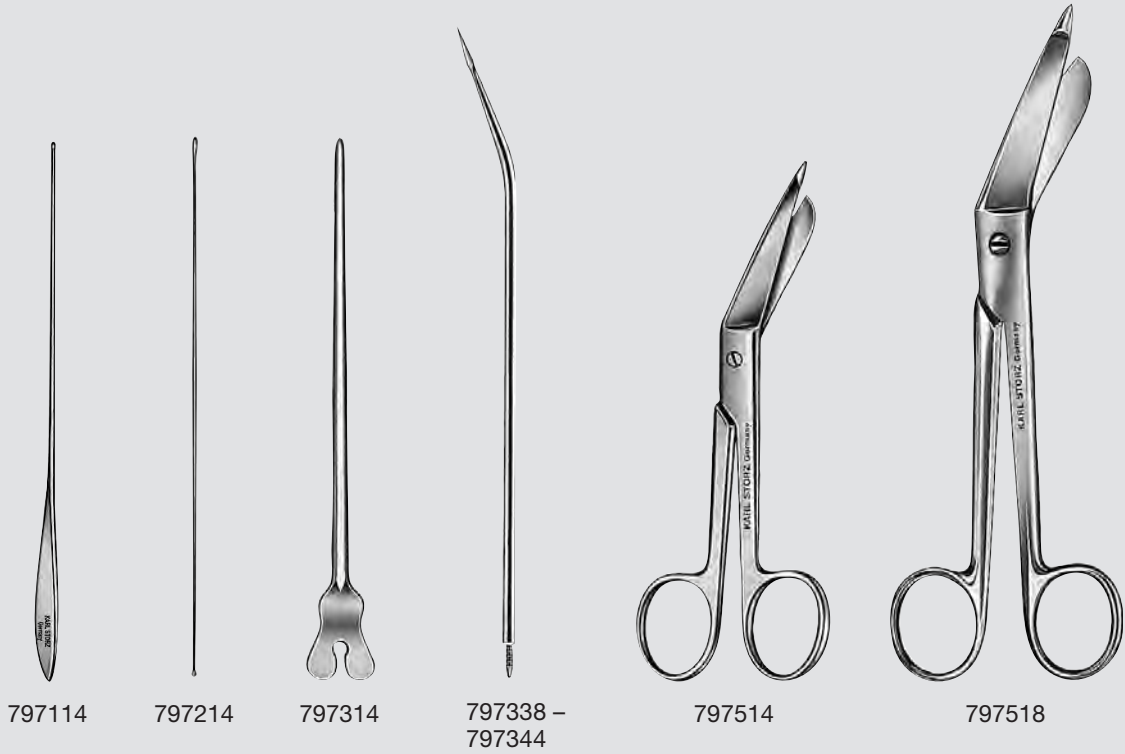
- 801801 **LANGENBECK Retractor**, size 28 x 10 mm, length 21 cm
- 801802 **Same**, size 28 x 14 mm
- 801803 **Same**, size 28 x 16 mm
- 801804 **Same**, size 40 x 14 mm
- 801810 **Same**, size 43 x 13 mm



801901 –
801903



- 801901 **ROUX Retractor**, 19 x 22 mm and 23 x 30 mm, length 14.5 cm
- 801902 **ROUX Retractor**, 25 x 26 mm and 28 x 38 mm, length 15.5 cm
- 801903 **ROUX Retractor**, 28 x 29 mm and 33 x 45 mm, length 16.5 cm



- 797114 **Myrtle Leaf Probe**, diameter 1.5 mm, length 14.5 cm
- 797214 **Bulbous Probe**, diameter 1.5 mm, length 14.5 cm
- 797314 **Grooved Director**, length 14.5 cm
- 797338 **Redon Guide Needle**, angled,
with lancet tip, 8 Fr.
- 797340 **Same**, 10 Fr.
- 797342 **Same**, 12 Fr.
- 797344 **Same**, 14 Fr.
- 797514 **LISTER Bandage Scissors**, length 14 cm
- 797518 **Same**, length 18 cm

Holders for Endoscopes and Suction Tubes

Special Features:

- Resting place during surgical interventions
- In ideal cases allows surgeons independent access to instruments
- For mounting to an instrument table

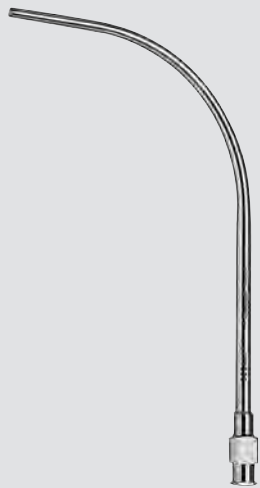


8997 E



8997 K

- 8997 E **Endoscope Holder**, for mounting to the instrument table, for storage of endoscopes up to diameter 5 mm
- 8997 K **Suction Tube Holder**, for mounting to the instrument table, for storage of suction tubes



771506



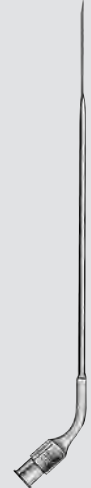
810502



810503



810505



810506



810802



810805



810806

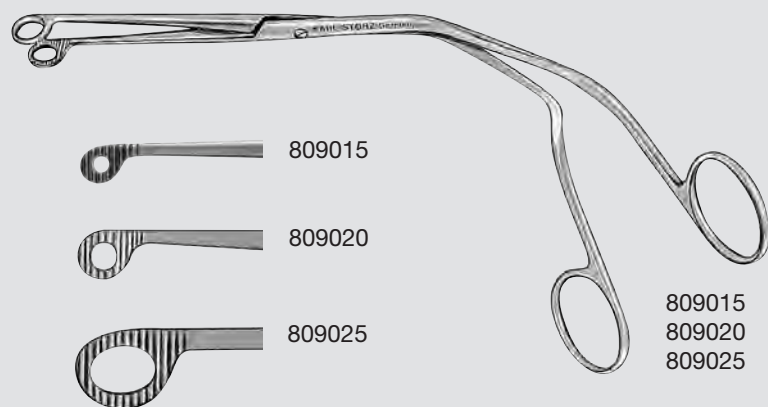


810810
810820
810840



810830

- 771506 **Larynx Cannula**, LUER-Lock, length 13 cm
- 810502 **Needle, Tonsil**, LUER-Lock, straight, long
- 810503 **Same**, 90° forward angle
- 810505 **Needle, Septum**, LUER-Lock, bayonet-shaped
- 810506 **Same**, angular
- 810802 **Cup Medicine**, 25 cm³, diameter 60 mm, height 28 mm
- 810805 **Cup Medicine**, 50 cm³, diameter 57 mm, height 47 mm
- 810806 **Cup Medicine**, 60 cm³, diameter 70 mm, height 33 mm
- 810810 **Cup Medicine**, 100 cm³, diameter 80 mm, height 30 mm
- 810820 **Cup Medicine**, 200 cm³, diameter 100 mm, height 50 mm
- 810830 **Cup Medicine**, 300 cm³, diameter 95 mm, height 65 mm
- 810840 **Cup Medicine**, 400 cm³, diameter 130 mm, height 65 mm



- 809015 **MAGILL Forceps**, for the introduction of endo-tracheal tubes, for infants and small children, length 15 cm
- 809020 **Same**, for children, length 20 cm
- 809025 **Same**, for adults, length 25 cm



810803



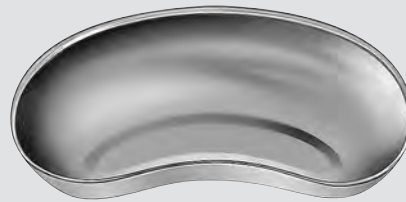
810850



815200 –
815213



815500



820517 –
820527

- 810803 **Cup Medicine**, stainless steel, diameter 65 mm, height 20 mm
- 810850 **Cup Medicine**, with handle, 350 cm³, diameter 70 mm, height 90 mm
- 815200 **Jar**, stainless steel, diameter 5 cm, height 17.5 cm
- 815213 **Same**, height 13 cm
- 815500 **Lamp, Alcohol**, glass, with lateral changing hole, 150 cm³
- 820517 **Kidney-Shaped Dressing Tray**, stainless steel, length 17 cm
- 820525 **Same**, length 25 cm
- 820527 **Same**, length 27.5 cm

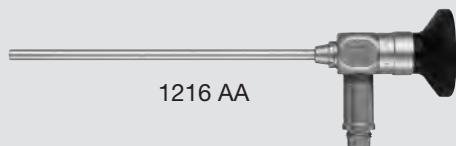
Special Features:

- Enables basic ENT examinations and function tests
- All instruments are stored in a special leather pouch



826201

826201 **ENT Diagnosis Set**, for outpatient basic ENT treatments including:
Leather Bag for ENT Diagnosis Set, with divided main compartment and 2 detachable side pockets
Nystagmus Spectacles, small model without illumination
LED Penlight, burning time approx. 50 hours in continuous operation with 2 Micro-AAA batteries (included)
Tuning Fork, A¹-440, with stand, small model
Tongue Depressor, wooden, width 19 mm, length 16 cm, package of 100



1216 AA



11301 D4



121300

1216 AA **HOPKINS® Straight Forward Telescope 0°**, for oto-nasopharyngoscopy, diameter 4 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

11301 D4 **Battery Light Source LED for Endoscopes**, with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, **suitable for wipe disinfection**, with 2 Photo Batteries 121306 P

121300 **HEINE Otoscope**, otoscope head with fiber optic light transmission incorporated including:
Ear Specula, outer diameter 2.5 – 5 mm
Battery Handle
2x 1.5 Volt Battery
Spare Lamp

Please note: Image for 826201 also contains optional accessories.

Components/Spare Parts see chapter 16

ENT Trolley for Visits



826101

826101

ENT Trolley for Visits, aluminium case, silver, weight: 5.5 kg, with spacious compartments for documents and notebook, inner dimensions (w x h x d): 420 x 360 x 190 mm

Recommended contents:

094120	LED Headlight , light model, with white light , rechargeable battery box on headband, illumination area adjustable from 10 – 100 mm in diameter with 40 cm working distance	403555	KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm
122003	HARTMANN Ear Speculum , standard model, outer diameter 3 mm, length 3.6 cm	423700	REUTER Epistaxis Balloon Catheter , sterile
2x 122004	Same , outer diameter 4 mm	10x 740000	BRÜNING'S Tongue Depressor , length 19 cm
3x 122005	Same , outer diameter 5 mm	4x 767901	Laryngeal Mirror , with handle, size 1
3x 122006	Same , outer diameter 6 mm	6x 767906	Same , size 6
122007	Same , outer diameter 7.5 mm	785005	BRÜNING'S Life-Saving Tube , outer diameter 5 mm, length 20 cm
150100	STACKE Ear Probe , silver, length 10.5 cm	785007	Same , outer diameter 7 mm
10x 151011	Cotton Applicator , standard model, triangular serrated, diameter 1.1 mm, working length 13 cm	791202	Scissors , curved, sharp/blunt, length 14.5 cm
2x 152301	Ear Hook , without ball end, size 1, length 15.5 cm	792402	Dressing Forceps , medium, length 14.5 cm
2x 152202	WAGENER Ear Hook , with ball end, size 2, length 15.5 cm	793402	Tissue Forceps , 1 x 2 teeth, medium, length 14.5 cm
2x 153001	WEBER-LOCH Ear Curette , size 1, length 14.5 cm	15006 B	"ULTRA STOP" Antifog Solution , 25 ml, pipette bottle
2x 153310	BUCK Ear Curette , blunt, size 0, length 14.5 cm	1216 AA	HOPKINS® Straight Forward Telescope 0° , for oto-nasopharyngoscopy, diameter 4 mm, length 11 cm, autoclavable , fiber optic light transmission incorporated, color code: green
2x 153301	Same , size 1	11301 D4	Battery Light Source LED for Endoscopes , with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, suitable for wipe disinfection , with 2 Photo Batteries 121306 P
5x 156000	LUCAE Ear Forceps , bayonet-shaped, length 14.5 cm		
162500	STRÜMPFEL Ear Forceps , working length 8 cm		
5x 400500	HARTMANN Nasal Speculum for adults, length 13 cm		
402000	HALLE-TIECK Nasal Speculum , for infants, length 13 cm		

Accessories for Oto-Rhino-Laryngoscopy

Antifog Solution



15006 B

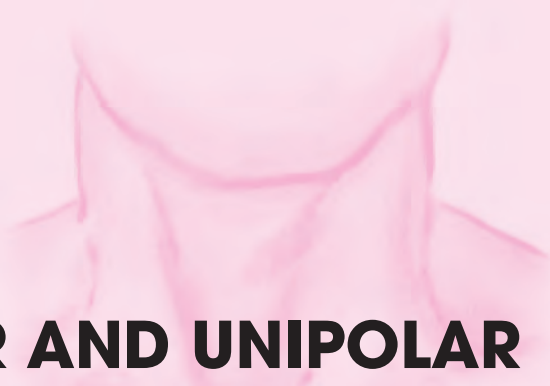


15006 C



15006 D

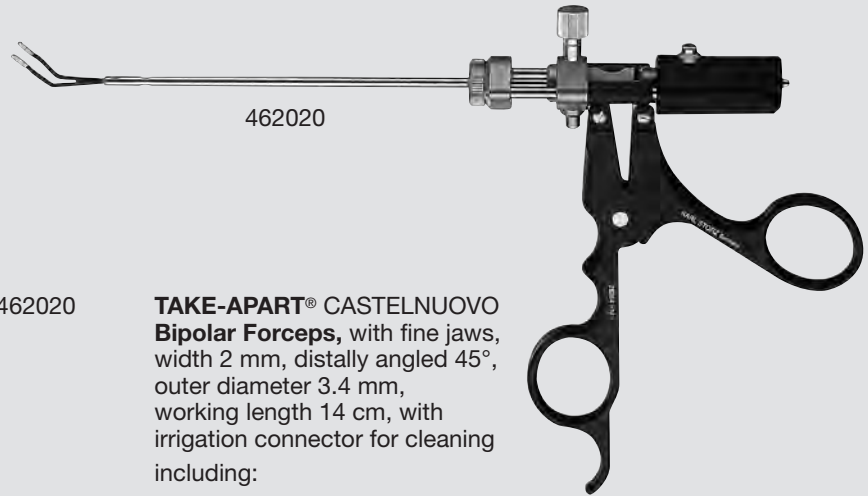
- | | |
|---------|---|
| 15006 B | “ULTRA STOP” Antifog Solution , 25 ml,
pipette bottle |
| 15006 C | “ULTRA STOP” Antifog Solution , 30 ml,
sterile, pierce bottle |
| 15006 D | “ULTRA STOP” Antifog Solution , 15 ml,
atomizer bottle |



**BIPOLAR AND UNIPOLAR
COAGULATION**

TAKE-APART® Bipolar Forceps

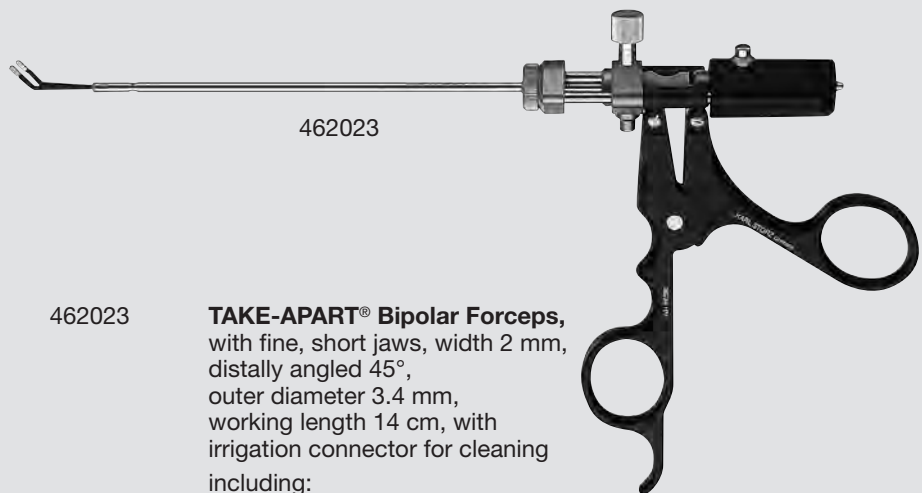
For use with Bipolar High Frequency Cords 26176 LE/LM/L/LA/LV



462020

TAKE-APART® CASTELNUOVO Bipolar Forceps, with fine jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**



462023

TAKE-APART® Bipolar Forceps, with fine, short jaws, width 2 mm, distally angled 45°, outer diameter 3.4 mm, working length 14 cm, with irrigation connector for cleaning including:

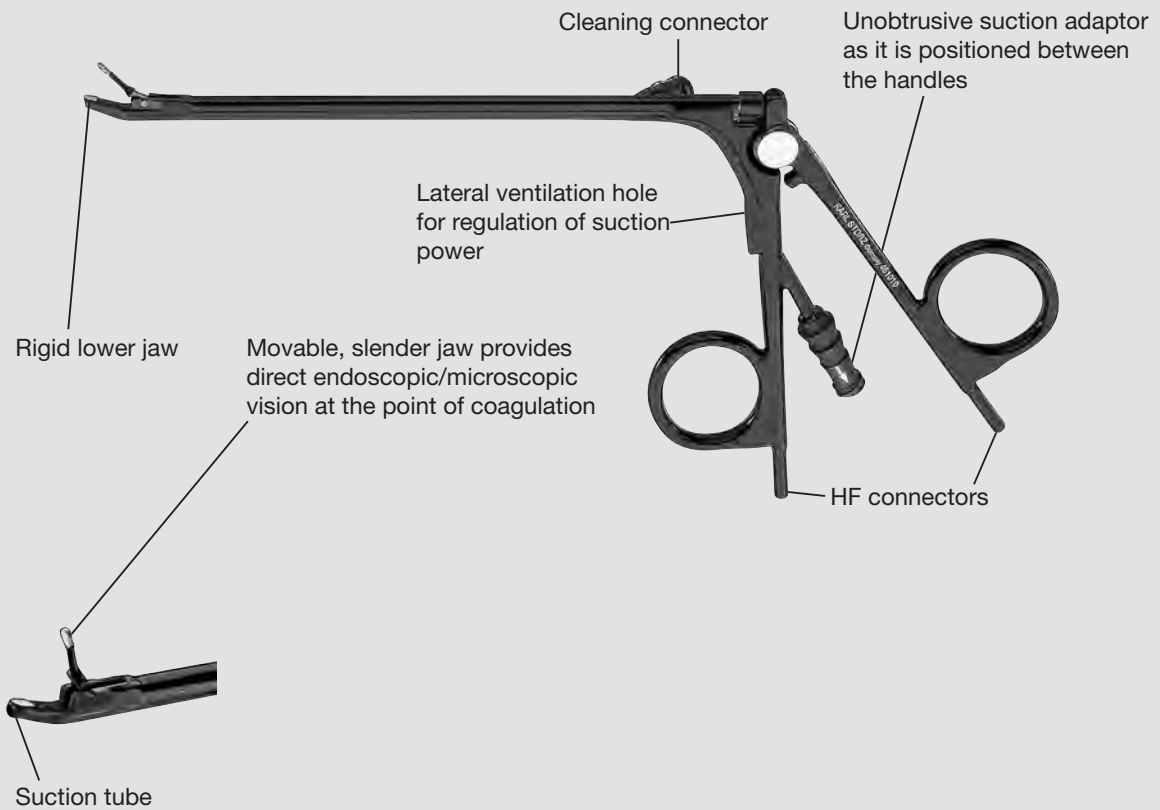
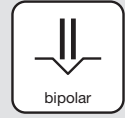
- Bipolar Ring Handle**
- Outer Sheath**
- Inner Sheath**
- Forceps Insert**

Components/Spare Parts see chapter 16

STAMMBERGER Bipolar Suction Forceps

Special Features:

- Design similar to standard paranasal grasping forceps
- Integrated suction channel
- Suction power regulation
- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied, enabling punctual and extensive coagulation
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation
- Two instrument heads: angled 15° and 45° to the instrument sheath
- Slim design enables good availability of previously hard to reach regions for cauterization



STAMMBERGER Bipolar Suction Forceps



Indications/Applications:

- Arterial bleeding (ethmoidal, sphenopalatine and maxillary arteries, turbinate and septum vessels)
- Skull base surgery
- Oozing hemorrhage from the mucosa edges
- Vascular processes, i.e. nasopharyngeal fibroma
- Epistaxis
- Secondary hemorrhage, i.e. from adenotomes in the nasopharynx
- Edema prevention, shrinkage of mucosa (for example, posterior end of the turbinate)
- Turbinate cauterization



461010



461010

STAMMBERGER **Bipolar Suction Forceps**, 15° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



461015



461015

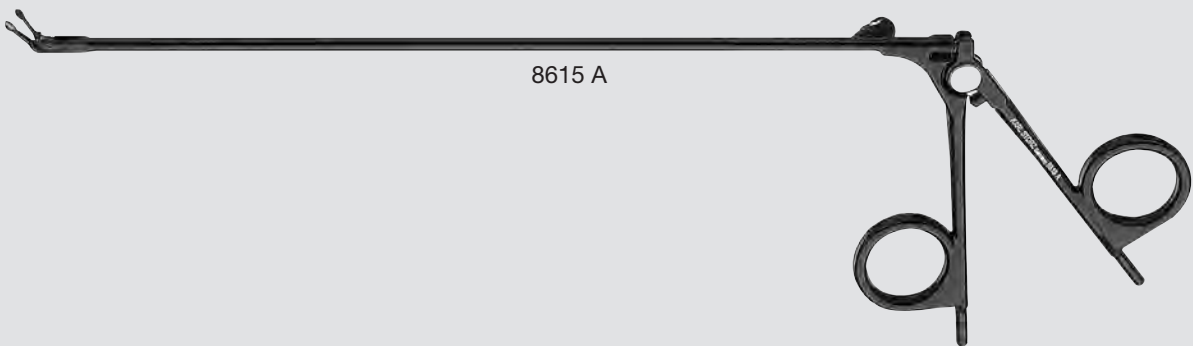
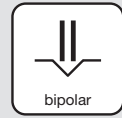
STAMMBERGER **Bipolar Suction Forceps**, 45° upturned, with suction channel, for bipolar coagulation in paranasal areas, working length 12.5 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see pages 426-428

Bipolar Forceps

Special Features:

- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied
- With and without suction
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation
- Slim design enables good availability of previously hard to reach regions for cauterization

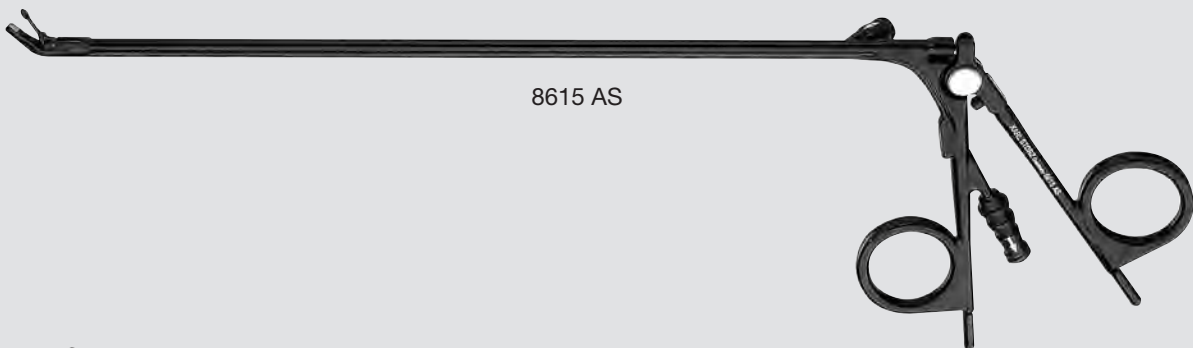


8615 A



8615 A

Bipolar Forceps, jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



8615 AS



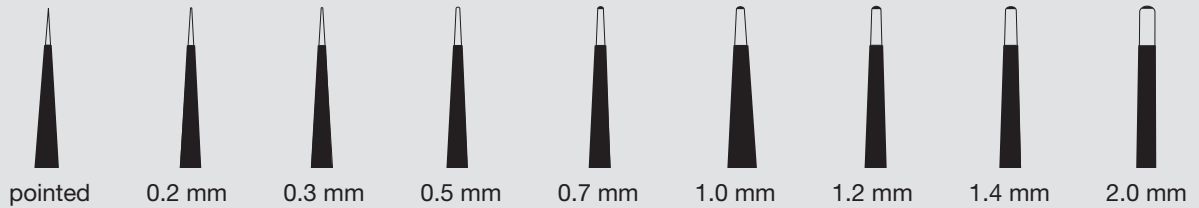
8615 AS

Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

Bipolar High Frequency Cords see pages 426-428

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V














	841116	Bipolar Coagulation Forceps, insulated, straight, pointed, length 16 cm
	841216	Same, blunt, tip 1 mm, length 16 cm
	841216 G	Same, blunt, with silver tip, tip 1 mm
	841219	Same, blunt, tip 1 mm, length 19 cm
	841219 G	Same, blunt, with silver tip, tip 1 mm, length 19 cm
	842016	Bipolar Coagulation Forceps, insulated, angled tip, very delicate, tip 0.5 mm, length 16 cm
	842116	Bipolar Coagulation Forceps, insulated, angled tip, tip 0.5 mm, length 16 cm
	842216	Bipolar Coagulation Forceps, insulated, angled tip, blunt, tip 1 mm, length 16 cm
	842216 G	Same, with silver tip
	842219	Same, blunt, tip 2 mm, length 19 cm
	842219 G	Same, blunt, with silver tip, tip 2 mm, length 19 cm
	842319	Same, length 19 cm
	842319 G	Same, with silver tip, length 19 cm

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V













- | | | |
|---|----------|---|
|  | 843016 | Bipolar Coagulation Forceps,
insulated, angular, very delicate,
tip 0.2 mm, length 16 cm |
|  | 843016 F | Same, grip insulated, front
part not insulated, pointed |
|  | 843116 | Bipolar Coagulation Forceps,
insulated, angular, pointed,
length 16 cm |
|  | 843219 | Bipolar Coagulation Forceps,
insulated, angular, blunt, with
integrated suction channel for
epistaxis, with cut-off hole,
length 19 cm |
|  | 844116 | Bipolar Coagulation Forceps,
insulated, bayonet-shaped, pointed,
length 16 cm |
|  | 844216 | Same, blunt, tip 1 mm |
|  | 844216 G | Same, blunt, with silver tip,
tip 1 mm |
|  | 844119 | Same, blunt, tip 2 mm,
length 19 cm |
|  | 844219 | Same, blunt, tip 1 mm,
length 19 cm |
|  | 844219 G | Same, blunt, with silver tip,
tip 1 mm, length 19 cm |
|  | 844319 | Same, slender, tip 0.5 mm,
length 19 cm |

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



- | | | |
|---|----------|--|
|  | 844320 | Bipolar Coagulation Forceps, insulated, bayonet-shaped, blunt, with integrated suction channel and cut-off hole, tip 1.4 mm, length 20 cm |
|  | 844321 | Same, tip 2 mm, length 20 cm |
|  | 844421 | Bipolar Coagulation Forceps, insulated, bayonet-shaped, tip 0.3 mm, length 21 cm |
|  | 844423 | Same, length 23 cm |
|  | 844521 | Same, blunt, tip 0.7 mm, length 21 cm |
|  | 844523 | Same, tip 0.7 mm, length 23 cm |
|  | 844621 | Same, blunt, tip 1 mm, length 21 cm |
|  | 844623 | Same, blunt, tip 1.2 mm, length 23 cm |
|  | 844721 | Same, blunt, tip 2 mm, length 21 cm |
|  | 845219 | Bipolar Coagulation Forceps, insulated, angled tip, bayonet-shaped, blunt, tip 2 mm, length 19 cm |
| | 845219 G | Same, with silver tip |

Bipolar Coagulation Forceps

Bipolar Coagulation Forceps, insulated
for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



845518

Bipolar Coagulation Forceps, insulated, for nasopharynx, tip curved 60°, blunt, tip 2 mm, length 18 cm



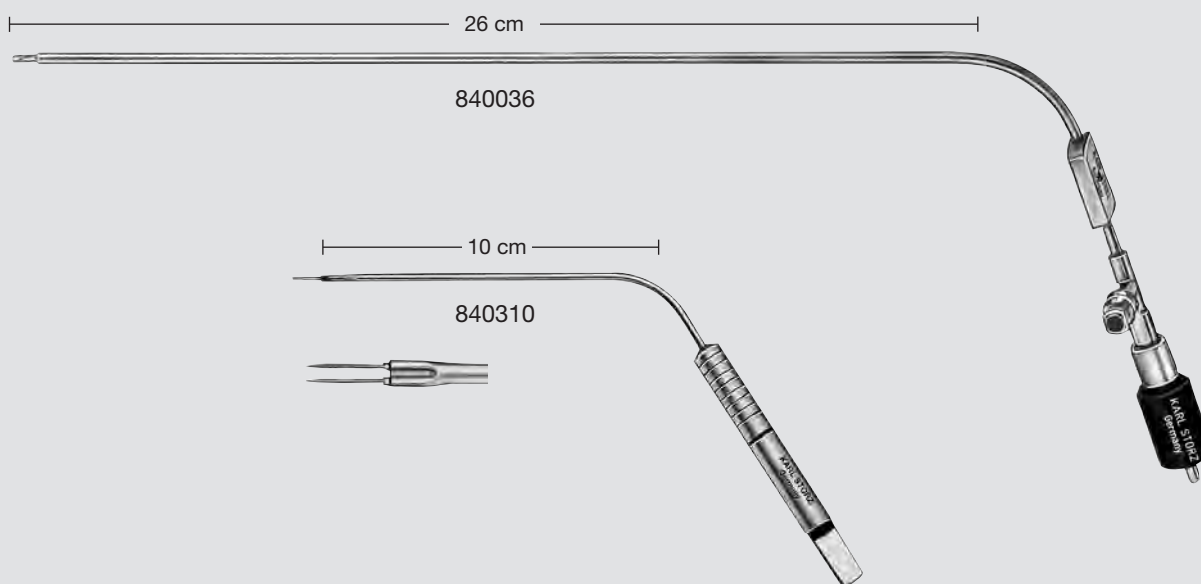
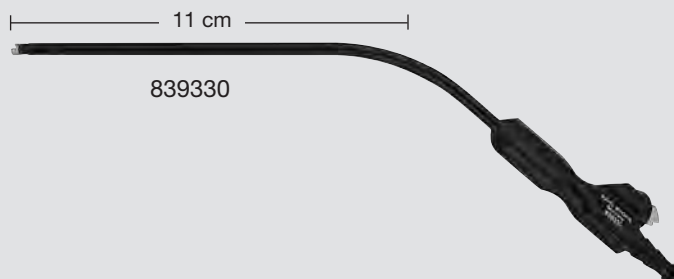
845721

Bipolar Coagulation Forceps, insulated, for nasopharynx and adenoidectomy, tip with long 90° curve, with integrated suction channel, with cut-off hole, length 21 cm

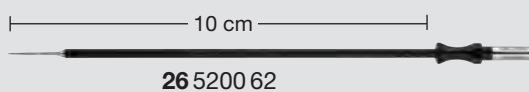
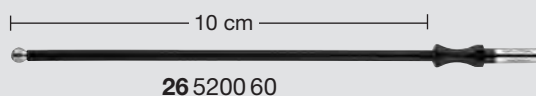
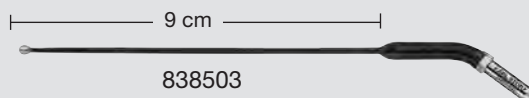
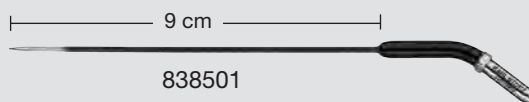
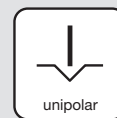


845821

Bipolar Coagulation Forceps, insulated, for oral cavity and tonsillectomy, tip with short 45° curve, with integrated suction channel, with cut-off hole, length 21 cm

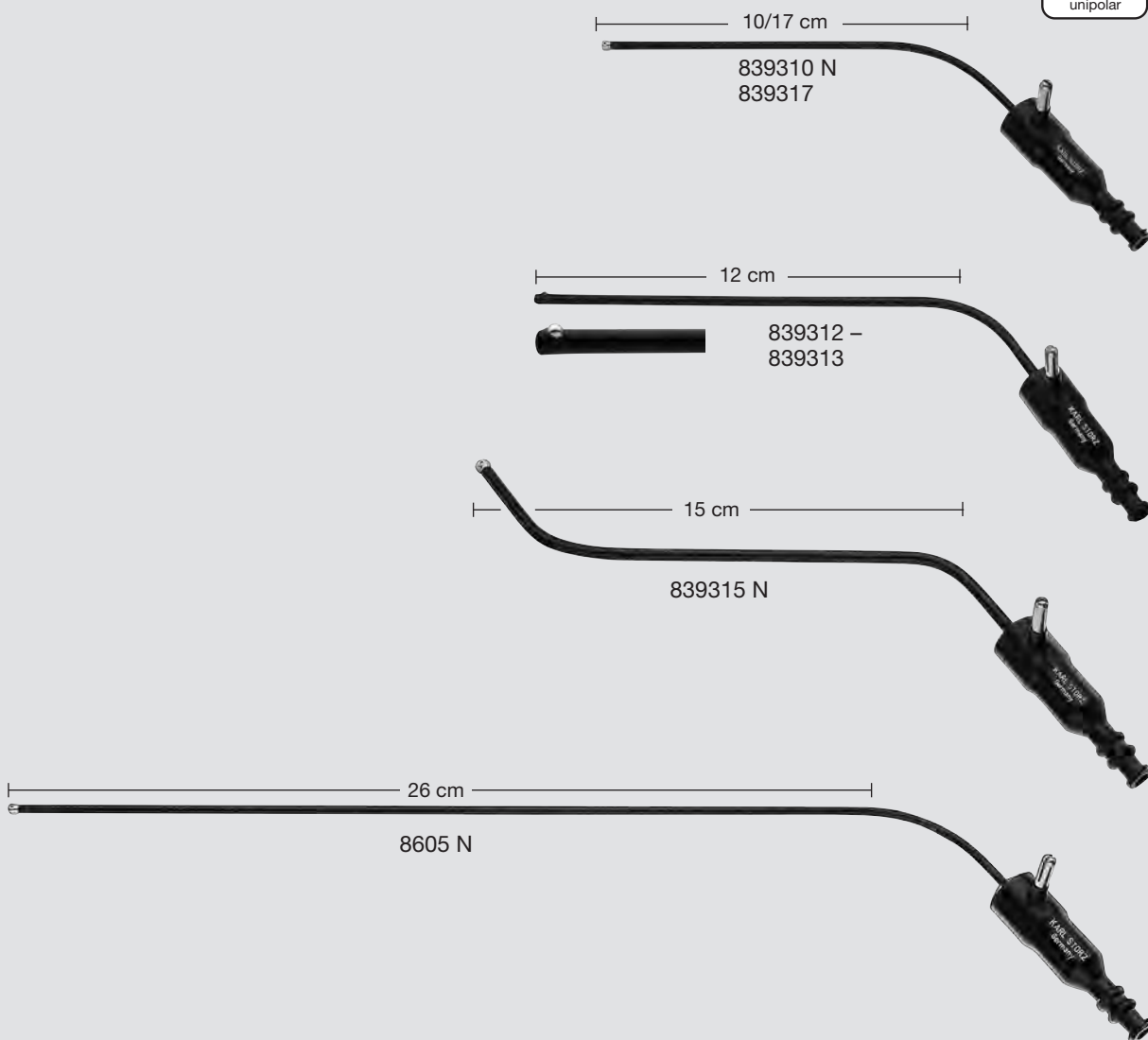


- NEW** 839330 **BRINER Bipolar Suction Cannula**, angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm, working length 11 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
- 840036 **Bipolar Coagulation Electrode**, straight, with suction channel, for laryngoscopy, working length 26 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 26176 LV
- 840310 **Bipolar Needle**, for submucosa coagulation of the inferior turbinate, pointed, angular, working length 10 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V



- 838501 **Needle Electrode**, for sub mucosa diathermy of the inferior turbinate, working length 9 cm
- 838503 **Ball Electrode**, for epistaxis, working length 9 cm
- 26 5200 60 **Ball Electrode**, straight, diameter 4 mm, working length 10 cm
- 26 5200 62 **Needle Electrode**, straight, working length 10 cm
- 26 5200 46 **Electrode Handle**, without buttons, with integrated connecting cable, length 300 cm

Unipolar Coagulation



- 839310 N **Suction Cannula**, for nose, straight, outer diameter 3 mm, working length 10 cm
- 839312 **SIMMEN Suction Cannula**, for nose and epistaxis, angular, insulated, malleable, distal with not insulated horn, outer diameter 3.5 mm, working length 12 cm, for use with Unipolar High Frequency Cords 26005 M/MW, 26004 M/MW, 26002 M, 26006 M
- 839312 A **Same**, outer diameter 4 mm
- 839313 **Same**, outer diameter 4.5 mm
- 839315 N **Suction Cannula**, for nasopharynx, curved upwards, malleable, outer diameter 4 mm, working length 15 cm
- 839317 **Coagulation Suction Tube**, angular, outer diameter 3 mm, working length 17 cm
- 8605 N **KLEINSASSER Suction and Coagulation Cannula**, outer diameter 3 mm, working length 26 cm

8-11



■ HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 400 SCB

AUTOCON® 200

AUTOCON® 50

AUTOCON® II 400 SCB, AUTOCON® 200/50

Special Features

Special Features:	AUTOCON® II 400 SCB	AUTOCON® 200	AUTOCON® 50
Degree of coagulation (effect) can be preselected in several steps: The degree of coagulation measures extent of coagulation depth	●	●	●
Soft coagulation and/or standard coagulation: coagulation with unmodulated HF voltage ($U_p < 200$ V)	●	●	●
Forced coagulation: coagulation with modulated HF voltage ($U_p > 500$ V); to reach deeper coagulation zones, electric arcs are generated between the active coagulation electrode and the tissue. Damage to deeper layers of tissue has to be accepted.	●	●	●
Autostart function: manual adjustment of operating time limit for bipolar coagulation	●	-	-
Voltage-regulated cutting	●	●	●
Service port for software updates and HF functionality upgrades	●	-	-
Separate papillo-cut and gastro-cut functions enable fractionated cutting with regulated HF current at different cutting speeds for flexible endoscopy	●	-	-
Autostart function for bipolar coagulation: Automatic activation of coagulation current as soon as coagulation electrode touches tissue with both branches	●	●	-
Activation of HF functions possible via footswitch or manual control switch	●	●	●
Bipolar resection with KARL STORZ bipolar electrotomes	●	-	-
Bipolar application with NaCl irrigation solution	●	-	-
Connecting sockets for unipolar and bipolar applications can be selected according to individual requirements	●	-	-
100 applications with text can be stored	●	-	-
Convenient use via 6.5" Touch Screen	●	-	-
Switchover function enables switching between two modes within a user program via a footswitch from the sterile area	●	-	-
Compatible with KARL STORZ Communication Bus (KARL STORZ-SCB)	●	-	-
Interdisciplinary use	●	-	-
Spray coagulation: Coagulation with modulated HF voltage ($U_p > 500$ V); very long arcs enable coagulation of large and bleeding areas of tissue without contact to tissue	●	-	-
Arc-controlled cutting, unipolar	●	-	-

AUTOCON® II 400 SCB

Specifications

HF-Modes	Effects	P max. at 500 Ohm	V _p max. at 500 Ohm	Crest-Factor	Arc Control	Voltage Control
Unipolar						
TOP-Cut	8	300	950	1.4	●	–
POWER-Cut	8	300	740	1.4	–	●
C-Cut	8	200	1450	3.0	–	●
LAP-C-Cut	8	200	1450	3.0 – 3.8	–	●
Gastro-Cut	4	200	880	1.4	–	●
Papillo-Cut	4	200	880	1.4	–	●
Standard Coag	8	200 (at 50 Ohm)	190	1.4	–	●
Forced Coag	4	120	1800	6.0	–	●
Spray Coag	2	120	4300	7.4	–	●

Bipolar

Bipolar-Cut	8	100	740	1.4	–	●
Saline-C-Cut	8	370	770	1.4	–	●
Saline-Time-C-Cut	8 time 0.1-1 sec.	370	770	1.4	–	●
Saline Coag	8	200 (at 50 Ohm)	190	1.4	–	●
Saline-Time-Coag	8 time 0.1-1 sec.	200 (at 50 Ohm)	190	1.4	–	●
Bipolar Soft Coag	8	120 (at 75 Ohm)	190	1.4	–	●
Bipolar Soft with Auto-Stop	8	120 (at 75 Ohm)	190	1.4	–	●
Bi-Vascular-Safe	8	120 (at 75 Ohm)	190	1.4	–	●

Specifications:

Safety Systems	<ul style="list-style-type: none"> - Automatic Self-Test - Maldosage - Neutral Electrode Safety System (dynamic, two-part, one- and two-part NE) - LF/HF Leakage Current Monitor - Activation Time - Deactivable HF 	Power Supply	20 5352 20-11x: 230 VAC, 50/60 Hz 20 5352 20U11x: 115 VAC, 50/60 Hz
		Dimensions w x h x d	448 x 164 x 345 mm
		Weight	10 kg
		Certified to	IEC 601-1, CE acc. to MDD

AUTOCON® II SCB 400

High Frequency Surgery Unit,
Recommended System Configurations



AUTOCON® II 400 SCB,
power supply 220 – 240 VAC, 50/60 Hz
including:
Mains Cord
SCB Connecting Cable, length 100 cm

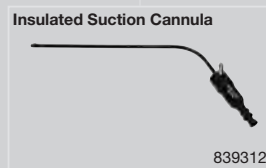
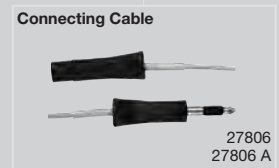
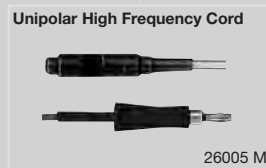
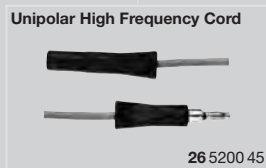
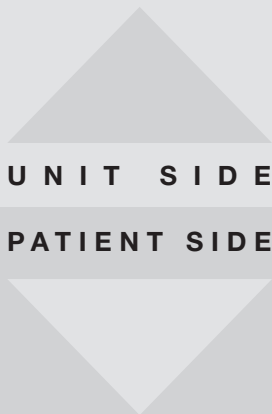
AUTOCON® II 400 SCB, Set	AUTOCON® II 400 SCB	Socket Position			
		1	2	3	4
Standard					
20 5352 01-111	20 5352 20-111	Bipolar 	Bipolar 	Unipolar 3-pin and Erbe 	Neutral Electr. 6.3 mm jack
20 5352 01-112	20 5352 20-112	Bipolar US-2-pin 	Bipolar US-2-pin 	Unipolar 3-pin and Bovie 	Neutral Electr. 2-pin
Bipolar					
20 5352 01-113	20 5352 20-113	Bipolar 	Bipolar 	Bipolar Multifunction 	Blind Socket
20 5352 01-114	20 5352 20-114	Bipolar US-2-pin 	Bipolar US-2-pin 	Bipolar Multifunction 	Blind Socket
High-End					
20 5352 01-115	20 5352 20-115	Bipolar 	Bipolar Multifunction 	Unipolar 3-pin and Erbe 	Neutral Electr. 6.3 mm jack
20 5352 01-116	20 5352 20-116	Bipolar US-2-pin 	Bipolar Multifunction 	Unipolar 3-pin and Bovie 	Neutral Electr. 2-pin

Optional Accessories for AUTOCON® II 400 SCB see page 424

Components/Spare Parts see chapter 16

AUTOCON® II 400 SCB

System Components



11-051

AUTOCON® 200

High Frequency Surgery Unit,
Recommended System Configurations



20 5225 01 **AUTOCON® 200**, power supply
200 – 240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

205225 01-010 **AUTOCON® 200**,
with ENDOCUT function,
power supply 200 – 240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

20 5225 01 C **AUTOCON® 200**, power supply
100 – 120 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

205225 01 C 010 **AUTOCON® 200**,
with ENDOCUT function,
power supply 100 – 120 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output,
diameter 4/5 mm

Specifications:

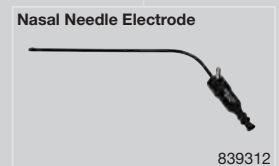
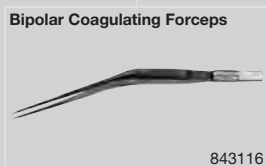
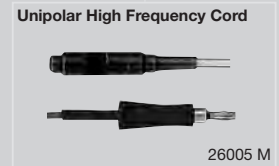
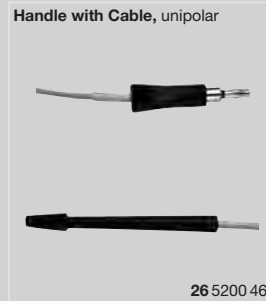
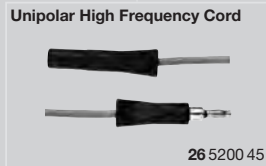
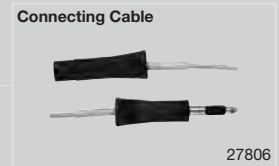
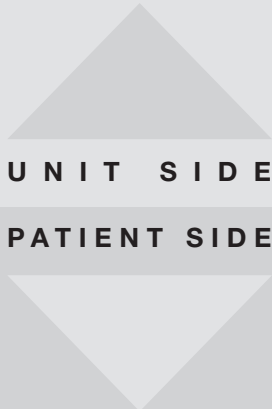
HF Rated Power	<ul style="list-style-type: none"> - Cutting unipolar: 200 Watt/500 Ohm - Coagulation unipolar soft: 120 Watt/125 Ohm unipolar standard: 120 Watt/350 Ohm bipolar: 120 Watt/125 Ohm
Max. Voltage	<ul style="list-style-type: none"> - Cutting unipolar: Vp=600 Volt - Coagulation unipolar soft: Vp=190 Volt unipolar standard: Vp=1300 Volt bipolar: Vp=190 Volt
Output Control	<ul style="list-style-type: none"> - Cutting unipolar: automatic voltage control - Coagulation unipolar soft: automatic voltage control unipolar standard: pulse modulation bipolar: automatic voltage control

Degree of Coagulation	Cutting 4 steps
Autostart	Coagulation bipolar
Autostop	Coagulation unipolar soft
Safety Systems	<ul style="list-style-type: none"> - permanent power control - maldosage - neutral electrode, safety system - automatic self-test
Power Supply	100-120 VAC or 200-240 VAC, 50/60 Hz
Dimensions w x h x d	305 x 164 x 345 mm
Weight	7.7 kg
Certified to	IEC 601-1, CE acc. to MDD

Optional Accessories for AUTOCON® 200 see page 424

Components/Spare Parts see chapter 16

AUTOCON® 200
System Components



11-051

AUTOCON® 50

High Frequency Surgery Unit,
Recommended System Configuration



20 5205 01 **AUTOCON® 50**, power supply 100/120/230/240 VAC, 50/60 Hz
including:
Mains Cord
Adaptor, for unipolar HF output, diameter 4/5 mm

Specifications:

HF Rated Power	<ul style="list-style-type: none"> - Cutting unipolar: 50 Watt/500 Ohm - Coagulation unipolar soft: 50 Watt/200 Ohm unipolar standard: 50 Watt/500 Ohm bipolar: 50 Watt/200 Ohm 	Degree of Coagulation	Cutting 2 steps
Max. Voltage	<ul style="list-style-type: none"> - Cutting unipolar: Vp=600 Volt - Coagulation unipolar soft: Vp=190 Volt unipolar standard: Vp=900 Volt bipolar: Vp=190 Volt 	Autostop	Coagulation unipolar soft
Output Control	<ul style="list-style-type: none"> - Cutting unipolar: automatic voltage control - Coagulation unipolar soft: automatic voltage control unipolar standard: pulse modulation bipolar: automatic voltage control 	Safety Systems	<ul style="list-style-type: none"> - maldosage - neutral electrode, safety system - automatic self-test
		Power Supply	100/120/230/240 VAC, 50/60 Hz
		Dimensions w x h x d	305 x 110 x 260 mm
		Weight	4.6 kg
		Certified to	IEC 601-1, CE acc. to MDD

Optional Accessories for AUTOCON® 50 see page 424

Components/Spare Parts see chapter 16

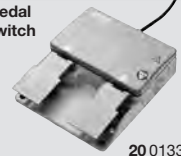
AUTOCON® 50
System Components

One-Pedal Footswitch



20013130

Two-Pedal Footswitch



20013330

UNIT SIDE

PATIENT SIDE



Connecting Cable



27806

Neutral Electrode



860021 E

Bipolar High Frequency Cord



847002 E

Bipolar High Frequency Cord



847000 E

Handle with Cable, unipolar



26 5200 46

Unipolar High Frequency Cord



26005 M

Bipolar Suction Forceps



461010

Bipolar Coagulating Forceps



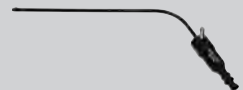
841116

Knife Electrode



26 5200 36

Nasal Needle Electrode



839312

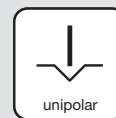
Optional Accessories

for AUTOCON® II 400 SCB and AUTOCON® 200/50

			for use with		
			AUTOCON® II 400 SCB	AUTOCON® 200	AUTOCON® 50
	20017831	Three-Pedal Footswitch , with switch function for switching between mode levels A and B, for use with AUTOCON® II 400 SCB	●	-	-
	20017830	Two-Pedal Footswitch , for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	-	-
	20017832	One-Pedal Footswitch , for activating coagulation, for use with AUTOCON® II 400 SCB and AUTOCON® II 200	●	-	-
	20013330	Two-Pedal Footswitch , for controlling the coagulation and cutting function	-	●	●
	20013130	One-Pedal Footswitch , for controlling the coagulation function	-	●	●
	27805	Neutral Electrode , of conductive silicone with 2 rubber ties for fastening, contact surface A = 500 cm ² , for use with Connecting Cable 27806	●	●	●
	860021 E	Neutral Electrode , of conductive silicone, with 1 rubber tie for fastening, contact surface A = 187 cm ² , for use with Connecting Cable 27806	-	●	●
	27806	Neutral Electrode Connecting Cable , for Neutral Electrodes 27805 and 860021 E, length 400 cm	-111 -115	●	●
	27806 UR	Neutral Electrode Connecting Cable , for Neutral Electrode 27805	-112 -116	-	-
	27806 US	Neutral Electrode Connecting Cable , for Neutral Electrode 27802	-112 -116	-	-
	27802	Neutral Electrode , for single use, contact surface divided into two, A = 169 cm ² , package of 50, Connecting Cable 27801 required	●	●	●
	27801	Connecting Cable , for connecting Neutral Electrode 27802, length 500 cm	-111 -115	●	●
	26520043	Electrode Handle , with 2 buttons for activating the unipolar generator, yellow button: unipolar cutting, blue button: unipolar coagulation (Cable 26520045 required)	●	●	●
	26520045	High Frequency Cable , for Electrode Handle 26520043, length 400 cm	-111 -115	●	●
	26520046	Electrode Handle , without buttons, with integrated connecting cable, length 300 cm	-111 -115	●	●

Surgery Set

Accessories



20 5300 08

Surgery Electrodes Set
including:

**Container with Lid and
Sterilization Insert, for
16 electrodes with diameter 4 mm**



Wire Snare, 5 mm



Same, 10 mm



Ribbon Snare, 10 mm



**KIRSCHNER Spatula Electrode,
straight**



**MAGENAU Knife Electrode,
angled downwards**



Same, lancet-shaped



Ball Electrode, 2 mm



Same, 4 mm



Same, 6 mm



Needle Electrode



Flat Electrode, 8 x 10 mm



Same, 10 x 15 mm

6-95z

**For use with Electrode Handles 26 5200 43 and 26 5200 46
Components/Spare Parts see chapter 16**




Accessories

Unipolar and Bipolar High Frequency Cords

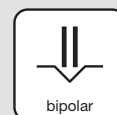
Unipolar High Frequency Cords








KARL STORZ High Frequency
Instrument Surgery Unit

	26002 M	Unipolar High Frequency Cord , with 4 mm plug for models KARL STORZ, Erbe type T, older models and Ellman, length 300 cm
	26004 M	Unipolar High Frequency Cord , with 4 mm plug for models Berchtold and Martin, length 300 cm
	26005 M	Unipolar High Frequency Cord , with 5 mm plug, length 300 cm, for AUTOCON® II 400 SCB system (111, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ AUTOCON® system (50, 200, 350) and Erbe type ICC
	26006 M	Unipolar High Frequency Cord , with 8 mm plug for models KARL STORZ AUTOCON® II 400 SCB system (112, 116) and Valleylab, length 300 cm

Bipolar High Frequency Cords



KARL STORZ High Frequency
Instrument Surgery Unit

	26176 LE	Bipolar High Frequency Cord , for AUTOCON® II 400 SCB system (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), Erbe-Coagulator, T and ICC series, length 300 cm
	26176 LM	Bipolar High Frequency Cord , for Martin and Berchtold coagulators, length 300 cm
	26176 L	Bipolar High Frequency Cord , with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Ellman, length 300 cm
	26176 LA	Bipolar High Frequency Cord , with 2 x 4 mm banana plug for KARL STORZ Coagulator 26020 XA/XB and Valleylab, length 300 cm
	26176 LV	Bipolar High Frequency Cord , for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116, 122, 125) and Valleylab coagulators, length 300 cm

Please note: All high frequency cords of this page are delivered with a length of 300 cm. If a length of 500 cm is requested please add letter **L** to the part number, e. g. 26002 **ML**, 26176 **LVL**.






Accessories

High Frequency Cords
for use with Bipolar Coagulation Instruments

Bipolar High Frequency Cords

KARL STORZ Instrument High Frequency Surgery Unit



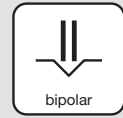
	<p>847000 E Bipolar High Frequency Cord, length 300 cm, for AUTOCON® II 400 SCB systems (111, 113, 115, 122, 125), AUTOCON® II 200, AUTOCON® II 80, KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® systems (50, 200, 350), Erbe-Coagulator, T and ICC series and KARL STORZ bipolar coagulation forceps</p>
	<p>847000 Bipolar High Frequency Cord, with 2x 4 mm banana plug to KARL STORZ Coagulator 26020 XA/XB for KARL STORZ bipolar coagulation forceps, length 300 cm</p>
	<p>847000 A Bipolar High Frequency Cord, length 300 cm, for KARL STORZ Coagulator 260020 XA/XB, Bircher, Bovie, Keymend, Mallis, Valleylab, Neomed, Bard and KARL STORZ bipolar coagulation forceps</p>
	<p>847000 M Bipolar High Frequency Cord, length 300 cm, for KARL STORZ AUTOCON® systems (50, 200, 400), for Martin and Berchtold coagulators, Aesculap coagulator (latest version) and KARL STORZ bipolar coagulation forceps</p>
	<p>847000 V Bipolar High Frequency Cord, length 300 cm, for KARL STORZ AUTOCON® II 400 SCB systems (112, 114, 116, 122, 125), Valleylab coagulators and KARL STORZ bipolar coagulation forceps</p>

Please note:

All high frequency cords on this page are delivered with a length of 300 cm only.

Accessories

High Frequency Cords
for use with Bipolar Forceps



Bipolar High Frequency Cords

KARL STORZ Instrument High Frequency Surgery Unit

	<p>847002 E Bipolar High Frequency Cord, for KARL STORZ Coagulator 26021 B/C/D, 860021 B/C/D, 27810 B/C/D, 28810 B/C/D, AUTOCON® system (50, 200, 350), AUTOCON® II 400 SCB system (111, 113, 115) and Erbe coagulator, T and ICC series, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p>
	<p>847002 M Bipolar High Frequency Cord, for Martin and Berchtold coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p>
	<p>847002 A Bipolar High Frequency Cord, with 2x 4 mm banana plug for KARL STORZ coagulator 26020 XA/XB, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p>
	<p>847002 V Bipolar High Frequency Cord, for KARL STORZ AUTOCON® II 400 SCB system (112, 114, 116), Valleylab coagulator, with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, length 450 cm</p>

KARL STORZ Instrument Standard Forceps Bipolar Cords

	<p>847002 U Bipolar Universal High Frequency Cord, one side with two 2 mm cable sockets for KARL STORZ Bipolar Suction Forceps 461010, 461015 and Bipolar Forceps 8615 A/AS, 28164 BGK, other side with standard pin for connection to all current forceps bipolar cords, length 40 cm</p>
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for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V see page 427

High Frequency Surgery Units see pages 415-424



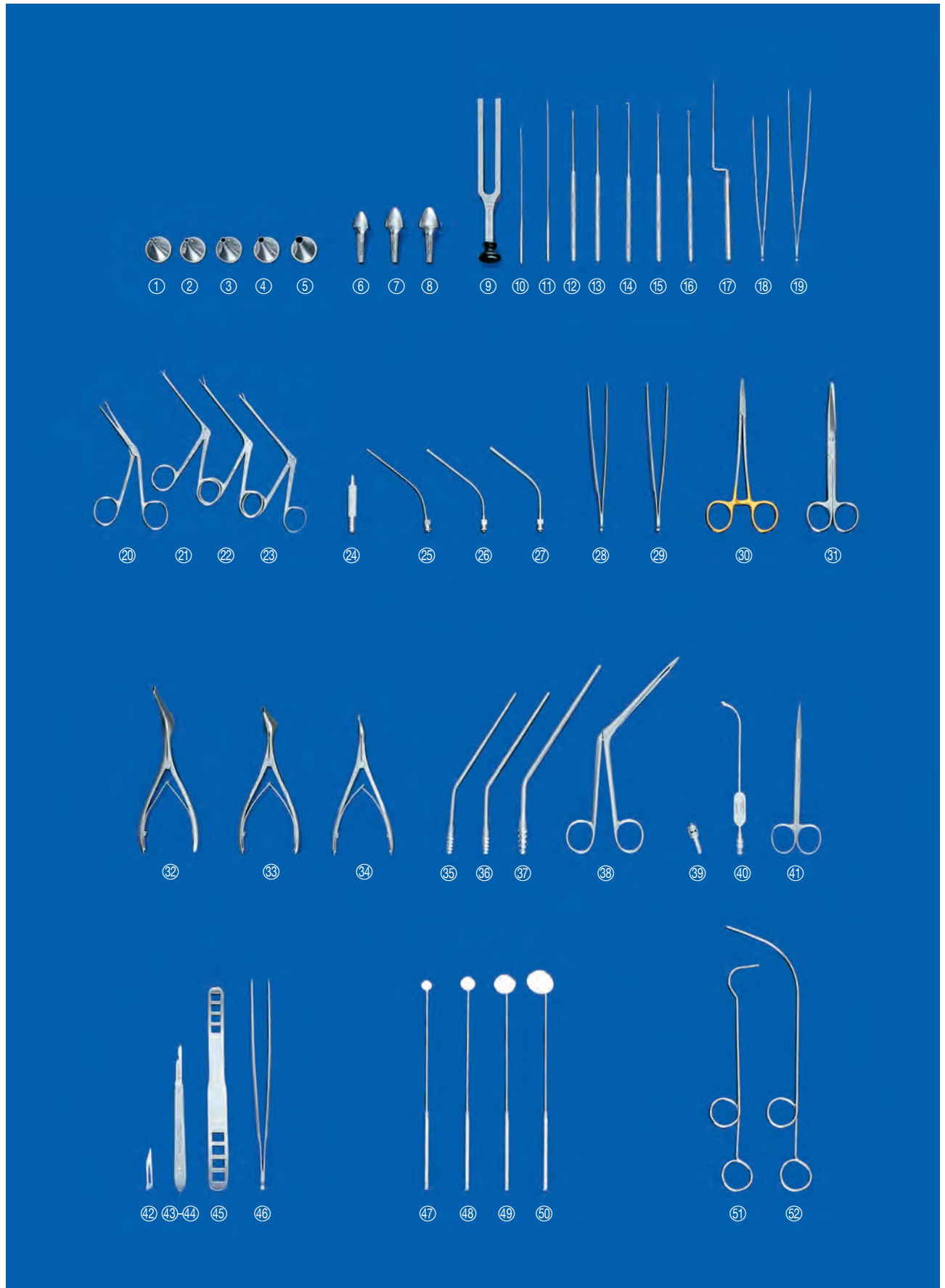
RECOMMENDED SETS FOR ENT

ENT Basic Set I, Endoscopes and Illumination



- ① 310010 **Headlight**, light model, illuminated area 20 – 80 mm in diameter with 35 cm working distance, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the cold light source
including:
Headband
Clip with Band
- ② 1215 AA **Tele-Otoscope with HOPKINS® Straight Forward Telescope 0°**, diameter 4 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ③ 7230 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ④ 8707 DA **Tele-Laryngo-Pharyngoscope**, with integrated HOPKINS® lateral telescope 90°, 4x magnification focusing device, diameter 10 mm, length 15 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue
- ⑤ 11101 CMM **CMOS Video-Rhino-Laryngoscope with Monitor**,
Direction of view: 0°
Angle of view: 85°
Working length: 30 cm
Outer diameter: 3.7 mm
Deflection up/down: 140°/140°
Following accessories included:
11101 CMK **CMOS Video Rhino-Laryngoscope KIT**
8402 ZX **Monitor for CMOS Endoscopes**
- ⑥ 495 NL **Fiber Optic Light Cable**, diameter 3.5 mm, length 180 cm
- ⑦ 202901 32 **C-CAM® Camera Head, 8-pin**, one-chip CMOS camera head, resolution 640 x 480, focal length f = 20 mm, compatible with 8402 ZX
- ⑧ 202901 01 **C-HUB® Camera Control Unit**, for use with C-CAM® 202901 32, Electronic Module 8402 X or compatible CMOS video endoscopes, Interfaces: USB 2.0, S-Video output (NTSC), power socket
including:
C-HUB® Power Supply
S-Video (Y/C) Connecting Cable
USB Connecting Cable
- ⑨ 201611 01 **Cold Light Fountain LED NOVA 100 twin**, with two LED lamps and two light outlets, power supply 110 – 240 VAC, 50/60 Hz
including:
Mains Cord

ENT Basic Set II, Instrument Set



ENT Basic Set II, Instrument Set

①	2x	122003	HARTMANN Ear Specula , outer diameter 3 mm
②	5x	122004	Same , outer diameter 4 mm
③	10x	122005	Same , outer diameter 5 mm
④	10x	122006	Same , outer diameter 6 mm
⑤	2x	122007	Same , outer diameter 7.5 mm
⑥		142418	Nasal Tip , metal, size 18 mm
⑦		142420	Same , size 20 mm
⑧		142422	Same , size 22 mm
		142000	POLITZER Air Bag (not illustrated)
⑨		126000	Tuning Fork , A ¹ -440 with stand
⑩	10x	151011	Cotton Applicators , diameter 1.1 mm, working length 13 cm
⑪	5x	417013	Same , diameter 1.3 mm, length 15 cm
⑫		152600	ZAUFAL Curved Spatula , length 14.5 cm
⑬	5x	152301	Ear Hooks , without ball end, size 1, length 15.5 cm
⑭	2x	152202	WAGENER Ear Hooks , with ball end, size 2, length 15.5 cm
⑮	2x	153310	BUCK Ear Curettes , blunt, size 0, length 14.5 cm
⑯	2x	153301	Same , size 1
⑰		155200	Ear Knife , screw handle, bayonet-shaped, working length 8 cm
⑱	10x	156000	LUCAE Ear Forceps , length 14.5 cm
⑲	5x	426516	JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm
⑳		158800	HARTMANN Ear Dressing Forceps , extra delicate, working length 6 cm
㉑		221100	HARTMANN Ear Forceps , extra delicate, serrated, working length 8 cm
㉒		161000	HARTMANN Ear Forceps , serrated, working length 8 cm
㉓		162500	STRÜMPEL Ear Forceps , working length 8 cm
㉔	2x	204200	FISCH Adaptors , for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER-cone, length 5.5 cm
㉕	3x	204315	Suction Tubes , straight, LUER-Lock, flexible, outer diameter 1.5 mm, length 10 cm
㉖	6x	204320	Same , outer diameter 2 mm
㉗	3x	204325	Same , outer diameter 2.5 mm
㉘		792401	Dressing Forceps , length 14.5 cm
㉙		793401	Tissue Forceps , 1 x 2 teeth, standard width, length 14.5 cm
㉚		516015	Needle Holder , tungsten carbide inserts, length 15 cm
㉛		790802	Scissors , straight, sharp/blunt, length 14.5 cm
㉜		403575	KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 75 mm, length 13.5 cm
㉝	20x	400500	HARTMANN Nasal Speculum , for adults, length 13 cm
㉞	5x	400600	Same , for children
㉟	2x	203830	Suction Tubes , conical, outer diameter 3 mm
㊱	2x	203835	Same , outer diameter 3.5 mm
㊲		203845	Same , outer diameter 4.5 mm
㊳		428001	HARTMANN Nasal Dressing Forceps , light model
㊴		600007	LUER-Lock Tube Connector , male, tube diameter 6 mm
㊵	2x	586025	v. EICKEN Antrum Cannulas , LUER-Lock, long curve, outer diameter 2.5 mm, length 12.5 cm
㊶		511414	JOSEPH Scissors , curved, length 14 cm
㊷		208211	Blade , Fig. 11, sterile, package of 100
㊸		208000	Surgical Handle , Fig. 3, length 12.5 cm
㊹		208215	Blade , Fig. 15, sterile, package of 100
㊺	20x	740000	BRÜNING'S Tongue Depressors , length 19 cm
㊻		750000	Forceps , serrated, length 20 cm
		815200	Jar , made of stainless steel, diameter 5 cm, height 17.5 cm (not illustrated)
㊼	5x	767900	Laryngeal Mirror , with removable hexagonal handle, size 0
㊽	8x	767902	Same , size 2
㊾	12x	767906	Same , size 6
㊿	5x	767908	Same , size 8
①		726000	Postnasal Applicator , working length 22 cm
②		770800	PELTESON Cotton Applicator , working length 27 cm
		138805	FRENZEL Nystagmus Spectacles , black frame, with ventilation slot, rubber band and cable with 25 mm flat-cable plug, including 2 Lamps 138964, 4 V (not illustrated)
		138964	Spare Lamp , 4 Volt, for 138805 (not illustrated)
	2x	820525	Kidney-Shaped Dressing Tray , stainless steel, length 25 cm (not illustrated)

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**

39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Myringotomy Set



Myringotomy Set

- ① 122005 HARTMANN **Ear Speculum**, outer diameter 5 mm
- ② 122006 **Same**, outer diameter 6 mm
- ③ 122007 **Same**, outer diameter 7.5 mm
- ④ 221100 HARTMANN **Ear Forceps**, extra delicate, serrated, working length 8 cm
- ⑤ 153301 BUCK **Ear Curette**, blunt, size 1, length 14.5 cm
- ⑥ 223300 PLESTER **Sickle Knife**
- ⑦ 224303 WULLSTEIN **Needle**, slight curve, length 16.5 cm
- ⑧ 225208 **Pick 90°**, size 0.8 mm
- ⑨ 204200 FISCH **Adaptor**, for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 5.5 cm
- ⑩ 204310 **Suction Tube**, straight, LUER-Lock, malleable, outer diameter 1 mm, length 10 cm
- ⑪ 204313 **Same**, outer diameter 1.3 mm
- ⑫ 204315 **Same**, outer diameter 1.5 mm
- ⑬ 204320 **Same**, outer diameter 2 mm
- ⑭ 230100 TÜBINGEN **Ventilation Tube**, made of precious metal and gold-plated, sterile, package of 10
- ⑮ 239620 **Instrument Rack**, for 5 instruments, size 195 x 100 mm, with holder for ear specula
- ⑯ 239020 **Metal Case**, perforated, 200 x 100 x 40 mm (w x d x h), for 239620

As required:

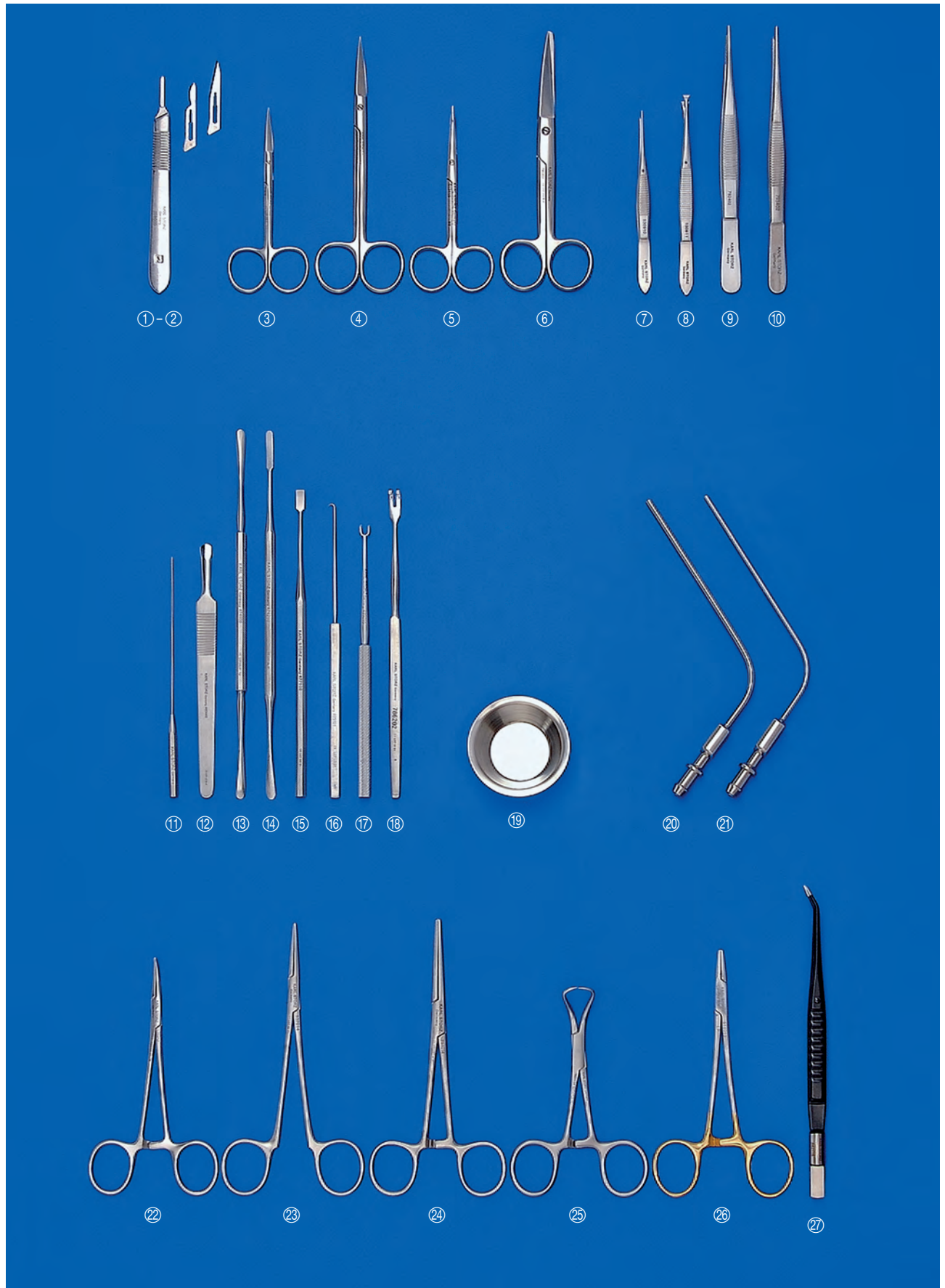
- ⑰ 1218 AA **Tele-Otoscope**, with HOPKINS® **Straight Forward Telescope 0°**, diameter 3 mm, length 6 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

Accessories recommended for containers (not illustrated):

- 39502 MB **Wire Tray for MiniSet Container for Cleaning, Sterilization and Storage**
- 39781 A **MiniSet Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Otoplasty Set



Otoplasty Set

①	208000	Surgical Handle , Fig. 3, length 12.5 cm
②	208015	Blade , Fig. 15, non-sterile, package of 100
	208011	Blade , Fig. 11, non-sterile, package of 100 (not illustrated)
③	511210	Scissors , extra delicate, curved, length 10 cm
④	511414	JOSEPH Scissors , curved, length 14 cm
⑤	513410	COTTLE Scissors , curved, length 10.5 cm
⑥	791202	Scissors , curved, sharp/blunt, length 14.5 cm
⑦	530910	Tissue Forceps , delicate, 1 x 2 teeth, length 10 cm
⑧	530811	Tissue Forceps , 7 x 8 fine teeth, length 11 cm
⑨	792402	Dressing Forceps , length 14.5 cm
⑩	793402	Tissue Forceps , length 14.5 cm
⑪	151011	Cotton Applicator , triangular serrated, working length 13 cm
⑫	493000	COTTLE Nasal Knife , rounded edge, length 14 cm
⑬	474000	FREER Elevator , double-ended, length 20 cm
⑭	474200	FREER-JOSEPH Elevator , double-ended, length 20 cm
⑮	477500	FREER Raspatory , curved, width 4 mm, length 18 cm
⑯	499101	Hook , one prong, large curve, length 16.5 cm
⑰	499205	JOSEPH Double Hook , sharp, width 5 mm, length 15 cm
⑱	786202	Retractor , blunt, 2 prongs, length 17 cm
⑲	810802	Cup Medicine , 25 ccm
⑳	204810	FERGUSON Suction Tube , 10 Fr.
㉑	204808	Same , 8 Fr.
㉒	6x 535212	HALSTEAD "Mosquito" Artery Forceps , curved
㉓	537014	Dissecting Forceps , straight, without ratchet, length 14 cm
㉔	794014	ROCHESTER-PEAN Artery Forceps , straight, length 14 cm
㉕	6x 796011	BACKHAUS Towel Forceps , length 11 cm
㉖	516013	Needle Holder , tungsten carbide inserts, length 13 cm
㉗	842116	Bipolar Coagulation Forceps , length 16 cm

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**

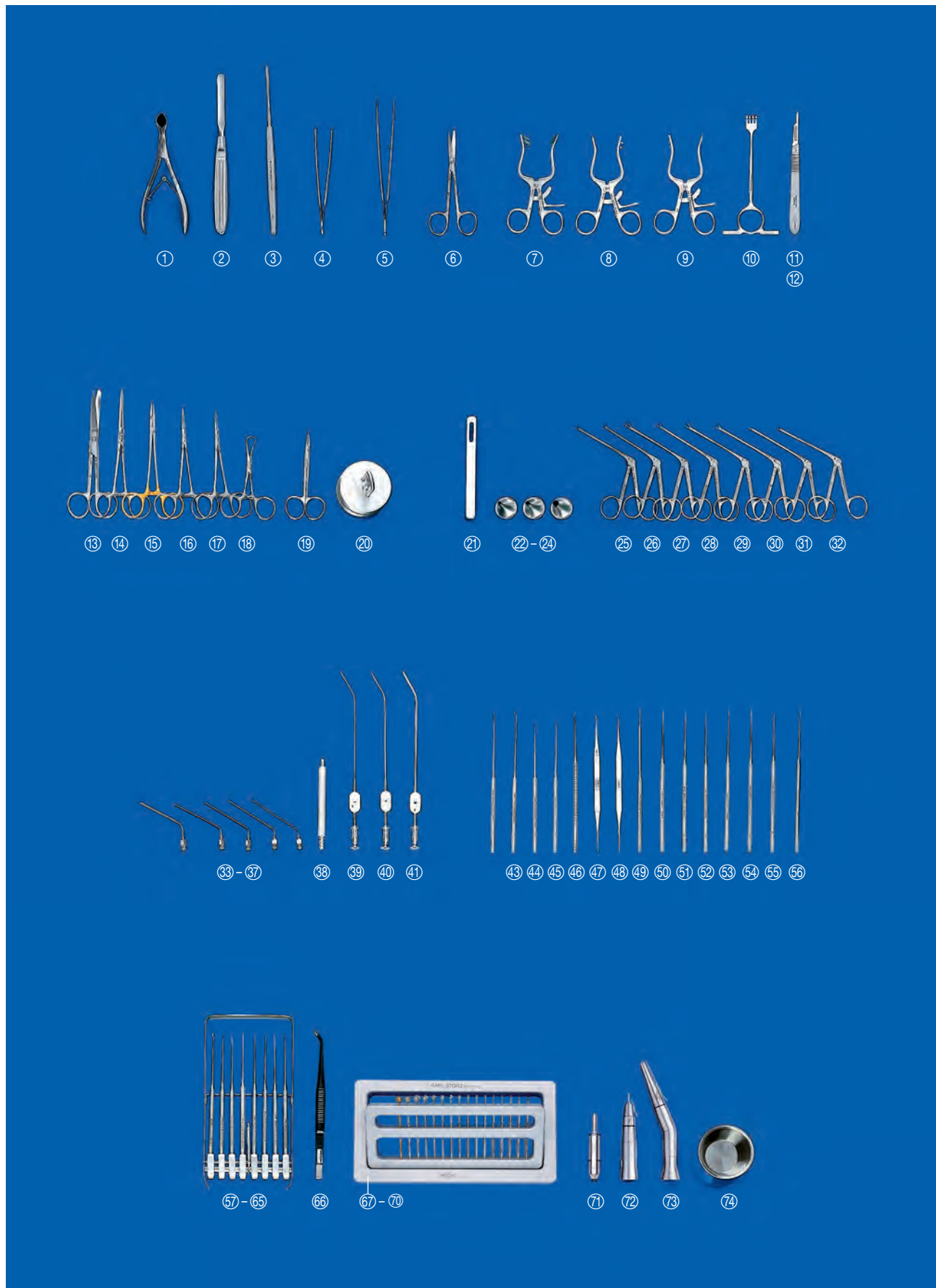
39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

PLESTER Basic Set for Ear Micro Surgery



8-942

PLESTER Basic Set for Ear Micro Surgery

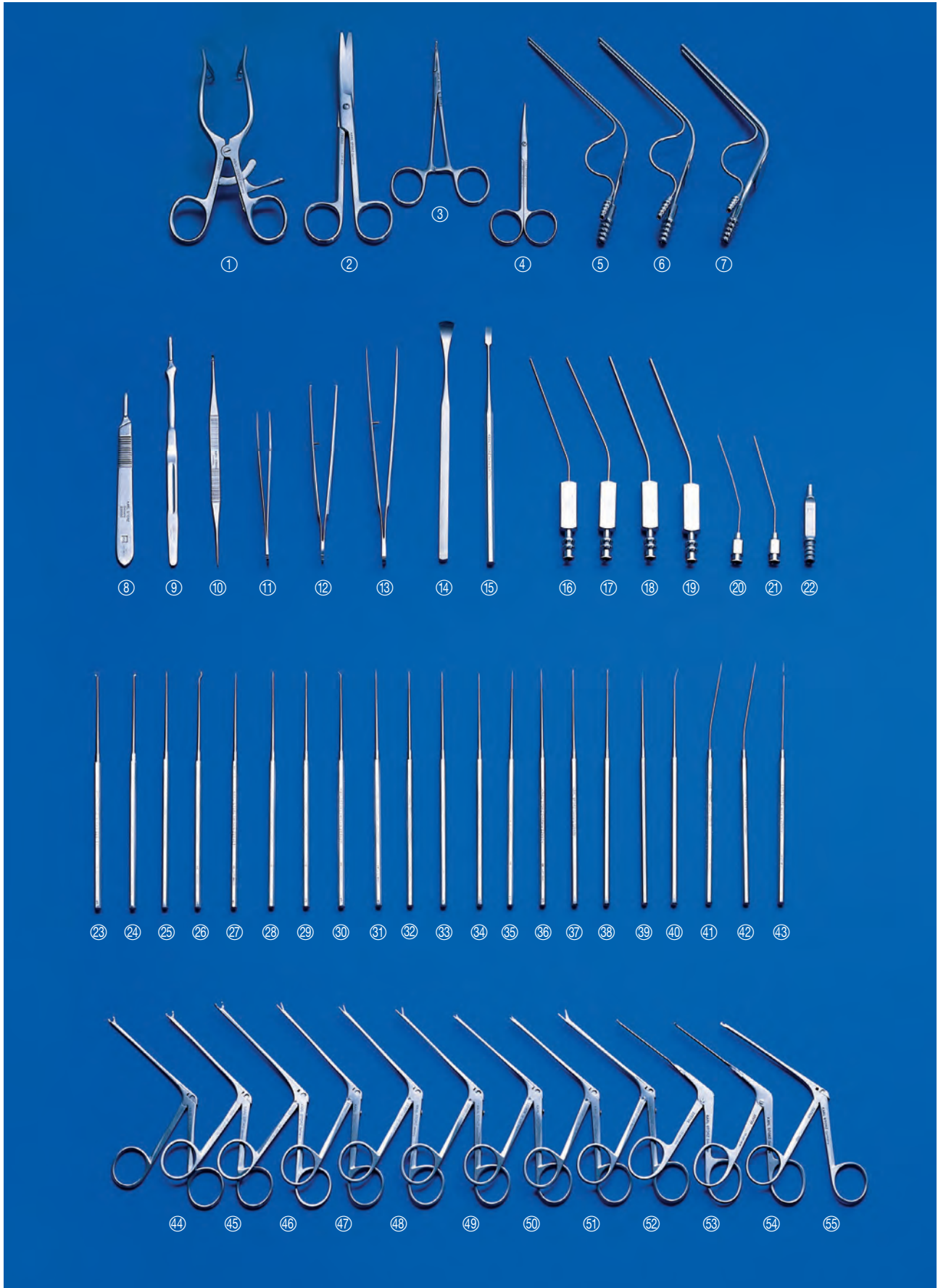
①	400500	HARTMANN Nasal Speculum , length 13 cm	④⑦	2x 224001	HOUSE Curette , large
②	213008	PLESTER Elevator , width 8 mm	④⑧	2x 224002	Same , small
③	212803	LEMPERT Elevator , width 3 mm	④⑨	225008	HEERMANN Hook , retrograde
④	213500	Tissue Forceps , 1 x 2 teeth, length 11.5 cm	⑤⑩	225405	Pick 45° , size 0.5 mm
⑤	214000	WULLSTEIN Forceps , serrated, length 15 cm	⑤⑪	223400	KLEY Knife , footplate
⑥	213200	Scissors , curved, sharp/blunt, length 12 cm	⑤⑫	2x 224802	Hooks , footplate, 0.2 mm, length 16 cm
⑦	2x 220211	PLESTER Retractors , 2 x 2 prongs	⑤⑬	2x 224806	PLESTER Hooks , footplate, 0.6 mm, length 16 cm
⑧	220411	Same , left side with full blade	⑤⑭	226600	FISCH Perforator
⑨	220511	Same , right side with full blade	⑤⑮	224400	PLESTER Guiding Fork
⑩	220700	WILLIGER Retractor , 4 prongs, sharp	⑤⑯	225410	Pick 45° , size 1 mm
⑪	2x 208000	Surgical Handle , Fig. 3, length 12.5 cm	⑤⑰	2x 223100	PLESTER Round Knives , vertical
⑫	208015	Blade , Fig. 15, non-sterile, package of 100	⑤⑱	2x 226820	Round Knives 45° , diameter 2 mm
	208011	Same , Fig. 11 (not illustrated)	⑤⑲	2x 223300	PLESTER Sickle Knife
	208010	Same , Fig. 10 (not illustrated)	⑥①	2x 224303	WULLSTEIN Needles , slightly curved, length 16.5 cm
⑬	791202	Scissors , curved, pointed/blunt, length 14.5 cm	⑥②	225204	Pick 90° , size 0.4 mm, length 16 cm
⑭	794014	ROCHESTER-PEAN Artery Forceps	⑥③	225206	Same , size 0.6 mm
⑮	516013	Needle Holder , tungsten carbide inserts, length 13 cm	⑥④	225208	Same , size 0.8 mm
⑯	535012	HALSTEAD "Mosquito" Artery Forceps , straight	⑥⑤	225210	Same , size 1 mm
⑰	2x 535212	Same , curved		239600	Rack for 8 Instruments , 195 x 100 mm
⑱	6x 796008	BACKHAUS Towel Forceps , length 8 cm		239212	Magnet Instrument Rack , 180 x 95 mm (not illustrated)
⑲	227600	GUILFORD-WRIGHT Wire Cutter , length 10 cm		239900	Instrument Tray , perforated, 195 x 100 mm (not illustrated)
⑳	227800	SCHUKNECHT Wire Bending Die		239200	Magnet Instrument Rack , 280 x 190 mm (not illustrated)
㉑	6x 223000	TEFLON Instrument Guard , for micro instruments		2x 239000	Metal Cases , 300 x 200 x 50 mm, for 239200, 239212, 239600 and 239900 (not illustrated)
㉒	122005	HARTMANN Ear Speculum , outer diameter 5 mm	⑥⑥	842216	Bipolar Coagulating Forceps , length 16 cm
㉓	122006	Same , outer diameter 6 mm		847000 E	Bipolar High Frequency Cord , for Bipolar Forceps 842216, to KARL STORZ AUTOCON®
㉔	122007	Same , outer diameter 7.5 mm			Coagulator and Erbe Coagulator (not illustrated)
㉕	221100	HARTMANN Ear Forceps , extra delicate	⑥⑦	280030	Rack , for 36 straight shaft burrs
㉖	221200	FISCH Ear Forceps , extra delicate, pointed	⑥⑧	261000	Tungsten Carbide Shaft Burrs , set of 15
㉗	161000	HARTMANN Ear Forceps , serrated, working length 8 cm	⑥⑨	262000	Diamond Straight Shaft Burrs , set of 15
㉘	221409	WULLSTEIN Ear Forceps , oval cupped jaws, 0.9 mm	⑦①	265060	Diamond Straight Shaft Burr , oblong, cylindrical, diameter 6 mm
㉙	162020	HARTMANN Ear Forceps , round cupped jaws, diameter 2 mm		40 7016 20-1	UNIDRIVE® S III ENT SCB (not illustrated)
㉚	222600	BELLUCCI Scissors , delicate standard model	⑦②	20 7110 33	High Performance EC Micro Motor II
㉛	222800	HOUSE-DIETER Malleus Nipper	⑦③	20 7111 73	Connecting Cable (not illustrated)
㉜	227400	McGEE Wire Crimper	⑦④	252490	INTRA Handpiece , straight
㉝	4x 204007	Suction Tubes , angular, outer diameter 0.7 mm		252475	Same , angled
㉞	4x 204010	Same , outer diameter 1 mm		280052	Universal Spray , for fast, smooth and thorough cleaning and lubrication, for INTRA drill handpieces and EC motors, package of 6 sprayers and 1 Spray Diffuser
㉟	4x 204013	Same , outer diameter 1.3 mm			280052 C – HAZARDOUS GOODS – UN 1950 (not illustrated)
㊱	4x 204015	Same , outer diameter 1.5 mm			Cup Medicine , 25 ccm
㊲	4x 204020	Same , outer diameter 2 mm			
㊳	204001	Suction Handle , with cut-off hole, length 10 cm	⑦⑤	810802	
㊴	204405	PLESTER Suction Tube , 5 Fr.			
㊵	204407	Same , 7 Fr.			
㊶	204409	Same , 9 Fr.			
㊷	152301	Ear Hook , without ball end, size 1, length 15.5 cm			
㊸	223803	Seeker , with ball end, angled 45°, size 3			
㊹	153420	BUCK Ear Curette , sharp, size 00			
㊺	153410	Same , size 0			
㊻	224600	PLESTER Hook			

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

FISCH Special Set for Middle Ear Surgery, Tympanoplasty and Stapedotomy



FISCH Special Set for Middle Ear Surgery, Tympanoplasty and Stapedotomy

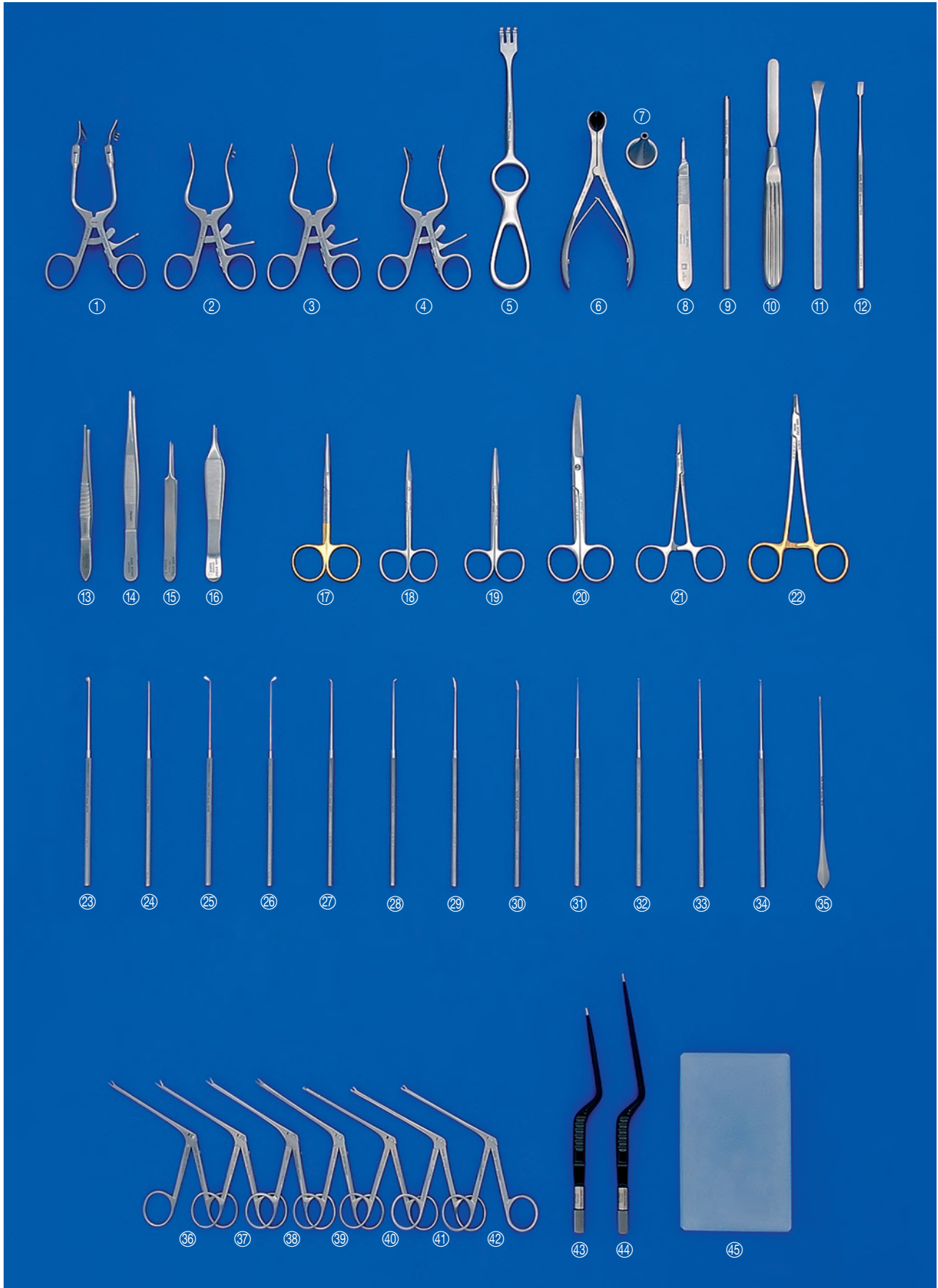
①	2x	220213	FISCH Retractors , 2 x 2 prongs, length 13 cm
②		792003	MAYO Dissecting Scissors , curved, length 15 cm
③		535312	HALSTEAD "Mosquito" Artery Forceps , micro-model, curved, length 12.5 cm
④		213410	FISCH Scissors , extra delicate, curved, sharp/sharp, length 10.5 cm
⑤		206300	FISCH Suction and Irrigation Tube , conical, suction tube outer diameter 3.2 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
⑥		206600	FISCH Suction and Irrigation Tube , cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
⑦		206700	Same , outer diameter suction tube 1.9 mm, irrigation tube outer diameter 1.9 mm
⑧		208000	Surgical Handle , Fig. 3, length 12.5 cm
⑨		211804	FISCH Dual Purpose Scalpel Handle , elevator on one side, scalpel handle no. 7 on the other side, length 16 cm
⑩		224003	HOUSE Curette , medium
⑪		214500 F	Jeweler Forceps , fine, pointed, soft spring, length 11 cm
⑫		793303 F	Forceps , 1 x 2 teeth, fine size, soft spring, length 13 cm
⑬		214000 F	WULLSTEIN Forceps , soft spring, length 15 cm
⑭		213011	FISCH Elevator , sharp, width 10 mm, length 16 cm
⑮		477500	FREER Raspatory , curved, width 4 mm, length 18 cm
⑯		204729	FISCH Suction Tube , outer diameter 1.2 mm
⑰		204730	Same , outer diameter 1.5 mm
⑱		204732	Same , outer diameter 2 mm
⑲		204733	Same , outer diameter 2.2 mm
⑳		204352	Suction Tube , angular, outer diameter 0.7 mm, working length 7 cm
㉑		204354	Same , outer diameter 1 mm
㉒		204250	FISCH Adaptor , with cut-off hole, LUER cone
㉓		226101	FISCH Micro Raspatory , single curved to right, length 16 cm
㉔		226102	Same , curved to left
㉕		226810	Round Knife 45° , diameter 1 mm, length 16 cm
㉖		226301	FISCH Tenotome , extra fine, length 16 cm
㉗		225405	Pick 45° , size 0.5 mm, length 16 cm
㉘		225410	Same , size 1 mm
㉙		225415	Same , size 1.5 mm
㉚		225425	Same , size 2.5 mm
㉛		225205	Pick 90° , size 0.5 mm, length 16 cm
㉜		225210	Same , size 1 mm
㉝		225215	Same , size 1.5 mm
㉞		225220	Same , size 2 mm
㉟		226600	FISCH Manual Perforator , diameter 0.3 mm, length 16 cm
㊱		226604	Same , diameter 0.4 mm
㊲		226605	Same , diameter 0.5 mm
㊳		226606	Same , diameter 0.6 mm
㊴		224812	FISCH Hook , footplate, curved upwards 90°
㊵		224813	Same , curved downwards 90°
㊶		226514	FISCH Measuring Caliper , angled shaft, diameter 0.4 mm, length 16 cm
㊷		226516	Same , diameter 0.6 mm
㊸		226500	FISCH Measuring Rod , length 16 cm
㊹		221409	WULLSTEIN Ear Forceps , extra delicate, oval cupped jaws, 0.9 mm, working length 8 cm
㊺		221406	Same , oval cupped jaws, 0.6 mm
㊻		162020	HARTMANN Ear Forceps , round cupped jaws, diameter 2 mm
㊼		221100	HARTMANN Ear Forceps , extra delicate, serrated, working length 8 cm
㊽		221201	FISCH Ear Forceps , extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
㊾		221110	FISCH-HARTMANN Ear Forceps , extra delicate, smooth, 1 x 4.5 mm, working length 8 cm
㊿		222606	FISCH-BELLUCCI Micro Scissors , extra delicate, blade length 3 mm, with thin sheath, working length 8 cm
1		222603	FISCH-BELLUCCI Micro Scissors , extra delicate, blade length 3 mm, working length 8 cm
2		222501	FISCH-BELLUCCI Scissors , extra fine, blade length 7 mm, working length 8 cm
3		222710	FISCH Crurotomy Scissors , curved to right, working length 7.5 cm
4		222720	Same , curved to left
5		222801	FISCH-DIETER Malleus Nipper , width 0.8 mm, working length 8 cm
6		239728	Metal Tray , for 20 straight ear micro instruments with octagonal Handle, 275 x 175 x 36 mm (not illustrated)

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DALCHOW Instrument Set for Pediatric Tympanoplasty



DALCHOW Instrument Set for Pediatric Tympanoplasty

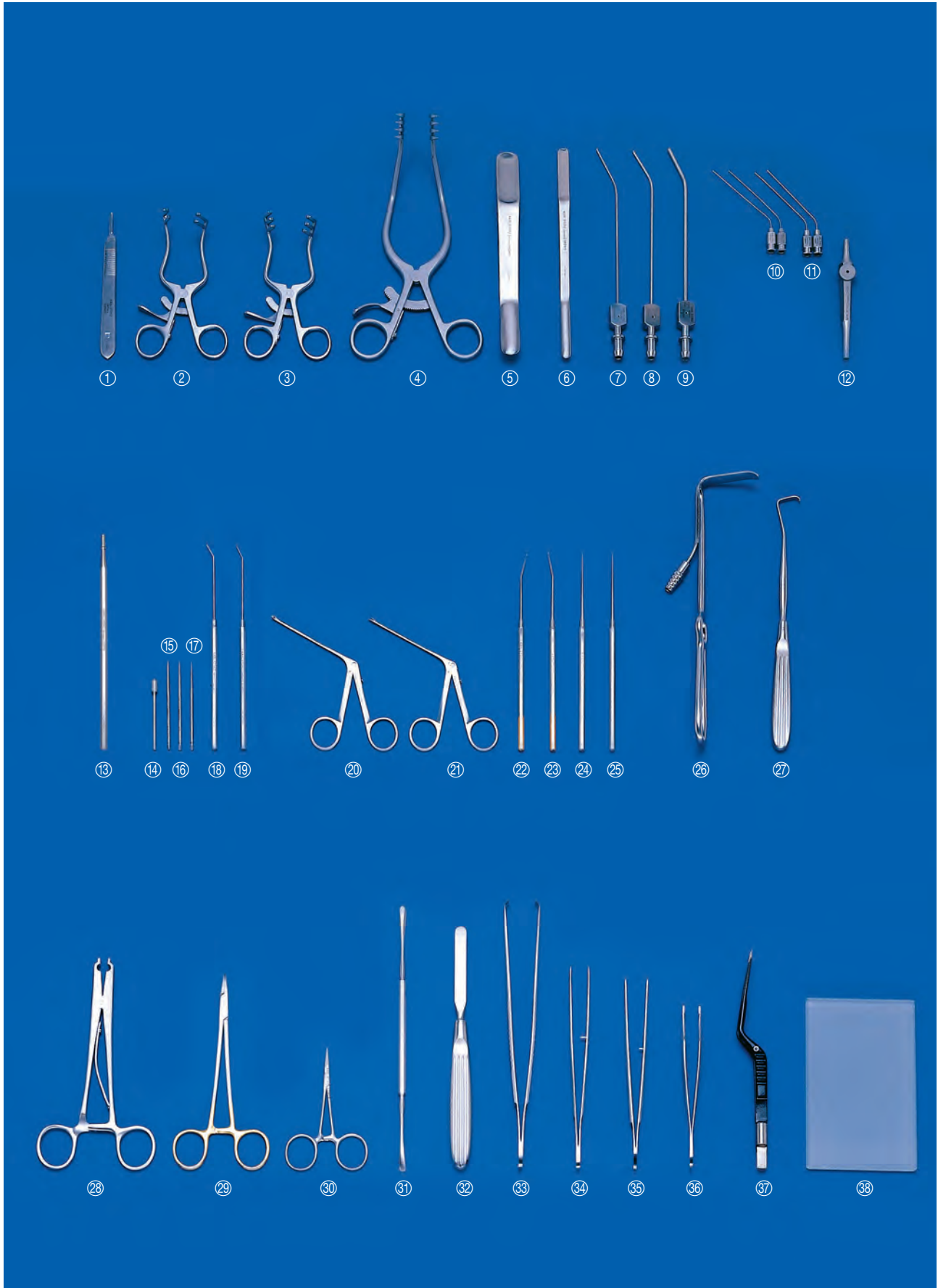
- ① 219714 K DALCHOW **Retractor**, 3 x 3 prongs, sharp, with adjustable swivel arms, length 14 cm
- ② 220421 K **Same**, 2 prongs on right, left full blade with atraumatic teeth, length 11 cm
- ③ 220521 K **Same**, 2 prongs on left, right full blade with atraumatic teeth, length 11 cm
- ④ 220211 K **Same**, 2 x 2 prongs, length 11 cm
- ⑤ 800503 VOLKMANN **Retractor**, blunt, 3 prongs, length 21 cm
- ⑥ 400500 HARTMANN **Nasal Speculum**, length 13 cm
- ⑦ 122005 HARTMANN **Ear Speculum**, outer diameter 5 mm
- ⑧ 208000 **Surgical Handle**, Fig. 3, length 12.5 cm
- ⑨ 496500 **Surgical Handle**, for miniature blades, round, length 15.5 cm
- ⑩ 213008 PLESTER **Raspatory**, width 8 mm, length 18 cm
- ⑪ 213011 FISCH **Raspatory**, width 10 mm, length 16 cm
- ⑫ 477500 FREER **Raspatory**, curved, width 4 mm, length 18 cm
- ⑬ 213500 **Tissue Forceps**, 1 x 2 teeth, length 11.5 cm
- ⑭ 793401 **Tissue Forceps**, 1 x 2 teeth, standard width, length 14.5 cm
- ⑮ 214500 F **Jeweler Forceps**, fine, pointed, soft spring, length 11 cm
- ⑯ 533012 ADSON **Dressing Forceps**, serrated, length 12 cm
- ⑰ 512511 **Scissors**, with tungsten carbide inserts, blunt/blunt, curved, length 11 cm
- ⑱ 511010 **Scissors**, extra delicate, straight, length 10 cm
- ⑲ 513410 COTTLE **Scissors**, curved, length 10.5 cm
- ⑳ 791202 **Dissecting Scissors**, curved, sharp/blunt, length 14.5 cm
- ㉑ 535212 HALSTEAD "Mosquito" **Artery Forceps**, curved, length 12.5 cm
- ㉒ 516015 **Needle Holder**, tungsten carbide inserts, length 15 cm
- ㉓ 223100 PLESTER **Round Knife**, vertical, standard size 3.5 x 2.5 mm, length 16 cm
- ㉔ 226810 **Round Knife 45°**, diameter 1 mm, length 16 cm
- ㉕ 226105 DALCHOW **Micro Raspatory**, single curved to right, width 1.5 mm, length 16 cm
- ㉖ 226106 **Same**, single curved to left
- ㉗ 226101 FISCH **Micro Raspatory**, single curved to right, length 16 cm
- ㉘ 226102 **Same**, left
- ㉙ 223300 PLESTER **Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- ㉚ 223302 PLESTER **Sickle Knife**, double-edged, medium curve, length 16 cm
- ㉛ 225204 **Pick**, 90°, size 0.4 mm, length 16 cm
- ㉜ 225206 **Same**, size 0.6 mm
- ㉝ 225208 **Same**, size 0.8 mm
- ㉞ 225210 **Same**, size 1 mm
- ㉟ 797114 **Myrtle Leaf Probe**, diameter 1.5 mm, length 14.5 cm
- ㊱ 221201 FISCH **Ear Forceps**, extra delicate, serrated, 0.4 x 3.5 mm, working length 8 cm
- ㊲ 221200 **Same**, pointed, 1 x 4.5 mm
- ㊳ 221100 HARTMANN **Ear Forceps**, extra delicate, serrated, working length 8 cm
- ㊴ 222600 BELLUCCI **Scissors**, delicate standard model, blade length 8 mm, working length 8 cm
- ㊵ 222801 FISCH-DIETER **Malleus Nipper**, extra delicate, upbiting, width 0.8 mm, working length 8 cm
- ㊶ 221406 WULLSTEIN **Ear Forceps**, extra delicate, oval cupped jaws, 0.6 mm, working length 8 cm
- ㊷ 221409 **Same**, 0.9 mm
- ㊸ 844116 **Bipolar Coagulation Forceps**, insulated, bayonet-shaped, pointed, length 16 cm
- ㊹ 844219 **Same**, blunt, width of tip 1 mm, length 19 cm
- ㊺ 847000 E **Bipolar High Frequency Cord**, for KARL STORZ bipolar instruments, for use with AUTOCON® 50/200/350 and Erbe coagulator (not illustrated)
- ㊻ 231008 **Preparation Plate**, glass, 10 x 8 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39750 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

LENARZ Supplement Set for Cochlear Implantation



11-03z

LENARZ Supplement Set for Cochlear Implantation

①	208000	Surgical Handle , Fig. 3, length 12.5 cm
②	220211	PLESTER Retractor , 2 x 2 prongs, length 11 cm
③	219511	WULLSTEIN Retractor , 3 x 3 prongs, length 11 cm
④	2x 214920	ANDERSON-ADSON Retractor , 4 x 4 prongs, sharp, curved, length 20 cm
⑤	662477	OLIVECRONA Brain Spatula , angled on both sides, concave, elastic, width 11 and 13 mm, length 18 cm
⑥	662476	Same , width 7 and 9 mm
⑦	204405	PLESTER Suction Tube , with grip plate, cut-off hole and stylet, LUER, 5 Fr., length 20 cm
⑧	204407	Same , 7 Fr.
⑨	204409	Same , 9 Fr.
⑩	2x 204005	Suction Tube , angular, LUER-Lock, outer diameter 0.5 mm, working length 6 cm
⑪	2x 204007	Same , outer diameter 0.7 mm
⑫	204004	WULLSTEIN Suction Handle , with cut-off hole, LUER cone, length 10 cm, for Suction Tubes 204005 – 204025, 204305 – 204330
⑬	233110	Octagonal Handle , with LUER cone, straight, length 17 cm
⑭	262550	Diamond Burr , barrel-shaped, diameter 5 mm, length 10 mm, for creating a flat bone edge during cochlea implantation surgery, blunt tip, with smooth shaft diameter 2.35 mm, length 44 mm
⑮	262506	Diamond Burr , shaft diameter 2.35 mm, diameter 0.6 mm, length 70 mm
⑯	262510	Same , diameter 1 mm
⑰	262514	Same , diameter 1.4 mm
⑱	223891	Seeker , extra delicate, angled 25°, with ball end diameter 1 mm, length 16 cm
⑲	223892	Same , with ball end diameter 1.5 mm
⑳	233212	Forceps , for insertion of cochlea electrodes, nucleus 24 contour, curved to left, working length 6 cm
㉑	233211	Same , curved to right
㉒	233105	Micro Guiding Instrument , for electrodes array, claw-shaped, tip angled downwards, length 16 cm
㉓	233106	Same , tip angled upwards
㉔	224802	Footplate Hook , 0.2 mm, length 16 cm
㉕	224806	PLESTER Footplate Hook , 0.6 mm, length 16 cm
㉖	801814	LENARZ Retractor , 43 x 11 mm, slim and flat blade with integrated suction tube, length 21.5 cm
㉗	786500	SCHÖNBORN Thymus Retractor , width 5 mm, length 20.5 cm
㉘	799990	RANEY Applying and Removing Forceps , for scalp haemostasis clips, length 16 cm
	799995	RANEY Scalp Haemostasis Clips , package of 12 (not illustrated)
㉙	516015	Needle Holder , tungsten carbide inserts, length 15 cm
㉚	536909	Dissecting and Ligature Forceps , straight, smooth jaws, length 9.5 cm
㉛	474000	FREER Elevator , double-ended, semisharp and blunt, length 20 cm
㉜	213008	PLESTER Raspatory , width 8 mm, length 18 cm
㉝	662721	ALLIS Forceps , with fine teeth, length 20 cm
㉞	214000	WULLSTEIN Forceps , serrated, length 15 cm
㉟	792403	Dressing Forceps , narrow width, length 14.5 cm
㊱	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm
㊲	844319	Bipolar Coagulation Forceps , insulated, bayonet-shaped, slender, tip 0.5 mm wide, length 19 cm, for use with Bipolar High Frequency Cords 847000 or 847000 A/E/M/V
	847000 E	Bipolar High Frequency Cord , for KARL STORZ bipolar instruments, for use with AUTOCON® 50/200/350 and Erbe coagulator (not illustrated)
㊳	231008	Preparation Plate , glass, 10 x 8 cm

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

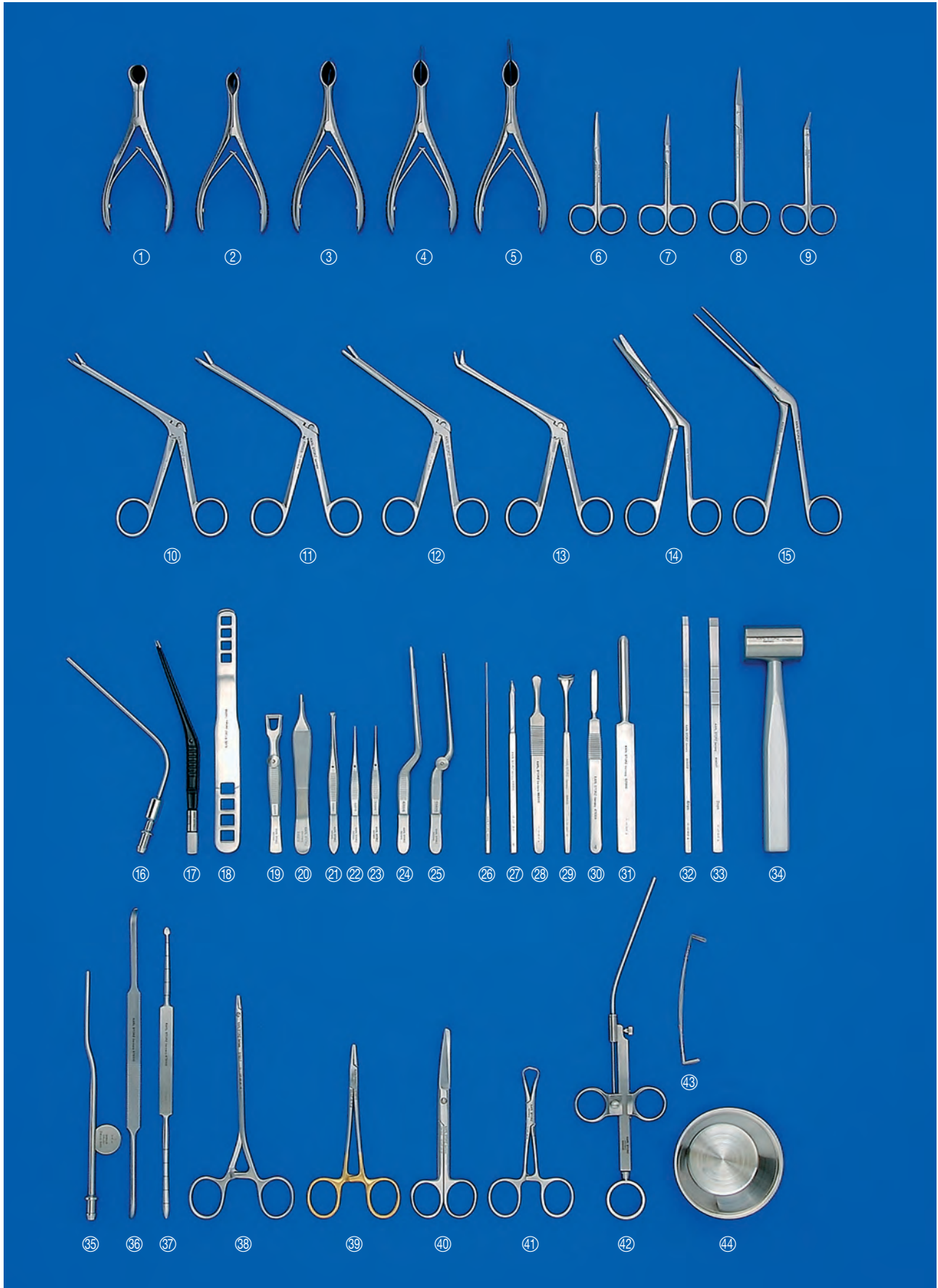
39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Set for Septum Surgery



8-942

Basic Set for Septum Surgery

①	400500	HARTMANN Nasal Speculum , for adults, length 13 cm
②	403655	COTTLE Nasal Speculum , blade length 55 mm, length 13 cm
③	403555	KILLIAN-STRUYSCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm
④	403575	Same , blade length 75 mm
⑤	403590	Same , blade length 90 mm
⑥	513410	COTTLE Scissors , curved, length 10.5 cm
⑦	511210	Scissors , extra delicate, curved, length 10 cm
⑧	511414	JOSEPH Scissors , curved, length 14 cm
⑨	513200	WALTER Scissors , angled, length 10 cm
⑩	456001	BLAKESLEY Nasal Forceps , size 1
⑪	456003	Same , size 3
⑫	455500	TAKAHASHI Nasal Forceps , working length 9.5 cm
⑬	449002	HEYMANN Nasal Scissors , medium
⑭	456502	BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 2
⑮	430300	LUBET-BARBON Nasal Dressing Forceps
⑯	204809	FERGUSON Suction Tube , 9 Fr.
⑰	843116	Bipolar Coagulating Forceps , angular
	847000 E	Bipolar High Frequency Cord , for Coagulation Forceps 843116, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
⑱	740000	BRÜNNINGS Tongue Depressor , length 19 cm
⑲	534500	COTTLE Columella Clamp , length 11 cm
⑳	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm
㉑	530811	Tissue Forceps , 7 x 8 fine teeth, length 11 cm
㉒	530710	Dressing Forceps , delicate, length 10 cm
㉓	530910	Same , straight, 1 x 2 teeth
㉔	426516	JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm
㉕	534015	COTTLE Lower Lateral Forceps , bayonet-shaped
㉖	2x 417013	Cotton Applicators , triangular serrated, length 15 cm
㉗	496800	Nasal Knife , curved
㉘	493000	COTTLE Nasal Knife , rounded edge, length 14 cm
㉙	498400	COTTLE Retractor
㉚	478304	McKENTY Raspatory , width 4 mm
㉛	525800	Elevator , for reposition
㉜	484004	COTTLE Chisel , flat, width 4 mm
㉝	484007	Same , width 7 mm
㉞	174200	COTTLE Metal Mallet
㉟	479800	Suction Raspatory , with stylet
㊱	479200	COTTLE Elevator , double-ended
㊲	479000	MASING Elevator , double-ended
㊳	515017	Needle Holder , extra delicate, length 17 cm
㊴	516013	Needle Holder , tungsten carbide inserts, length 13 cm
㊵	791202	Scissors , curved, sharp/blunt, length 14.5 cm
㊶	6x 796011	BACKHAUS Towel Forceps , length 11 cm
㊷	440000	KRAUSE Nasal Snare , length 25 cm
㊸	443500	Nasal Snare Wire , for 440000 – 441510, package of 25
㊹	2x 810810	Cup Medicine , 100 ccm

Accessories recommended for containers (not illustrated):

 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

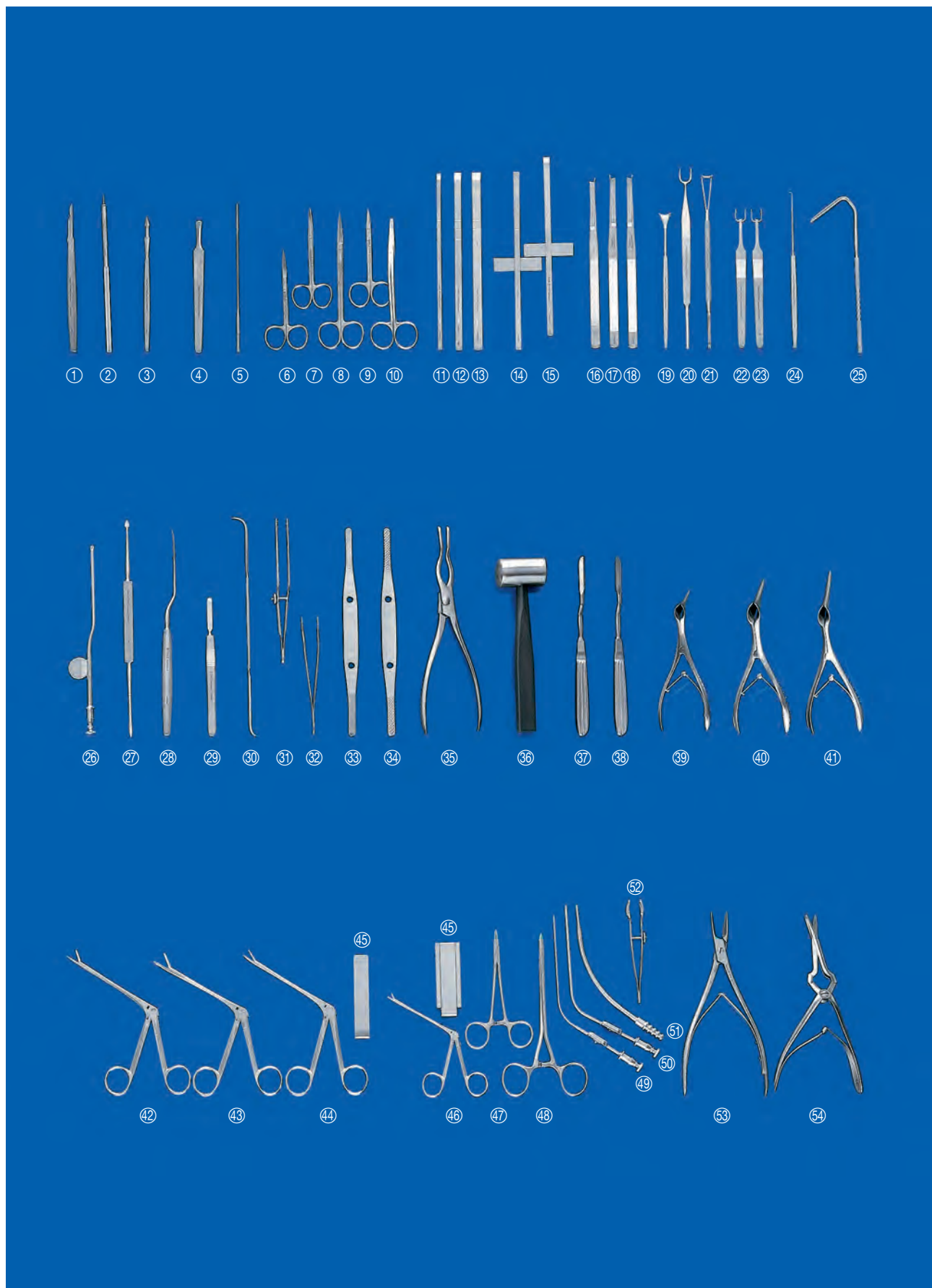
 39751 A2 **Sterilization Container**, with MicroStop®

 39763 A2 **Coding Label**

 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Set for Rhinoplasty



Basic Set for Rhinoplasty

①	496400	MASING Surgical Handle
	208015	Blade , Fig. 15, non-sterile, package of 100 (not illustrated)
	208011	Same , Fig. 11 (not illustrated)
②	496500	Surgical Handle , for miniature blades, round, length 15.5 cm
	496764	Miniature Blade , Fig. 64, round, sterile, package of 24 (not illustrated)
③	496900	MASING Nasal Knife
④	493000	COTTLE Nasal Knife , rounded edge, length 14 cm
⑤	3x 417013	Cotton Applicators , triangular serrated, length 15 cm
⑥	511210	Scissors , extra delicate, curved, length 10 cm
⑦	513410	COTTLE Scissors , curved, length 10.5 cm
⑧	511414	JOSEPH Scissors , curved, length 14 cm
⑨	513200	WALTER Scissors , angled, length 10 cm
⑩	513700	FOMON Dorsal Scissors , angular, working length 6.5 cm
⑪	484004	COTTLE Chisel , flat, width 4 mm
⑫	484007	Same , width 7 mm
⑬	484009	Same , width 9 mm
⑭	484206	COTTLE Crossbar Osteotome , graduated, straight
⑮	484406	Same , curved
⑯	484800	MASING Chisel , straight
⑰	484700	Same , curved to left
⑱	484600	Same , curved to right
⑲	498400	COTTLE Retractor
⑳	505700	COTTLE Retractor , double-ended
㉑	505800	NEIVERT Retractor , double-ended, made of wire, length 18 cm
㉒	505100	COTTLE Retractor , 2 prongs, blunt prong on left
㉓	505000	Same , blunt prong on right
㉔	499101	Hook , one prong, sharp curve, length 16.5 cm
㉕	506400	AUFRICHT Nasal Retractor
㉖	479800	Suction Elevator , with stylet
㉗	479000	MASING Elevator , double-ended
㉘	478100	JOSEPH-MASING Raspatory
㉙	478305	McKENTY Raspatory , width 5 mm
㉚	479200	COTTLE Elevator , double-ended
㉛	534015	COTTLE Lower Lateral Forceps , bayonet-shaped
㉜	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm
㉝	523600	Nasal Rasp , double-ended, fine
㉞	523700	Nasal Rasp , double-ended, coarse
㉟	528800	WALSHAM Septum Straightening Forceps
㊱	174200	COTTLE Metal Mallet
㊲	523000	JOSEPH Saw , bayonet-shaped, right
㊳	523100	Same , left
㊴	403655	COTTLE Nasal Speculum , blade length 55 mm, length 13 cm
㊵	403575	KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 75 mm, length 13.5 cm
㊶	403590	Same , blade length 90 mm
㊷	456001	BLAKESLEY Nasal Forceps , size 1
㊸	456003	Same , size 3
㊹	458000	WATSON-WILLIAMS Nasal Forceps , serrated
㊺	523900	COTTLE Bone Crusher , with clip
㊻	517000	MASING Needle Holder , ear forceps shape
㊼	516513	NEIVERT-MASING Needle Holder , length 13 cm
㊽	515017	Needle Holder , extra delicate, length 17 cm
㊾	529207	FRAZIER Suction Tube , outer diameter 7 Fr./2 mm, working length 10 cm, total length 17.5 cm
㊿	529209	Same , outer diameter 9 Fr./3 mm
①	529105	Suction Tube , curved, outer diameter 5 mm
②	534500	COTTLE Columella Clamp , length 11 cm
③	469000	KAZANIJAN Nasal Hump Forceps , length 20 cm
④	468000	JANSEN-MIDDLETON Septum Forceps , working length 10 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

BERGHAUS Instrument Set for Septo-Rhinoplasty



BERGHAUS Instrument Set for Septo-Rhinoplasty

- ① 488002 COTTLE **Nasal Speculum**, extra slender, without set screw, special matt finish, blade length 35 mm, length 13 cm
- ② 488003 **Same**, blade length 55 mm
- ③ 488004 **Same**, blade length 75 mm
- ④ 488018 KILLIAN-CLAUS **Septum Chisel**, with V-shaped cutting edge, special matt finish, width 5 mm, length 16.5 cm
- ⑤ 488010 RUBIN **Osteotome**, flat, straight, double-edged grinding, rounded corners, with finger grip for osteotome guidance, special matt finish, width 10 mm, length 16.5 cm
- ⑥ 488012 **Same**, width 12 mm
- ⑦ 488014 **Same**, width 14 mm
- ⑧ 488022 **Chisel**, with finger button, flat, special matt finish, width 2 mm, length 18 cm
- ⑨ 488023 **Same**, width 3 mm
- ⑩ 488024 **Same**, width 4 mm
- ⑪ 488030 **Marking Instrument**, for nasal tip, with ball and half cup, straight, special matt finish, length 11 cm
- ⑫ 488032 HEYMANN **Nasal Scissors**, medium size, special matt finish, working length 9.5 cm
- ⑬ 488034 CRAIG **Septum Forceps**, straight, special matt finish, working length 9 cm
- ⑭ 488041 BLAKESLEY **Nasal Forceps**, slender, straight, special matt finish, size 1, working length 11 cm
- ⑮ 488038 RUBIN **Septum Morcelizer**, double action, straight, special matt finish, length 20 cm
- ⑯ 488036 BECKER-CAPLAN **Septum Scissors**, double action, serrated, slender, special matt finish, working length 9.5 cm
- ⑰ 488044 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, slender, special matt finish, length 16 cm
- ⑱ 488045 ADSON-BROWN **Forceps**, micro-model, atraumatic, fine side grasping teeth, special matt finish, length 12 cm
- ⑲ 488046 ADSON **Tissue Forceps**, atraumatic, fine side grasping teeth, special matt finish, length 15 cm
- ⑳ 488047 ADSON **Tissue Forceps**, 1 x 2 teeth, length 12 cm
- ㉑ 488049 KILNER **Scissors**, curved, with tungsten carbide inserts, flat end, sharp/sharp, extra delicate, special matt finish, length 13.5 cm
- ㉒ 488048 KILNER **Scissors**, curved, sharp/sharp, special matt finish, length 13.5 cm
- ㉓ 488050 KILNER **Scissors**, curved, flat end, blunt/blunt, special matt finish, length 15.5 cm
- ㉔ 488054 AUFRICHT **Nasal Retractor**, with side protector, special matt finish, length 16.5 cm
- ㉕ 488060 **Ala Double Hook**, with octagonal handle, with 2 sharp points, strongly curved, special matt finish, width 2 mm, length 16.5 cm
- ㉖ 488056 KILNER **Ala Retractor**, two sharp points with button, special matt finish, width 10 mm, length 8.5 cm
- ㉗ 488058 **Same**, width 13 mm
- ㉘ 488084 FERGUSON **Suction Tube**, with cut-off hole and stylet, LUER, special matt finish, outer diameter 8 Fr., working length 11 cm
- ㉙ 488085 **Same**, outer diameter 10 Fr.
- ㉚ 488086 **Same**, outer diameter 12 Fr.
- ㉛ 488065 BERGHAUS **Ala Guiding Set**
- ㉜ 488070 JOSEPH **Elevator**, slightly curved, special matt finish, width 4 mm, length 17.5 cm
- ㉝ 488071 **Same**, strongly curved, width 3.4 mm
- ㉞ 488090 **Scalpel Handle**, No. 3, special matt finish, length 12.5 cm
- ㉟ 488074 FREER **Elevator**, double-ended, sharp and blunt, special matt finish, length 20 cm
- ㊱ 488078 **Nasal Rasp**, double-ended, coarse, special matt finish, length 21.5 cm
- ㊲ 488076 AUFRICHT **Glabella Rasp**, double-ended, backward cutting, length 20.5 cm
- ㊳ 488080 RYDER **Needle Holder**, tungsten carbide inserts, extra delicate and flat, special matt finish, length 18 cm
- ㊴ 439300 BERGHAUS **Metal Nasal Mirror**
- 174200 COTTLE **Metal Mallet**, length 18 cm (not illustrated)
- 231000 **Hone**, "ARKANSAS" oil stone, wedge-shaped, size 10 x 4 cm (not illustrated)

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

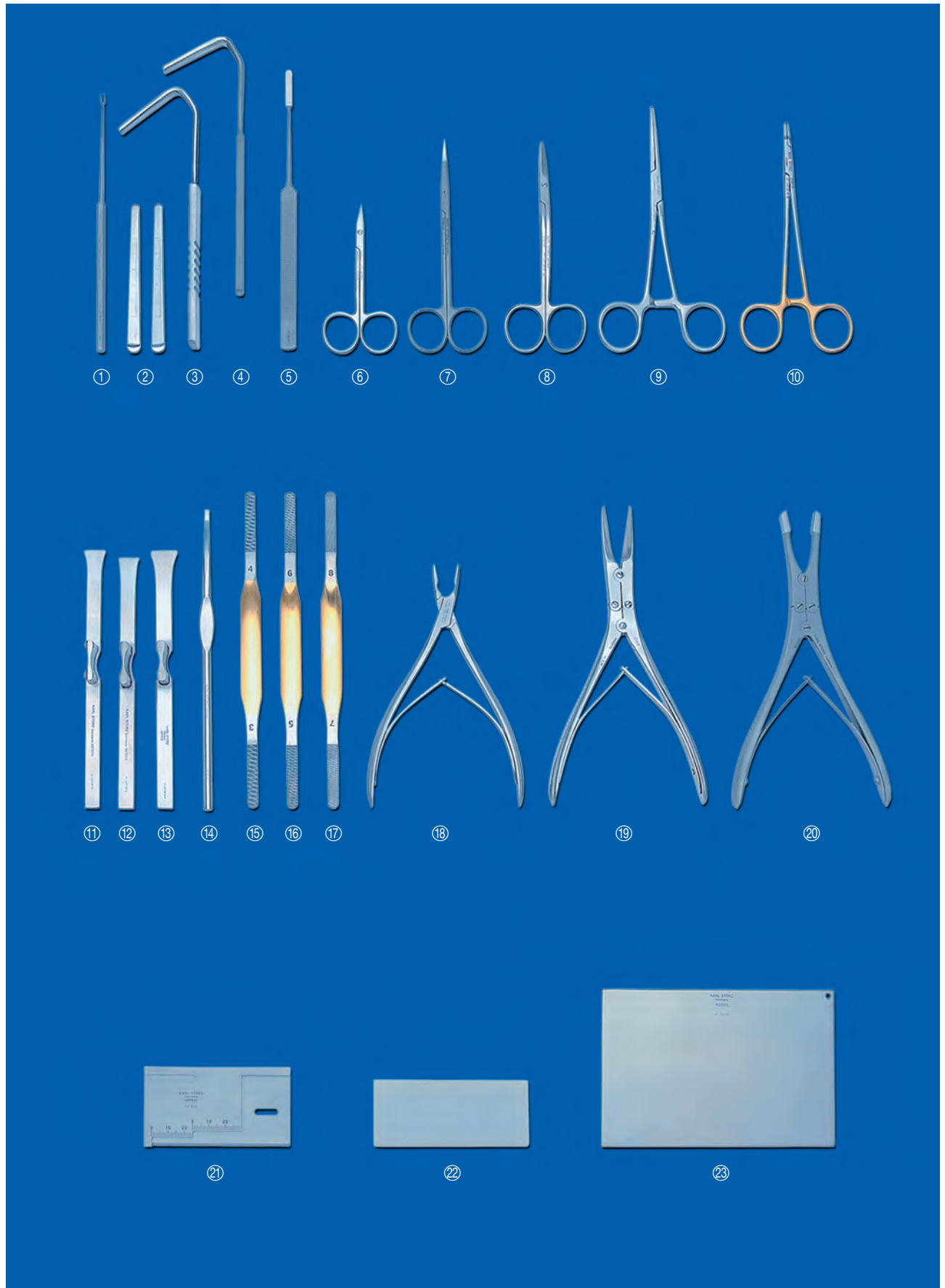
SIMMEN-BRINER Special Nasal Instrument Set



SIMMEN-BRINER Special Nasal Instrument Set

①	7230 AA	HOPKINS® II Straight Forward Telescope 0° , enlarged view, diameter 4 mm, length 18 cm, autoclavable , fiber optic light transmission incorporated, color code: green	③⑥	486103 SB	Osteotome , flat, double-edged grinding, width 3 mm, length 19 cm
②	723772	STAMMBERGER Telescope Handle , round	③⑦	486104 SB	Same , width 4 mm
③	403835	COTTLE Nasal Speculum , with set screw, blade length 35 mm, length 13 cm	③⑧	486107 SB	Same , width 7 mm
④	403855	Same , blade length 55 mm	③⑨	174200	COTTLE Metal Mallet
⑤	403875	Same , blade length 75 mm	④①	844219	Bipolar Coagulating Forceps , insulated, bayonet-shaped, blunt, tip 1 mm, length 19 cm
⑥	403390	KILLIAN-STRUJCKEN Nasal Speculum , with set screw, blade length 90 mm, length 15 cm	④②	839330	BRINER Bipolar Suction Cannula , angular, insulated, length of electrodes 3.5 mm, with cut-off hole, outer diameter 4.5 mm
⑦	810506	Septum Needle , angular, LUER-Lock	④③	847000 E	Bipolar High Frequency Cord , length 300 cm (not illustrated)
⑧	208000	Surgical Handle , Fig. 3, length 12.5 cm	④④	839312	SIMMEN Insulated Suction Cannula , distal with not insulated horn, outer diameter 3.5 mm
⑨	208100	Surgical Handle , Fig. 4, length 13.5 cm	④⑤	839312 A	Same , outer diameter 4 mm
⑩	748000	Surgical Handle , Fig. 7, length 16.5 cm	④⑥	839313	Same , outer diameter 4.5 mm
⑪	474000	FREER Elevator , double-ended, length 20 cm	④⑦	26005 M	Unipolar High Frequency Cord , length 300 cm (not illustrated)
⑫	479000	MASING Elevator , double-ended, length 22.5 cm	④⑧	440000	KRAUSE Nasal Snare , length 25 cm
⑬	2x 499001	KILNER-GILLIES Hook , one prong, small curve, length 17 cm	④⑨	443500	Nasal Snare Wires , diameter 0.3 mm, length 10 cm, package of 25 (not illustrated)
⑭	499210	JOSEPH Double Hook , sharp, width 10 mm, length 15 cm	④⑩	523900	COTTLE Bone Crusher , with clip
⑮	791815	REYNOLDS Dissecting Scissors , curved, length 15 cm	④⑪	2x 794014	ROCHESTER-PEAN Artery Forceps , straight, length 14 cm
⑯	511615	METZENBAUM-LAHEY Scissors , curved, length 15 cm	④⑫	2x 535212	HALSTEAD "Mosquito" Artery Forceps , curved, length 12.5 cm
⑰	2x 533113	ADSON Tissue Forceps , micro-model, 1 x 2 teeth, length 12 cm	④⑬	2x 794214	ROCHESTER-PEAN Artery Forceps , curved, length 14 cm
⑱	533112	ADSON Tissue Forceps , 1 x 2 teeth, length 12 cm	④⑭	2x 535412	HALSTEAD "Mosquito" Artery Forceps , straight, 1 x 2 teeth, length 12.5 cm
⑲	793301	Tissue Forceps , 1 x 2 teeth, standard width, length 13 cm	④⑮	516015	Needle Holder , tungsten carbide inserts, length 15 cm
⑳	793403	Tissue Forceps , 1 x 2 teeth, narrow, length 14.5 cm	④⑯	515117	Same , length 17 cm
㉑	2x 533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm	④⑰	791903	MAYO Dissecting Scissors , straight, length 15 cm
㉒	792303	Dressing Forceps , narrow, length 13 cm	④⑱	792003	Same , curved
㉓	792301	Dressing Forceps , standard width, length 13 cm	④⑲	748220	DUPLAY Dressing and Sponge Holding Forceps , length 21 cm
㉔	534015	COTTLE Lower Lateral Forceps , with set screw, with teeth, length 15 cm	④⑳	10x 796109	Towel Forceps , length 9.5 cm
㉕	426620	GRÜNWALD Nasal Dressing Forceps , length 20 cm	④㉑	810805	Cup Medicine , 50 ccm, diameter 57 mm, height 47 mm (not illustrated)
㉖	455500	TAKAHASHI Nasal Forceps , working length 9.5 cm	④㉒	810810	Cup Medicine , 100 ccm, diameter 80 mm, height 30 mm (not illustrated)
㉗	456002	BLAKESLEY Nasal Forceps , size 2, working length 11 cm	Accessories recommended for containers (not illustrated):		
㉘	456003	BLAKESLEY Nasal Forceps , size 3, working length 11 cm	39502 Z	Wire Tray for Cleaning, Sterilization and Storage	
㉙	449002	HEYMANN Nasal Scissors , working length 9.5 cm	39751 A2	Sterilization Container , with MicroStop®	
⑳	488034	CRAIG Septum Forceps , working length 9 cm	39763 A2	Coding Label	
㉑	204809	FERGUSON Suction Tube , 9 Fr.	39762 D2	Color Tab , blue	
㉒	204810	Same , 10 Fr.	Further accessories for cleaning and sterilization		
㉓	204812	Same , 12 Fr.	see catalog HYGIENE		
㉔	204815	Same , 15 Fr.			
㉕	479800 SB	Suction Raspatory , length 19.5 cm			

SIMMEN-BRINER Special Rhinoplasty Set



SIMMEN-BRINER Special Rhinoplasty Set

①	488060	Ala Double Hook , with octagonal handle, with 2 sharp points, width 2 mm, length 16.5 cm
②	2x 477098	Ala Dilator , for preparation and cutting of nostril cartilage, graduated, width 5 x 8 mm, length 9.5 cm
③	506400	AUFRICHT Nasal Retractor , length 16.5 cm
④	488054	AUFRICHT Nasal Retractor , with side protector, length 16.5 cm
⑤	488070	JOSEPH Raspatory , slightly curved, width 4 mm, length 17.5 cm
⑥	489084	Angular Scissors , extra delicate, length 9.5 cm
⑦	488048	KILNER Scissors , curved, sharp/sharp, length 13.5 cm
⑧	513700	FOMON Scissors , curved, working length 6.5 cm
⑨	498822	AIACH Cartilage Graft Forceps , length 15 cm
⑩	516115	RYDER Needle Holder , extra delicate, length 15 cm
⑪	487012	RUBIN Osteotome , width of cut 12 mm, length 16.5 cm
⑫	487014	Same , width of cut 14 mm
⑬	487016	Same , width of cut 16 mm
⑭	486102 SB	Osteotome , width 2 mm, length 19 cm
⑮	523834	Nasal Rasp , tungsten carbide, Fig. 3 and 4
⑯	523856	Same , Fig. 5 and 6
⑰	523878	Same , Fig. 7 and 8
⑱	200600	LEMPERT Rongeur , straight, length 15.5 cm
⑲	469200	ROWLAND-MEYER Nasal Hump Forceps , double joint, curved blades, length 20 cm
⑳	488038	RUBIN Septum Morcelizer , straight, length 20 cm
㉑	498820	AIACH Grid , size 90 x 50 mm
㉒	231000	Hone , "ARKANSAS" oil stone, wedge-shaped, size 10 x 4 cm
㉓	523913	Metal Tray , size 10 x 15 cm

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

39740 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

STAMMBERGER Basic FESS Set
 for Endoscopic Diagnosis and Surgery of Nasal Sinuses
 and Anterior Skull Base (MESSERKLINGER Technique)



8-942

STAMMBERGER Basic FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses
and Anterior Skull Base (MESSERKLINGER Technique)

①	723005 A	Trocar and Cannula for Sinoscopy , fenestrated beak, outer diameter 5 mm
②	400500	HARTMANN Nasal Speculum , for adults, length 13 cm
③	7230 AA	HOPKINS® II Straight Forward Telescope 0° , enlarged view, diameter 4 mm, length 18 cm
④	723770	STAMMBERGER Handle , flat
⑤	723772	Same , round
⑥	7230 BA	HOPKINS® II Forward-Oblique Telescope 30° , enlarged view, diameter 4 mm, length 18 cm
⑦	7230 FA	HOPKINS® II Forward-Oblique Telescope 45° , enlarged view, diameter 4 mm, length 18 cm
⑧	7229 AA	HOPKINS® II Straight Forward Telescope 0° , enlarged view, diameter 2.7 mm, length 18 cm
⑨	7229 BA	HOPKINS® II Forward-Oblique Telescope 30° , enlarged view, diameter 2.7 mm, length 18 cm
	5x 723750 B	Protection Tube for Telescopes (not illustrated)
	15006 B	"ULTRA-STOP" Antifog Solution , 25 ml, pipette bottle (not illustrated)
	15006 C	Same , 30 ml, sterile pierce bottle (not illustrated)
⑩	843219	Bipolar Coagulating Forceps , with integrated suction channel for epistaxis, length 19 cm
	847000 E	Bipolar High Frequency Cord , length 300 cm (not illustrated)
⑪	461015	STAMMBERGER Bipolar Suction Forceps , 45° upturned, with suction channel, working length 12.5 cm
	847002 U	Bipolar High Frequency Cord , for connection to all current bipolar cables, length 40 cm (not illustrated)
⑫	810506	Septum Needle , angular, LUER-Lock
⑬	628001	Sickle Knife , pointed, length 19 cm
⑭	474000	FREER Elevator , double-ended, semisharp and blunt, length 20 cm
⑮	628702	Antrum Curette , oblong, small, length 19 cm
⑯	628712	KUHN-BOLGER Frontal Sinus Curette , curved 55°
⑰	628714	Same , curved 90°
⑱	629703	Antrum Curette , forward cutting, small, length 19 cm
⑲	629820	Probe , double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
⑳	479100	COTTLE Elevator , length 20 cm
㉑	722925	Suction Tube , conical, malleable, outer diameter 2.5 mm
㉒	529309	FRAZIER Suction Tube , 9 Fr., working length 10 cm
㉓	586125	v. EICKEN Antrum Cannula , malleable, outer diameter 2.5 mm
㉔	586130	Same , outer diameter 3 mm
㉕	586231	v. EICKEN Antrum Cannula , outer diameter 3 mm
㉖	586241	Same , outer diameter 4 mm
㉗	653000	HEUWIESER Antrum Grasping Forceps , jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
㉘	456801 B	BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps , 90° upturned, size 1, working length 13 cm
㉙	456501 B	BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps , 45° upturned, size 1, working length 13 cm
㉚	456001 B	BLAKESLEY RHINOFORCE® II Nasal Forceps , straight, size 1, working length 13 cm
㉛	449201	RHINOFORCE® II Nasal Scissors , straight, working length 13 cm
㉜	651010	STAMMBERGER RHINOFORCE® II Forceps, cupped jaws , vertical opening, 65° upturned, cupped jaws diameter 3 mm, working length 12 cm
㉝	651020	Same , horizontal opening
㉞	723033	Biopsy and Grasping Forceps , extra fine, with oval cupped jaws 3 x 5 mm, sheath diameter 1.5 mm, working length 14 cm
㉟	459052	STAMMBERGER Antrum Punch , left side downward and forward cutting
㊱	459051	Same , right side downward and forward cutting
㊲	459012	STAMMBERGER RHINOFORCE® II Antrum Punch , left side backward cutting, working length 10 cm
㊳	459011	Same , right side backward cutting
㊴	455010	STRUYCKEN RHINOFORCE® II Nasal Cutting Forceps , working length 13 cm
㊵	460001	STAMMBERGER Suction Punch , for biopsy and grasping, straight, with central suction channel, working length 10 cm
㊶	460501	Same , curved upwards
㊷	723029	Biopsy and Grasping Forceps , malleable, cupped jaws diameter 4 mm, working length 18 cm
㊸	651050	STAMMBERGER Punch , circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 4.5 mm, working length 18 cm
㊹	651060	STAMMBERGER Punch , circular cutting, 65° upturned, for frontal sinus recess, diameter 3.5 mm, working length 17 cm

Accessories recommended for containers (not illustrated):

39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

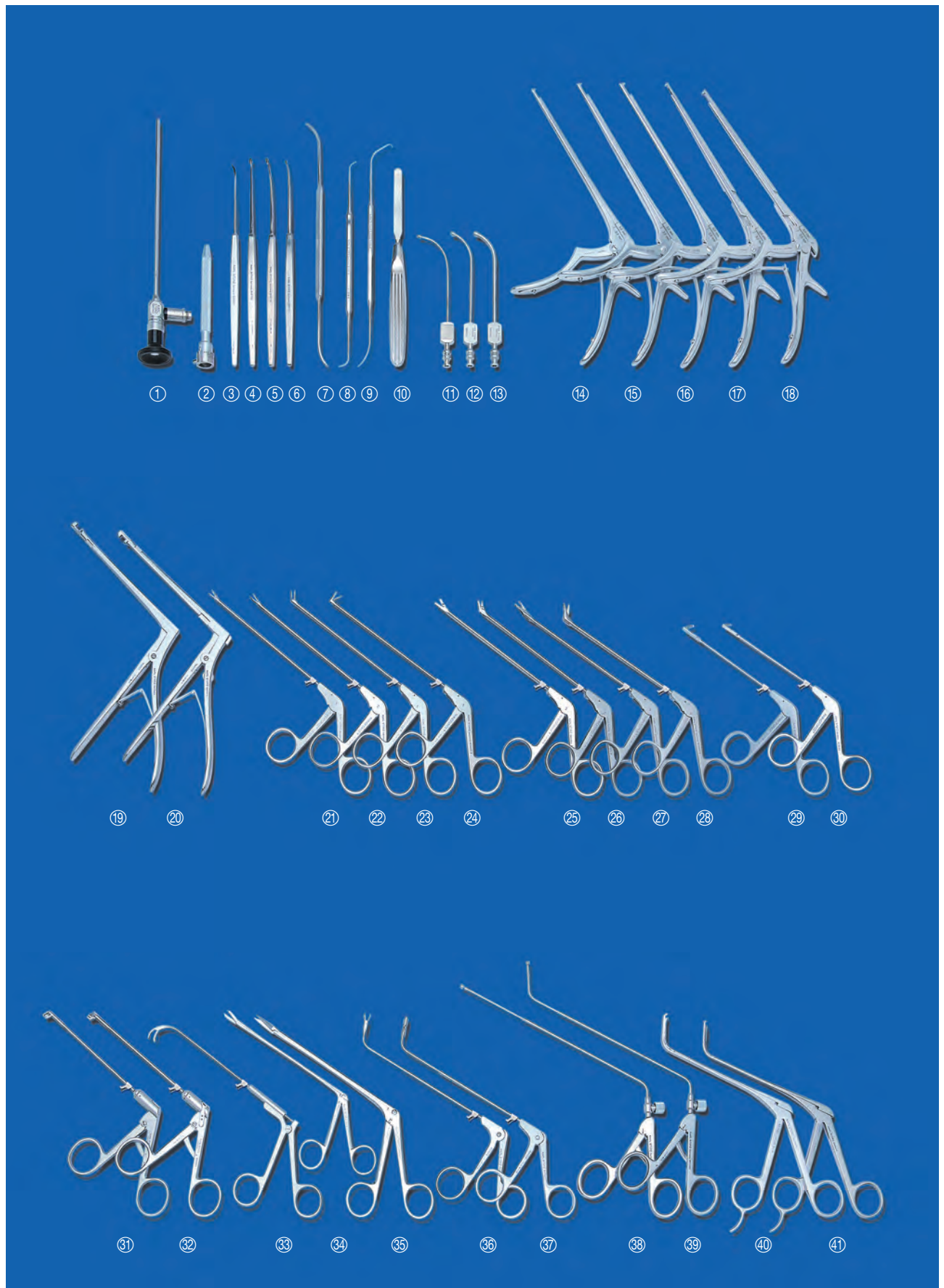
39751 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

SIMMEN-BRINER Special Paranasal Sinus Set



SIMMEN-BRINER Special Paranasal Sinus Set

- ① 7230 FLA **HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 4 mm, length 18 cm, autoclavable, connection for fiber optic light cable on the left, fiber optic light transmission incorporated, color code: black
- ② 723772 **STAMMBERGER Telescope Handle**, round
- ③ 628001 **Sickle Knife**, pointed, length 19 cm
- ④ 628702 **Antrum Curette**, length 19 cm
- ⑤ 628712 **KUHN-BOLGER Frontal Sinus Curette**, curved 55°, length 19 cm
- ⑥ 628714 **Same**, curved 90°
- ⑦ 489010 **Elevator**, double-ended, strongly and slightly curved, length 22 cm
- ⑧ 629820 **Probe**, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
- ⑨ 629824 **CASTELNUOVO Frontal Sinus Probe**, curved, double-ended, length 22 cm
- ⑩ 213008 **PLESTER Elevator**, width 8 mm, length 18 cm
- ⑪ 2x 586125 v. **EICKEN Antrum Cannula**, LUER-Lock, long curved, malleable, serrated grip plate, outer diameter 2.5 mm, length 12.5 cm
- ⑫ 586030 v. **EICKEN Antrum Cannula**, LUER-Lock, long curved, outer diameter 3 mm, length 12.5 cm
- ⑬ 586040 **Same**, outer diameter 4 mm
- ⑭ 662101 **KERRISON Bone Punch**, rigid, 90° upbiting, not through-cutting, size 1 mm, working length 17 cm
- ⑮ 662102 **Same**, size 2 mm
- ⑯ 662103 **Same**, size 3 mm
- ⑰ 662112 **Same**, 90° downbiting, size 2 mm
- ⑱ 662113 **Same**, 90° downbiting, size 3 mm
- ⑲ 649001 **HAJEK-KOFLER Sphenoid Punch**, size 3.5 x 3.7 mm, working length 14 cm
- ⑳ 649002 **Same**, 90° downbiting
- ㉑ 456001 B **BLAKESLEY RHINOFORCE® II Nasal Forceps**, straight, size 1, working length 13 cm
- ㉒ 456002 B **Same**, size 2
- ㉓ 456501 B **BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps**, 45° upturned, size 1, working length 13 cm
- ㉔ 456801 B **BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps**, 90° upturned, size 1, working length 13 cm
- ㉕ 451002 B **GRÜNWALD-HENKE RHINOFORCE® II Nasal Forceps**, straight, through-cutting, for a smooth cut, BLAKESLEY shape, size 2, width 4 mm, working length 13 cm
- ㉖ 451502 B **Same**, 45° upturned
- ㉗ 452002 B **MACKAY-GRÜNWALD RHINOFORCE® II Nasal Forceps**, sharp, straight, through-cutting, extra delicate, for a smooth cut, 11.5 x 3.5 mm, size 2, working length 13 cm
- ㉘ 452502 B **Same**, 45° upturned
- ㉙ 459010 **STAMMBERGER RHINOFORCE® II Antrum Punch**, upside backward cutting, working length 10 cm
- ㉚ 459030 **STAMMBERGER RHINOFORCE® II Antrum Punch**, small pediatric size, upside backward cutting, working length 10 cm
- ㉛ 459051 **STAMMBERGER Antrum Punch**, right side downward and forward cutting, working length 10 cm
- ㉜ 459052 **Same**, left side downward and forward cutting
- ㉝ 653000 **HEUWIESER Antrum Grasping Forceps**, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
- ㉞ 449251 **ZÜRICH Nasal Scissors**, straight, small model, cutting length 12 mm, working length 12 cm
- ㉟ 449250 **ZÜRICH Nasal Scissors**, straight, large model, cutting length 18 mm, working length 14 cm
- ㊱ 650212 **Forceps**, cupped jaws, vertical opening, 70° upturned, cupped jaws diameter 4 mm, working length 12 cm
- ㊲ 650222 **Same**, horizontal opening
- ㊳ 651055 **STAMMBERGER Punch**, circular cutting, for sphenoid, ethmoid and choanal atresia, diameter 3.5 mm, working length 18 cm
- ㊴ 651060 **STAMMBERGER Punch**, circular cutting, 65° upturned, diameter 3.5 mm, working length 17 cm
- ㊵ 651522 **Frontal Sinus Punch**, with link chain sheath 70° upturned, medium (standard size), jaws 3 x 3.5 mm, working length 13 cm
- ㊶ 651521 **Same**, small, jaws 2.5 x 2 mm

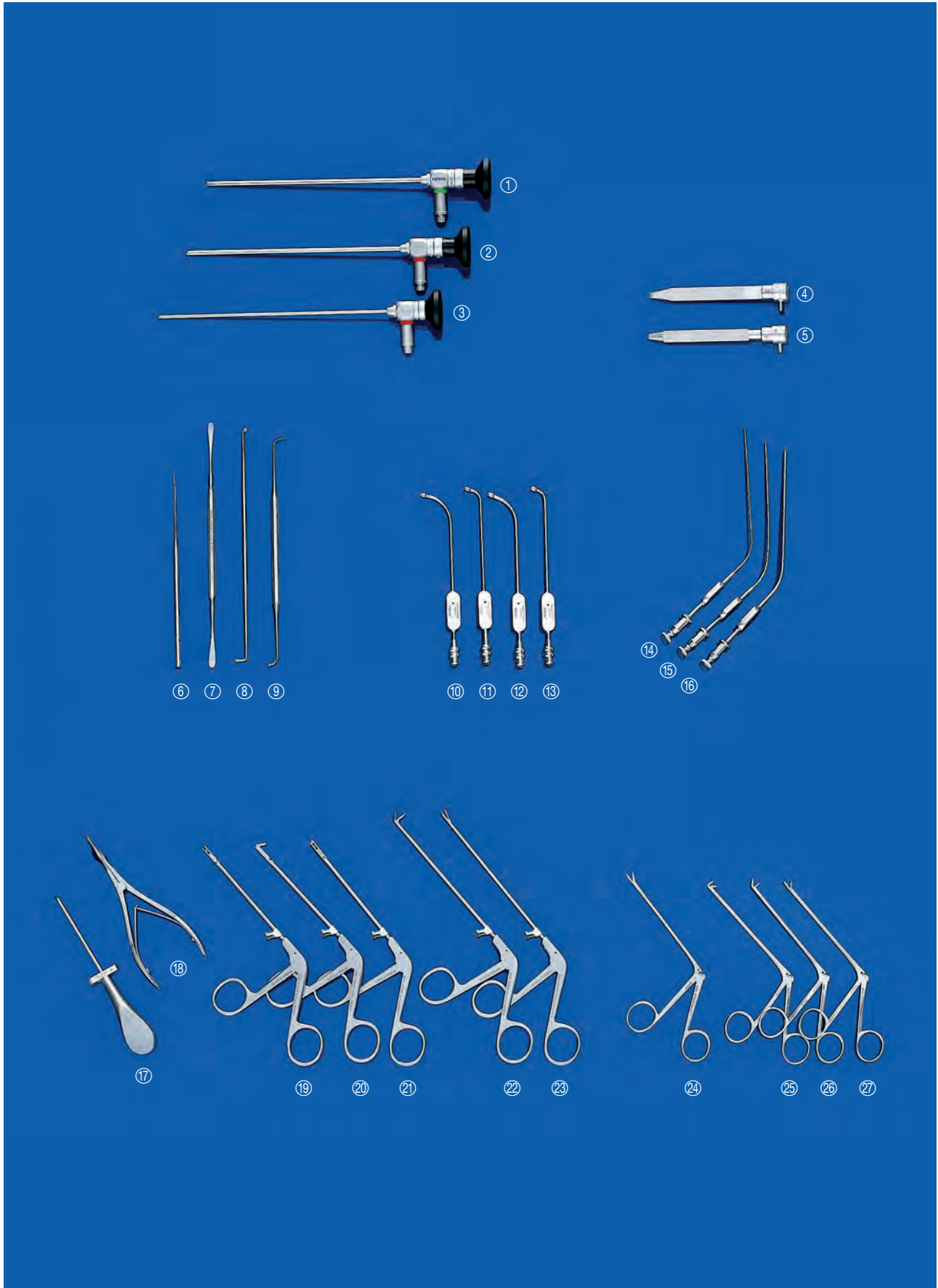
Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Pediatric FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses
and Anterior Skull Base (MESSERKLINGER Technique)



Basic Pediatric FESS Set

for Endoscopic Diagnosis and Surgery of Nasal Sinuses
and Anterior Skull Base (MESSERKLINGER Technique)

Pediatric Set recommended by Prof. WOLF and Prof. STAMMBERGER

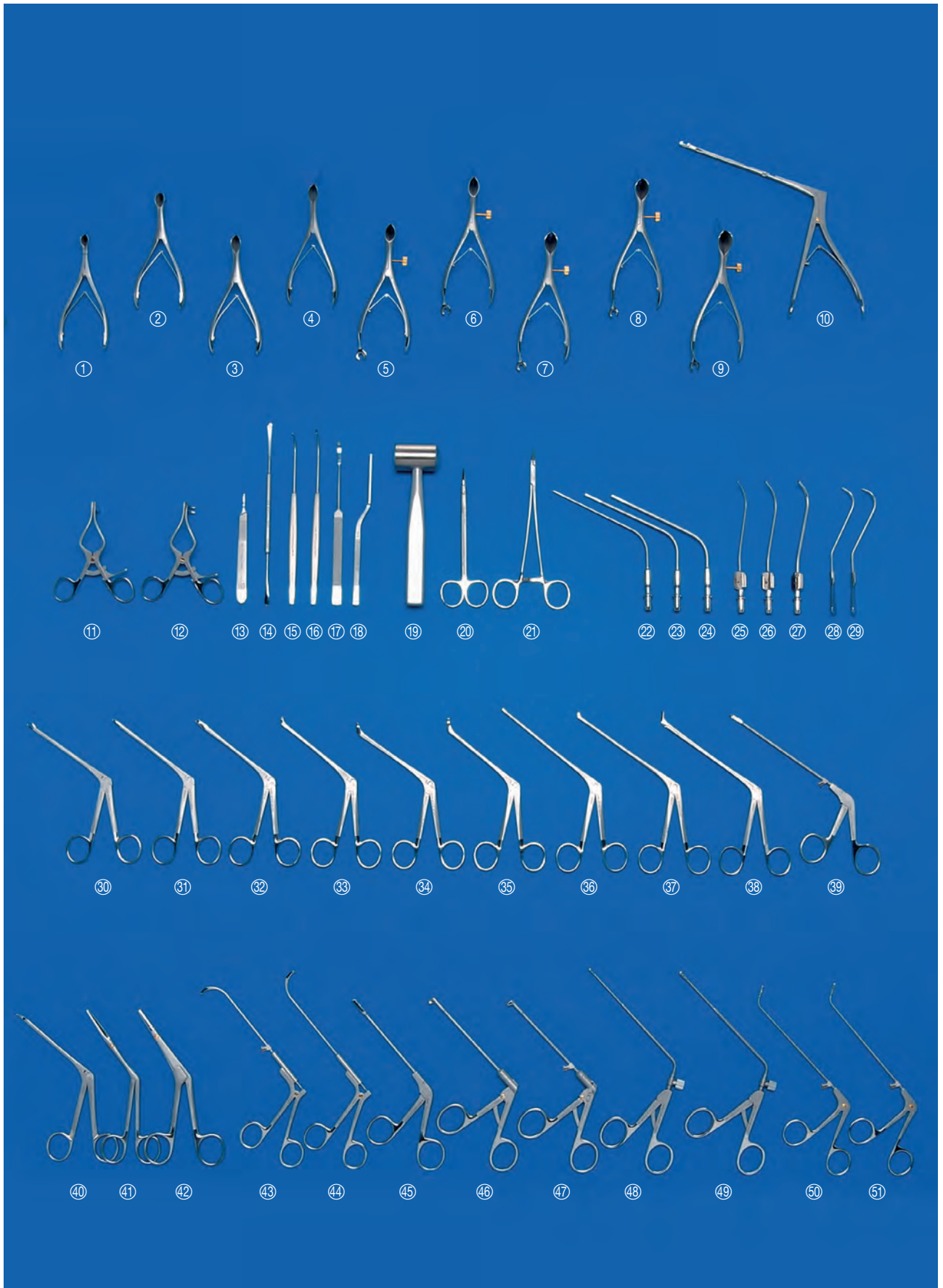
- ① 7230 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 7230 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ③ 7229 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red
- ④ 723770 **STAMMBERGER Handle**, flat, for use with HOPKINS® II Telescope 7230 AA
- ⑤ 723772 **Same**, round, for use with HOPKINS® II Telescopes 7230 BA and 7229 BA
- ⑥ 223300 **PLESTER Sickle Knife**, double-edged, standard model, slightly curved, length 16 cm
- ⑦ 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- ⑧ 628720 **Curette**, double-ended, oval, one side with short 45° curve, semisharp, diameter 2.2 mm, the other side with long 90° curve, sharp, diameter 2.7 mm, length 19 cm
- ⑨ 629820 **Probe**, double-ended, maxillary sinus ostium seeker, ball-shaped ends diameter 1.2 and 2 mm, length 19 cm
- ⑩ 586026 v. **EICKEN Antrum Cannula**, with cut-off hole, long curved, outer diameter 2.5 mm
- ⑪ 586226 **Same**, short curved
- ⑫ 586031 v. **EICKEN Antrum Cannula**, with cut-off hole, long curved, outer diameter 3 mm
- ⑬ 586231 **Same**, short curved
- ⑭ 529305 **FRAZIER Suction Tube**, with distance markings, 5 Fr.
- ⑮ 529307 **Same**, 7 Fr.
- ⑯ 529309 **Same**, 9 Fr.
- ⑰ 723103 B **Trocar for Sinoscopy**, oblique beak, outer diameter 3.3 mm, for use with HOPKINS® II Telescope 7229 BA
- ⑱ 400600 **HARTMANN Nasal Speculum**, for children, length 13 cm
- ⑲ 459032 **STAMMBERGER RHINOFORCE® II Antrum Punch**, small pediatric size, slender, left side backward cutting, with cleaning connector, working length 10 cm
- ⑳ 459030 **Same**, upside backward cutting
- ㉑ 459031 **Same**, right side backward cutting
- ㉒ 456500 B **BLAKESLEY-WILDE RHINOFORCE® II Nasal Forceps**, 45° upturned, size 0, with cleaning connector, working length 13 cm
- ㉓ 456000 B **BLAKESLEY RHINOFORCE® II Nasal Forceps**, straight, size 0, with cleaning connector, working length 13 cm
- ㉔ 634826 **BELLUCCI Scissors**, straight, working length 12.5 cm
- ㉕ 634825 B **STRÜMPEL Forceps**, with oval, fenestrated cupped jaws, 90° upturned, working length 12.5 cm
- ㉖ 634825 A **Same**, 45° upturned
- ㉗ 634824 **Same**, straight

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39740 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

BERGHAUS Instrument Set for Microscopic Surgery of the Paranasal Sinuses



BERGHAUS Instrument Set for Microscopic Surgery of the Paranasal Sinuses

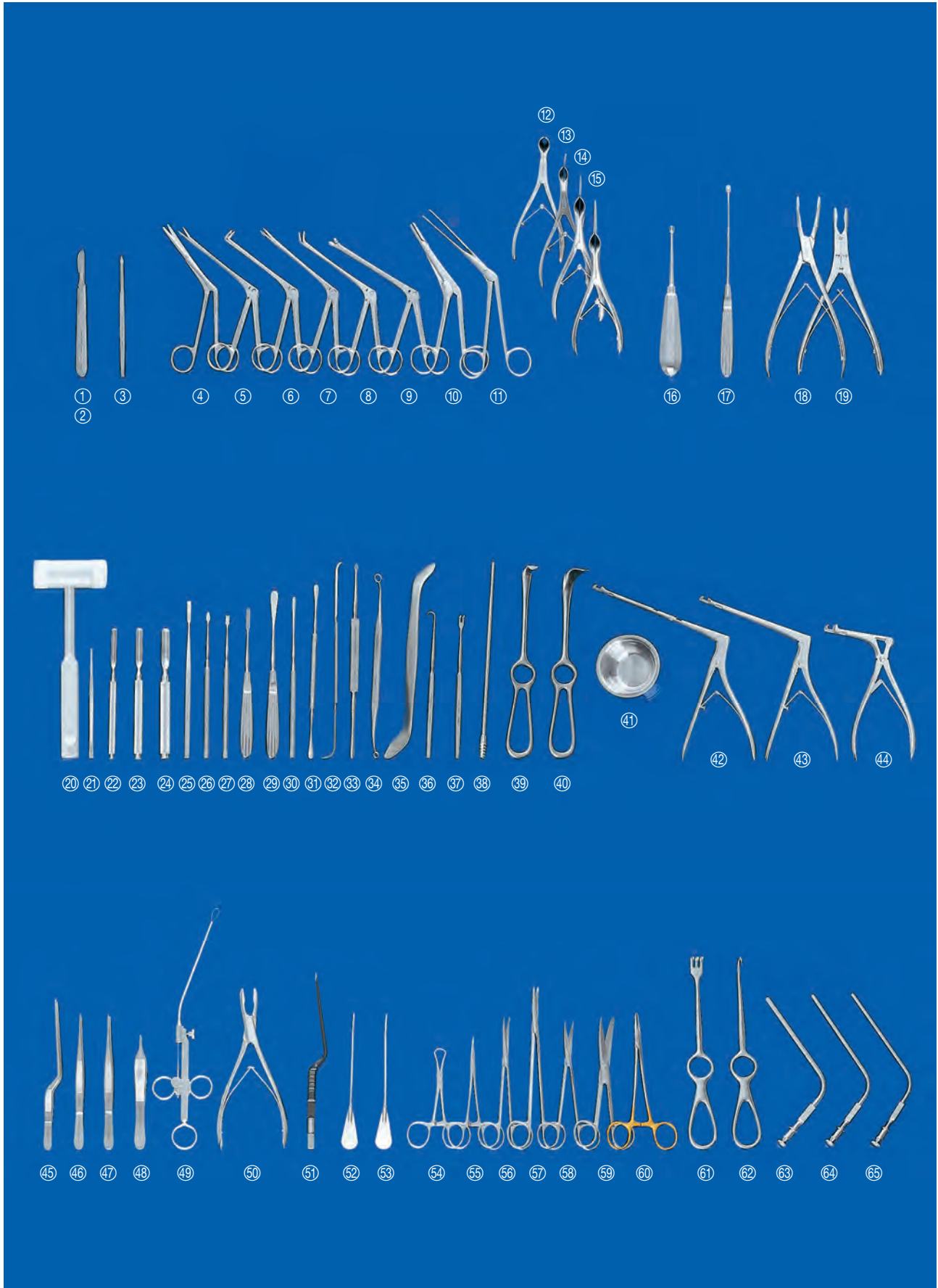
- | | | | | | |
|---|--------|---|----|----------|---|
| ① | 488005 | Nasal Speculum , for children, length 13 cm | ③① | 488042 | BLAKESLEY Nasal Forceps , straight, size 2, working length 11 cm |
| ② | 488002 | COTTLE Nasal Speculum , extra slender, without set screw, special matt finish, blade length 35 mm, length 13 cm | ③② | 488043 | Same , size 3 |
| ③ | 488003 | Same , blade length 55 mm | ③③ | 488141 | BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 1, working length 11 cm |
| ④ | 488004 | Same , blade length 75 mm | ③④ | 488142 | Same , size 2 |
| ⑤ | 488001 | KILLIAN-STRUYCKEN Nasal Speculum , with set screw and adaption for Flexible Tension Arm 723018, 75 mm, length 15 cm | ③⑤ | 488143 | Same , size 3 |
| ⑥ | 488000 | Same , 55 mm | ③⑥ | 488137 | TAKAHASHI Nasal Forceps , straight, delicate, oval cupped jaws, length 12.5 cm |
| ⑦ | 488007 | RUDERT Nasal Speculum , for adults, 15 cm, with set screw and adaption for Flexible Tension Arm 723018, left blade 65 mm long and 15 mm wide, right blade 50 mm long and with 3 mandrels | ③⑦ | 488135 | WATSON-WILLIAMS Nasal Forceps , 45° upturned, delicate, oval cupped jaws, length 12.5 cm |
| ⑧ | 488006 | Same , right blade 65 mm long and 15 mm wide, left blade 50 mm long and with 3 mandrels | ③⑧ | 488139 | Nasal Cutting Forceps , 60° upturned, through-cutting, reverse cutting, working length 12.5 cm |
| ⑨ | 488009 | Same , left blade 75 mm long and 15 mm wide | ③⑨ | 488152 B | GRÜNWALD-HENKE RHINOFORCE® II Nasal Forceps , straight, through-cutting, for a smooth cut, BLAKESLEY shape, size 2, width 4 mm, working length 13 cm |
| | 488008 | Same , right blade 75 mm long and 15 mm wide, left blade 50 mm long and with 3 mandrels (not illustrated) | ④① | 488133 | Nasal Scissors , light model, length of blades 10 mm, serrated, curved to left, working length 11 cm |
| | 723017 | Rotating Clamp (not illustrated) | | 488132 | Same , curved to right (not illustrated) |
| | 723018 | Flexible Tension Arm (not illustrated) | ④② | 488032 | HEYMANN Nasal Scissors , medium size, special matt finish, working length 9.5 cm |
| ⑩ | 488160 | HAJEK-KOFLER Sphenoid Punch , not through-cutting, reversible, size 3.2 mm x 4 mm, working length 17 cm | ④③ | 488034 | CRAIG Septum Forceps , straight, special matt finish, working length 9 cm |
| ⑪ | 488102 | PLESTER Retractor , 2 blades on left, full blade on right, length 11 cm | ④④ | 488180 | HEUWIESER Antrum Forceps , fixed jaw curved 90°, movable jaw backward opening, working length 10 cm |
| ⑫ | 488101 | Same , 2 prongs on right, full blade on left, length 11 cm | ④⑤ | 488181 | HEUWIESER Grasping Forceps , fixed jaws, curved upwards 90°, movable jaw opening backwards up to 120°, working length 10 cm |
| ⑬ | 488090 | Scalpel Handle , No. 3, special matt finish, length 12.5 cm | ④⑥ | 488170 | STAMMBERGER RHINOFORCE® II Antrum Punch , upside backward cutting, working length 10 cm |
| ⑭ | 488074 | FREER Elevator , double-ended, sharp and blunt, special matt finish, length 20 cm | ④⑦ | 488174 | STAMMBERGER Antrum Punch , right side downward and forward cutting, working length 10 cm |
| ⑮ | 488110 | KUHN-BOLGER Frontal Sinus Curette , 90° curved, oval, forward cutting, length 19 cm | ④⑧ | 488175 | Same , left side downward and forward cutting |
| ⑯ | 488111 | Same , 55° curved | ④⑨ | 488190 | STAMMBERGER Punch , circular cutting, diameter 3.5 mm, working length 13.5 cm |
| ⑰ | 488071 | JOSEPH Elevator , strongly curved, special matt finish, width 3.4 mm, length 17.5 cm | ⑤① | 488192 | Same , diameter 4.5 mm |
| ⑱ | 488018 | KILLIAN-CLAUS Septum Chisel , with V-shaped cutting edge, special matt finish, width 5 mm, length 16.5 cm | ⑤② | 488197 | KUHN-BOLGER Forceps , cupped jaws, horizontal opening, 55° upturned, jaws diameter 3 mm, working length 12 cm |
| ⑲ | 174200 | COTTLE Metal Mallet , length 18 cm | ⑤③ | 488195 | Same , vertical opening |
| ⑳ | 488050 | KILNER Scissors , curved, flat end, blunt/blunt, special matt finish, length 15.5 cm | | | |
| ㉑ | 488080 | RYDER Needle Holder , tungsten carbide inserts, extra delicate and flat, special matt finish, length 18 cm | | | |
| ㉒ | 488084 | FERGUSON Suction Tube , with cut-off hole and stylet, LUER, special matt finish, outer diameter 8 Fr., working length 11 cm | | | |
| ㉓ | 488085 | Same , outer diameter 10 Fr. | | | |
| ㉔ | 488086 | Same , outer diameter 12 Fr. | | | |
| ㉕ | 488117 | Suction Tube , for frontal sinus, with cut-off hole, LUER, outer diameter 2.5 mm, length 14.5 cm | | | |
| ㉖ | 488118 | Same , outer diameter 3 mm | | | |
| ㉗ | 488119 | Same , outer diameter 4 mm | | | |
| ㉘ | 488114 | RITTER Frontal Sinus Bougie , size 1, diameter 2.5 mm, length 14.5 cm | | | |
| ㉙ | 488115 | Same , size 2, diameter 3 mm | | | |
| ㉚ | 488041 | BLAKESLEY Nasal Forceps , slender, straight, special matt finish, size 1, working length 11 cm | | | |

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

CALDWELL-LUC Basic Set for Paranasal Sinus Surgery



CALDWELL-LUC Basic Set for Paranasal Sinus Surgery

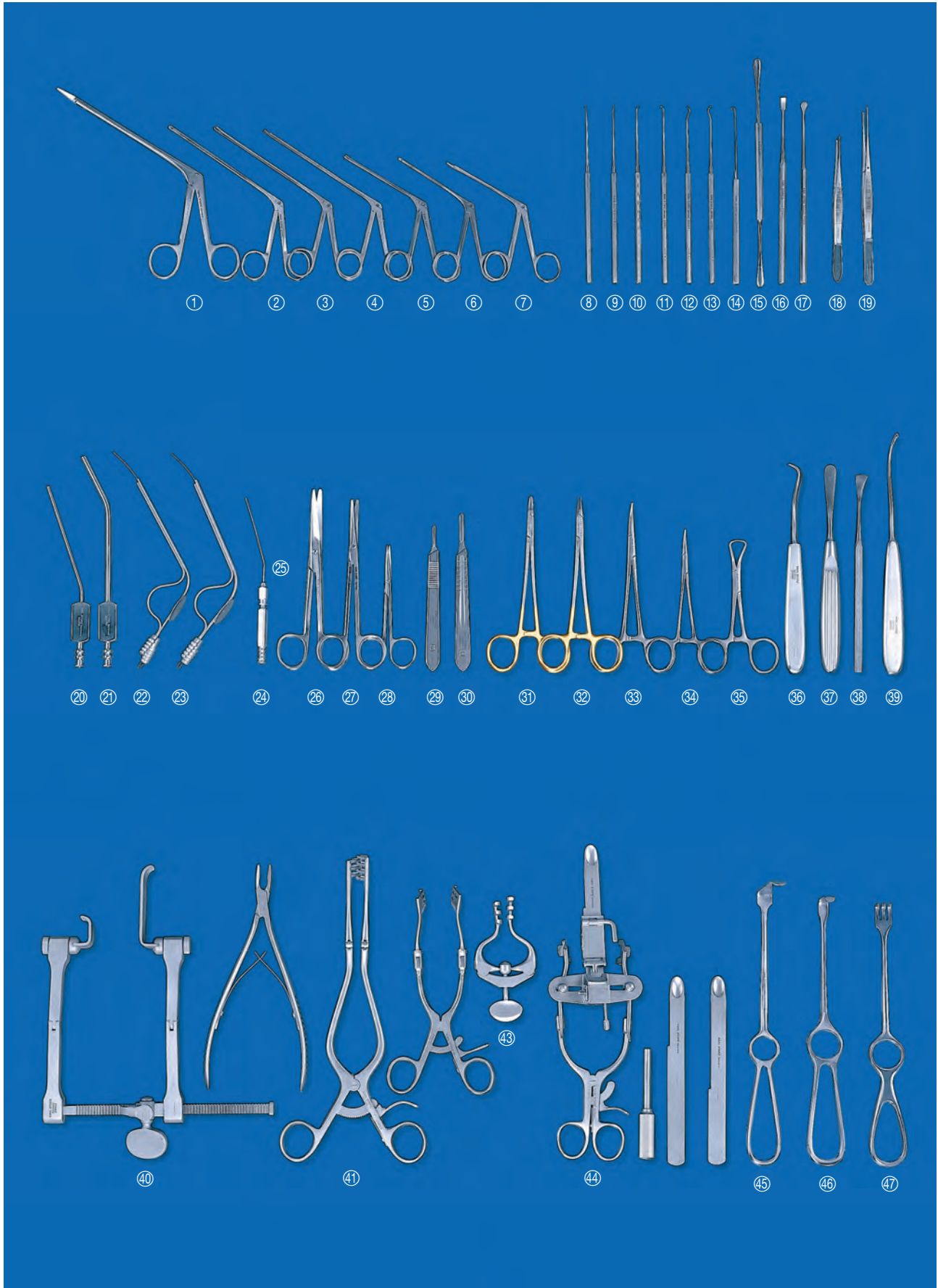
①	208000	Surgical Handle , Fig. 3, length 12.5 cm	④③	649001	HAJEK-KOFLER Sphenoid Punch , rigid, 90° upbiting, not through-cutting, size 3.5 x 3.7 mm, working length 14 cm
②	208010	Blade , Fig. 10, non-sterile, package of 100			
	208011	Same , Fig. 11 (not illustrated)	④④	201503	CITELLI Rongeur , size 3
	208015	Same , Fig. 15 (not illustrated)	④⑤	2x 426516	JANSEN Nasal Dressing Forceps , bayonet-shaped, length 16.5 cm
③	496800	Nasal Knife , curved, length 13.5 cm	④⑥	2x 792402	Dressing Forceps , length 14.5 cm
④	449002	HEYMANN Nasal Scissors , medium	④⑦	2x 793402	Tissue Forceps , 1 x 2 teeth, length 14.5 cm
⑤	456002	BLAKESLEY Nasal Forceps , straight, size 2	④⑧	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth
⑥	456803	BLAKESLEY-WILDE Nasal Forceps , 90° upturned, size 3	④⑨	440000	KRAUSE Nasal Snare , length 25 cm
⑦	456003	BLAKESLEY Nasal Forceps , straight, size 3		443500	Package of Nasal Snare Wires , for 440000, standard size, diameter 0.3 mm, length 10 cm, package of 25 (not illustrated)
⑧	456502	BLAKESLEY-WILDE Nasal Forceps , 45° upturned, size 2	⑤⑩	200800	LUER-HARTMANN Rongeur
⑨	450001	HARTMANN Nasal Cutting Forceps , round, size 1	⑤①	844219	Bipolar Coagulating Forceps
⑩	466000	CRAIG Septum Forceps , straight	⑤②	641525	Bipolar High Frequency Cord for 844219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
⑪	430300	LUBET-BARBON Nasal Dressing Forceps	⑤③	641530	RITTER Frontal Sinus Bougie , size 1
⑫	400500	HARTMANN Nasal Speculum , length 13 cm	⑤④	8x 796011	Same , size 2
⑬	403655	COTTLE Nasal Speculum , blade length 55 mm, length 13 cm	⑤⑤	6x 535212	BACKHAUS Towel Forceps , length 11 cm
⑭	403575	KILLIAN-STRUYCKEN Nasal Speculum , blade length 75 mm, length 13.5 cm	⑤⑥	511615	HALSTEAD "Mosquito" Artery Forceps , curved
⑮	403590	Same , blade length 90 mm	⑤⑦	752918	METZENBAUM-LAHEY Scissors , curved, extra slender
⑯	175802	SPRATT Mastoid Curette , size 2	⑤⑧	511414	METZENBAUM Scissors , curved, length 18 cm
⑰	628501	HALLE Antrum Curette , malleable, size 1	⑤⑨	791202	JOSEPH Scissors , curved, length 14 cm
⑱	201000	JANSEN Rongeur , bayonet-shaped	⑥①	2x 516015	Scissors , curved, pointed/blunt, length 14.5 cm
⑲	201200	LUER-RUSKIN Rongeur	⑥②	2x 800403	Needle Holder , tungsten carbide inserts, length 15 cm
⑳	174800	Metal Mallet , with plastic surfaces	⑥③	800401	VOLKMANN Retractors , sharp, 3 prongs, length 21 cm
㉑	173202	PASSOW Chisel , hemostatic, 2 x 2 mm	⑥④	204815	Same , 1 prong
㉒	170505	TRAUTMANN Mastoid Gauge , width 5 mm	⑥⑤	204812	FERGUSON Suction Tube , 15 Fr.
㉓	170507	Same , width 7 mm		204810	Same , 12 Fr.
㉔	170509	Same , width 9 mm			Same , 10 Fr.
㉕	634100	WEST Chisel , width 4 mm			
㉖	212000	WULLSTEIN Elevator			
㉗	477500	FREER Raspatory , curved, width 4 mm, length 18 cm			
㉘	478000	JOSEPH Elevator			
㉙	479408	COTTLE Elevator , width 8 mm			
㉚	477004	HALLE Elevator , width 4 mm			
㉛	474000	FREER Elevator , double-ended			
㉜	479200	COTTLE Elevator , double-ended			
㉝	479000	MASING Elevator , double-ended			
㉞	629500	FAULKNER Antrum Curette			
㉟	635000	Orbital Retractor			
㊱	2x 786001	Retractor , sharp, one prong			
㊲	2x 786002	Same , two prongs			
㊳	2x 203930	Suction Tube , malleable, LUER, outer diameter 3 mm, length 22.5 cm			
㊴	2x 801800	LANGENBECK Retractors , 33 x 14 mm			
㊵	2x 801600	Same , 60 x 20 mm			
㊶	2x 810806	Cup Medicine , 60 ccm			
㊷	2x 810810	Same , 100 ccm (not illustrated)			
㊸	648500	HAJEK-KOFLER Sphenoid Punch , reversible			

Accessories recommended for containers (not illustrated):

39502 Z	Wire Tray for Cleaning, Sterilization and Storage
39752 A2	Sterilization Container , with MicroStop®
39763 A2	Coding Label
39762 D2	Color Tab , blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

FISCH Special Set for Lateral Skull Base Surgery



FISCH Special Set for Lateral Skull Base Surgery

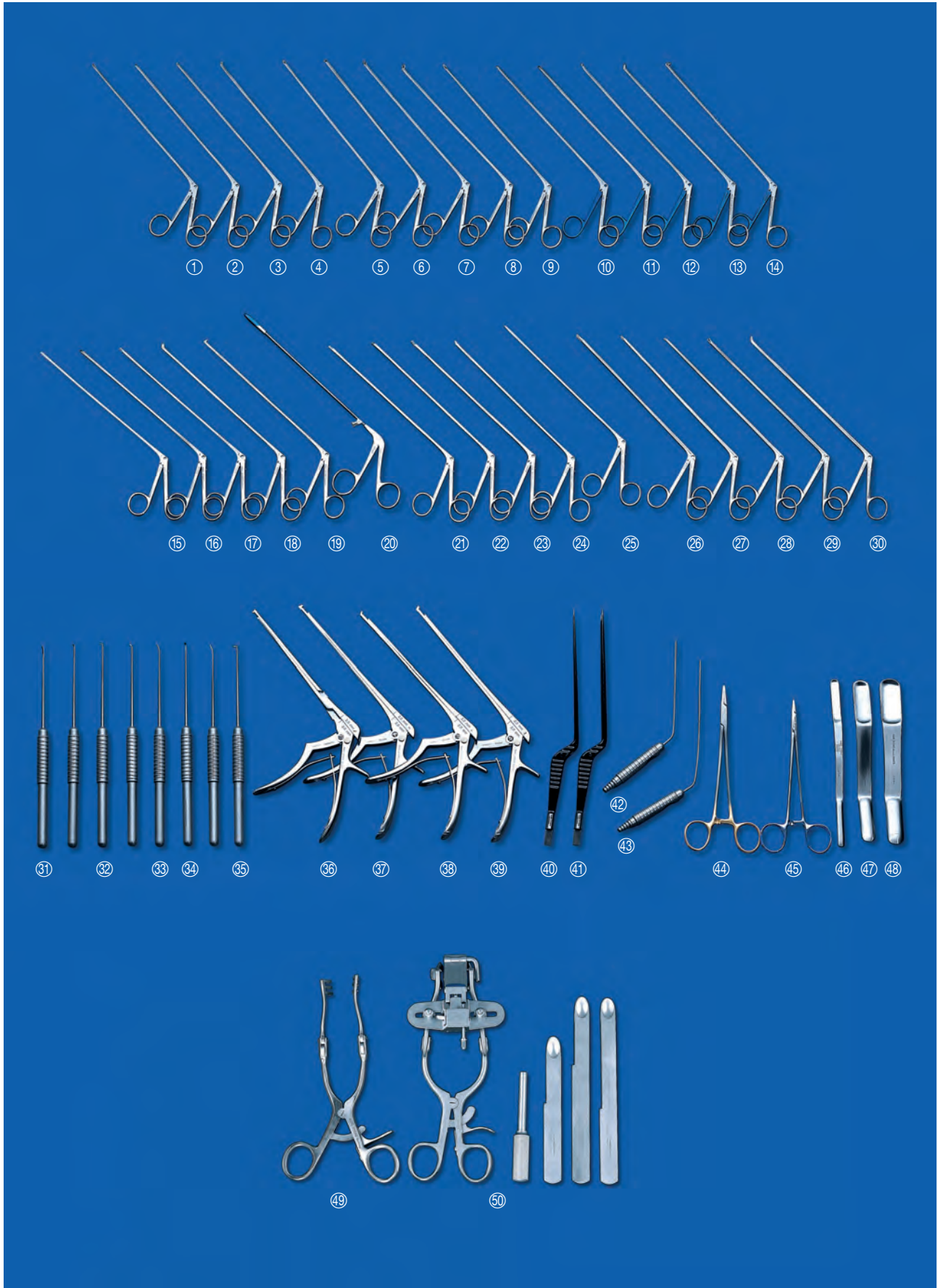
- ① 449250 **Nasal Scissors**, ZÜRICH model, straight, working length 14 cm
- ② 221454 **FISCH Ear Forceps**, round cupped jaws, diameter 3 mm, working length 12.5 cm
- ③ 634822 **HARTMANN Forceps**, with round cupped jaws, diameter 2.5 mm, working length 12.5 cm
- ④ 222650 **BELLUCCI Scissors**, delicate, straight, working length 12.5 cm
- ⑤ 162020 **HARTMANN Ear Forceps**, round cupped jaws, diameter 2 mm
- ⑥ 222801 **FISCH-DIETER Malleus Nipper**, width 0.8 mm, working length 8 cm
- ⑦ 222501 **FISCH-BELLUCCI Scissors**, extra delicate, blade length 7 mm, working length 8 cm
- ⑧ 225415 **Hook**, 45°, 1.5 mm, length 16 cm
- ⑨ 226301 **FISCH Tenotome**, sickle-shaped, extra delicate, length 16 cm
- ⑩ 226102 **FISCH Micro Raspatory**, single curved to left, length 16 cm
- ⑪ 226101 **Same**, single curve, to right
- ⑫ 226001 **Same**, double curve, to right
- ⑬ 226002 **Same**, double curve, to left
- ⑭ 499101 **Hook**, one prong, sharp curve, length 16.5 cm
- ⑮ 474000 **FREER Elevator**, double-ended, semisharp and blunt, length 20 cm
- ⑯ 477500 **FREER Raspatory**, curved, width 4 mm, length 18 cm
- ⑰ 213005 **FISCH Dura Elevator**
- ⑱ 793303 F **Tissue Forceps**, toothed, 1 x 2 teeth, slender, soft spring, length 13 cm
- ⑲ 214000 F **WULLSTEIN Forceps**, serrated, length 15 cm
- ⑳ 204735 **FISCH Suction Tube**, outer diameter 3 mm
- ㉑ 204738 **Same**, outer diameter 5 mm
- ㉒ 206600 **FISCH Suction and Irrigation Tube**, cylindrical, suction tube outer diameter 2.5 mm, irrigation tube outer diameter 2 mm, working length 9.5 cm
- ㉓ 206700 **Same**, suction tube outer diameter 1.9 mm, irrigation tube outer diameter 1.9 mm
- ㉔ 204200 **FISCH Adaptor**, for Suction Tubes 204005 – 204025, 204305 – 204330, with cut-off hole, LUER cone, length 5.5 cm
- ㉕ 204354 **Suction Tube**, angular, outer diameter 1 mm, working length 7 cm
- ㉖ 792026 **MAYO-LEXER Scissors**, tungsten carbide, length 16 cm
- ㉗ 511514 **METZENBAUM Scissors**, curved, length 14 cm
- ㉘ 213410 **FISCH Scissors**, extra delicate, curved, sharp/sharp, length 10.5 cm
- ㉙ 208000 **Surgical Handle**, Fig. 3, length 12.5 cm
- ㉚ 208100 **Surgical Handle**, Fig. 4, length 13.5 cm
- ㉛ 516015 **Needle Holder**, tungsten carbide inserts, length 15 cm
- ㉜ 516115 **RYDER Needle Holder**, extra delicate, length 15 cm
- ㉝ 536214 **Artery Forceps**, PROVIDENCE model, delicate, curved, length 14 cm
- ㉞ 535312 **HALSTEAD "Mosquito" Artery Forceps**, micro-model, curved, length 12.5 cm
- ㉟ 796011 **BACKHAUS Towel Forceps**, length 11 cm
- ㊱ 213015 **FISCH Periosteal Elevator**, sharp, angled, width 11 mm, length 21 cm
- ㊲ 169027 **JANSEN Elevator**, width 9 mm, length 17.5 cm
- ㊳ 213011 **FISCH Elevator**, sharp, width 10 mm, length 16 cm
- ㊴ 800005 **FISCH Aneurysm Needle**, length 20 cm
- ㊵ 219900 **FISCH Glomus Retractor**, size 21 x 16 cm
- ㊶ 219724 **Retractor**, articulated, 3 x 4 prongs, sharp, length 24 cm
- ㊷ 219717 **FISCH Retractor**, semisharp, length 17 cm
- ㊸ 215001 **JANSEN Retractor**, blunt
- ㊹ 219800 **FISCH Dura Retractor**, length 18 cm
- ㊺ 801708 **KOCHER-LANGENBECK Retractor**, size 65 x 14 mm, length 21.5 cm
- ㊻ 801702 **Same**, 35 x 8 mm
- ㊼ 800403 **VOLKMANN Retractor**, sharp, 3 prongs, length 21 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DRAF Special Set for Lateral Skull Base Surgery



DRAF Special Set for Lateral Skull Base Surgery

- ① 662202 **Forceps**, straight, extra delicate, oval cupped jaws, width 0.6 mm, working length 15 cm
- ② 662203 **Same**, curved to right
- ③ 662204 **Same**, curved to left
- ④ 662205 **Same**, 45° upturned
- ⑤ 662231 **Forceps**, straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm
- ⑥ 662236 **Same**, curved to left
- ⑦ 662235 **Same**, curved to right
- ⑧ 662237 **Same**, 45° upturned
- ⑨ 662241 **Forceps**, straight, round cupped jaws, diameter 4 mm, working length 15 cm
- ⑩ 662210 **Forceps**, straight, not through-cutting, extra sharp, width 1.5 mm, working length 15 cm
- ⑪ 662212 **Same**, curved to right
- ⑫ 662213 **Same**, curved to left
- ⑬ 662214 **Same**, 45° upturned
- ⑭ 662215 **Same**, 90° upturned
- ⑮ 662221 **Forceps**, straight, not through-cutting, with oval, fenestrated spoon, width 1.5 mm, working length 15 cm
- ⑯ 662223 **Same**, curved to right
- ⑰ 662224 **Same**, curved to left
- ⑱ 662227 **Same**, 45° upturned
- ⑲ 662228 **Same**, 90° upturned
- ⑳ 662248 **BLAKESLEY Forceps**, straight, with oval, fenestrated cupped jaws, width 4 mm, working length 15 cm
- ㉑ 662251 **Miniature Forceps**, straight, through-cutting, working length 15 cm
- ㉒ 662255 **Same**, curved to right
- ㉓ 662256 **Same**, curved to left
- ㉔ 663257 **Same**, curved upwards
- ㉕ 662271 **Grasping Forceps**, straight, fine serrated, working length 15 cm
- ㉖ 662300 **Scissors**, straight, working length 15 cm
- ㉗ 662301 **Scissors**, straight, extra delicate, working length 15 cm
- ㉘ 662304 **Same**, curved to right
- ㉙ 662305 **Same**, curved to left
- ㉚ 662307 **Same**, 45° curved upwards
- ㉛ 663402 **Sickle Knife**, length 21.5 cm
- ㉜ 663482 **Hook**, with ball end, angled 90°, length 21.5 cm
- ㉝ 663413 **Round Knife**, angled 30°, oval, with round handle, 2.1 x 2.5 mm, length 21.5 cm
- ㉞ 663405 **Round Knife**, vertical, 4.5 x 3 mm, length 21.5 cm
- ㉟ 663463 **Sharp Curette**, oval, angled 60°, 2 x 3.2 mm
- ㊱ 662111 **KERRISON Bone Punch**, rigid, 90° downbiting, not through-cutting, size 1 mm, working length 17 cm
- ㊲ 662100 **Same**, 90° upbiting, size 0.5 mm
- ㊳ 662122 **Same**, upbiting 40° forward, size 2 mm
- ㊴ 662120 **Same**, upbiting 40° forward, size 0.7 mm
- ㊵ 844523 **Bipolar Coagulating Forceps**, insulated, bayonet-shaped, tip 0.7 mm, length 23 cm
- ㊶ 844623 **Same**, blunt, width of tip 1.2 mm
- 847000 E **Bipolar High Frequency Cord**, for 844523 and 844623, to KARL STORZ Coagulator AUTOCON® and Erbe Coagulator (not illustrated)
- ㊷ 663814 **Suction Tube**, angular, malleable, diameter 2 mm, working length 10 cm
- ㊸ 663818 **Same**, working length 13 cm
- ㊹ 798618 **HEGAR Needle Holder**, slender, tungsten carbide inserts, length 18 cm
- ㊺ 799016 **DRAF Micro Needle Holder**, with diamond coated jaws, length 16.5 cm
- ㊻ 662476 **OLIVECRONA Brain Spatula**, concave, elastic, width 7 and 9 mm, length 18 cm
- ㊼ 662477 **Same**, width 11 and 13 mm
- ㊽ 662478 **Same**, width 15 and 18 mm, complete

Additional instruments for transtemporal surgery

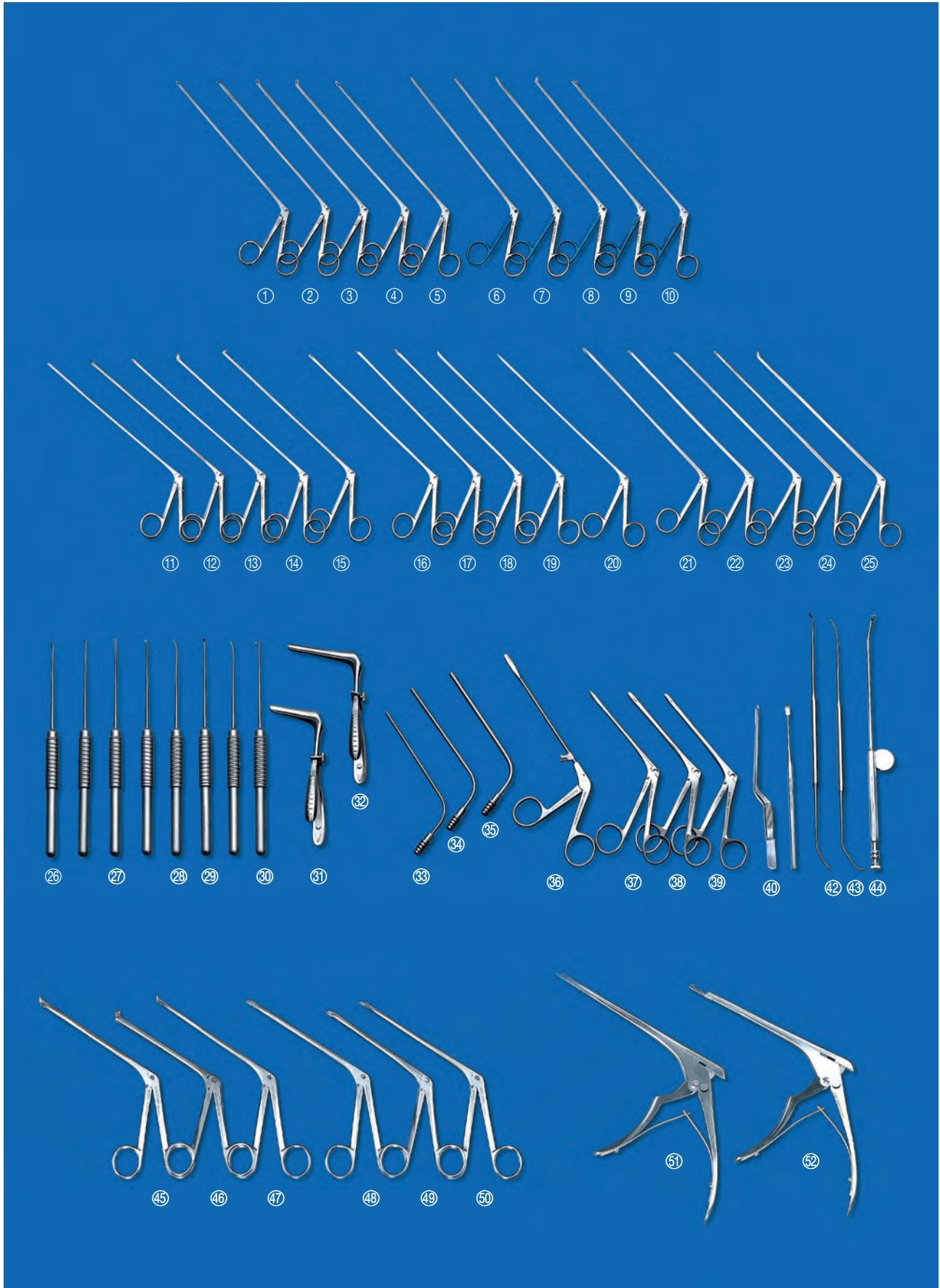
- ㊿ 219717 B **FISCH Retractor**, sharp, length 17 cm
- ① 219800 **FISCH Dura Retractor**, length 18 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

DRAF Special Set for Endonasal Anterior Skull Base Surgery



DRAF Special Set for Endonasal Anterior Skull Base Surgery

- ① 662231 **Forceps**, straight, with round cupped jaws, diameter 2.5 mm, working length 15 cm
- ② 662235 **Same**, curved to right
- ③ 662236 **Same**, curved to left
- ④ 662237 **Same**, 45° upturned
- ⑤ 662241 **Forceps**, straight, with round cupped jaws, diameter 4 mm, working length 15 cm
- ⑥ 662210 **Forceps**, straight, not through-cutting, extra sharp, with oval, fenestrated spoon, width 1.5 mm, working length 15 cm
- ⑦ 662212 **Same**, curved to right
- ⑧ 662213 **Same**, curved to left
- ⑨ 662214 **Same**, 45° upturned
- ⑩ 662215 **Same**, 90° upturned
- ⑪ 662221 **Forceps**, straight, not through-cutting, with oval, fenestrated spoon, width 1.8 mm, working length 15 cm
- ⑫ 662223 **Same**, curved to right
- ⑬ 662224 **Same**, curved to left
- ⑭ 662227 **Same**, 45° upturned
- ⑮ 662228 **Same**, 90° upturned
- ⑯ 662251 **Miniature Forceps**, straight, through-cutting, working length 15 cm
- ⑰ 662255 **Same**, curved to right
- ⑱ 662256 **Same**, curved to left
- ⑲ 662257 **Same**, curved upwards
- ⑳ 662271 **Grasping Forceps**, fine serrated, working length 15 cm
- ㉑ 662300 **Scissors**, straight, working length 15 cm
- ㉒ 662301 **Scissors**, straight, extra delicate, working length 15 cm
- ㉓ 662304 **Same**, curved to right
- ㉔ 662305 **Same**, curved to left
- ㉕ 662307 **Same**, 45° upturned
- ㉖ 663402 **Sickle Knife**, length 21.5 cm
- ㉗ 663482 **Hook**, with ball end, angled 90°, length 21.5 cm
- ㉘ 663413 **Round Knife**, angled 30°, oval, 2.1 x 2.5 mm, length 21.5 cm
- ㉙ 663405 **Round Knife**, vertical, 4.5 x 3 mm, length 21.5 cm
- ㉚ 663463 **Curette**, sharp, oval, angled 60°, 2 x 3.2 mm
- ㉛ 403255 KILLIAN-STRUJCKEN **Nasal Speculum**, with set rack, blade length 55 mm
- ㉜ 403275 **Same**, blade length 75 mm
- ㉝ 203730 **Suction Tube**, diameter 3 mm, working length 11 cm
- ㉞ 203740 **Same**, outer diameter 4 mm
- ㉟ 203750 **Same**, outer diameter 5 mm
- ㊱ 449201 **RHINOFORCE® II Nasal Scissors**, straight, working length 13 cm
- ㊲ 456001 BLAKESLEY **Nasal Forceps**, size 1
- ㊳ 456003 **Same**, size 3
- ㊴ 456002 **Same**, size 2
- ㊵ 426516 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- ㊶ 477500 FREER **Raspatory**, curved, width 4 mm, length 18 cm
- ㊷ 28164 EB CASTELNUOVO **Elevator, double-ended**, blunt end slightly curved, length 26 cm
- ㊸ 28164 EC CASTELNUOVO **Elevator, double-ended**, semisharp end slightly curved, graduated, length 26 cm
- ㊹ 28164 ES CASTELNUOVO **Suction Elevator**, length 25 cm

Additional instruments: through-cutting nasal forceps

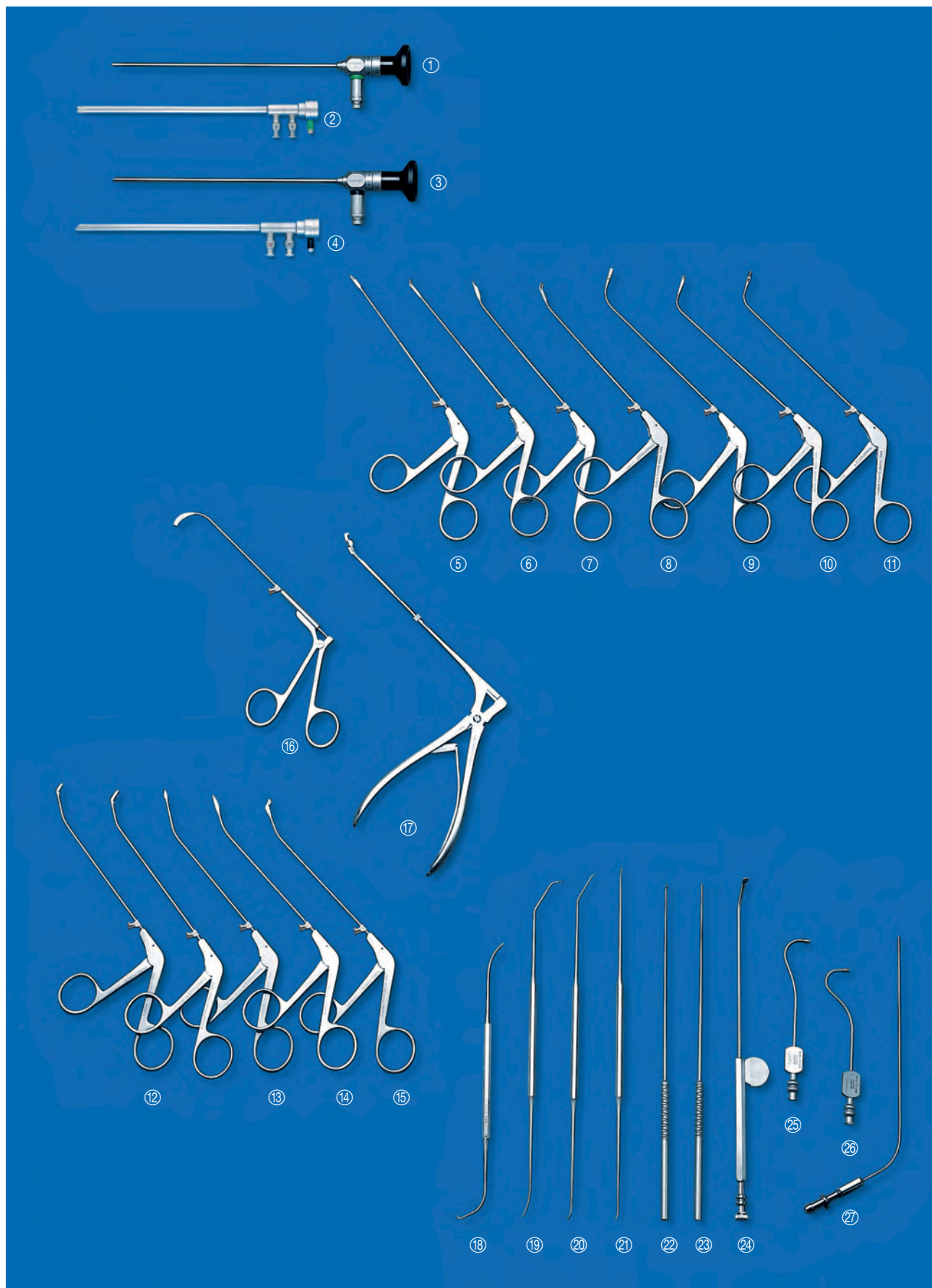
- ④⑤ 453710 **Nasal Cutting Forceps**, 45° upturned, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
- ④⑥ 453723 **Nasal Cutting Forceps**, 45° upturned, through-cutting, strong model, medium size, bite 2.75 x 6 mm, working length 10.5 cm
- ④⑦ 453721 **Same**, bite 1.5 x 4 mm, working length 12.5 cm
- ④⑧ 453508 **Nasal Cutting Forceps**, straight, through-cutting, slender model, with flat jaws, bite 3 x 4 mm, working length 12.5 cm
- ④⑨ 453510 **Nasal Cutting Forceps**, straight, through-cutting, strong model, small, bite 2.5 x 6.5 mm, working length 10.5 cm
- ⑤⑩ 453509 **Same**, fine, bite 1.25 x 5 mm, working length 12.5 cm
- ⑤⑪ 662102 KERRISON **Bone Punch**, rigid, 90° upbiting, not through-cutting, size 2 mm, working length 17 cm
- ⑤⑫ 662103 **Same**, size 3 mm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

CASTELNUOVO Special Set for Endonasal Endoscopic Anterior Skull Base Surgery



CASTELNUOVO Special Set for Endonasal Endoscopic Anterior Skull Base Surgery

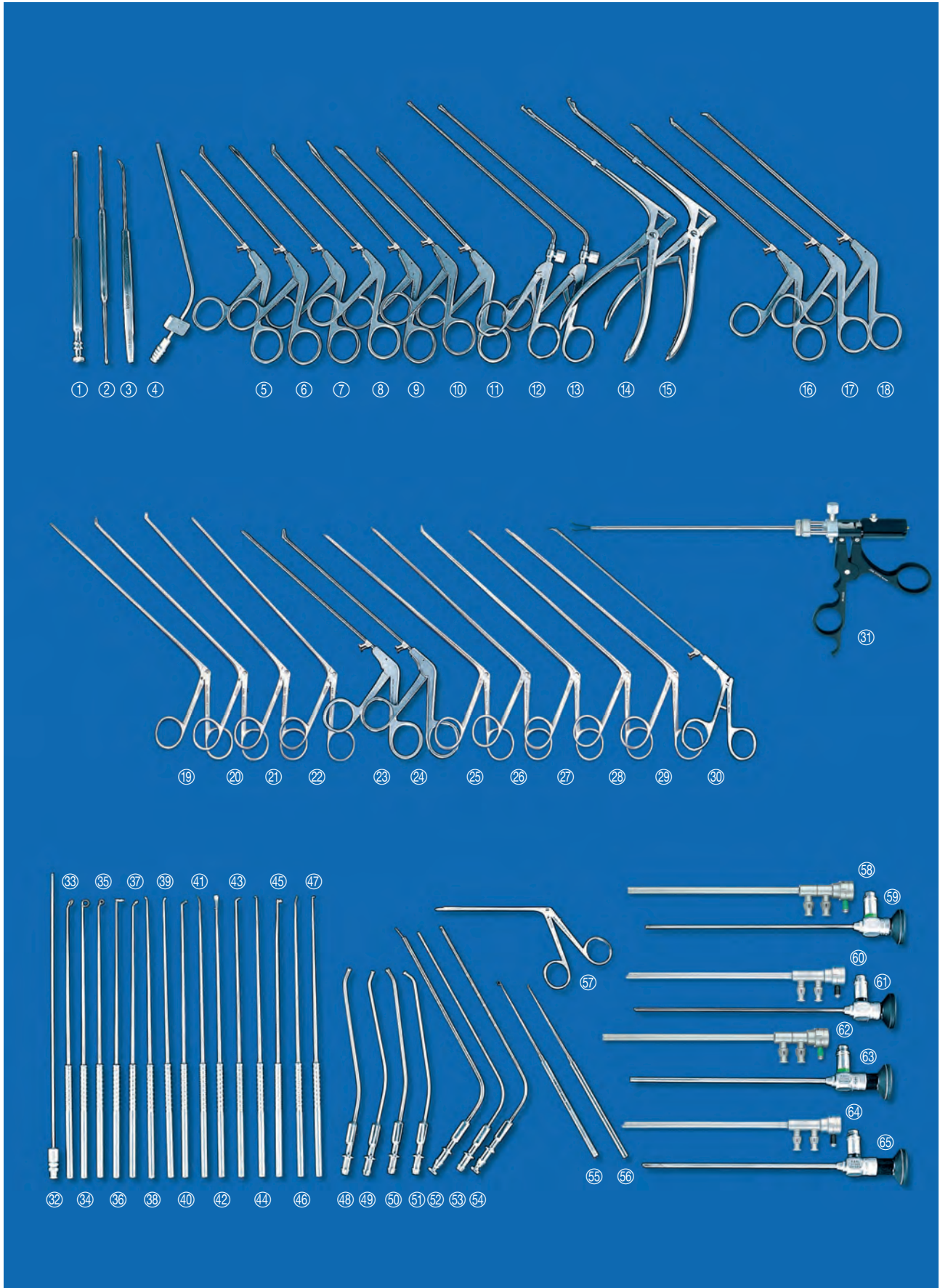
- ① 7230 AA **HOPKINS® II Straight Forward Telescope 0**, diameter 4 mm, length 18 cm
- ② 7230 AS **Irrigation Sheath**, for 7230 AA, for use with CLEARVISION® II System (see chapter 4, SINOSCOPY)
- ③ 7230 FA **HOPKINS® II Forward-Oblique Telescope 45°**, diameter 4 mm, length 18 cm
- ④ 7230 FS **Irrigation Sheath**, for 7230 FA, for use with CLEARVISION® II System (see chapter 4, SINOSCOPY)
- ⑤ 452831 **RHINOFORCE® II Miniature Nasal Forceps**, with extra fine flat jaws, through-cutting, straight jaws, width of cut 1.5 mm, working length 13 cm
- ⑥ 452832 **Same**, jaws 45° upturned
- ⑦ 452833 **Same**, sheath curved 30°, straight jaws
- ⑧ 452834 **Same**, jaws 45° angled upwards
- ⑨ 452841 R CASTELNUOVO **RHINOFORCE® II Miniature Nasal Forceps**, with extra fine flat jaws, through-cutting, 65° upturned, right side opening, width of cut 1.5 mm, working length 13 cm
- ⑩ 452841 **Same**, backward opening
- ⑪ 452841 L **Same**, left side opening
- ⑫ 451510 B CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, through-cutting, jaws 45° upturned, BLAKESLEY shape, width 3 mm, working length 13 cm
- ⑬ 456010 B BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, with straight jaws, width 3 mm, working length 13 cm
- ⑭ 451010 B CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, through-cutting, with straight jaws, BLAKESLEY shape, width 3 mm, working length 13 cm
- ⑮ 456510 B BLAKESLEY-CASTELNUOVO **RHINOFORCE® II Nasal Forceps**, end of sheath 25° upturned, jaw 45° upturned, width 3 mm, working length 13 cm
- ⑯ 653000 HEUWIESER **Antrum Grasping Forceps**, jaws curved downwards, fixed jaw curved 90°, movable jaw opening up to 120°, backward opening, working length 10 cm
- ⑰ 648523 McKENTY-CASTELNUOVO **Sphenoid Punch**, tip curved 30°, through-cutting, reversible, size 1.6 x 2 mm, working length 17 cm
- ⑱ 629824 CASTELNUOVO **Frontal Sinus Probe, double-ended**, curved, length 22 cm
- ⑲ 28164 EC CASTELNUOVO **Elevator, double-ended**, blunt end angled, graduated, length 26 cm
- ⑳ 28164 EB CASTELNUOVO **Elevator, double-ended**, blunt end slightly curved, length 26 cm
- ㉑ 28164 EA CASTELNUOVO **Elevator, double-ended**, semisharp and blunt, length 26 cm
- ㉒ 28164 H CASTELNUOVO **Hook**, 90°, blunt, with round handle, length 25 cm
- ㉓ 28164 MP **Round Knife**, vertical, oval, with round handle, 3.5 x 2.5 mm, length 25 cm
- ㉔ 28164 ES CASTELNUOVO **Suction Elevator**, curved, length 25 cm
- ㉕ 586146 v. EICKEN-CASTELNUOVO **Antrum Cannula**, S-shaped, strongly curved, outer diameter 2.5 mm
- ㉖ 586145 **Same**, slightly curved
- ㉗ 649180 N FERGUSON-CASTELNUOVO **Suction Tube**, diameter 2 mm, working length 15 cm

Accessories recommended for containers (not illustrated):

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39751 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

CASTELNUOVO-LOCATELLI Special Set for Endonasal Endoscopic Access to Sella Region



CASTELNUOVO-LOCATELLI Special Set for Endonasal Endoscopic Access to Sella Region

Instruments for nasal access

- ① 474001 FREER **Suction Elevator**, length 19 cm
- ② 479100 COTTLE **Elevator**
- ③ 628001 **Sickle Knife**, pointed
- ④ 722830 **Suction Tube**, outer diameter 3 mm
- ⑤ 456000 B BLAKESLEY **RHINOFORCE® II Nasal Forceps**, straight
- ⑥ 456500 B BLAKESLEY-WILDE **RHINOFORCE® II Nasal Forceps**, 45° upturned
- ⑦ 451000 B GRÜNWALD-HENKE **RHINOFORCE® II Nasal Forceps**, straight, through-cutting
- ⑧ 451500 B **Same**, 45° upturned
- ⑨ 452001 B MACKAY-GRÜNWALD **RHINOFORCE® II Nasal Forceps**, through-cutting
- ⑩ 452831 **RHINOFORCE® II Miniature Nasal Forceps**, with extra fine flat jaws, straight
- ⑪ 452832 **Same**, jaws 45° upturned
- ⑫ 651055 STAMMBERGER **Punch**, circular cutting, diameter 3.5 mm, working length 18 cm
- ⑬ 651050 **Same**, diameter 4.5 mm
- ⑭ 648521 McKENTY **Sphenoid Punch**, reversible
- ⑮ 648523 McKENTY-CASTELNUOVO **Sphenoid Punch**, tip curved 30°, through-cutting, working length 17 cm

Instruments for accessing the sella region

- ⑯ 28164 UA **RHINOFORCE® II Nasal Forceps**, through-cutting, width of cut 1.5 mm, straight jaws, working length 18 cm
- ⑰ 28164 UB **Same**, jaws angled upwards 45°
- ⑱ 28164 UE **Same**, jaws angled downwards 45°
- ⑲ 663202 **Forceps**, round cupped jaws, diameter 0.6 mm, straight, working length 18 cm
- ⑳ 663237 **Forceps**, 45° upturned, with round cupped jaws, diameter 2.5 mm, working length 18 cm
- ㉑ 663227 **Forceps**, 45° upturned, not through-cutting, with oval, fenestrated cupped jaws, width 1.8 mm, working length 18 cm
- ㉒ 663221 **Same**, straight
- ㉓ 649100 B BLAKESLEY **RHINOFORCE® II Ethmoid Forceps**, size 0, working length 16 cm
- ㉔ 649110 B BLAKESLEY-WILDE **RHINOFORCE® II Ethmoid Forceps**, 45° upturned
- ㉕ 663304 **Scissors**, curved to right, extra delicate, working length 18 cm
- ㉖ 663305 **Same**, curved to left
- ㉗ 663307 **Same**, 45° curved upwards
- ㉘ 663302 **Same**, straight
- ㉙ 663300 **Scissors**, straight, working length 18 cm
- ㉚ 663327 **Scissors**, 45° upwards curve, rotating, working length 18 cm
- ㉛ 28164 BDL **TAKE-APART® Bipolar Forceps**, distally angled 45°, working length 20 cm
- 26176 LE **Bipolar High Frequency Cord**, length 300 cm (not illustrated)
- ㉜ 28164 X CASTELNUOVO **Suction Tube**, diameter 2 mm, working length 25 cm
- ㉝ 28164 RO CAPPABIANCA-de DIVITIIS **Ring Curette**, with round wire, inner diameter 5 mm, tip angled 45°
- ㉞ 28164 RD **Same**, laterally curved sheath end 90°
- ㉟ 28164 RB **Same**, inner diameter 3 mm, laterally curved sheath end
- ㊱ 28164 RG **Same**, tip angled 90°
- ㊲ 28164 RN **Same**, inner diameter 3 mm
- ㊳ 28164 KA **Curette**, round spoon, size 1 mm, length 23 cm
- ㊴ 28164 KB **Curette**, size 2 mm, length 25 cm
- ㊵ 28164 KG **Curette**, spoon-shaped, size 3 mm, length 25 cm

- ㊶ 28164 DS **Dissector**, sharp, tip angled 15°, size 2 mm, length 25 cm
- ㊷ 28164 DM **Dissector**, sharp, curved, size 3 mm, length 25 cm
- ㊸ 28164 KF **Curette**, spoon-shaped, size 2 mm, length 25 cm
- ㊹ 28164 DA **Dissector**, sharp, tip angled 45°, size 2 mm, length 25 cm
- ㊺ 28164 RR CAPPABIANCA-de DIVITIIS **Curette**, stirrup-shaped, length 25 cm
- ㊻ 28164 DF **Dissector**, sharp, size 1.5 mm, length 25 cm
- ㊼ 28164 H CASTELNUOVO **Hook**, 90°, blunt, with round handle, length 25 cm
- ㊽ 662885 FRANK-PASQUINI **Suction Tube**, tip curved upwards, diameter 3 mm, working length 13 cm
- ㊾ 662882 **Same**, diameter 2.4 mm, curved upwards
- ㊿ 662886 **Same**, diameter 3 mm, curved downwards
- 50 662883 **Same**, diameter 2.4 mm, curved downwards,
- 51 649180 N FERGUSON-CASTELNUOVO **Suction Tube**, diameter 2 mm, working length 15 cm
- 52 649183 FERGUSON **Suction Tube**, LUER, 10 Fr., working length 15 cm
- 53 649182 BU FERGUSON-CASTELNUOVO **Suction Tube**, diameter 2.5 mm

Instruments for removal of septum cartilage material

- 54 660506 **Round Knife**, vertical cuttnng, length 18 cm
- 55 660509 **Round Knife**, angled 45°, diameter 2 mm, length 18 cm
- 56 634826 BELLUCCI **Scissors**, straight, working length 12.5 cm

Telescopes

- 57 7219 AS **Suction and Irrigation Sheath 0°**, for 7229 AA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 58 7229 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 2.7 mm, length 18 cm
- 59 7219 FS **Irrigation and Suction Sheath 45°**, for 7219 FA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 60 7229 FA **HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 2.7 mm, length 18 cm
- 61 7230 AS **Irrigation Sheath**, for 7230 AA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 62 7230 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 18 cm
- 63 7230 FS **Irrigation Sheath**, for 7230 FA and KARL STORZ lens irrigation system CLEARVISION®II (see chapter 4, SINOSCOPY)
- 64 7230 FA **HOPKINS® II Forward-Oblique Telescope 45°**, enlarged view, diameter 4 mm, length 18 cm

- Accessories recommended for containers (not illustrated):**
- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
 - 39753 A2 **Sterilization Container**, with MicroStop®
 - 39763 A2 **Coding Label**
 - 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
see catalog HYGIENE

Basic Set for Tonsillectomy and Adenoidectomy



Basic Set for Tonsillectomy and Adenoidectomy

①	744201	RUSSEL-DAVIS Tongue Blade , size 1
②	744202	Same , size 2
③	744203	Same , size 3
④	744204	Same , size 4
⑤	740700	HARTMANN Tongue Depressor
⑥	450003	HARTMANN Nasal Cutting Forceps , round, size 3
⑦	740000	BRÜNING'S Tongue Depressor , length 19 cm
⑧	767902	Laryngeal Mirror , with unscrewable hexagonal handle, size 2
⑨	767906	Laryngeal Mirror , with unscrewable hexagonal handle, size 6
⑩	810502	Needle, Tonsil , straight
⑪	810506	Septum Needle , angular, LUER-Lock
⑫	6x 796011	BACKHAUS Towel Forceps , length 11 cm
⑬	810806	Cup Medicine , 60 ccm
⑭	744500	DAVIS-MEYER Mouth Gag
⑮	744600	McIVOR Mouth Gag
⑯	753500	BRÜNING'S Tonsil Snare
	754200	Wire Snare Loop , for 753500, package of 100 (not illustrated)
⑰	751001	BLOHMKE Forceps
⑱	750800	COLVER Forceps
⑲	752500	GOOD Scissors
⑳	755500	YANKAUER Suction Tube
㉑	751411	HENKE Elevator , width 11.5 mm
㉒	754719	SCHNIDT Forceps , slightly curved, serrated
㉓	754518	MIKULICZ Forceps , small size, 1 x 2 teeth
㉔	750000	Dressing Forceps , serrated, length 20 cm
㉕	750123	Tissue Forceps , 2 x 3 teeth, length 20 cm
㉖	757700	ROEDER Loop Applicator , model E
	757811	Loop , for 757700, absorbable, sterile, package of 12 (not illustrated)
㉗	730000	BECKMANN Adenoid Curette , straight, size 0
㉘	730001	Same , size 1
㉙	730002	Same , size 2
㉚	730003	Same , size 3
㉛	730004	Same , size 4
㉜	746700	NAGER Pillar Retractor
㉝	732500	JURACZ Adenoid Forceps , sharp
㉞	798618	HEGAR Needle Holder , slender, tungsten carbide inserts, length 18 cm
㉟	842219	Bipolar Coagulation Forceps , length 19 cm
㊱	847000 E	Bipolar High Frequency Cord , for 842219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)

Accessories recommended for containers (not illustrated):

39502 ZH **Wire Tray for Cleaning, Sterilization and Storage**

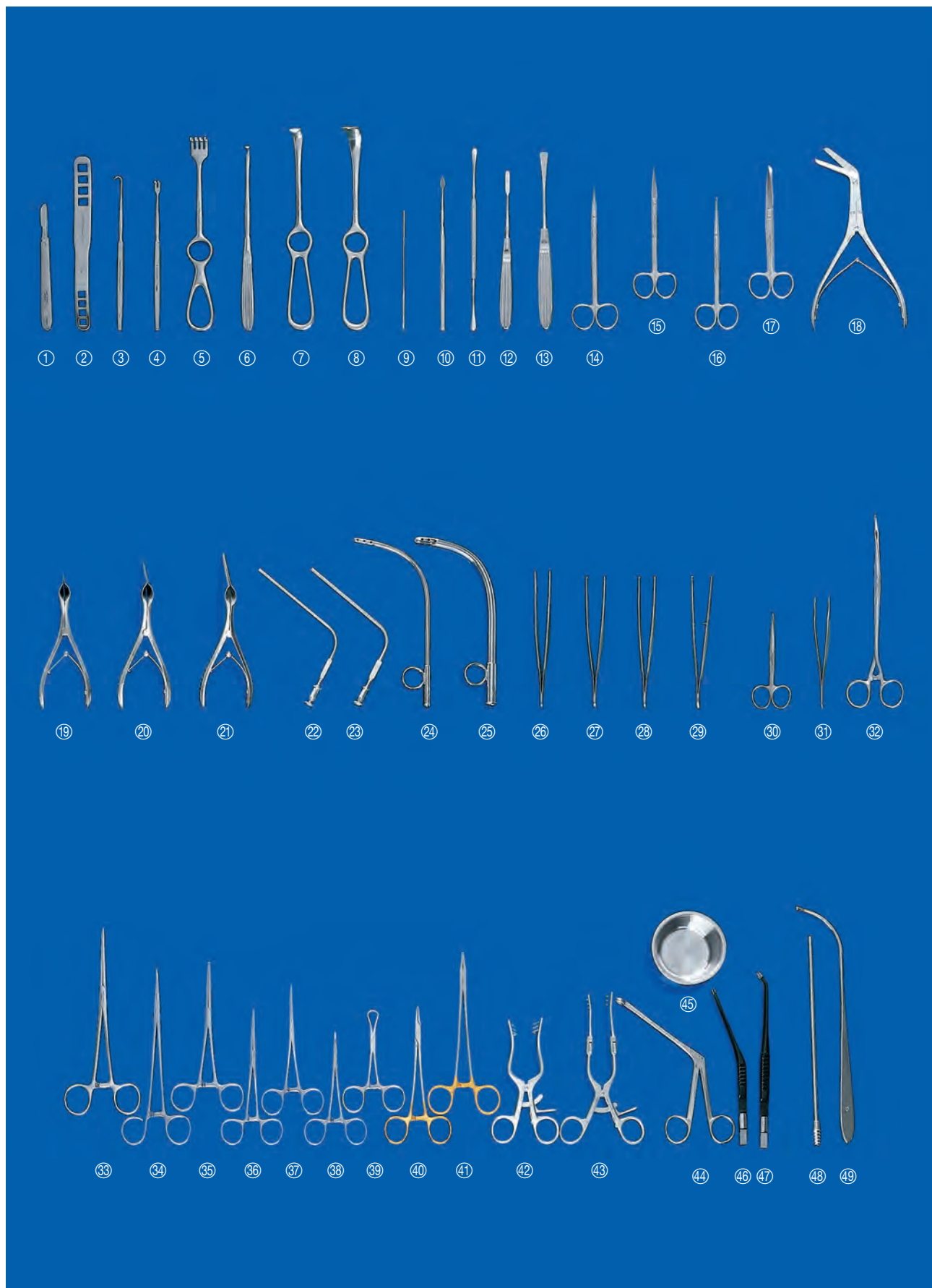
39742 A2 **Sterilization Container**, with MicroStop®

39763 A2 **Coding Label**

39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Tracheostomy Set



8-941

Basic Tracheostomy Set

①	208000	Surgical Handle , Fig. 3, length 12.5 cm
	208010	Blade , Fig. 10, non-sterile, package of 100 (not illustrated)
	208011	Same , Fig. 11, non-sterile, package of 100 (not illustrated)
	208015	Same , Fig. 15, non-sterile, package of 100 (not illustrated)
②	740000	BRÜNING'S Tongue Depressor , length 19 cm
③	786001	Retractor , sharp, 1 prong
④	786002	Same , 2 prongs
⑤	2x 800404	VOLKMANN Retractors , sharp, 4 prongs
⑥	786500	SCHÖNBORN Thymus Retractor , width 5 mm, length 20.5 cm
⑦	2x 801800	LANGENBECK Retractors , 33 x 14 mm
⑧	2x 801600	Same , 60 x 20 mm
⑨	2x 151011	Cotton Applicators , triangular serrated, working length 13 cm
⑩	212000	WULLSTEIN Elevator
⑪	474000	FREER Elevator , double-ended
⑫	478000	JOSEPH Elevator
⑬	169009	JANSEN Raspatory
⑭	791815	REYNOLDS Dissecting Scissors , delicate tips
⑮	511414	JOSEPH Scissors , curved, length 14 cm
⑯	511615	METZENBAUM-LAHEY Scissors , extra slender
⑰	791202	Dissecting Scissors , curved, sharp/blunt, length 14.5 cm
⑱	789500	KILLIAN Laryngectomy Scissors
⑲	403555	KILLIAN-STRUYCKEN Nasal Speculum , standard model, blade length 55 mm, length 13.5 cm
⑳	403575	Same , blade length 75 mm
㉑	403590	Same , blade length 90 mm
㉒	204809	FERGUSON Suction Tube , 9 Fr.
㉓	204812	Same , 12 Fr.
㉔	785005	BRÜNING'S Live-Saving Tube , outer diameter 5 mm
㉕	785009	Same , outer diameter 9 mm
㉖	530416	"ATRAUMA" Atraumatic Tissue Forceps , length 16 cm
㉗	2x 793401	Tissue Forceps , 1 x 2 teeth, standard width, length 14.5 cm
㉘	793402	Same , medium
㉙	793403	Same , narrow
㉚	513410	COTTLE Scissors , curved, length 10.5 cm
㉛	533212	ADSON-BROWN Tissue Forceps , atraumatic, fine side grasping teeth, length 12 cm
㉜	748220	DUPLAY Dressing and Sponge Holding Forceps , curved, length 21 cm
㉝	755120	HALLE-BIRKET Forceps , straight, length 20 cm
㉞	2x 754719	SCHNIDT Forceps , slightly curved, length 19 cm
㉟	794016	ROCHESTER-PEAN Artery Forceps , straight, length 16 cm
㊱	2x 794014	Same , length 14 cm
㊲	2x 794514	OCHSNER-KOCHER Artery Forceps , straight, length 14 cm
㊳	8x 535212	HALSTEAD "Mosquito" Artery Forceps , curved, length 12.5 cm
㊴	6x 796011	BACKHAUS Towel Forceps , length 11 cm
㊵	516015	Needle Holder , tungsten carbide inserts, length 15 cm
㊶	798618	HEGAR Needle Holder , slender, tungsten carbide inserts, length 18 cm
㊷	219513	WULLSTEIN Retractor , 3 x 3 teeth, length 13 cm
㊸	219717	FISCH Retractor , 3 x 3 teeth, length 17 cm
㊹	450002	HARTMANN Nasal Cutting Forceps , round, size 2
㊺	810810	Cup Medicine , 100 ccm
㊻	843116	Bipolar Coagulating Forceps , angled
㊼	842219	Same , angled tip, length 19 cm
㊽	847000 E	Bipolar High Frequency Cord , for 843116 and 842219, suitable for KARL STORZ coagulator AUTOCON® and Erbe coagulator (not illustrated)
㊾	203930	Suction Tube , malleable, outer diameter 3 mm
㊿	771000	KILLIAN Laryngeal Applicator , length 25 cm

Accessories recommended for containers (not illustrated):

 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**

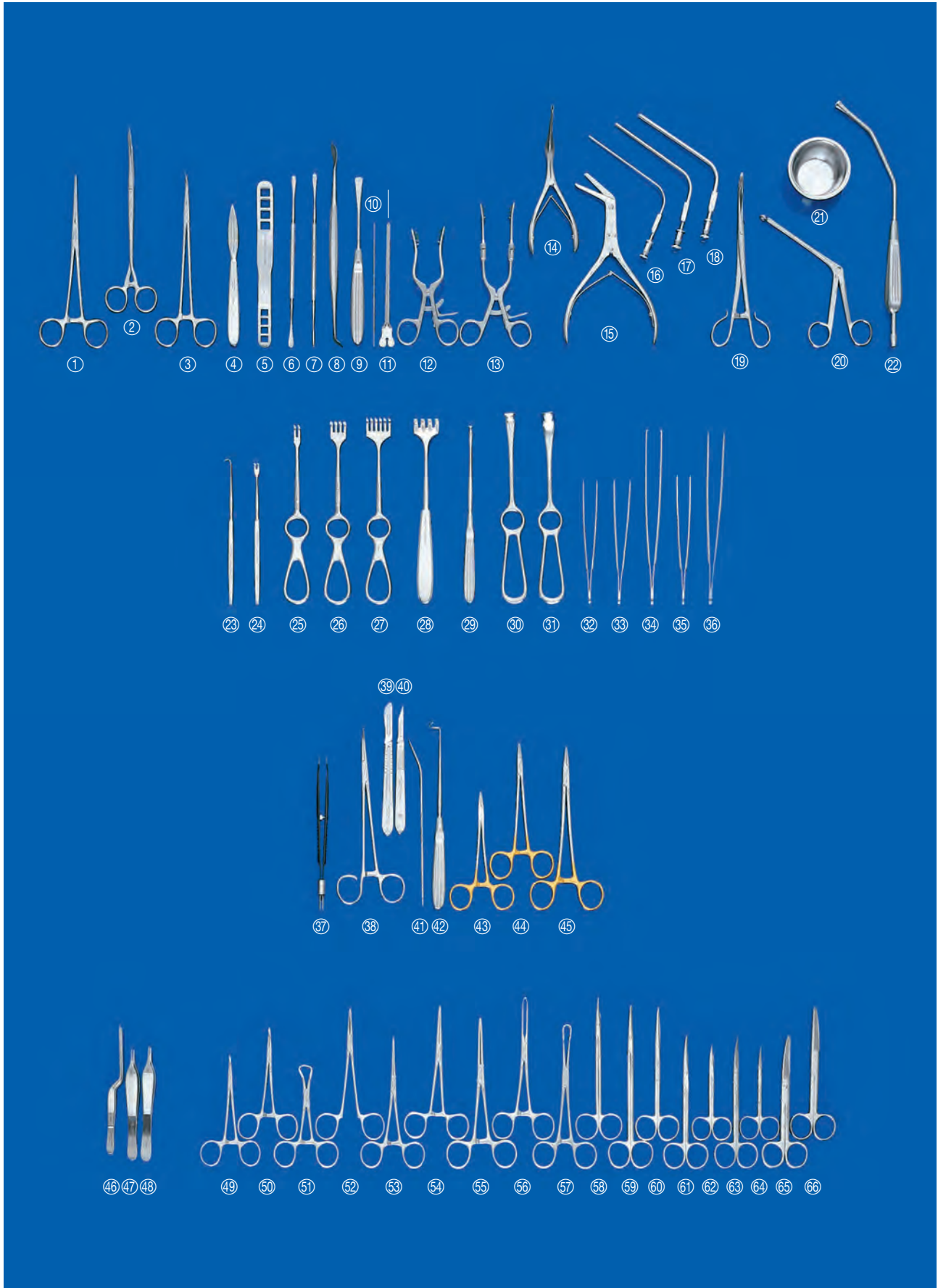
 39741 A2 **Sterilization Container**, with MicroStop®

 39763 A2 **Coding Label**

 39762 D2 **Color Tab**, blue

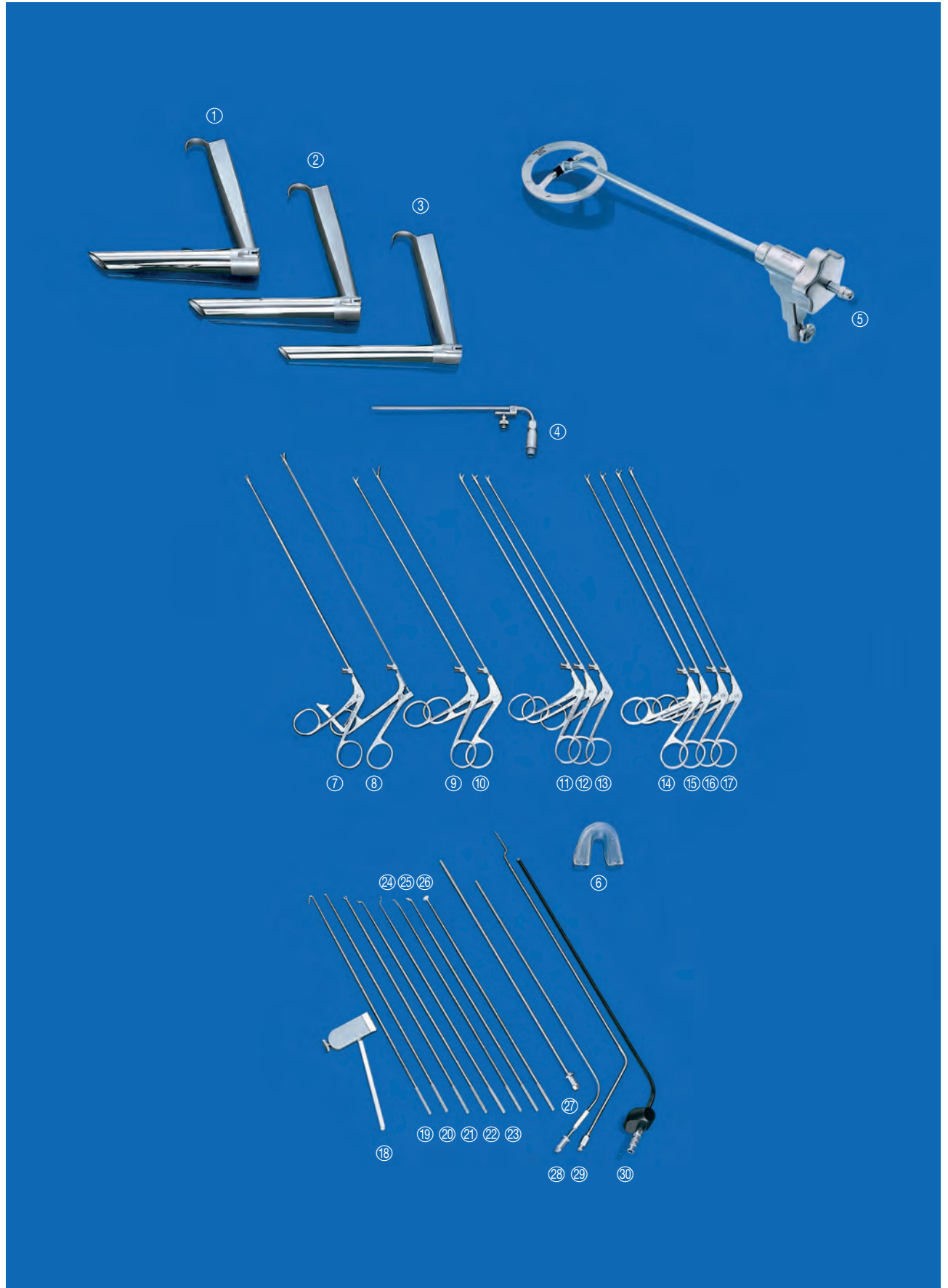
Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Neck Dissection Set



8-941

KLEINSASSER Basic Adult
Laryngoscopy Set



KLEINSASSER Basic Adult Laryngoscopy Set

①	8590 B	KLEINSASSER Operating Laryngoscope , large, length 17 cm
②	8590 C	Same , medium (most commonly used model)
③	8590 DN	Same , small, length 18 cm (for very difficult anatomical circumstances)
④	8590 GF	Fiber Optic Light Carrier , for use with 8590 B – JL
⑤	8575 K	Laryngoscope Holder and Chest Support , GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm
⑥	5x 8575 QS	Teeth Protector , silicone, autoclavable , can also be used as inlay in metal teeth protector
⑦	8660 N	KLEINSASSER Needle Holder , with ratchet, working length 23 cm
⑧	8660 L	KLEINSASSER Laryngeal Biopsy Forceps , robust, size 3 x 4 mm, working length 23 cm
⑨	8594 A	KLEINSASSER Scissors , straight, working length 23 cm
⑩	8593 A	KLEINSASSER Grasping Forceps , without ratchet, serrated, straight, working length 23 cm
⑪	8594 B	KLEINSASSER Scissors , angled 45°, working length 23 cm
⑫	8594 C	Same , curved to right
⑬	8594 D	Same , curved to left
⑭	8591 A	KLEINSASSER Cutting Forceps , straight, with 2 mm cupped jaws, working length 23 cm
⑮	8591 B	Same , curved upwards
⑯	8591 C	Same , curved to right
⑰	8591 D	Same , curved to left
⑱	8597	KLEINSASSER Handle , for 8595 A – 8596 T
⑲	8596 A	KLEINSASSER Hook , blunt, with probe button, working length 23 cm
⑳	8596 B	Same , sharp
㉑	8596 T	KLEINSASSER Knot Tier , working length 23 cm
㉒	8596 F	KLEINSASSER Needle , curved to left, working length 23 cm
㉓	8596 E	Same , curved to right
㉔	8595 C	KLEINSASSER Laryngeal Knife , sickle-shaped, working length 23 cm
㉕	8595 E	Same , golf club-shaped
㉖	8595 A	Same , oval, straight
㉗	8596 H	KLEINSASSER Suction Elevator , working length 23 cm
㉘	8603	KLEINSASSER Suction Tube , outer diameter 2.5 mm
㉙	8598 B	KLEINSASSER Injection Needle , LUER-Lock, straight
㉚	8605 N	KLEINSASSER Insulated Cannula , for suction and coagulation, outer diameter 3 mm
㉛	26005 M	Unipolar High Frequency Cord , with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)

Accessories recommended for containers (not illustrated):

2x 39502 Z	Wire Tray for Cleaning, Sterilization and Storage
39753 A2	Sterilization Container , with MicroStop®
39763 A2	Coding Label
39762 D2	Color Tab , blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Pediatric Laryngoscopy Set



8-941

Basic Pediatric Laryngoscopy Set

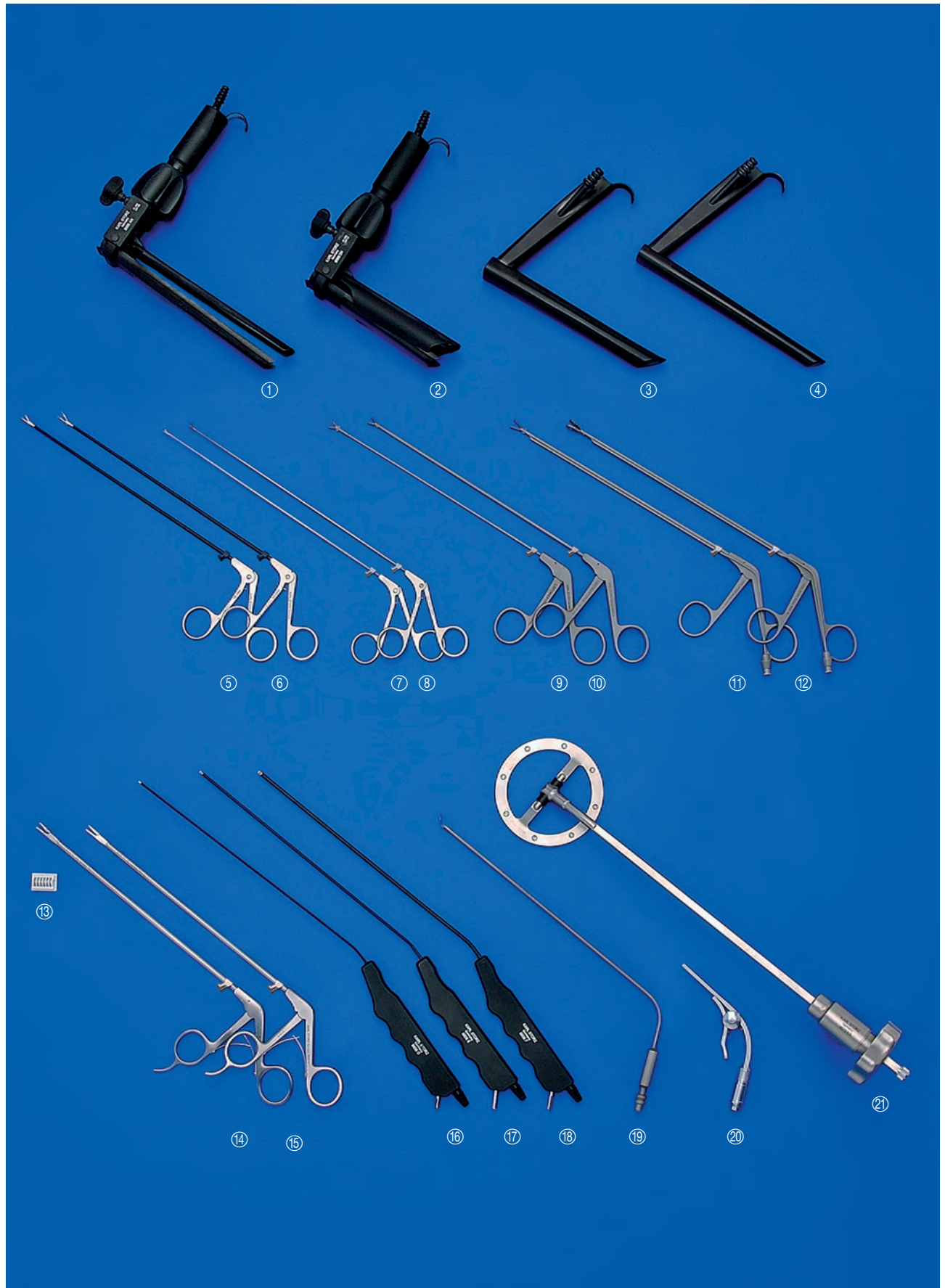
- ① 8574 J BENJAMIN **Operating Laryngoscope**, for children, length 15 cm
- ② 8574 JH **Fiber Optic Light Carrier**, for distal illumination, length 12 cm, for use with 8574 J/JP
- ③ 8587 KK LINDHOLM **Operating Laryngoscope**, for children, distal end width 16 mm, length 11 cm
- ④ 8587 GF **Fiber Optic Light Carrier**, for distal illumination, length 7.5 cm, for use with Laryngoscope 8587 A/AA/KK
- ⑤ 8587 P BENJAMIN-LINDHOLM **Operating Laryngoscope**, for infants, inner diameter of proximal end 26 x 16 mm, distal end 14 x 11 mm, length 9.5 cm
- ⑥ 8587 PF **Fiber Optic Light Carrier**, for distal illumination, length 6.5 cm, for use with 8587 P
- ⑦ 497 AC **Clip**, for proximal illumination
- ⑧ 8602 KS KLEINSASSER **Suction Tube**, ball-shaped end, outer diameter 2 mm, working length 18 cm
- ⑨ 8603 KS **Same**, outer diameter 3 mm
- ⑩ 8591 MK **Spoon Forceps**, jaws open horizontally, distal end malleable, diameter 4 mm, with cleaning connector, working length 18 cm
- ⑪ 8593 AK KLEINSASSER **Grasping Forceps**, straight, serrated, with cleaning connector, working length 18 cm
- ⑫ 8591 BK KLEINSASSER **Forceps**, upturned, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
- ⑬ 8591 AK **Same**, straight
- ⑭ 8594 DK KLEINSASSER **Scissors**, curved to left, with cleaning connector, working length 18 cm
- ⑮ 8594 CK **Same**, curved to right
- ⑯ 8594 AK KLEINSASSER **Scissors**, straight, with cleaning connector, working length 18 cm
- ⑰ 8575 KC BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support**, rod with metal ring, with 2 lateral screws

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

STEINER Basic LASER
Laryngoscopy Set for Adults



STEINER Basic LASER Laryngoscopy Set for Adults

- ① 8666 AN **STEINER Distending Operating Laryngoscope**, for adults, channel removing vapor integrated in blade and handle, length 18 cm
- ② 8666 DN **STEINER Distending Operating Oropharyngoscope**, for adults, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 14 cm, for use with Clip 497 AC
- ③ 8661 CN **STEINER Operating Laryngoscope**, medium-large, for adults, with integrated channel to remove vapor, length 18 cm
- ④ 8661 DN **Same**, small, for adults with difficult anatomical circumstances and for children, length 19 cm
- ⑤ 8663 BH **Grasping Forceps**, curved to right, serrated, insulated sheath, working length 23 cm
- ⑥ 8663 CH **Same**, curved to left
- ⑦ 8593 GM **Miniature Grasping Forceps**, extra delicate, serrated, with triangular jaws, curved upwards to right, working length 23 cm
- ⑧ 8593 HM **Same**, curved upwards to left
- ⑨ 8662 D **LARYNGOFORCE®II Grasping Forceps**, delicate, serrated, special matt finish, working length 22 cm
- ⑩ 8662 E **LARYNGOFORCE®II Grasping Forceps**, with oval alligator jaws, small, working length 22 cm
- ⑪ 8662 FL **Same**, medium, working length 22 cm
- ⑫ 8662 GL **LARYNGOFORCE®II Grasping Forceps**, with oval, fenestrated alligator jaws, large, with suction channel to remove LASER vapors, working length 22 cm
- ⑬ 8665 T **Clips**, titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each
- ⑭ 8665 L **LARYNGOFORCE®II Clip Forceps**, jaw curved to left, working length 22 cm
- ⑮ 8665 R **Same**, jaw curved to right
- ⑯ 8606 D **Coagulation Suction Tube**, with ergonomic handle, insulated, with connection for unipolar coagulation, outer diameter 2 mm, working length 23 cm
- ⑰ 8606 E **Same**, outer diameter 2.5 mm
- ⑱ 8606 F **Same**, outer diameter 3.5 mm
- 26005 M **Unipolar High Frequency Cord**, with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)
- ⑲ 8596 R **Protector**, to protect tissue against unintentional LASER irradiation, oval, diameter 7 mm, working length 23 cm
- ⑳ 497 AC **Clip**, for proximal illumination
- ㉑ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm

If required:

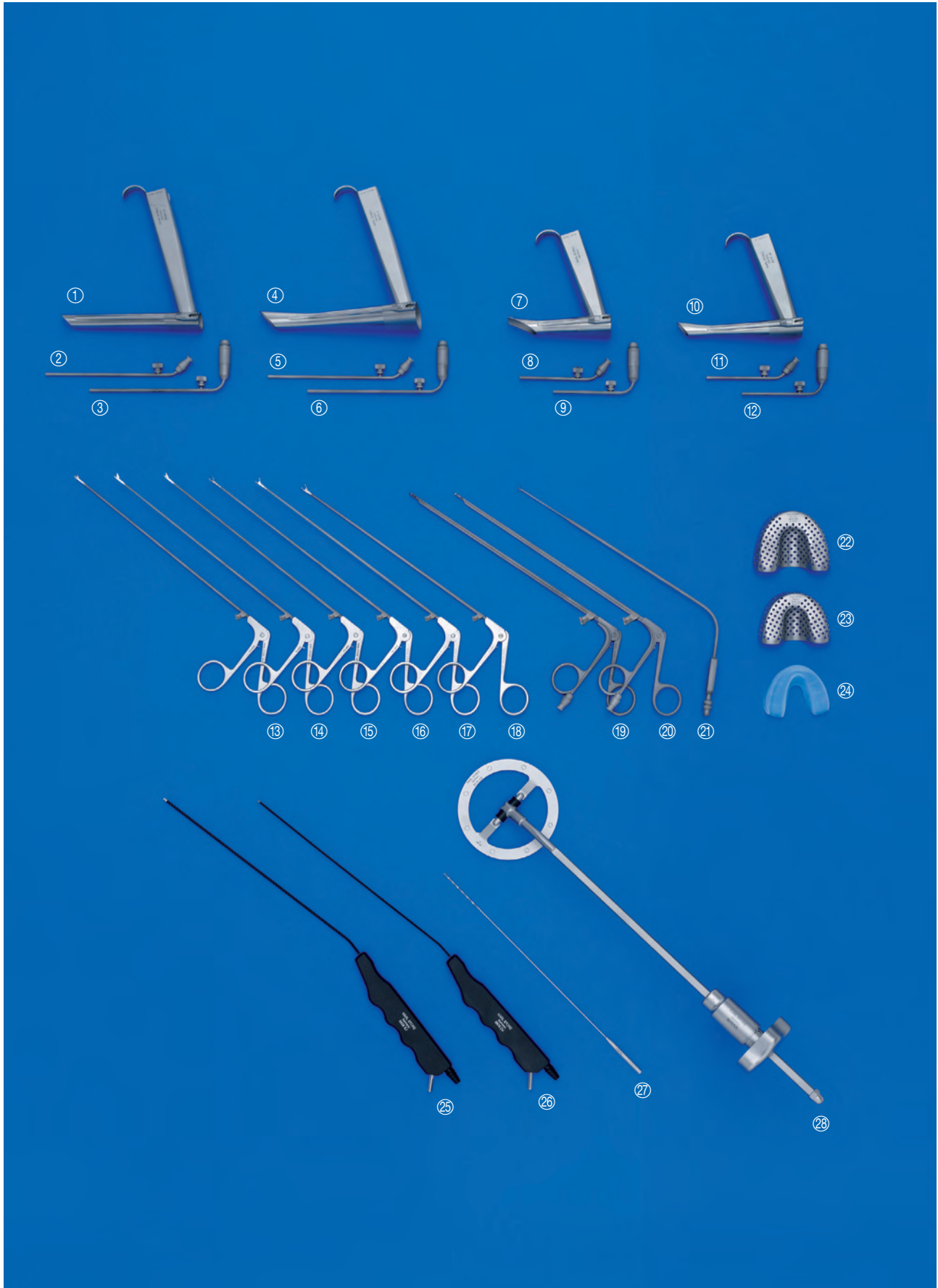
- 8575 L **Support Table**, GÖTTINGEN model, for Laryngoscope Holder 8575 K/KC, height adjustable swivel arm with movable plate, can be mounted on operation table equipped with standard sliding rail 25 x 10 mm (not illustrated)

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

WERNER Special Pediatric LASER Laryngoscopy Set



WERNER Special Pediatric LASER Laryngoscopy Set

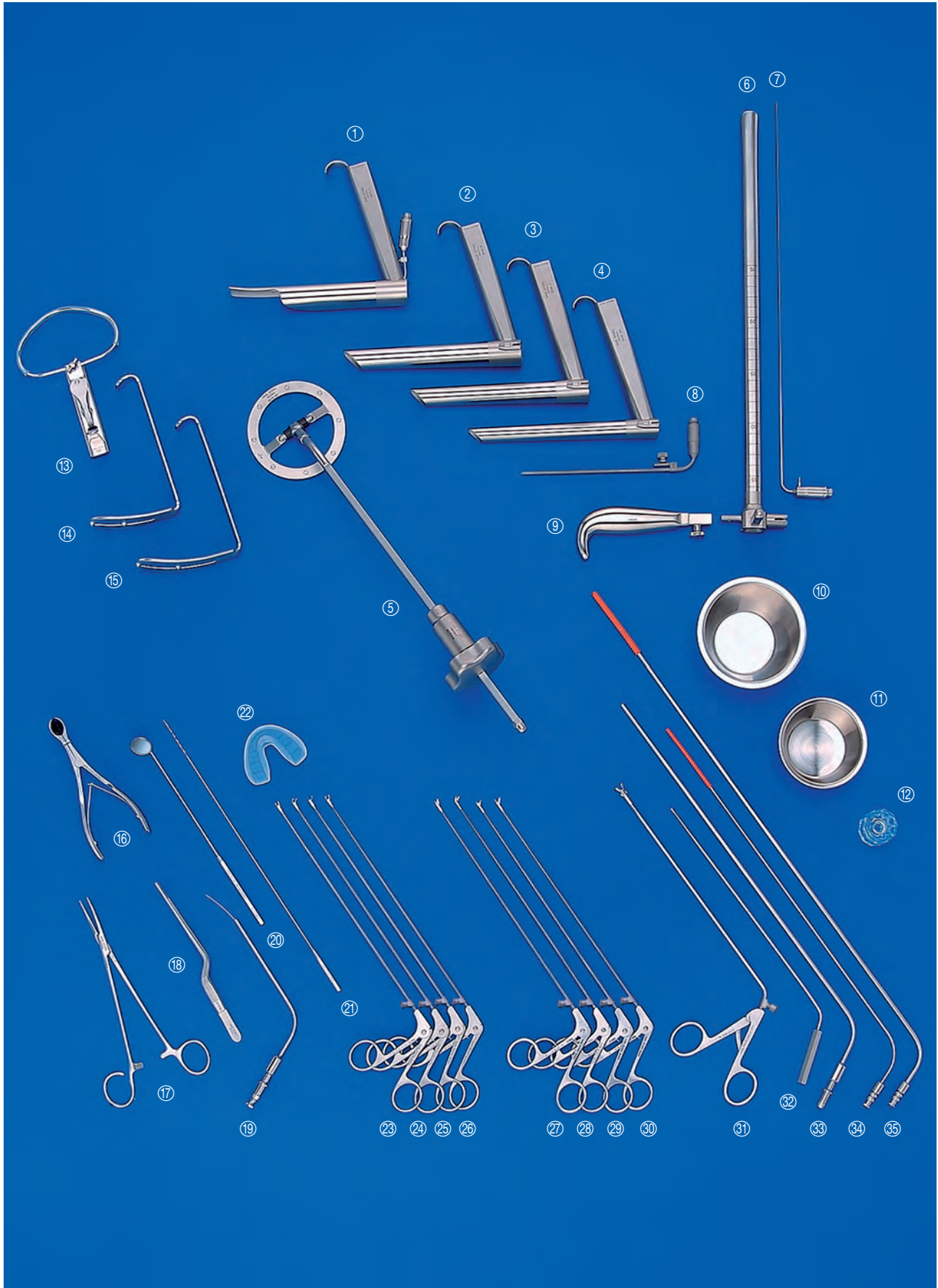
- ① 8590 LL **KLEINSASSER Laryngoscope**, modified by RUDERT for CO₂ LASER surgery, for infants, length 13 cm
- ② 8574 JK **Suction Tube, to remove vapor**, for use with Laryngoscope 8590 LL
- ③ 8574 JH **Fiber Optic Light Carrier**, for use with Laryngoscope 8590 LL
- ④ 8574 J **BENJAMIN Operating Laryngoscope**, for children, length 15 cm
- ⑤ 8574 JK **Suction Tube, to remove vapor**, for use with Operating Laryngoscope 8574 J
- ⑥ 8574 JH **Fiber Optic Light Carrier**, for use with Operating Laryngoscope 8574 J
- ⑦ 8574 JB **BENJAMIN Operating Laryngoscope**, for children, small size, length 11.5 cm
- ⑧ 8587 PM **Suction Tube, to remove vapor**, for use with Operating Laryngoscope 8574 JB
- ⑨ 8587 PF **Fiber Optic Light Carrier**, for use with Operating Laryngoscope 8574 JB
- ⑩ 8587 P **BENJAMIN-LINDHOLM Operating Laryngoscope**, for infants, length 9.5 cm
- ⑪ 8587 PM **Suction Tube, to remove vapor**, for use with Operating Laryngoscope 8587 P
- ⑫ 8587 PF **Fiber Optic Light Carrier**, for use with Operating Laryngoscope 8587 P
- ⑬ 8594 AJ **KLEINSASSER Scissors**, straight, with cleaning connector, working length 21 cm
- 8594 AK **Same**, working length 18 cm
- ⑭ 8594 CJ **KLEINSASSER Scissors**, curved to right, with cleaning connector, working length 21 cm
- 8594 CK **Same**, working length 18 cm
- ⑮ 8594 DJ **KLEINSASSER Scissors**, curved to left, with cleaning connector, working length 21 cm
- 8594 DK **Same**, working length 18 cm
- ⑯ 8591 AJ **KLEINSASSER Forceps**, straight, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
- 8591 AK **Same**, working length 18 cm
- ⑰ 8591 CJ **KLEINSASSER Forceps**, curved to right, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
- 8591 CK **Same**, working length 18 cm
- ⑱ 8591 DJ **KLEINSASSER Forceps**, curved to left, with 2 mm cupped jaws, with cleaning connector, working length 21 cm
- 8591 DK **Same**, working length 18 cm
- ⑲ 8591 RJL **Spoon Forceps**, diameter 2 mm, opens horizontally to right, sheath conically reinforced from distal to proximal, with suction channel to remove vapor, with cleaning connector, working length 21 cm
- 8591 RJK **Same**, working length 18 cm
- ⑳ 8591 SJL **Same**, opens horizontally to left, working length 21 cm
- 8591 SJK **Same**, opens horizontally to left, working length 18 cm
- ㉑ 8596 OJ **Protector**, curved upwards, diameter 3 mm, to protect tissue against unintentional LASER irradiation, working length 21 cm
- 8596 OK **Same**, working length 18 cm
- ㉒ 8575 RC **Teeth Protector**, metal, small
- ㉓ 8575 RB **Teeth Protector**, metal, medium
- ㉔ 8575 QS **Teeth Protector**, silicone, **autoclavable**, can also be used as inlay in metal teeth protector
- ㉕ 8606 DJ **Coagulation Suction Tube**, with ergonomical handle, insulated, outer diameter 2 mm, working length 21 cm
- 8606 DK **Same**, working length 18 cm
- ㉖ 8606 EJ **Same**, outer diameter 2.5 mm, working length 21 cm
- 8606 EK **Same**, working length 18 cm
- 26005 M **Unipolar High Frequency Cord**, with 5 mm plug, length 300 cm, for KARL STORZ and Erbe units (not illustrated)
- ㉗ 8596 WJ **Cotton Applicator**, straight, working length 21 cm
- 8596 WK **Same**, working length 18 cm
- ㉘ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm

Accessories recommended for containers (not illustrated):

- 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39752 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Panendoscopy Set



Basic Panendoscopy Set

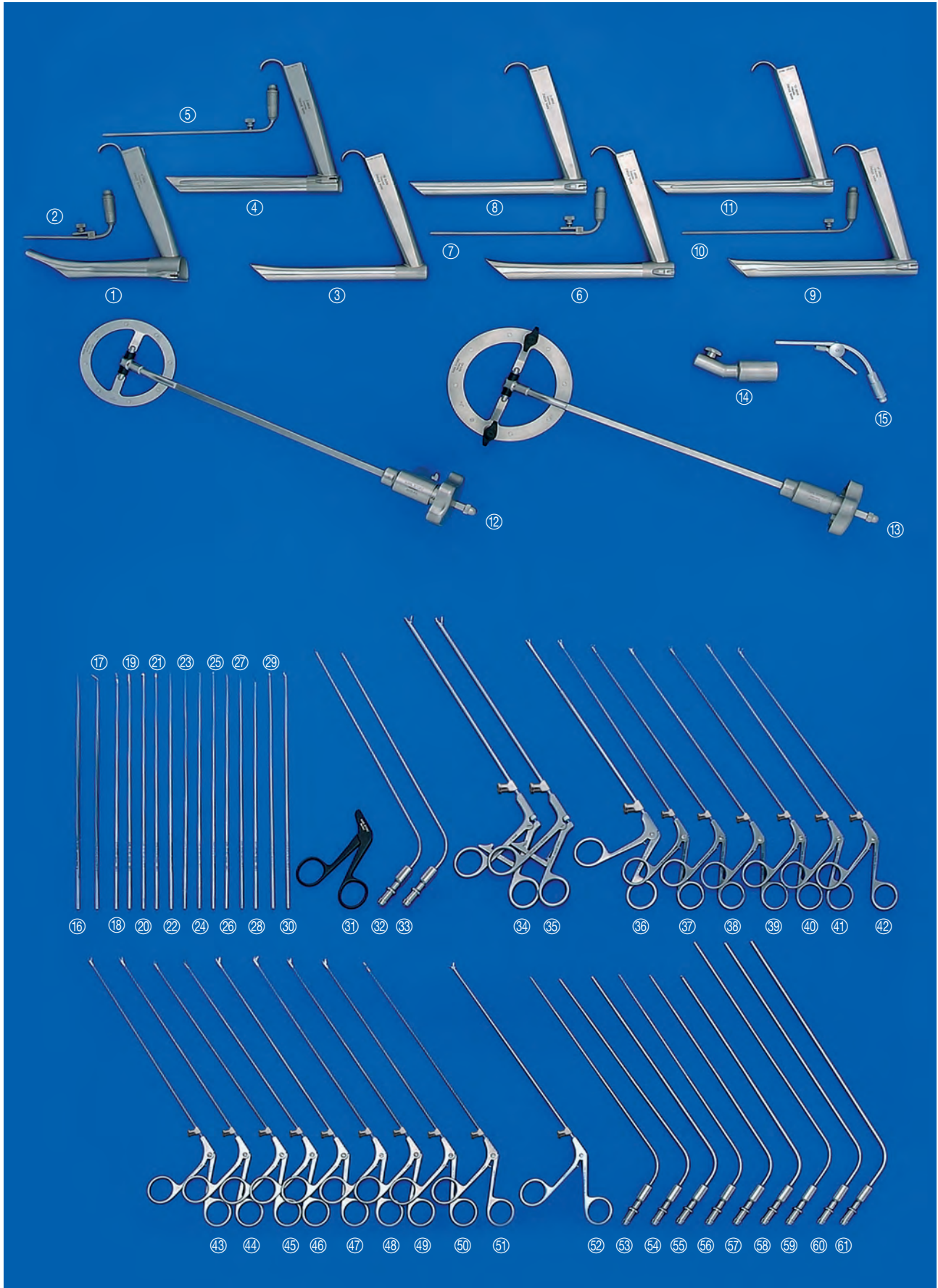
- ① 8575 C RIECKER **Laryngoscope**, slotted, adult size, with Fiber Optic Light Carrier 8575 CF
- ② 8590 B KLEINSASSER **Operating Laryngoscope**, large, length 17 cm
- ③ 8590 C KLEINSASSER **Operating Laryngoscope**, medium, length 17 cm (most commonly used model)
- ④ 8590 DN KLEINSASSER **Operating Laryngoscope**, small, length 18 cm (for particularly difficult anatomical circumstances)
- ⑤ 8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model
including:
Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel
Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm
- ⑥ 12060 AV ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 40 cm, for use with Fiber Optic Light Carrier 12061 AV and/or Prismatic Light Deflector 10101 FA
- ⑦ 12061 AV **Fiber Optic Light Carrier**, for use with esophagoscopes, length 40 cm
- ⑧ 8590 GF **Fiber Optic Light Carrier**, for distal illumination, working length 14 cm
- 495 UD **Fiber Optic Light Cable**, with straight connector, 2x diameter 3.5 mm, length 180 cm, for simultaneous light transmission for 2 instruments (not illustrated)
- ⑨ 12070 **Handle**
- ⑩ 810820 **Cup Medicine**, 200 ccm, diameter 100 mm, height 50 mm
- ⑪ 810810 **Cup Medicine**, 100 ccm, diameter 80 mm, height 30 mm
- ⑫ 818500 **Medicine Dish**, glass, diameter 32 mm, colored
- ⑬ 744600 McIVOR **Mouth Gag**, with removable bow for replacement of rubber tube
- ⑭ 744303 **Tongue Blade**, WÜRZBURG model, slotted, size 3
- ⑮ 744304 **Same**, size 4
- ⑯ 400500 HARTMANN **Nasal Speculum**, for adults, length 13 cm
- ⑰ 754719 SCHNIDT **Forceps**, slightly curved, serrated, length 19 cm
- ⑱ 426516 JANSEN **Nasal Dressing Forceps**, bayonet-shaped, length 16.5 cm
- ⑲ 204810 FERGUSON **Suction Tube**, with cut-off hole and stylet, LUER, 10 Fr., working length 11 cm
- ⑳ 769905 **Laryngeal Mirror**, with unscrewable hexagonal handle, size 5
- ㉑ 8596 W **Cotton Applicator**, straight, working length 25 cm
- ㉒ 8575 QS **Teeth Protector**, silicone, autoclavable
- ㉓ 8591 A KLEINSASSER **Cutting Forceps**, straight, with 2 mm cupped jaws, working length 23 cm
- ㉔ 8591 B **Same**, curved upwards
- ㉕ 8591 C **Same**, curved to right
- ㉖ 8591 D **Same**, curved to left
- ㉗ 8594 A KLEINSASSER **Scissors**, straight, working length 23 cm
- ㉘ 8594 B **Same**, angled 45°
- ㉙ 8594 C **Same**, curved to right
- ㉚ 8594 D **Same**, curved to left
- ㉛ 8591 P **Cutting Forceps**, with round 5 mm cupped jaws, robust model, double action jaws, sheath diameter 2.5 mm, working length 23 cm
- ㉜ 8596 D **Laryngeal Probe**, straight, sheath angled, round handle, working length 23 cm
- ㉝ 10380 AK **Suction Tube**, diameter 4 mm, working length 35 cm
- ㉞ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ㉟ 10381 A **Suction Tube**, with rubber tip, straight, diameter 4 mm, working length 50 cm

Accessories recommended for containers (not illustrated):

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
- 39753 A2 **Sterilization Container**, with MicroStop®
- 39763 A2 **Coding Label**
- 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization see catalog HYGIENE

WOO/SHAPSHAY/OSSOFF Microsurgical Instrument Set for Phonosurgery



8-942

WOO/SHAPSHAY/OSSOFF Microsurgical Instrument Set for Phonosurgery

- | | | | | | |
|---|---------|--|----|--------|---|
| ① | 8587 A | LINDHOLM Operating Laryngoscope , length 15 cm | ③④ | 8659 C | FEHLAND Needle Holder , angled 90° to right, working length 20 cm |
| ② | 8587 GF | Fiber Optic Light Carrier , for use with Laryngoscope 8587 A | ③⑤ | 8659 D | Same , angled to left |
| ③ | 8574 SL | BENJAMIN Slimline Operating Laryngoscope and Subglottiscope , for adults, length 17 cm | ③⑥ | 8660 P | KLEINSASSER Needle Holder , straight, working length 20 cm |
| ④ | 8589 C | RUDERT Anterior Commissure Laryngoscope , medium, universal size, triangular spatula shaped, length 17 cm | ③⑦ | 8681 A | Micro Forceps , straight, with 1 mm cupped jaws, working length 20 cm |
| ⑤ | 8574 LF | Fiber Optic Light Carrier , length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA | ③⑧ | 8681 B | Same , curved upwards |
| ⑥ | 8590 J | KLEINSASSER Operating Laryngoscope , for anterior commissure, length 18 cm | ③⑨ | 8681 C | Same , curved to right |
| ⑦ | 8590 GF | Fiber Optic Light Carrier , for use with Laryngoscopes 8590 B – JN | ④① | 8681 D | Same , curved to left |
| ⑧ | 8590 C | KLEINSASSER Operating Laryngoscope , medium, length 17 cm | ④② | 8683 A | Micro Grasping Forceps , straight, serrated, working length 20 cm |
| ⑨ | 8590 JA | KLEINSASSER Laryngoscope , length 18 cm, for anterior commissure | ④③ | 8683 B | Same , curved upwards |
| ⑩ | 8574 LF | Fiber Optic Light Carrier , length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA | ④④ | 8683 C | Same , curved to right |
| ⑪ | 8590 CL | KLEINSASSER Laryngoscope , length 17 cm | ④⑤ | 8683 D | SHAPSAY-PERETTI Micro Grasping Forceps , curved upwards to right, working length 20 cm |
| ⑫ | 8575 K | Laryngoscope Holder and Chest Support , GÖTTINGEN model, rod with metal ring, diameter 9 cm, length 34 cm | ④⑥ | 8683 G | Same , curved upwards to left |
| ⑬ | 8575 KC | BENJAMIN-PARSONS Laryngoscope Holder and Chest Support | ④⑦ | 8684 A | Micro Scissors , straight, working length 20 cm |
| ⑭ | 8575 V | Extension , GRONINGEN model, for enlargement of opening angle of support rod for overweight patients | ④⑧ | 8684 B | Same , curved upwards |
| ⑮ | 497 AC | Clip , for proximal illumination | ④⑨ | 8684 C | Same , curved to right |
| ⑯ | 8693 A | Probe , straight, diameter 1 mm | ⑤① | 8684 D | Same , curved to left |
| ⑰ | 8693 B | Same , angled 45° | ⑤② | 8686 A | Micro Grasping Forceps , straight, hollowed jaws, serrated tips, opens horizontally to right, working length 20 cm |
| ⑱ | 8656 A | Sickle Knife , curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤③ | 8687 A | Micro Alligator Forceps , both jaws open vertically, with suction channel to remove LASER vapors, working length 20 cm |
| ⑲ | 8656 B | Same , straight cutting | ⑤④ | 8691 A | Suction Tube , with cut-off hole, tip with central opening, outer diameter 1 mm |
| ⑳ | 8656 C | Round Knife , vertical cutting, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑤ | 8691 B | Same , outer diameter 1.5 mm |
| ㉑ | 8656 D | Lancet Knife , straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑥ | 8691 C | Same , outer diameter 2 mm |
| ㉒ | 8656 E | Needle , straight, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑦ | 8692 A | Suction Tube , with cut-off hole, tip closed, with 2 lateral openings, outer diameter 1 mm |
| ㉓ | 8656 F | Hook 90° , 1 mm, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑤⑧ | 8692 B | Same , outer diameter 1.5 mm |
| ㉔ | 8656 G | Same , 2 mm | ⑤⑨ | 8692 C | Same , outer diameter 2 mm |
| ㉕ | 8656 J | Dissector , straight, ball end, delicate, 3 to 0.6 mm tapered shaft, diameter 1.3 mm, total length 23 cm | ⑥① | 8602 | KLEINSASSER Suction Tube , outer diameter 2 mm |
| ㉖ | 8656 L | Elevator , slightly curved, blunt, delicate, 3 to 1 mm tapered shaft, total length 23 cm | ⑥② | 8603 | Same , outer diameter 2.5 mm |
| ㉗ | 8656 LS | Same , sharp tip | ⑥③ | 8604 | Same , outer diameter 3 mm |
| ㉘ | 8656 N | Same , angled 15° | | | |
| ㉙ | 8656 R | Curette , oval spoon, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm | | | |
| ⑳ | 8656 S | Same , angled 35° | | | |
| ㉑ | 8657 H | Universal Handle , forceps shape, with 2 handle rings, length 9 cm | | | |
| ㉒ | 8656 VL | Suction Elevator , angular, with grip plate and cut-off hole, working length 21 cm, total length 23 cm | | | |
| ㉓ | 8656 VR | Same , curved to right | | | |

Accessories recommended for containers (not illustrated):

- 2x 39502 Z **Wire Tray for Cleaning, Sterilization and Storage**
 39753 A2 **Sterilization Container**, with MicroStop®
 39763 A2 **Coding Label**
 39762 D2 **Color Tab**, blue

Further accessories for cleaning and sterilization
 see catalog HYGIENE

Esophagoscopy Adult Set

Basic Set



Esophagoscopy Adult Set

Basic Set

- ① 12060 A ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 50 cm
- ② 12060 C **Same**, size 10 x 14
- ③ 12061 A **Fiber Optic Light Carrier**, for use with esophagoscopes, length 50 cm
- ④ 12060 B ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 30 cm
- ⑤ 12060 D **Same**, size 10 x 14
- ⑥ 12060 F **Same**, size 8 x 12
- ⑦ 12061 B **Fiber Optic Light Carrier**, for use with esophagoscopes, length 30 cm
- ⑧ 12060 S ROBERTS-JESBERG **Hypopharyngoscope**, oval, size 10 x 14, length 20 cm
- ⑨ 12061 C **Fiber Optic Light Carrier**, for use with hypopharyngoscopes, length 20 cm
- ⑩ 12070 **Handle**, for esophagoscopes

Recommended accessories for esophagoscopes with a length of 50 cm

- ⑪ 12015 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 53 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ⑫ 12016 M **Optical Forceps**, alligator, large jaws, for hard foreign bodies
- ⑬ 12016 L **Optical Forceps**, spoon-shaped, round, for biopsy
- ⑭ 10381 AL **Suction Tube**, with rubber tip, straight, diameter 4 mm, working length 55 cm
- ⑮ 3x 10384 AL **Cotton Carrier**, working length 55 cm
- ⑯ 10387 AL **Sponge Holder**, with spring handle, working length 55 cm

Recommended accessories for esophagoscopes with a length of 30 and 20 cm

- ⑰ 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ⑱ 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- ⑲ 10378 L **Optical Forceps**, spoon-shaped, for biopsy
- ⑳ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ㉑ 3x 10384 B **Cotton Applicator**, working length 35 cm
- ㉒ 10387 B **Sponge Holder**, with spring handle, working length 35 cm

Recommended Wire Trays (not illustrated):

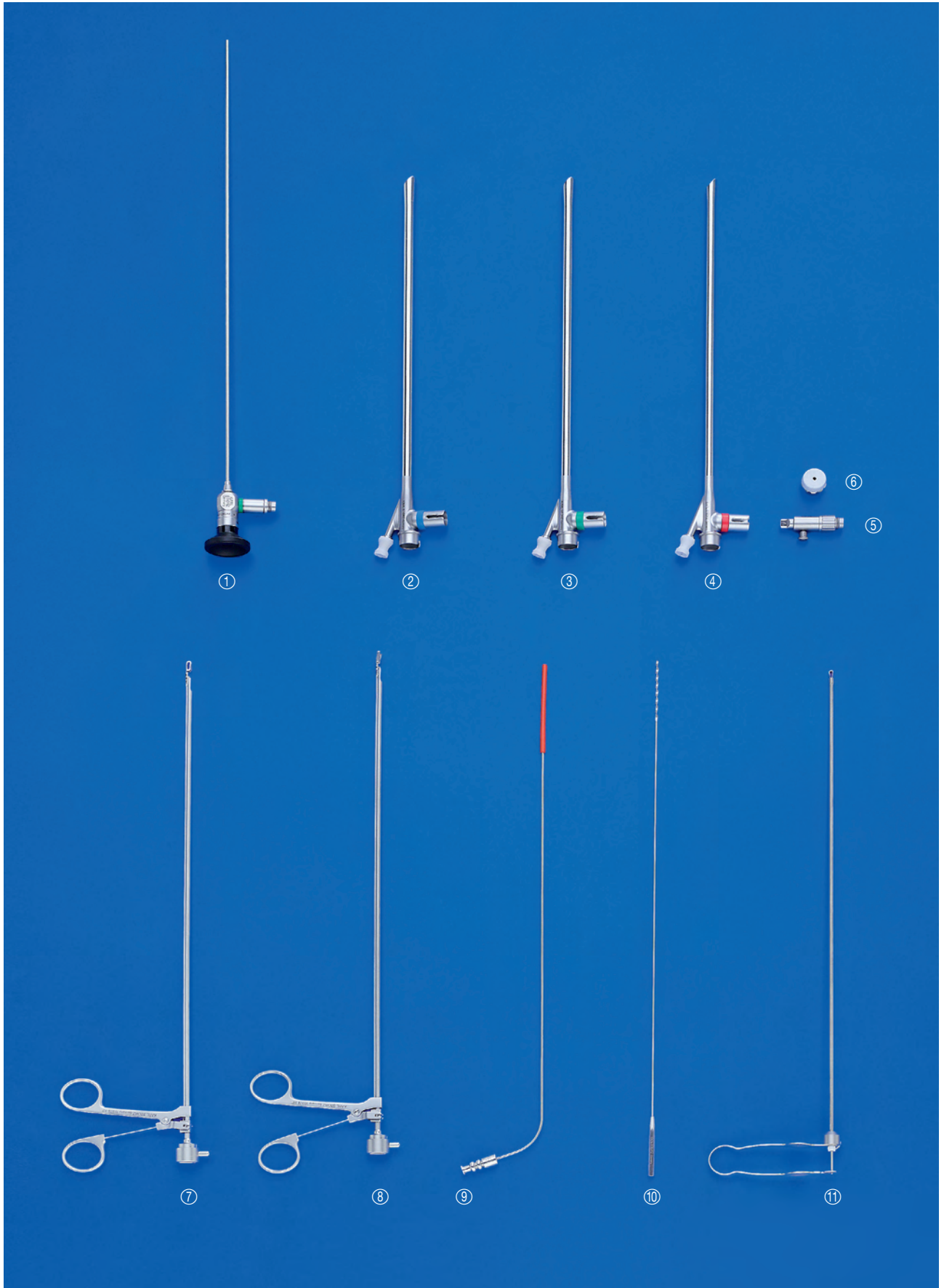
- 39501 BR **Wire Tray for Cleaning, Sterilization and Storage**, of telescopes and accessories for bronchoscopy
- 39501 ES **Wire Tray for Cleaning, Sterilization and Storage**, of instruments and accessories for bronchoscopy and esophagoscopy

Further accessories for cleaning and sterilization see catalog HYGIENE

Esophagoscopy Pediatric Set with Proximal Illumination

Basic Set

STORZ
KARL STORZ — ENDOSKOPE



8-11

Esophagoscopy Pediatric Set with Proximal Illumination

Basic Set

- ① 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 12030 A **Esophagoscope Tube**, size 6, length 30 cm
- ③ 12030 B **Same**, size 5
- ④ 12030 C **Same**, size 4
- ⑤ 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- ⑥ 10338 N **Rubber Telescope Guide**, for use with telescopes and optical forceps
- ⑦ 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA
- ⑧ 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA
- ⑨ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ⑩ 3x 10384 B **Cotton Applicator**, working length 35 cm
- ⑪ 10387 B **Sponge Holder**, with spring handle, working length 35 cm

Accessories recommended for containers (not illustrated):

39753 A2 **Sterilization Container**, with MicroStop®

39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs**

39100 S **Large Diamond Grid Silicone Insert**

39763 A2 **Coding Label**

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Bronchoscopy Adult Set with Proximal Illumination

Basic Set

STORZ
KARL STORZ — ENDOSKOPE



Basic Bronchoscopy Adult Set with Proximal Illumination

Basic Set

- | | | |
|---|------------|---|
| ① | 10320 AA | HOPKINS® Straight Forward Telescope 0° , diameter 5.5 mm, length 50 cm, autoclavable , fiber optic light transmission incorporated, color code: green |
| ② | 10320 BA | HOPKINS® Forward-Oblique Telescope 30° , diameter 5.5 mm, length 50 cm, autoclavable , fiber optic light transmission incorporated, color code: red |
| ③ | 10318 B | Universal Bronchoscope , size 8.5, length 43 cm |
| ④ | 10318 C | Same , size 7.5 |
| ⑤ | 10318 D | Same , size 6.5 |
| ⑥ | 10315 P | FLUVOG Adaptor , with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable |
| ⑦ | 10924 D | Adaptors , to respirator |
| ⑧ | 10318 S | Instrument Guide , for suction catheter |
| ⑨ | 10318 K | Injection Cannula , for positive pressure assisted ventilation, LUER-Lock, outer diameter 3.5 mm, for use with Bronchoscopes 10318 B/C/D |
| ⑩ | 10350 HF | Optical Forceps , alligator, for hard foreign bodies, large jaws, with spring-action handle |
| ⑪ | 10350 KF | Optical Forceps , for peanuts and soft foreign bodies, with spring-action handle |
| ⑫ | 10350 L | Optical Biopsy Forceps , spoon-shaped, round, for biopsy |
| ⑬ | 3x 10384 A | Cotton Carrier , working length 50 cm |
| ⑭ | 10387 A | Sponge Holder , with spring handle, working length 50 cm |
| ⑮ | 10381 A | Suction Tube , with rubber tip, straight, diameter 4 mm, working length 50 cm |
| ⑯ | 10382 A | Suction Tube , with rubber tip, curved, diameter 4 mm, working length 50 cm |

Recommended Wire Trays (not illustrated):

39501 BR **Wire Tray for Cleaning, Sterilization and Storage**, of telescopes and accessories for bronchoscopy

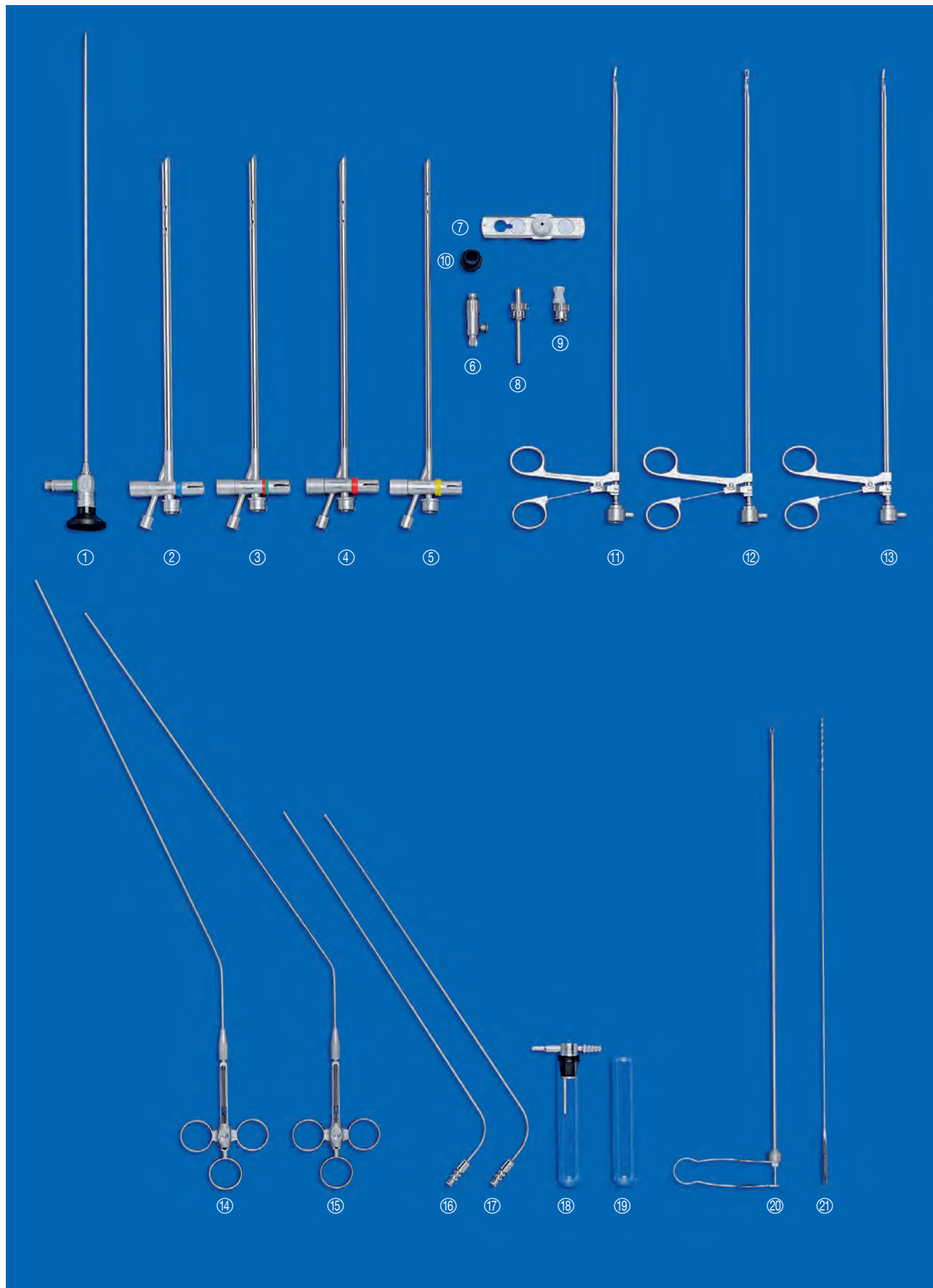
39501 ES **Wire Tray for Cleaning, Sterilization and Storage**, of instruments and accessories for bronchoscopy and esophagoscopy

Further accessories for cleaning and sterilization see catalog HYGIENE

Basic Bronchoscopy Pediatric Set with Proximal Illumination

Basic Set

STORZ
KARL STORZ — ENDOSKOPE



Basic Bronchoscopy Pediatric Set with Proximal Illumination

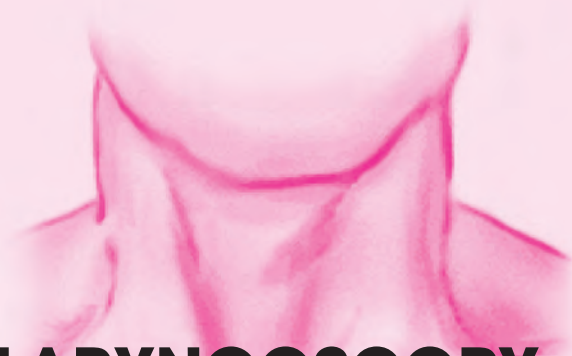
Basic Set

- ① 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- ② 10339 A **DOESEL-HUZLY Bronchoscope**, size 6, length 30 cm
- ③ 10339 BB **Same**, size 4.5
- ④ 10339 C **Same**, size 4
- ⑤ 10339 CD **Same**, size 3.5
- ⑥ 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- ⑦ 10338 P **FLUVOG Adaptor**, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
- ⑧ 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- ⑨ 10338 S **Guide Piece**, for suction catheter, short, for bronchoscopes for children and infants
- ⑩ 10924 D **Adaptor**, for respirator
- ⑪ 10378 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
- ⑫ 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
- ⑬ 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle, for use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – DD
- ⑭ 10386 B **Foreign Body Basket**, with ring handle, working length 35 cm
- ⑮ 10389 B **Cytology Brush**, with ring handle, working length 35 cm
- ⑯ 10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
- ⑰ 10382 B **Suction Tube**, with rubber tip, curved, diameter 2 mm, working length 35 cm
- ⑱ 10432 N **Aspirator**, for collecting secretions, can be connected to suction tubes or suction catheters
- ⑲ 2x 10432 E **Spare Glass**, for Aspirator 10432 N
- ⑳ 2x 10384 B **Cotton Applicator**, working length 35 cm
- ㉑ 10387 B **Sponge Holder**, with spring handle, working length 35 cm

Accessories recommended for containers (not illustrated):

- 39753 A2 **Sterilization Container**, with MicroStop®
- 39219 XU **Universal Instrument Rack with Silicone Holders and Tie-downs**
- 39100 S **Large Diamond Grid Silicone Insert**
- 39763 A2 **Coding Label**

Further accessories for cleaning and sterilization see catalog HYGIENE



**LARYNGOSCOPY
TRACHEOSCOPY**

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X

STORZ
KARL STORZ — ENDOSKOPE

Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable with EtO-Gas, Sterrad® 100S and Steris® System 1/System 1E
- Short insertion tip



3-073

CCD Video Rhino-Laryngoscope

for use with IMAGE1, TELECAM SL II, TELECAM DX II,
TELE PACK and TELE PACK X



11101 VP

11101 VP **CCD Video Rhino-Laryngoscope, PAL**, for use with IMAGE1,
TELECAM SL II, TELECAM DX II, TELE PACK and TELE PACK X
Direction of view: 0°
Angle of view: 85°
Deflection up/down: 140°/140°
Working length: 30 cm
Outer diameter: 3.7 mm

Following accessories are included:

27677 VC **Case**
13242 XL **Leakage Tester**, with bulb and manometer
11025 E **Pressure Compensation Cap**, for ventilation during gas sterilization

Note: The video connecting cables are not included in the set and must be ordered separately!

22 2000 77 **Video Endoscope Adaptor**, color systems **PAL/NTSC**,
length 90 cm, for use with GI CCU and IMAGE1
or
20 2130 70 **Video Connecting Cable**, for all KARL STORZ video
endoscopes and TELECAM SL II, TELECAM DX II,
TELE PACK or TELE PACK X, length 60 cm

TELE PACK X

Documentation Terminal for Video Rhino-Laryngoscope

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source. Consideration has also been given to documentation:

Display

- 15" LCD display
- Image rotation
- 24-bit color intensity
- DVI-D video output for connecting HD monitors

Storage possibilities

- SD card slot
- USB ports for external hard drives, USB flash drives and post-script printers
- Picture gallery for records
- Playback of saved videos
- Print-ready patient report documentation

Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Illumination

- HiLux 50 Watt high-performance light source
- Color temperature of 5700 K
- Up to 1000 hours lamp operating time

Control

- Membrane keyboard for wipe-down disinfection
- Arrow keys for control
- Connection socket for pedal control

Appendix

- Portable housing
- Universal power supply unit: 100 – 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 450 x 350 x 150 mm
- Weight: 7 kg



20 045001-EN

20 0450 01-EN TELE PACK X

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC**, with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Technical information see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

Laryngo-Fiberscopes



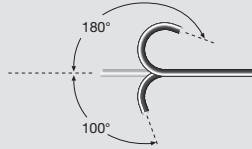


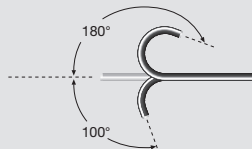


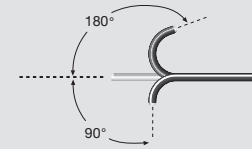


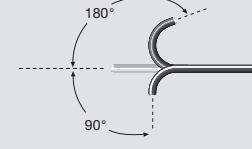


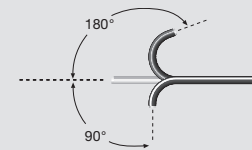
Special Features:

- Waterproof, fully immersible for cleaning and disinfection
- Simple leakage test takes only a few minutes and requires no additional accessories
- Sterilizable with EtO-Gas, Steris® and Sterrad®



Laryngo-Fiberscopes

Overview

Laryngo-Fiberscopes	Order No.		Deflection	Direction of View	Angle of View
3.5 x 340 mm 	11001 RD			0°	90°
5 x 230 mm 	11001 UD			0°	110°
3.5 x 300 mm 	11101 RP			0°	70°
2.5 x 270 mm 	11101 SK			0°	90°
2.5 x 370 mm 	11101 SP			0°	90°

Accessories included:



- 27677 BB **Case**
- 27677 RR **Case**
- 11025 E **Pressure Compensation Cap**,
for ventilation during gas sterilization
- 13242 XL **Leakage Tester**, with bulb and
manometer
- 13272 **Mouthpiece**

3-07

	Working Length	Working Channel Inner Diameter	Distal End Outer Diameter	Case	Accessories (included)					
					Pressure Compensation Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
	34 cm	1.5 mm	3.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AK	11003 KA	11003 KB
	23 cm	2.3 mm	5.2 mm	27677 RR	11025 E	13242 XL	13272	27651 B	11001 SL	11002 SS
	30 cm	–	3.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–
	27 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–
	37 cm	–	2.5 mm	27677 RR	11025 E	13242 XL	–	–	–	–

Accessories included:



27651 AK

Cleaning Brush, round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm



27651 B

Cleaning Brush, flexible, for working channel diameter 1.8 – 2.6 mm, length 100 cm



11003 KA

Biopsy Forceps, flexible, double action jaws, oval, diameter 1 mm, length 60 cm

11001 SL

Biopsy Forceps, flexible, double action jaws, oval, 5 Fr., length 60 cm

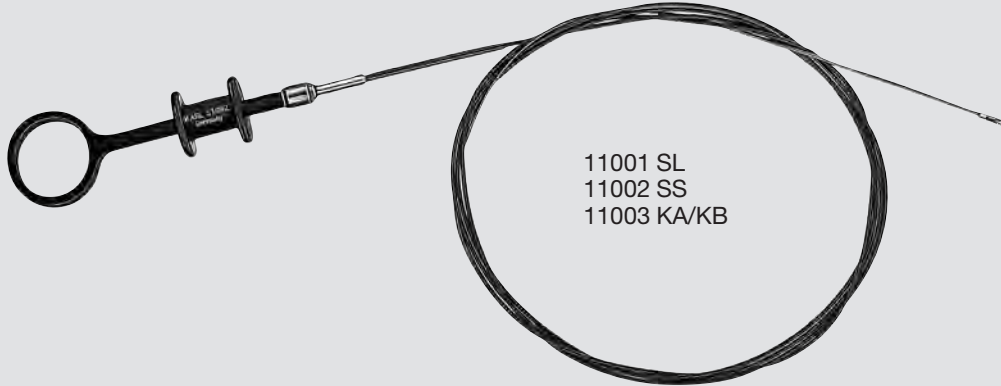
11003 KB

Grasping Forceps, flexible, double action jaws, diameter 1 mm, length 60 cm

11002 SS



Grasping Forceps, flexible, double action jaws, diameter 1.7 mm, length 60 cm

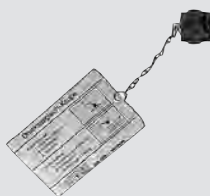
Additional Accessories for Laryngo-Fiberscopes



11001 SL
11002 SS
11003 KA/KB

Forceps, Grasping and Biopsy, flexible for Laryngo-Fiberscopes:

Distal Tip	Order No.	Article Description	Diameter	Length
	11003 KA	Biopsy Forceps , double action jaws, oval	1 mm	60 cm
	11001 SL		1.7 mm	60 cm
	11003 KB	Grasping Forceps , double action jaws	1 mm	60 cm
	11002 SS		1.7 mm	60 cm



11025 E



13242 XL

13242 XL **Leakage Tester**, with bulb and manometer

11025 E **Pressure Compensation Cap**, for ventilation during gas sterilization

To freeze the moment



3-07

KARL STORZ Stroboscope PULSAR II

With its high-performance LED, the stroboscope PULSAR II generates light for stroboscopy. The frequency of the pulsating light can also be set to continuous light so that it can be used as a position light.

Image documentation involves connecting a camera head to the respective telescope in conjunction with the KARL STORZ documentation system.

Benefits of the system:

- No difference between strobe and continuous light in terms of brightness and color temperature
- Text overlay on video image possible
- Display in musical notation



KARL STORZ Stroboscope PULSAR II

System components included:

- **LED light source with integrated microphone:**
In a microphone integrated in the handle, the audio signal is recorded, amplified and analyzed to then synchronize the stroboscope with vocal fold vibration.
- **Contact microphone:**
Alternatively, the contact microphone can be used to perform the functions described above.
- **Footswitch:**
The footswitch controls phase synchronization in still image mode and slow motion function. It can also be used to control the optional documentation unit.

Additionally available system components

- **Camera Control Unit (CCU) and camera heads from KARL STORZ**
- **Documentation units from KARL STORZ**
- **Audio equipment for amplification or recording**
- **KARL STORZ monitors**

The system components described above feature these additional functions:

- **Automatic brightness control**
- **Text/data overlay to video image**



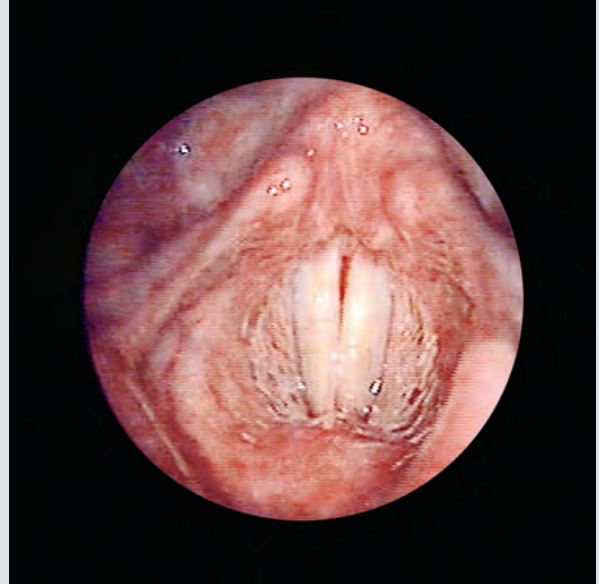
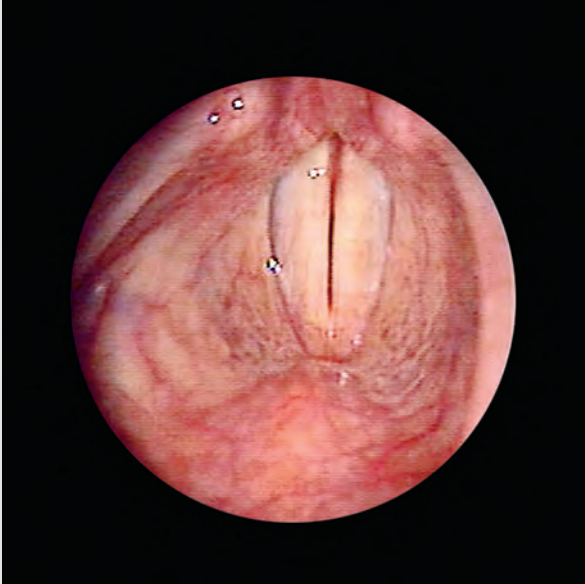
40 1601 01 PULSAR II Stroboscope Set,
power supply 100 – 240 V, 50/60 Hz
including:
Mains Cord
LED Stroboscopy Light Source
Footswitch
Contact Sound Microphone, with clip

Specifications:

Power Supply	100-240 V, 50/60 Hz	Slow motion frequency	0.5 – 2.5 Hz
Dimensions w x h x d	305 x 74 x 233 mm	Phase shift	0 – 360°
Weight	2.5 kg	Flash performance	3.5 Ws
Certified to	IEC 601-1, CE acc. to MDD	Protection class	I
Power Input	20 VA	Operating Temperature	10° – 40°
Flash light energy level	2.5 Ws (pulse energy)	Humidity	5% – 95%
Triggerable frequency	80 – 1400 Hz	Temperature	20° – 60°
		Classification	Ila

Components/Spare Parts see chapter 16

Striking detail



With the μ -PULSAR, KARL STORZ offers a product for portable stroboscopy.

Image documentation can normally be carried out by connecting a camera head to the respective telescope in conjunction with the KARL STORZ TELE PACK.

The system can be connected directly to KARL STORZ laryngoscopes. One of the most important advantages of the power system is therefore its mobility. The small, lightweight and compact KARL STORZ μ -PULSAR can easily be carried in a lab coat and breast pockets or stored in a drawer.

Quality/comfort:

- Lightweight (180 g)
- Integrated LED

Mobility:

- Device locks directly onto the endoscope's light port

Operative efficiency:

- No need to change lamp

Special Features:

- Noiseless
- Documentation possible
- Lightweight
- No separate light source required
- No separate light cable required
- Rechargeable lithium-ion batteries free from memory effect
- All KARL STORZ loupe laryngoscopes can be used



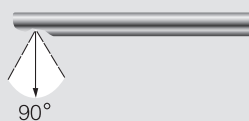
40 1500 20

40 1500 01 **KARL STORZ μ -PULSAR**, for laryngeal stroboscopy

HOPKINS® Telescopes

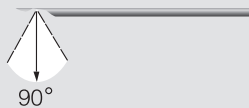
for Laryngo-Pharyngoscopy

Direction of View 90°



8700 DKA **Tele-Laryngo-Pharyngoscope**, with integrated HOPKINS® lateral telescope 90°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue

8700 H **Handle**, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



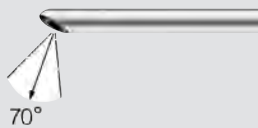
8707 DA **Tele-Laryngo-Pharyngoscope**, with integrated HOPKINS® lateral telescope 90°, 4x magnification focusing device, diameter 10 mm, length 15 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue

Please note: For instruments for indirect laryngoscopy see pages 359-362

HOPKINS® Telescopes

for Laryngo-Pharyngoscopy

Direction of view 70°

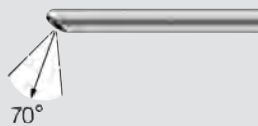


8700 CKA

8700 H

8700 CKA **BENJAMIN Tele-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°, angle of view 50°, diameter 5.8 mm, length 19 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

8700 H **Handle**, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8705 CKA

8705 H

8705 CKA **BENJAMIN Slimline Tele-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°, angle of view 50°, diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

8700 H **Handle**, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8706 CA

8706 CA **Strobo-Laryngoscope**, with integrated HOPKINS® lateral telescope 70°, oval sheath, 7.2 x 9.3 mm, working length 17 cm, **autoclavable**, fiber optic light transmission incorporated, color code: yellow

Please note: For instruments for indirect laryngoscopy see pages 359-362

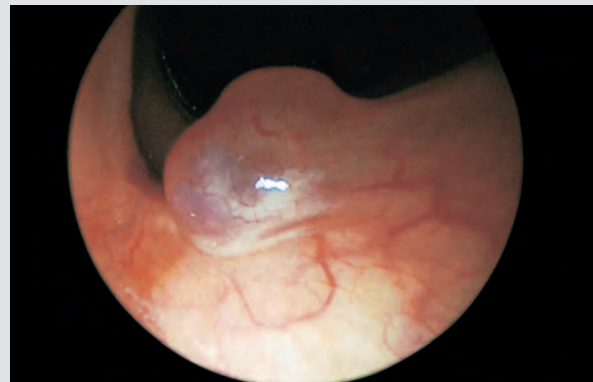
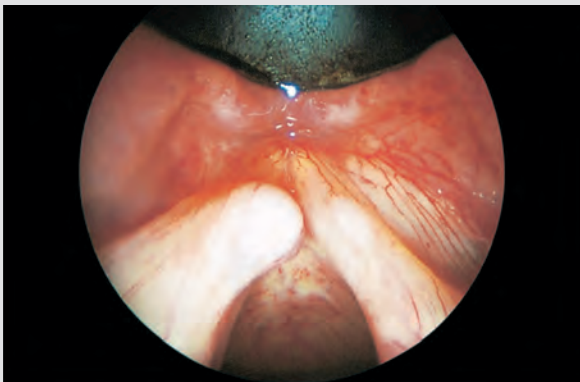
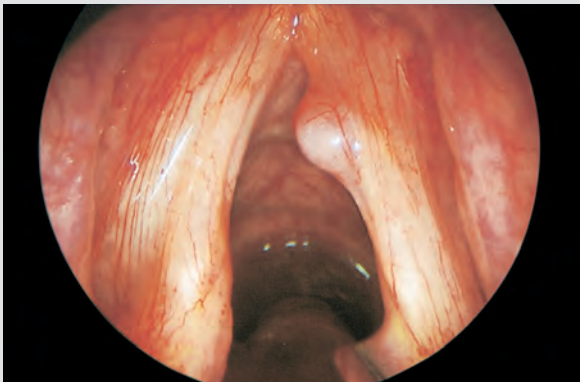
Rigid Endoscopy associated with Microlaryngeal Surgery (REMS)

Prof. ANDREA and Prof. DIAS

Endoscopic procedures in general, including techniques carried out in the office and microlaryngoscopy, only enable the observation of the larynx along a vertical axis. This imposes limitations on the diagnosis and physiopathological interpretation of diseases, as well as on treatment and follow-up. Research work on laryngeal microanatomy conducted by the authors reinforced the need to assess the larynx from different perspectives in order to improve the evaluation of pathological findings. This led to the systematic use of rigid endoscopes with different angles of vision (0°, 30°, and 70°) during endotracheal intubation. **Rigid Endoscopy associated with Microlaryngeal Surgery (REMS)** significantly enhances the ability to assess the larynx and offers high quality imaging, even of regions that are traditionally difficult to explore, such as the inferior surface and free

border of the vocal cords, the anterior commissure, the ventricles and the subglottis. Parameters considered important for the evaluation of premalignant and malignant lesions can be analyzed in greater detail, due to the multiperspective approach and the HOPKINS® II telescopes from KARL STORZ. REMS is also beneficial for the assessment of benign pathological indications of the vocal cords and for subsequent excision. REMS is easy to perform and, apart from the rigid telescopes which were specifically designed for this application, it requires no equipment other than that which is required for conventional laryngeal endoscopy.

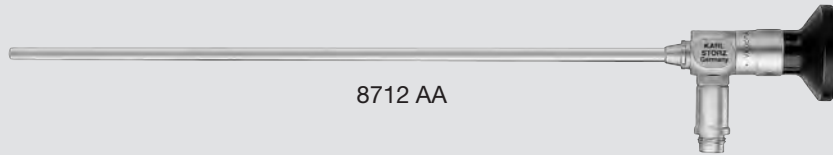
*Prof. M. ANDREA, M. D. and Prof. O. DIAS, M. D.,
Universidade de Lisboa, Serviço de Otorhinolaringologia,
Lisbon, Portugal*



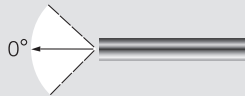
Multiperspective assessment of a vocal cord polyp using rigid endoscopes 8712 AA/BA/CA (0°, 30° and 70°). The diameter and length of these endoscopes allow observation of all regions of the larynx with regular endotracheal intubation.

HOPKINS® II Telescopes

for Rigid Endoscopy associated with Microlaryngeal Surgery (REMS),
Prof. ANDREA and Prof. DIAS



8712 AA



8712 AA

HOPKINS® II Straight Forward Telescope 0°,
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: green



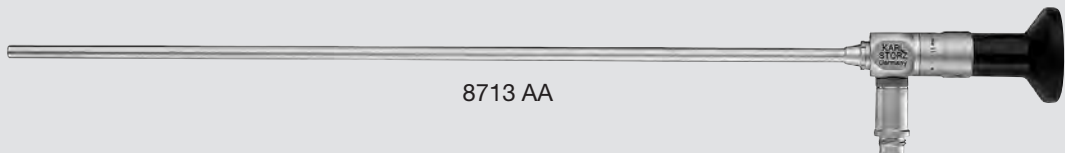
8712 BA

HOPKINS® II Forward-Oblique Telescope 30°,
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: red

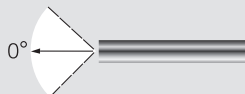


8712 CA

HOPKINS® II Lateral Telescope 70°,
enlarged view, diameter 5 mm, length 24 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: yellow



8713 AA



8713 AA

HOPKINS® II Straight Forward Telescope 0°,
enlarged view, diameter 5 mm, length 29 cm,
autoclavable, fiber optic light transmission
incorporated,
color code: green



15006 B



15006 C



15006 D

Antifog Solution

- 15006 B "ULTRA STOP" Antifog Solution, 25 ml, pipette bottle
- 15006 C "ULTRA STOP" Antifog Solution, 30 ml, sterile, pierce bottle
- 15006 D "ULTRA STOP" Antifog Solution, 15 ml, atomizer bottle



Fiber Optic Light Cables

- 495 NL **Fiber Optic Light Cable**, diameter 3.5 mm, length 180 cm
- 495 NA **Same**, length 230 cm

Fluid Light Cables

- 495 FO **Fluid Light Cable**, diameter 3 mm, length 180 cm
- 495 FP **Same**, length 250 cm

Trays for telescopes see catalog HYGINENE

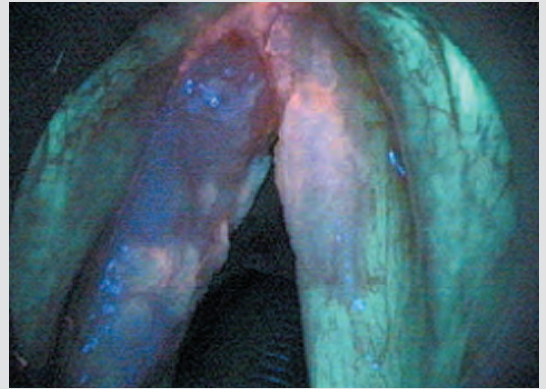
White Light Endoscopy (Microlaryngoscopy) vs. Autofluorescence

Diagnosis:

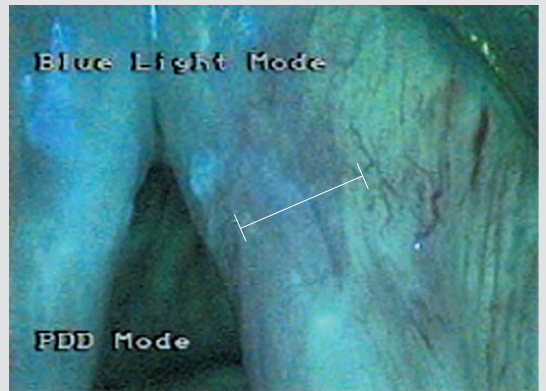
White Light



Autofluorescence



Keratinizing squamous cell carcinoma on the left, with moderately dysplastic ramifications towards the right vocal cord

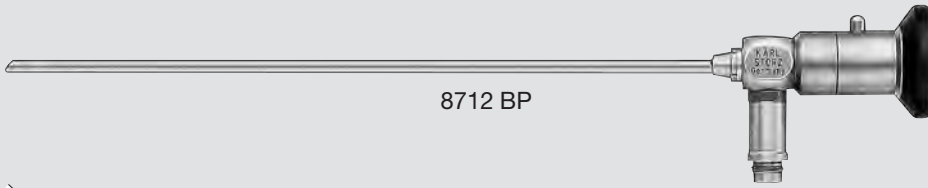


Focal squamous epithelium dysplasia of moderate degree (concomitant with epidermization and focal leucoplasia) only visible in the autofluorescence image by way of of the fluorescence reduction in the marked area (2 patients)

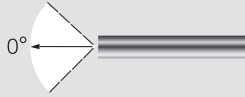
11-03

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Direct Laryngo-Pharyngoscopy



8712 BP



8712 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8712 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red

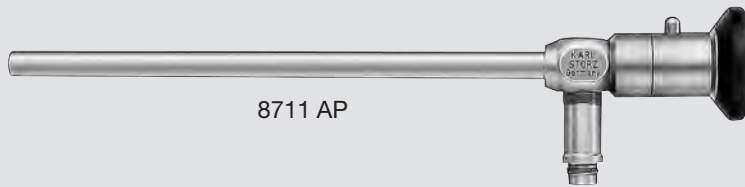


8712 CP

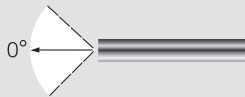
HOPKINS® II Lateral Telescope 70°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm



8711 AP

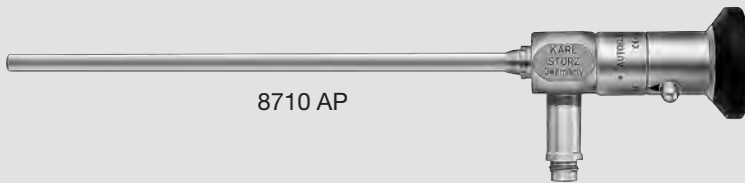


8711 AP

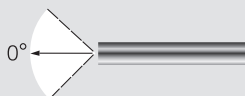
HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm



8710 AP



8710 AP

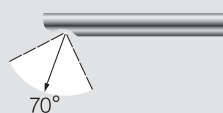
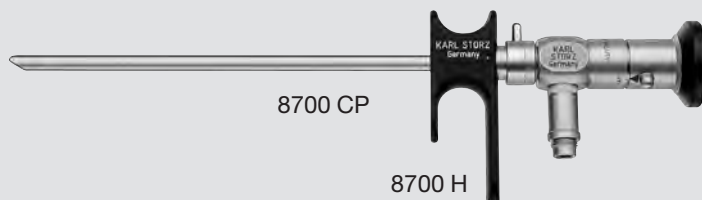
HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Indirect Laryngo-Pharyngoscopy

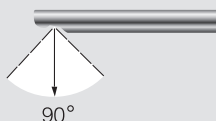


8700 CP

Tele-Laryngoscope, with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

8700 H

Handle, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA

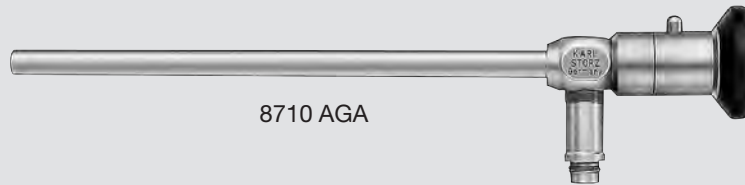


8707 DP

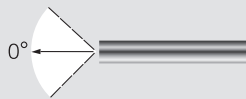
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable**, diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated, color code: blue

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm

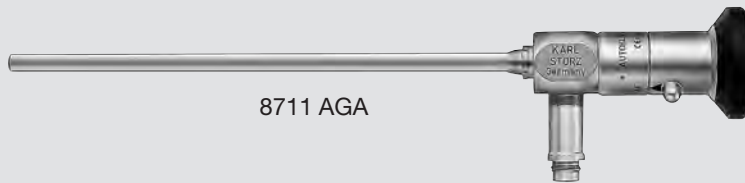


8710 AGA

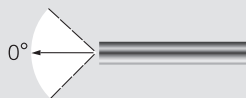


8710 AGA

HOPKINS® Straight Forward Telescope 0°, for perfusion assessment, autofluorescence and white light diagnosis, diameter 5.8 mm, length 19 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8711 AGA



8711 AGA

HOPKINS® Straight Forward Telescope 0°, enlarged view, for perfusion assessment, autofluorescence and white light diagnosis, diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

For further informationen and instruments for ICG angiography see chapter 13, FLUORESCENCE

HAVAS Operating Laryngoscope

The HAVAS video laryngoscope from KARL STORZ is a significant step forward in endoscopic laryngeal surgery.

The HAVAS operating laryngoscope comprises the following components:

- Video laryngoscope
- Integrated light carrier/telescope holder
- Telescopic sheath protector

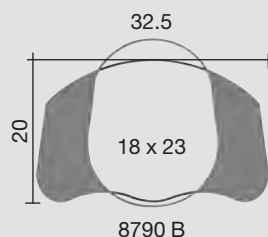
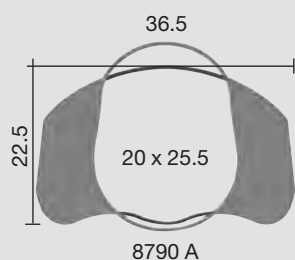
The laryngoscope enables visualization of the supraglottic and glottic airway. Furthermore, the angulation of the tip provides a view of areas that are difficult to see such as the anterior commissure and the anterior part of the laryngeal ventricles.

The cut-out lateral ports at the proximal end of the laryngoscope allow the introduction of standard instruments or the malleable HAVAS **LaryngoFIT**® instruments for microsurgery. This facilitates endoscopic bimanual surgery using a monitor rather than an operating microscope.

T. HAVAS

MB. BS (SYD), MD. (UNSW) FRCSE FRACS FACS
 A/Professor Conjoint UNSW
 Suite 506, 1 Newland Street
 Bondi Junction, NSW, Australia

Dimensions in mm:
 proximal and distal



8790 A/B

- 8790 A HAVAS **Operating Laryngoscope**, with extra light handle, large model, length 17 cm, with connector for Light Carrier 497 HC
- 8790 B HAVAS **Operating Laryngoscope**, with extra light handle, medium model, length 17 cm, with connector for Light Carrier 497 HC

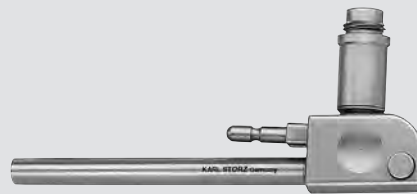
HAVAS Operating Laryngoscope

Accessories

The combination of a light carrier with integrated telescope holder facilitates the introduction of the laryngoscope with illumination. The telescopic sheath protector enables the introduction of any 4 mm standard telescope (0/30/45/70/90/120°). The telescope is inserted in the sheath and then anchored in the integrated light source/telescope holder. This enables detailed endo-

scopic examination of all parts of the larynx, such as the laryngeal ventricles or the anterior commissure.

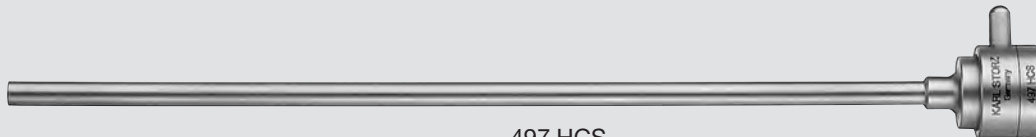
*T. HAVAS
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A/Professor Conjoint UNSW
Suite 506, 1 Newland Street
Bondi Junction, NSW, Australia*



497 HC

497 HC

HAVAS **Light Carrier**, with integrated telescope channel diameter 5 mm, for proximal illumination, for use with Laryngoscope 8790 A/B



497 HCS

497 HCS

Telescope Protective Sheath, outer diameter 5 mm, length 20 cm, for use of Light Carrier 497 HC with Telescopes 7230 AA, BA, CA, DA, EA, FA

HAVAS LaryngoFIT® Instruments

Accessories

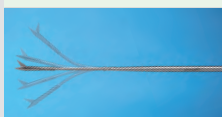
Special Features:

- Malleable distal end enables adjustment of the working end according to individual needs
- Inserts can be locked into three different positions
- Can be completely dismantled
- Cleaning by means of a LUER connector

Working Attachment

for use with
Metal Handle

Working Length 25 cm



LaryngoFIT® HAVAS Forceps, malleable

	8791 AZ	round cupped jaws, 2 mm, straight
	8793 AZ	serrated, straight
	8793 GHZ	serrated, triangular, straight

LaryngoFIT® HAVAS Scissors, malleable

	8794 AZ	straight
--	---------	----------

550000

Please note:

Metal Handle 550000 is **not** included in delivery. Please order separately.

Video Laryngoscopy

Advantages of video laryngoscopes compared to operation microscopes:

- Clear, sharp imaging
- The laryngoscope spatula does not restrict the field of vision
- The wide angle of view of the HOPKINS® telescope provides a larger overview behind the distal end of the laryngoscope
- Better access to the anterior commissure
- No operation fatigue
- Simplifies the work of the assistant
- Images can be documented immediately
- Ideal for training purposes



Advantages:

With this method the binocular operation microscope is replaced by the KARL STORZ video system. This system guarantees the best possible conditions for:

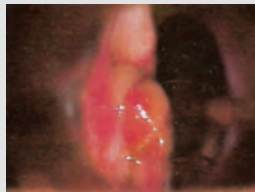
- operating
- documentation
- teaching of microlaryngological operation techniques

When connected to a video printer, this system enables high quality instant printouts to be made as a source of information for:

- physician referral
- radiologists
- oncologists



Microscope



Microscope



Video Laryngoscope



Video Laryngoscope

For Video Documentation Systems and Light Sources see catalog TELEPRESENCE

KANTOR-BERCI Video Laryngoscopes

Model IV



8575 AV



8575 AV

HOPKINS® Straight Forward Telescope 15°, diameter 4 mm, length 17 cm, **autoclavable**, 45° angled eyepiece, fiber optic light transmission incorporated, color code: green



8590 JV



8590 TV

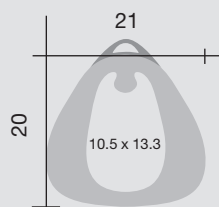
Full size illustration:
inner diameter in mm
proximal and distal



8590 JV

8590 JV

KANTOR-BERCI Video Laryngoscope, model IV, for adults, length 18 cm, enlarged proximal opening, curved distal tip especially designed to elevate the epiglottis and for placement of the anterior commissure, telescope guide tube integrated inside the lumen, with adaptor for HOPKINS® Telescope 8575 AV, for use with distal Fiber Optic Light Carrier 8590 GF or proximal Light Clip 497 AC, Vapor Suction Tube 8590 M and Laryngoscope Holder 8575 K or 8575 KC



8590 TV

8590 TV


Same, for adolescents and adults, length 17 cm, for use with proximal Light Clip 497 AC and Laryngoscope Holder 8575 K or 8575 KC

Accessories for KANTOR-BERCI Video Laryngoscopes see page 580





For use with KANTOR/BERCI Video-Laryngoscopes, Model IV


Special feature of the miniature forceps with cupped jaws and scissors:

- Distal end with 10° upwards curve provides better access to anterior commissure








8591 BV

	8591 AV	KLEINSASSER Spoon Forceps , 2 mm, straight, sheath conically reinforced from distal to proximal end, distal end curved upwards 10°, with cleaning connector, working length 23 cm
	8591 BV	Same , curved upwards 45°
	8591 CV	Same , curved to right
	8591 DV	Same , curved to left




8594 CV

	8594 AV	KLEINSASSER Scissors , straight, sheath conically reinforced from distal to proximal end, distal end curved upwards 10°, with cleaning connector, working length 23 cm
	8594 BV	Same , curved upwards 45°
	8594 CV	Same , curved to right
	8594 DV	Same , curved to left



8602 KV
8603 KV

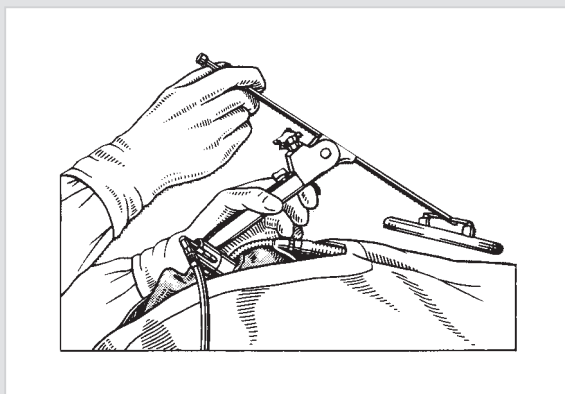
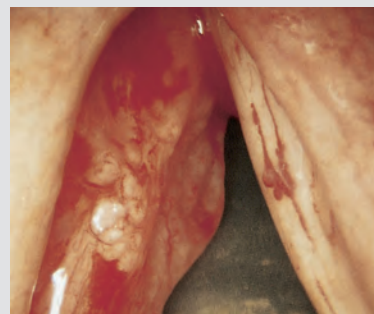
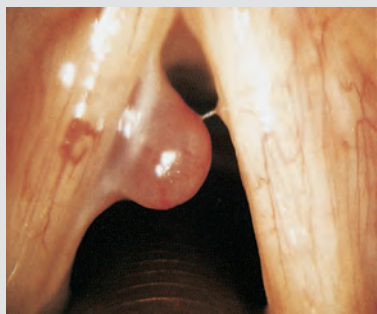
	8602 KV	KLEINSASSER Suction Tube , ball end, curved upwards, outer diameter 2 mm, working length 23 cm
	8603 KV	Same , outer diameter 3 mm

Original KLEINSASSER Operating Laryngoscopes

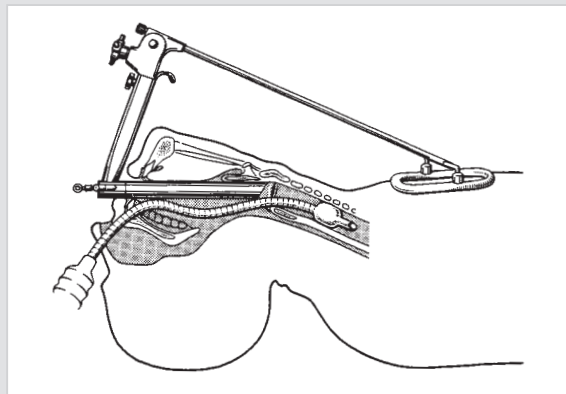
A complete set of laryngoscopes for adults and children are available. These laryngoscopes allow a good view of the laryngeal area, even under difficult anatomical conditions, such as limited oral aperture and short, thick, stiff necks. Uniform pressure distribution with reduced danger of tooth damage is provided by the flat support area of the laryngoscope against the teeth. A tooth guard to help protect the teeth and gums is also available. The laryngoscopes have smooth surfaces and are easy to clean and sterilize.

The chest support can be placed directly against the thorax. Special tables and support devices can be used with this chest support if required.

Small diameter grasping and cutting instruments are available. These instruments have a thin, but very rigid sheath which allows exact control during surgery within the laryngeal area.



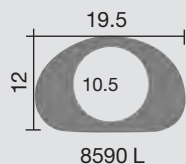
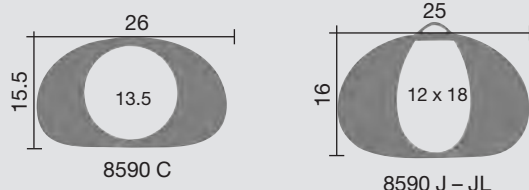
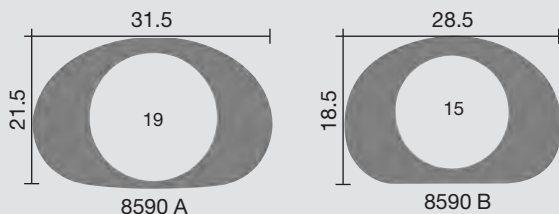
Placement of the chest support after introduction of the laryngoscope.



Final adjustment of the laryngoscope before the beginning microlaryngoscopy.

Original KLEINSASSER Operating Laryngoscopes

Full size illustration:
inner diameter in mm proximal and distal



8590 A - L 8590 GF - HF

8590 A **KLEINSASSER Operating Laryngoscope**,
for adults, extra large, length 17 cm

8590 B **Same**, large

8590 C **Same**, medium (most commonly
used model)

8590 DN **Same**, small, length 18 cm
(for particularly difficult
anatomical circumstances)

8590 J **Same**, medium, length 18 cm
(for anterior commissure)

8590 JL **Same**, medium, length 22 cm
(for especially long neck)

8590 K **Same**, for children, small,
length 15 cm

8590 L **Same**, for infants, small,
length 13 cm

497 AC **Clip**, for proximal illumination

8590 GF **Fiber Optic Light Carrier**, for distal
illumination, working length 14 cm, for
use with Laryngoscopes 8590 A - JL

8590 HF **Fiber Optic Light Carrier**, for distal
illumination, working length 7.5 cm,
for use with Laryngoscopes 8590 K - JL

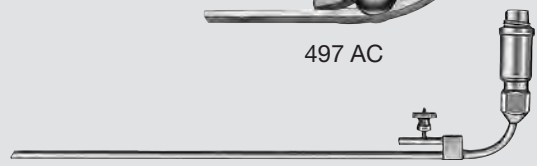
8590 KC **Injection Cannula**, for positive pressure
assisted ventilation, working length 8.5 cm,
for use with Laryngoscopes 8590 A - L

8590 M **Suction Tube to remove vapor**,
for LASER treatment, diameter 3 mm,
working length 12.5 cm, for use with
Laryngoscopes 8590 A - JL

8590 N **Suction Tube, to remove vapor**,
for LASER treatment, diameter 3 mm,
working length 9 cm, for use with
Laryngoscopes 8590 K - L



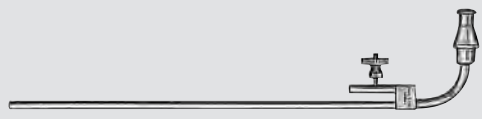
497 AC



8590 GF - HF



8590 KC



8590 M - N

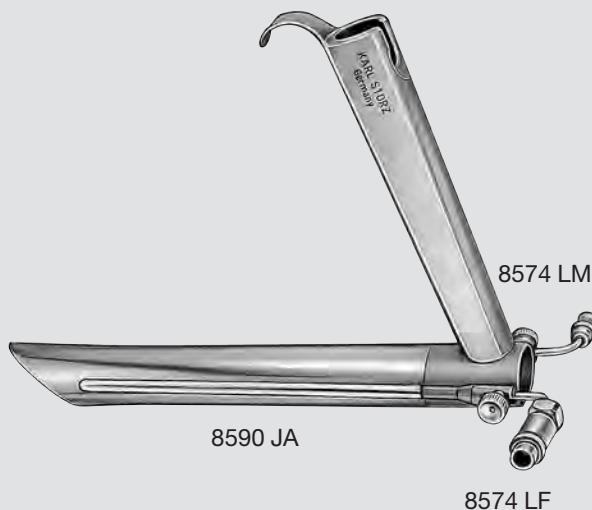
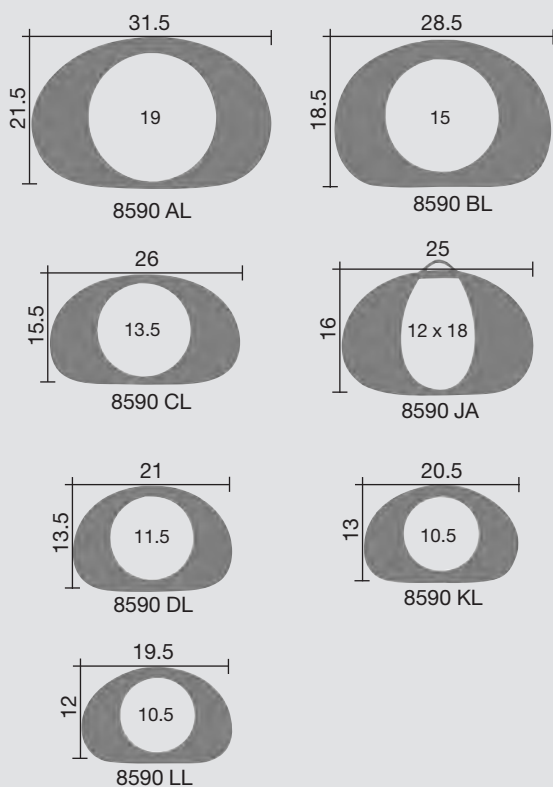
KLEINSASSER Operating Laryngoscopes

modified by RUDERT

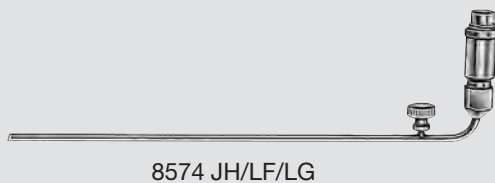
Special Features:

- Proven conical KLEINSASSER design
- Modified by RUDERT with right and left lateral outer channels used for smoke evacuation and/or for fiber optic light carrier
- Full lumen working capacity, unobstructed view, operating instruments cannot get caught

Full size illustration:
inner diameter in mm proximal and distal



- 8590 AL **KLEINSASSER Laryngoscope**, extra large, modified by RUDERT for CO₂ LASER surgery, for adults, with lateral outer channels for suction tube to remove vapor and/or for fiber optic light carrier, length 17 cm
- 8590 BL **Same**, large
- 8590 CL **Same**, medium
- 8590 DL **Same**, small, length 18 cm
- 8590 JA **Same**, medium, length 18 cm, for anterior commissure
- 8590 KL **Same**, for children, length 15 cm
- 8590 LL **Same**, for infants, length 13 cm
- 8574 JH **Fiber Optic Light Carrier**, for distal illumination, length 12 cm, for use with Laryngoscopes 8574 J/JP and 8590 LL
- 8574 LF **Same**, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C
- 8574 LG **Same**, length 14 cm, for use with Laryngoscope 8590 KL
- 8574 JK **Suction Tube, to remove vapor**, for LASER treatment, length 12 cm, for use with Laryngoscopes 8574 J/JP and 8590 LL
- 8574 LM **Same**, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C
- 8574 LN **Same**, length 14 cm, for use with Laryngoscope 8590 KL



8574 JH/LF/LG



8574 JK/LM/LN

Triangle Anterior Commissure Laryngoscopes

Most laryngoscopes have a round or oval distal opening, which is not optimally suited to the triangular shaped glottis (Fig. 1, left). It is therefore frequently not possible to focus on the anterior commissure with these laryngoscopes. The so-called "anterior commissure tubes" with upturned distal end shift the larynx and thus the anterior third of the glottis forwards out of the field of view. In addition to this, the curve of the tube end impedes the view of the anterior commissure (Fig. 2).

Taking up the idea of Vaughan, we developed a laryngoscope for examining the anterior commissure. Its

distal end is not upturned, but is shaped like the ridge of a roof. The triangular shape means that the distal opening fits into the similarly triangular shape of the glottis (Fig. 1, right). The laryngoscope offers a good view of the glottis from the anterior commissure right to the arytenoid region.

The laryngoscope is available in 2 sizes. The smaller one is the universal tube. The larger one is suitable for large larynxes in adults with edentulous upper jaws.

*Prof. emer. H. RUDERT, M. D.,
Universitätsklinik Kiel, Germany*

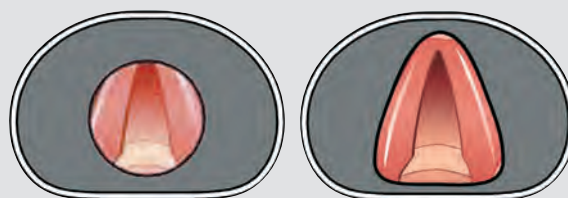


Fig. 1. Focus of distal laryngoscope on the glottis: the oval or round laryngoscope (left), our triangular shaped laryngoscope for the anterior commissure (right).

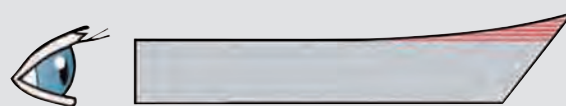
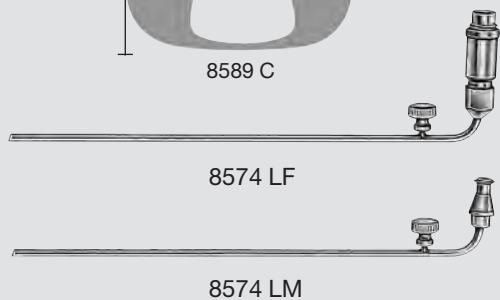
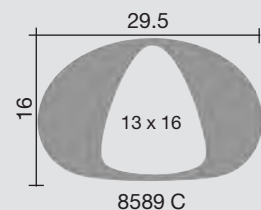
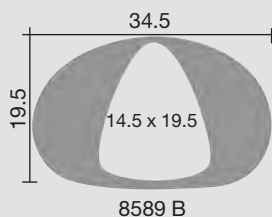


Fig. 2. The upturned distal end of the so-called "anterior commissure tube" impedes the view of the anterior commissure.



8589 B RUDERT **Anterior Commissure Laryngoscope**, large, triangular spatula-shaped, with lateral outer channels for Fiber Optic Light Carrier 8574 LF or Suction Tube to remove vapor 8574 LM, length 17 cm, (version with wide lumen for special cases)

8589 C **Same**, medium, universal size, (most commonly used model)

8574 LF **Fiber Optic Light Carrier**, for distal illumination, length 16 cm, for use with Laryngoscopes 8590 AL/BL/C/CL/DL/JA and 8589 B/C

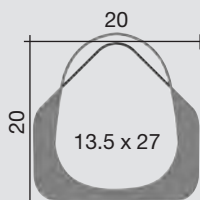
8574 LM **Suction Tube to remove vapor**, for LASER treatment, length 16 cm, for use with Laryngoscopes 8590 AL/BL/CL/DL/JA and 8589 B/C

DEDO Operating Laryngoscope

Special Features:

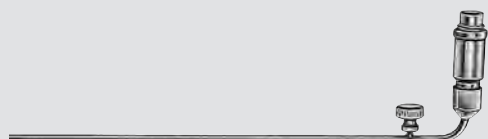
- The DEDO laryngoscope enables a view of the glottis from the anterior commissure right to the arytenoid region.
- Thin tube diameter allows universal use in adults.
- The distal end of the laryngoscope is shaped like a rounded "V" for enhanced visualization.
- Proximal design allows visualization of the anterior commissure.
- Comfortable handle design and low overall weight enables convenient handling.

Dimensions in mm:
proximal and distal



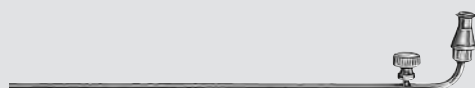
8890 A

8890 A DEDO Operating Laryngoscope,
with extra light handle, length 18 cm



8574 LG

Fiber Optic Light Carrier, for distal illumination, length 14 cm, for use with Laryngoscope 8890 A



8574 LN

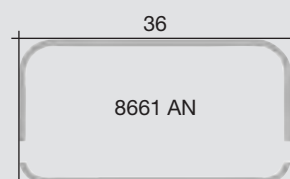
Suction Tube to remove vapor, length 14 cm, for use with Laryngoscope 8890 A

STEINER Distending Operating Laryngoscopes

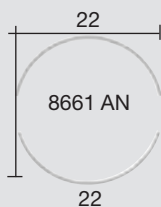
for Transoral LASER Microsurgery



Outer dimensions in mm:
proximal

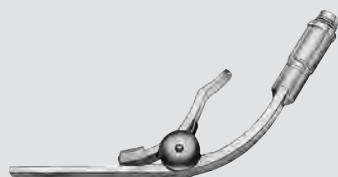


distal



Width of valves: max. 35,
min. 19

Width of valves: max. 50,
min. 19



497 AC

8661 AN

STEINER Distending Operating Laryngoscope, for adults, with black coating, channel removing vapor integrated in handle and blade, length 18 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

8575 K

Laryngoscope Holder and Chest Support, GÖTTINGEN model, with adjustment wheel including:

Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm

497 AC

Clip, for proximal illumination

Components/Spare Parts see chapter 16

STEINER Distending Operating Laryngoscope and Oropharyngoscope

for Transoral LASER Microsurgery



Outer dimensions in mm:
proximal



Width of valves: max. 30,
min. 19

distal



Width of valves: max. 43,
min. 21

8666 AN

STEINER Distending Operating Laryngoscope, for adults, with black coating, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 18 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

8666 DN

STEINER Distending Operating Oropharyngoscope, for adults, with black coating, with right and left side wings to prevent the tongue/soft tissue from obstructing the lumen, channel removing vapor integrated in handle and blade, length 14 cm, for use with Clip, for proximal illumination 497 AC and Laryngoscope Holder 8575 K/KC

STEINER Operating Laryngoscopes

for Transoral LASER Microsurgery
with integrated channel to remove vapor



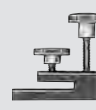
8661 CN

8661 DN

8661 EN



497 AC



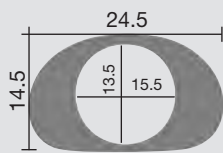
8661 P



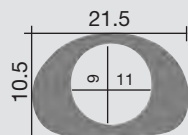
8661 M

8661 N

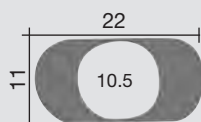
Full size illustration:
inner diameter in mm
proximal and distal



8661 CN



8661 DN



8661 EN

8661 CN

STEINER Operating Laryngoscope, medium-large, for adults, with black coating, with integrated channel to remove vapor, outer diameter proximal 26 x 18 mm, length 18 cm

8661 DN

STEINER Operating Laryngoscope, small, for adults with difficult anatomical circumstances and for children, with black coating, with integrated channel to remove vapor, outer diameter proximal 23 x 15 mm, length 19 cm

8661 EN

STEINER Operating Laryngoscope, extra small size, for difficult anatomical circumstances, with black coating, flat, outer diameter proximal 24 x 13 mm, length 20 cm, for use with Suction Tube 8661 M/N

8661 M

Suction Tube to remove vapor, for LASER treatment, outer diameter 3 mm, working length 16 cm, for use with operating laryngoscopes and Adaptor 8661 P

8661 N

Same, working length 20 cm

8661 P

Adaptor, for Suction Tube 8661 M/N, attachable to the laryngoscope's proximal end, allows continuous adjustment of the suction tube within the laryngoscope

497 AC

Clip, for proximal illumination

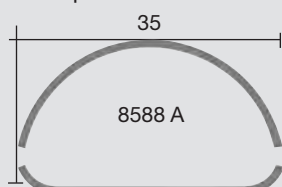
WEERDA Distending Operating Laryngoscopes

Special Features:

- Two adjustment screws enable distending and adaptation to every anatomy. Lateral adjustment screw allows the lumen to be expanded by 38 – 30 mm. Front adjustment screw enables maximal distal distending of the lower spatula blade.
- Small dimensions of laryngoscope when spatula are closed ease introduction
- Wide lateral slots provide largest possible working area for micro surgical instruments
- Use of additional suction tubes to remove vapor during laser surgery ensures that overview is not obstructed.



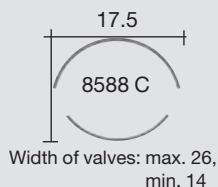
Outer dimensions in mm:
proximal



Width of valves: max. 30,
min. 18

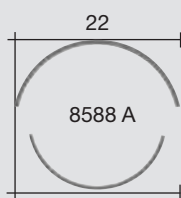


Width of valves: max. 35,
min. 23



Width of valves: max. 26,
min. 14

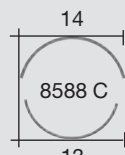
distal



Width of valves: max. 65,
min. 15



Width of valves: max. 57,
min. 10



Width of valves: max. 47,
min. 11.5

- 8588 A **WEERDA Distending Operating Laryngoscope**, large, for adults, length 18 cm
- 8588 B **Same**, for adolescents and adults
- 8588 C **WEERDA Distending Operating Laryngoscope**, for children, length 13.5 cm
- 8588 GF **Fiber Optic Light Carrier**, for use with Laryngoscopes 8588 A/B
- 8588 GP **Same**, for use with Laryngoscopes 8588 C
- 8588 K **Injection Cannula**, for positive pressure assisted ventilation, for use with 8588 A/B/BV
- 8588 M **Suction Tube to remove vapor**, for LASER treatment, for use with Laryngoscopes 8588 A/B/BV
- 8588 MP **Same**, for use with Laryngoscope 8588 C

WEERDA Distending Video Operating Laryngoscope

Transoral partial laryngectomy and pharyngectomy using the WEERDA distending video laryngoscope

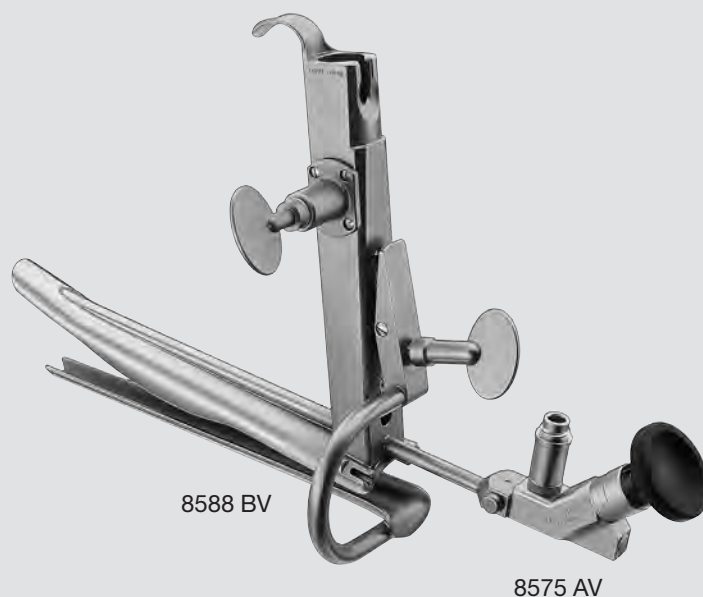
With conventional microlaryngeal surgery, because surgical procedures are performed through a narrow laryngoscope under the guidance of a surgical microscope, the visual field is limited and working space is narrow. In addition, the visual field is often blocked when two hands are used. These disadvantages have limited its indications.

In order to resolve these issues, we use the WEERDA distending video laryngoscope (a conventional WEERDA distending laryngoscope and a HOPKINS® telescope).

Characteristics of the WEERDA distending video laryngoscope

With the present system, because the laryngeal/hypopharyngeal region can be widely opened, a sufficient working space and a wide visual field can be achieved. As a result, surgical procedures that used to require tracheostomy or external cervical incision can now be performed transorally. Supraglottic laryngectomy and partial hypopharyngectomy can also be performed with less invasiveness. In addition to such surgical procedures for laryngeal and hypopharyngeal cancers, the present system is useful for various procedures in the laryngeal, hypopharyngeal and lingual root regions. Hence, surgery in these regions is less invasive.

*A. SHIOTANI, M. D.,
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Department of Otolaryngology-Head and Neck Surgery,
National Defense Medical College,
Saitama, Japan*



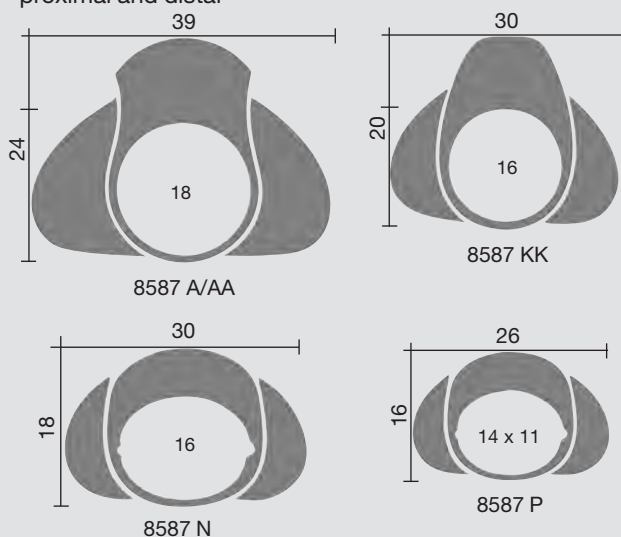
- 8588 BV WEERDA **Distending Video Operating Laryngoscope**, for adolescents and adults, for operation under video control, with channel and holder for Telescope 8575 AV, length 17 cm, for use with Fiber Optic Light Carrier 8590 GF, Suction Tube to remove vapor 8588 M, Injection Cannula 8588 K and Laryngoscope Holder and Chest Support 8575 K
- 8575 AV **HOPKINS® Straight Forward Telescope 15°**, diameter 4 mm, length 17 cm, **autoclavable**, 45° angled eyepiece, fiber optic light transmission incorporated, color code: green

Original LINDHOLM and BENJAMIN-LINDHOLM Operating Laryngoscopes

Special Features:

- Panoramic overview of the laryngopharynx
- View of the epiglottis, arytenoids, posterior commissure, pyriform sinuses and cricoid region

Full size illustration:
inner diameter in mm
proximal and distal



8587 GF



8587 PF



8587 K



8587 M/MK



8587 PM

8587 A

LINDHOLM Operating Laryngoscope, large, for adults, inner proximal end 39 x 24 mm, distal end width 18 mm, length 15 cm

8587 AA

Same, length 17 cm

8587 KK

Same, for children, inner proximal end 30 x 20 mm, distal end width 16 mm, length 11 cm

8587 N

BENJAMIN-LINDHOLM Operating Laryngoscope, for children, inner proximal end 30 x 18 mm, distal end width 20 mm, length 11.5 cm

8587 P

BENJAMIN-LINDHOLM Operating Laryngoscope, for newborn babies and infants, inner diameter proximal end 26 x 16 mm, distal end 14 x 11 mm, length 9.5 cm

8587 GF

Fiber Optic Light Carrier, for distal illumination, length 7.5 cm, for use with Laryngoscopes 8587 A/AA/KK

8587 PF

Same, length 6.5 cm, for use with Laryngoscopes 8587 N/P

8587 K

Injection Cannula, for positive pressure assisted ventilation, length 8.5 cm, for use with Laryngoscopes 8587 A/AA/KK

8587 M

Suction Tube to remove vapor, for LASER treatment, length 8.5 cm, for use with Laryngoscopes 8587 A/AA

8587 MK

Same, length 7 cm, for use with Laryngoscope 8587 KK

8587 PM

Same, length 6.5 cm, for use with Laryngoscope 8587 N/P

Original BENJAMIN and BENJAMIN-PARSONS Slimline Operating Laryngoscopes and Subglottoscopes

Special Features:

- Appropriate for patients whose larynx is difficult to inspect
- For micro surgery and LASER surgery
- Light clip for proximal illumination
- Quickly and easily attachable to the laryngoscope



8574 SL

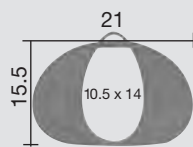


8574 SLS

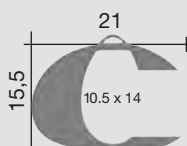


8574 SSL

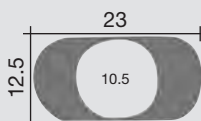
Full size illustration:
inner diameter in mm proximal and distal



8574 SL



8574 SLS

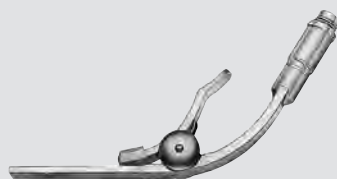


8574 SSL

8574 SL **BENJAMIN Slimline Operating Laryngoscope and Subglottoscope**, for adults, slender, length 17 cm, for use with Clip 497 AC

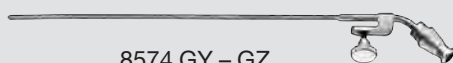
8574 SLS **BENJAMIN-PARSONS Slimline Operating Laryngoscope and Subglottoscope**, for adults, slender, right-hand side slotted for the introduction of bronchoscopes and tracheal tubes, length 17 cm, for use with Clip 497 AC

8574 SSL **BENJAMIN-PARSONS Super-Slimline Operating Laryngoscope and Subglottoscope**, for adults, extra slender, flat model, for particularly difficult anatomical circumstances, length 17 cm, for use with Clip 497 AC



497 AC

497 AC **Clip**, for proximal illumination



8574 GY - GZ

8574 GY **BENJAMIN Injection Cannula**, for positive pressure assisted ventilation, malleable, diameter 2 mm, working length 13.5 cm

8574 GZ **Same**, diameter 3 mm

Original PARSONS Adult Operating Laryngoscopes

Special Features:

- Wide proximal end – suitable for binocular inspection
- Superior surface of size 4 and 5 is rough to prevent tongue from sliding into the lumen.
- Easy use of instruments



8576 AA

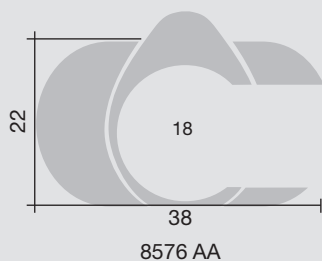


8576 A

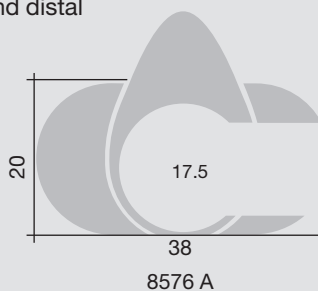


8576 B

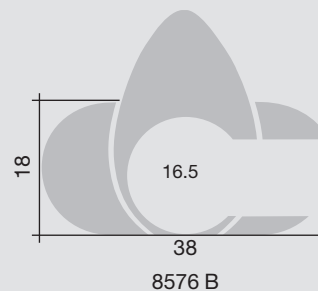
Full size illustration:
inner diameter in mm proximal and distal



8576 AA

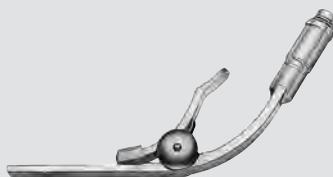


8576 A



8576 B

- 8576 AA **PARSONS Operating Laryngoscope**, size 6, for adults, large, for anterior commissure, wide proximal opening suitable for binocular viewing, right-hand side slotted for introduction of broncho-oesophagoscopes and operating instruments, left-hand side with insufflation channel for oxygen supply, anesthetic gas or for jet ventilation, length 18 cm, for use with Clip 497 AC for proximal illumination
- 8576 A **Same**, size 5, for adolescents and adults, medium-large, length 16.5 cm
- 8576 B **Same**, size 4, for children up to age 12, medium, length 14.5 cm



497 AC

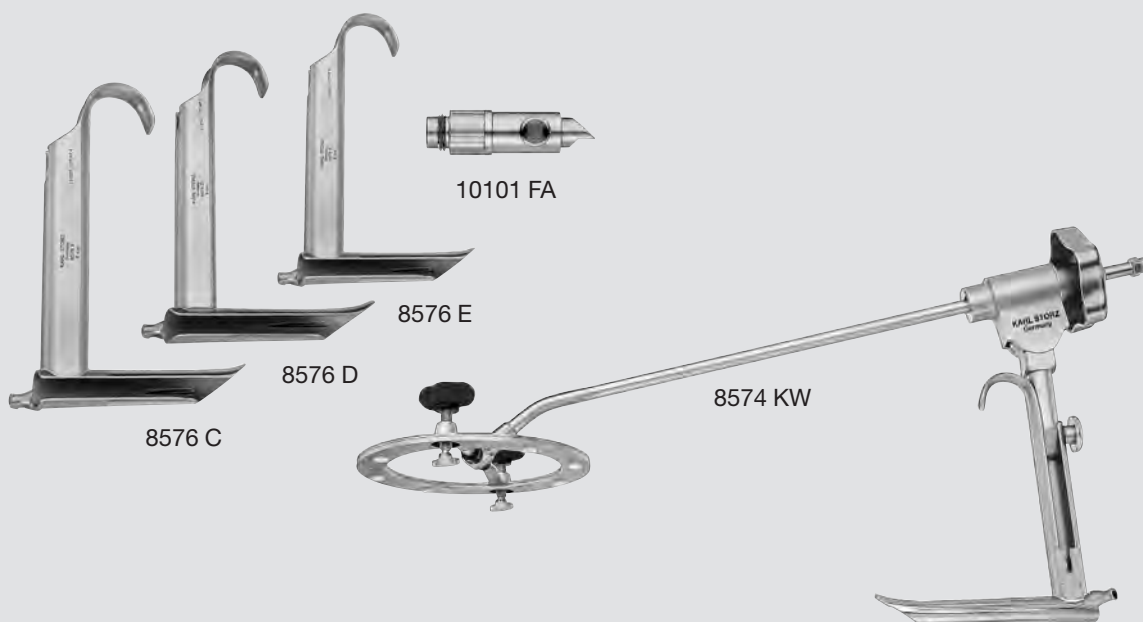
- 497 AC **Clip**, for proximal illumination

Original PARSONS Pediatric Laryngoscopes

with Proximal Illumination

Special Features:

- Enlarged proximal end enables binocular viewing
- Lateral insufflation channel for anesthetic gas and oxygen supply
- Also appropriate for jet ventilation
- Wide lateral slit allows introduction of bronchoscopes and esophagoscopes and enlarges the lumen of the laryngoscope for better binocular inspection
- Flat anterior tip enables better positioning in the anterior commissure or vallecula. Simultaneous use of a telescope provides a panoramic view
- Superior surface is rough to prevent tongue from sliding into the lumen, thereby ensuring a view of supraglottic structures
- Complete set in 3 sizes for premature babies, newborn babies and infants up to 4 years old



8576 C PARSONS Laryngoscope, size 3, for toddlers, flat distal end for anterior commissure, wide proximal opening enable binocular viewing, right-hand side slotted for introduction of broncho-oesophagoscopes and operating instruments, left-hand side with insufflation channel for oxygen supply, anesthetic gas or jet ventilation, for use with Prismatic Light Deflector 10101 FA/JA/JUA and Laryngoscope Holder 8574 KT/KW, length 11 cm

8576 D Same, size 2, for neonates, length 9 cm

8576 E Same, size 1, for premature infants, length 8 cm

10101 FA Prismatic Light Deflector, autoclavable, with connection to fiber optic light cable (not to be used with 8574 K/KB/KT/KW)

8574 KW BENJAMIN-PARSONS Laryngoscope Holder and Chest Support, GÖTTINGEN model, with adjustment wheel including:

BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

Pediatric Laryngoscopes 8574 B – G and 8576 C – E are for use with the Laryngoscope Holders 8574 KT/KW only.

Components/Spare Parts see chapter 16

Original BENJAMIN and BENJAMIN-PARSONS Pediatric Operating Laryngoscope

Special Features:

- Wide proximal end for binocular inspection
- Easy use of instruments due to large access
- Lateral channels for suction tubes to remove vapor during LASER surgery and for light carrier for distal illumination
- Good illumination of the operation area



8574 J

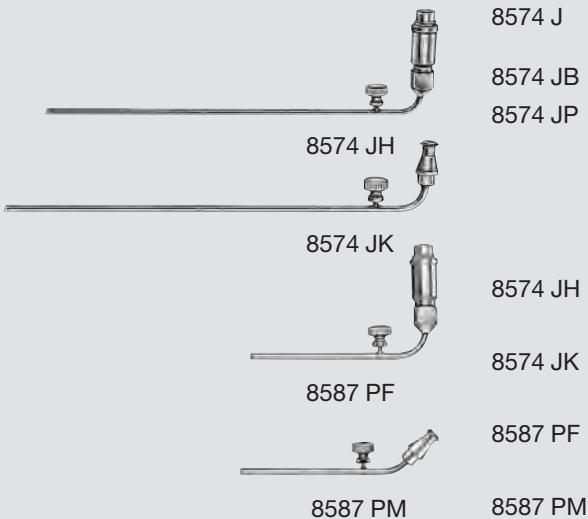
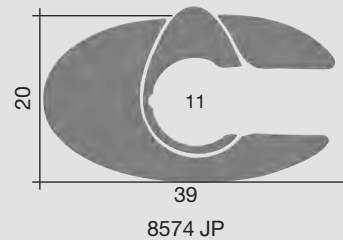
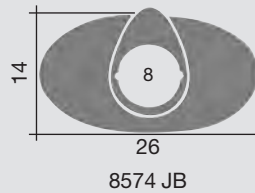
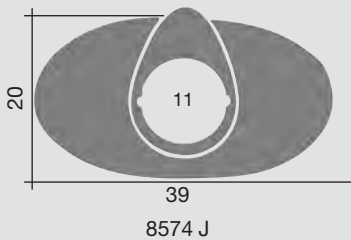


8574 JB



8574 JP

Full size illustration:
inner diameter in mm proximal and distal



8574 J BENJAMIN Operating Laryngoscope, for children, length 15 cm

8574 JB Same, small size, length 11.5 cm

8574 JP BENJAMIN-PARSONS Operating Laryngoscope, for children, lateral slit for the introduction of pediatric bronchoscopes up to size 6 and tracheal tubes, lower surface of spatula is rough to prevent tongue from slipping off, length 15 cm

8574 JH Fiber Optic Light Carrier, for distal illumination, length 12 cm, for use with Laryngoscopes 8574 J/JP

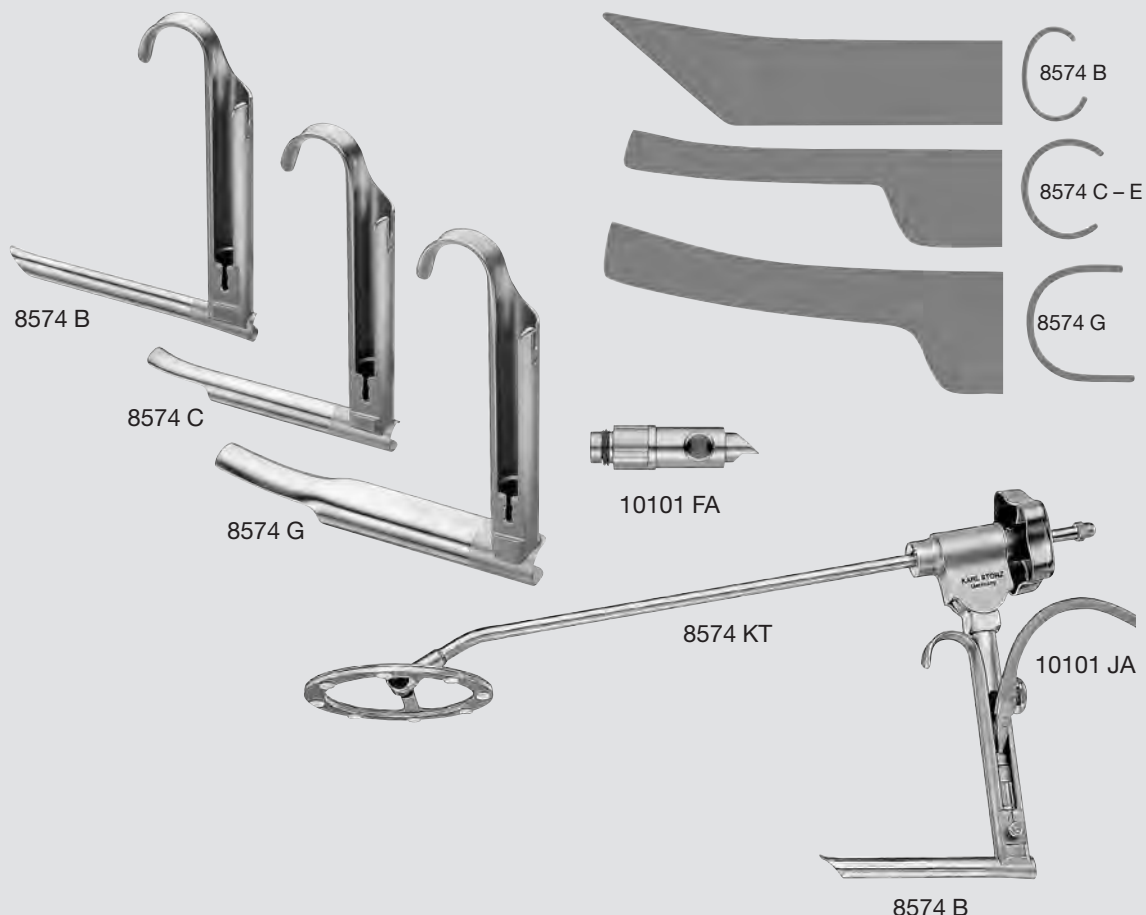
8574 JK Suction Tube to remove vapor, for LASER treatment, length 12 cm, for use with 8574 J/JP

8587 PF Fiber Optic Light Carrier, for distal illumination, length 6.5 cm, for use with Laryngoscope 8574 JB

8587 PM Suction Tube, to remove vapor, for LASER treatment, length 6.5 cm, for use with Laryngoscope 8574 JB

Pediatric Laryngoscopes

with Proximal Illumination



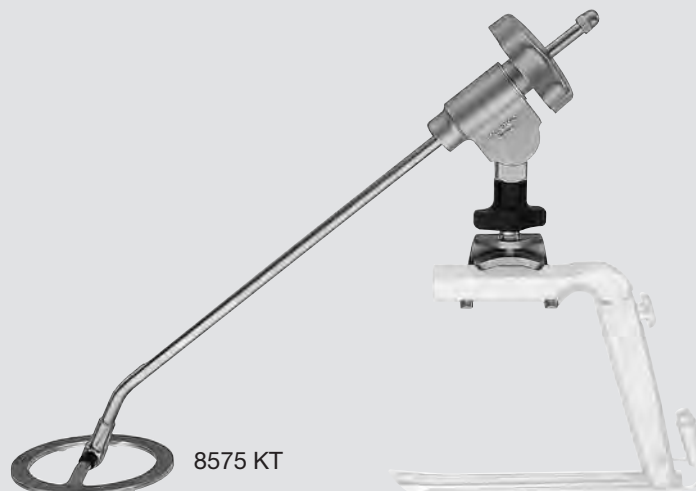
- 8574 B **HOLINGER-TUCKER Anterior Commissure Laryngoscope**, lateral opening, length 11 cm
- 8574 C **Slotted Laryngoscope**, lateral opening, length 11 cm
- 8574 D **Same**, length 9.5 cm
- 8574 E **Same**, length 8 cm
- 8574 G **BENJAMIN Slotted Laryngoscope**, lateral opening, especially appropriate for introducing pediatric bronchoscopes, length 13.5 cm
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10101 JA **Same**, fiber optic light cable integrated (for use with 8574 KT/KW)
- 10101 JUA **Same**, autoclavable, with additional light cable for the simultaneous use of telescopes

- 8574 KT **Laryngoscope Holder and Chest Support, GÖTTINGEN model**, with adjustment wheel including:
Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm
- or:**
- 8574 KW **BENJAMIN-PARSONS Laryngoscope Holder and Chest Support, GÖTTINGEN model**, with adjustment wheel including:
BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

Pediatric Laryngoscopes 8574 B – G and 8576 C – E are for use with the Laryngoscope Holders 8574 KT/KW only.

Components/Spare Parts see chapter 16

HOLINGER Laryngoscope, LEWY Laryngoscope Holder



8575 KT



original size:

8580 B



8580 H

8575 KT
NEW

LEWY Laryngoscope Holder and Chest Support

including:

Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm

8575 KW
NEW

LEWY Laryngoscope Holder and Chest Support

including:

Support Rod, movable, with metal ring, diameter 12 cm, length 34 cm

8580 B

HOLINGER Anterior Commissure Laryngoscope, for adults, length 17 cm, with Fiber Optic Light Carrier 8580 BL and Handle 8580 H

8580 H

Laryngoscope Handle, detachable, for use with LEWY laryngoscope holder and chest support and with operating laryngoscopes

11-031

Please note:

Chest Supports 8575 GL/K/KC are not to be used with Pediatric Laryngoscopes 8576 C – E.

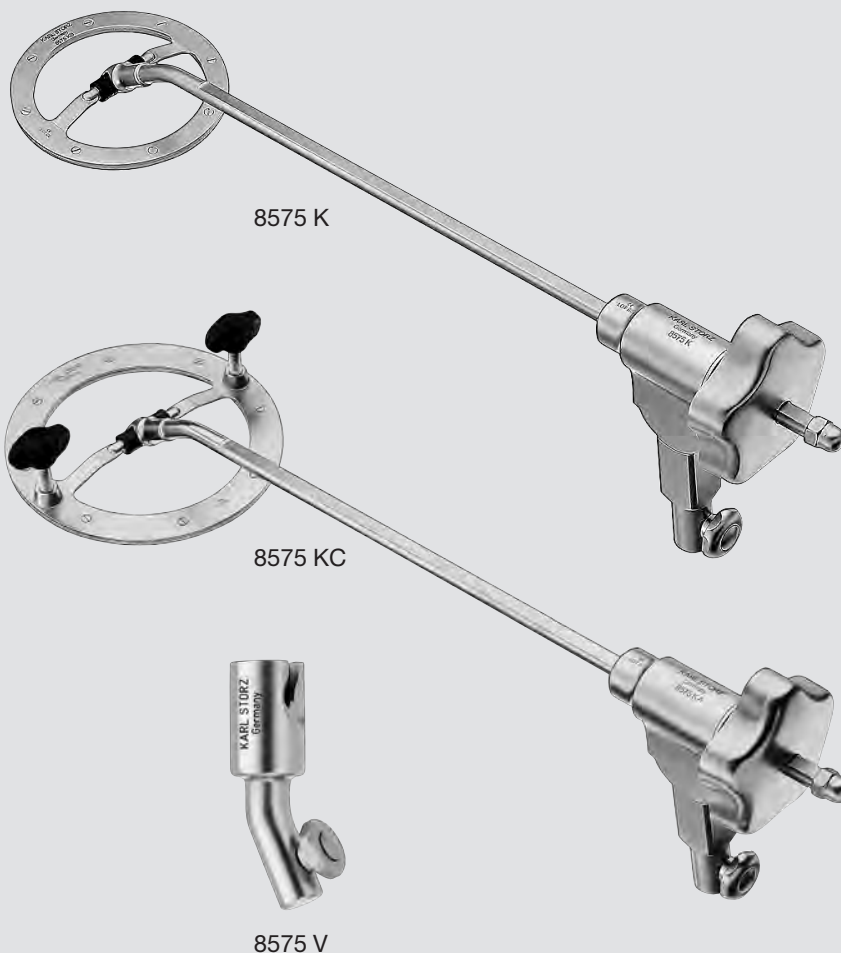
Handle 8580 H is detachable for use of Laryngoscope 8580 B, also with Chest Supports 8575 K/KC.

LEWY Chest Support 8575 GL can be adapted to Handle 8580 H.

Components/Spare Parts see chapter 16

Laryngoscope Holders

for Operating Laryngoscopes



- 8575 K **Laryngoscope Holder and Chest Support, GÖTTINGEN model,** with adjustment wheel
including:
Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm
- 8575 KC BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support,** GÖTTINGEN model, with adjustment wheel
including:
BENJAMIN-PARSONS **Support Rod**, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm
- 8575 V **Extension**, GRONINGEN model, for enlargement of opening angle of support rod for overweight patients, angled, length 8 cm, for use with Laryngoscope Holder 8575 K/KC and Laryngoscopes 8574 J – JP/SL – RB, 8576 AA – B, 8580 – 8590, 8661 – 8666

Components/Spare Parts see chapter 16

Chest Support

for Laryngoscope Holders

Chest Support, GÖTTINGEN model

A special **chest support system** has been designed to meet the requirements of transoral tumor surgery in the pharynx and larynx, together with an adjustable platform that can be secured in any of three dimensional positions, allowing effortless changes in the position of the laryngo-pharyngoscope during tumor surgery.

Extremely lateral angles, as are often necessary for work in the pharynx, are easily achieved and maintained.

*Prof. emer. W. STEINER, M. D.,
Universitäts-Hals-Nasen-Ohrenklinik,
Göttingen, Germany*



8575 L

8575 L

Support Table, GÖTTINGEN model,
for Laryngoscope Holders 8575 K/KC, 8574 KT/KW,
autoclavable

including:

Swivel Arm, with movable plate

Holding Rod, for height adjustment

Attachment Blocks, can be mounted on operation
table equipped with standard sliding rail 25 x 10 mm

Components/Spare Parts see chapter 16

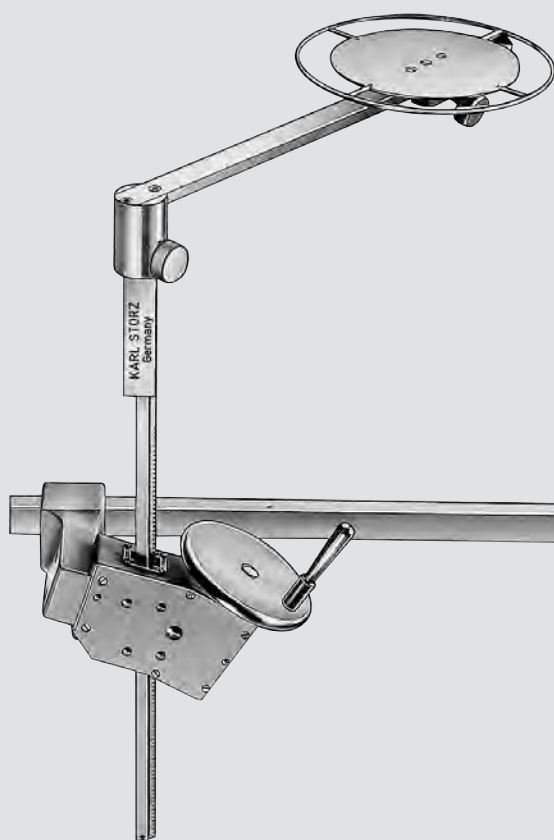
Chest Support

for Laryngoscope Holders

Chest Support, LÜBECK model

Special Features:

- Movable plate for Chest Supports 8575 K/KC, 8574 KT/KW
- Swivel holding arm
- Fine gear system complements height adjustment of chest support
- Ideal for children
- Support plate with lateral ring for attaching Tongue Spatula 743910 – 744405 for adenoidectomy and tonsillectomy



8585 S

8585 S

Chest Support, LÜBECK model, with gear system for height adjustment and swivel arm with movable plate, for use with Laryngoscope Chest Supports 8575 K/KC, 8574 KT/KW, can be mounted on OR table equipped with standard sliding rail 25 x 10 mm

Components/Spare Parts see chapter 16

LaryngoFIT® Instruments

completely detachable



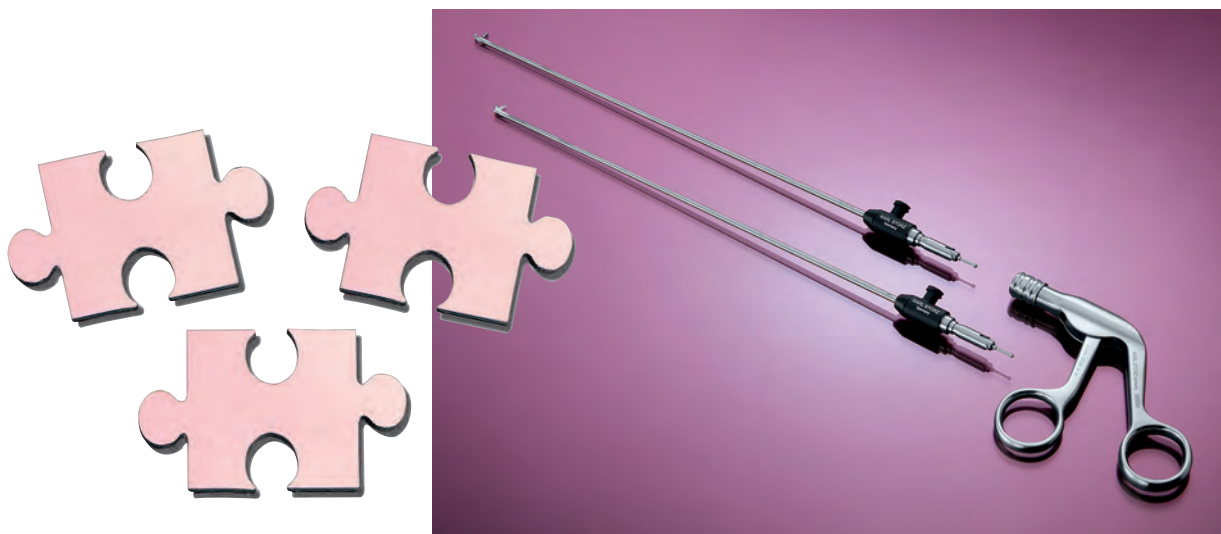
The missing piece of the puzzle The new generation of ENT forceps from KARL STORZ

The reprocessing of instruments is increasingly in the spotlight.

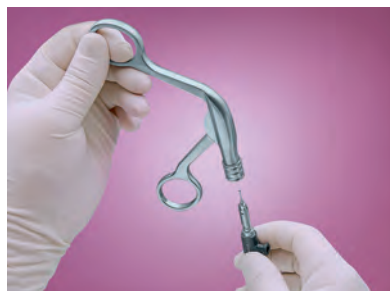
With the **LaryngoFIT®** ENT forceps from KARL STORZ, one hand movement is enough to separate the working insert from the handle. You then have 2 easy-to-clean

instrument parts without dirt traps or inaccessible channels.

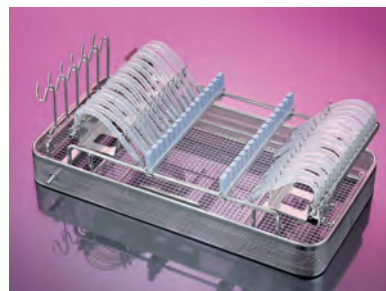
Naturally, the instruments can be reassembled as quickly and easily as they can be dismantled.



Dismantling the instrument in 2 simple steps: Push the slide back...



...and pull the working attachment out of the handle.



Specially developed cleaning racks, in which the separate parts of the **LaryngoFIT®** can be connected directly to the rinsing system, ensure reprocessing.

LaryngoFIT® Instruments

completely detachable



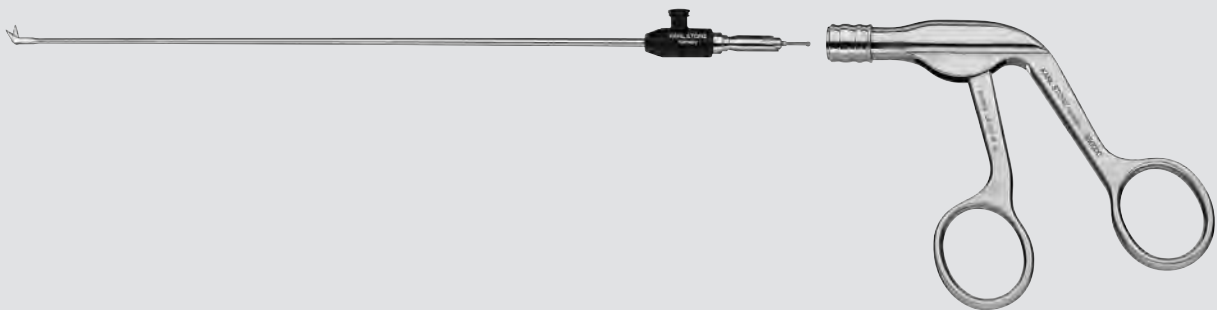
Special Features:

- Completely detachable
- Easy dismantling and reassembly
- Easy and efficient cleaning also by means of the LUER-Lock connection
- Economic advantages due to compatibility with all working attachments
- Well-balanced handle with ergonomic design
- Great variety of working inserts
- Inserts can be locked into three different positions

Two-piece design

LaryngoFIT® Instruments can be completely disassembled into separate components:

- Handle
- Working attachment

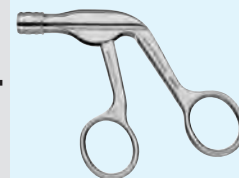




Working Attachment

for use with
Metal Handle

working length 23 cm



LaryngoFIT® KLEINSASSER Cutting Forceps, with cupped jaws, 2 mm

	8591 AZ	straight
	8591 BZ	curved upwards
	8591 CZ	curved right
	8591 DZ	curved left

LaryngoFIT® KLEINSASSER Alligator Forceps, serrated

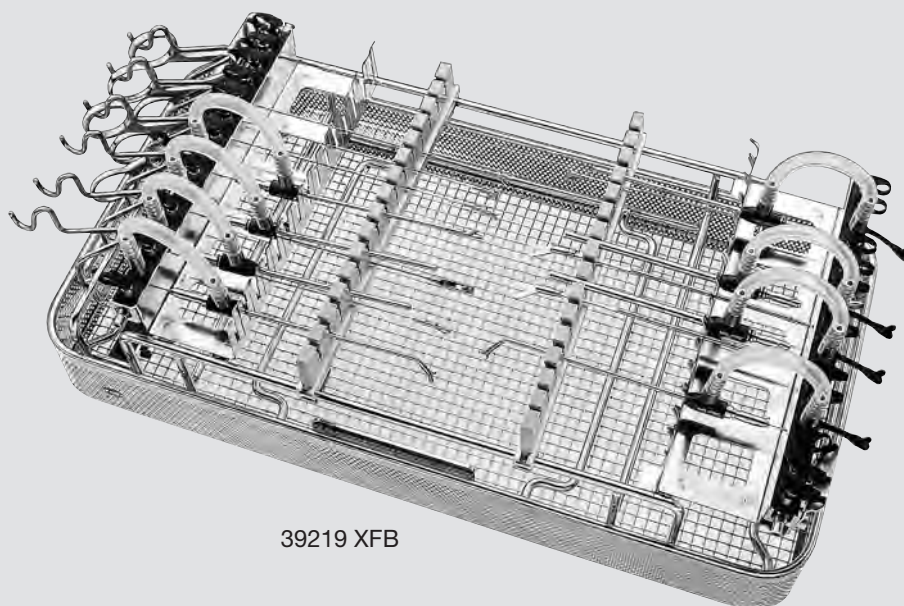
	8593 AZ	straight
	8593 BZ	curved right
	8593 CZ	curved left
	8593 EZ	curved upwards

LaryngoFIT® KLEINSASSER Scissors

	8594 AZ	straight
	8594 BZ	angled 45°
	8594 CZ	curved right
	8594 DZ	curved left

550000

Please note:
Metal Handle 550000 is **not** included. Please order separately.



39219 XFB

- 39219 XF **Instrument Rack**, with one irrigation block (standard version) for cleaning, sterilization and storage of up to 15 **LaryngoFIT®** or 15 **SinuFIT®** instrument attachments and 6 handles, incl. variable bars with silicone holder and direct connection of the instrument attachments via a multi-port bridge to the washer-disinfector and Wire Tray 39502 ZB, external dimensions (w x d x h): 480 x 250 x 160 mm
- 39219 XFB **Same for Cleaning, Sterilization and Storage** of up to 15 **LaryngoFIT®** or 15 **SinuFIT®** instrument attachments and 6 handles

Optional Accessory



39502 V

- 39502 V **Wire Tray for Cleaning, Sterilization and Storage** of instruments, with hole plate walls and foldaway handles, external dimensions (w x d x h): 228 x 248 x 45 mm

Components/Spare Parts see chapter 16

Further accessories for cleaning and sterilization see catalog HYGIENE

Please note: The instruments displayed are not included in the instrument racks.

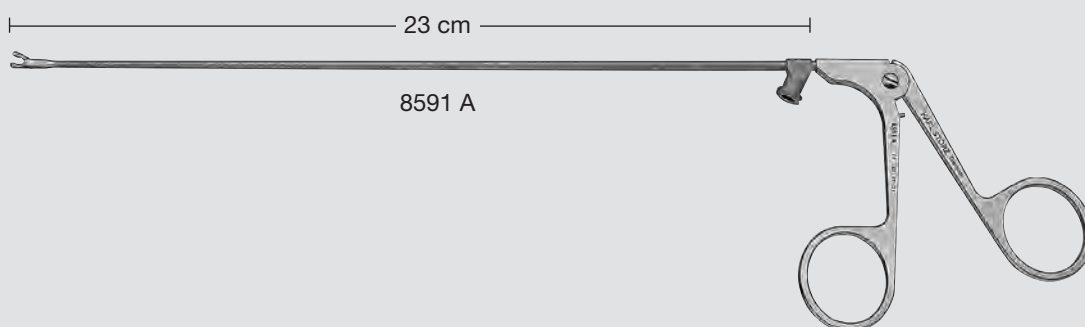
Original KLEINSASSER Instruments







for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability

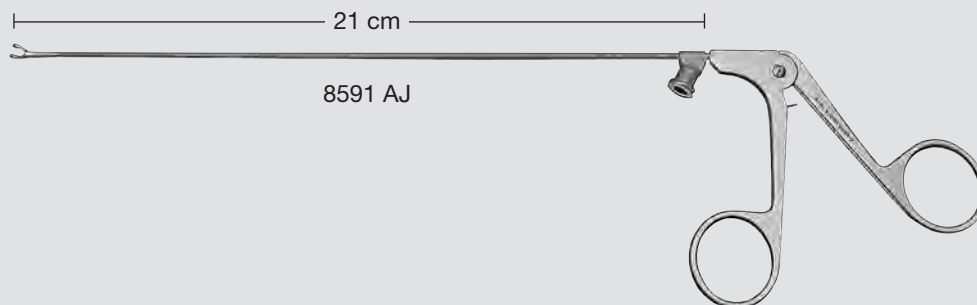





	8591 A	KLEINSASSER Cutting Forceps , straight, with 2 mm cupped jaws, with cleaning connector, working length 23 cm
	8591 B	Same , curved upwards
	8591 C	Same , curved to right
	8591 D	Same , curved to left
	8591 EA	Same , with straight cutting edge for tangential removal of polyps on vocal cords edge, curved upwards to right
	8591 FA	Same , with straight cutting edge for tangential removal of polyps on vocal cords edge, curved upwards to left

Original KLEINSASSER Instruments

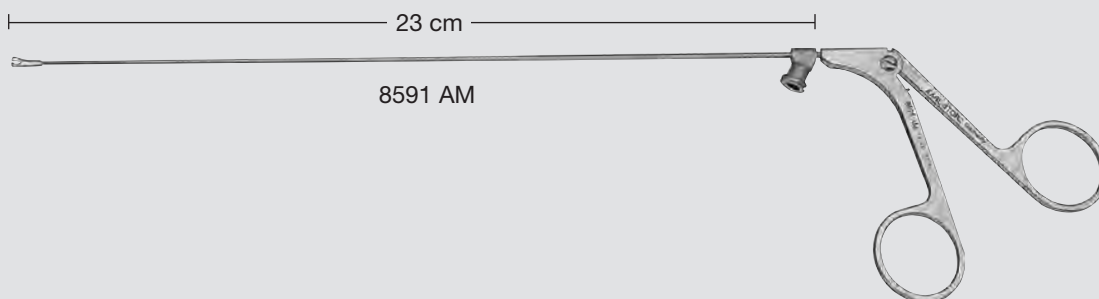
for Endolaryngeal Microsurgery







Working length 21 cm, for adolescents



- | | | |
|---|---------|--|
|  | 8591 AJ | KLEINSASSER Forceps , straight, with 2 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 21 cm |
|  | 8591 CJ | Same , curved to right |
|  | 8591 DJ | Same , curved to left |

Working length 23 cm



- | | | |
|---|---------|--|
|  | 8591 AM | KLEINSASSER Miniature Forceps , straight, with 1 mm cupped jaws, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm |
|  | 8591 BM | Same , curved upwards |
|  | 8591 CM | Same , curved to right |
|  | 8591 DM | Same , curved to left |
|  | 8591 EM | Same , curved upwards to right |
|  | 8591 FM | Same , curved upwards to left |

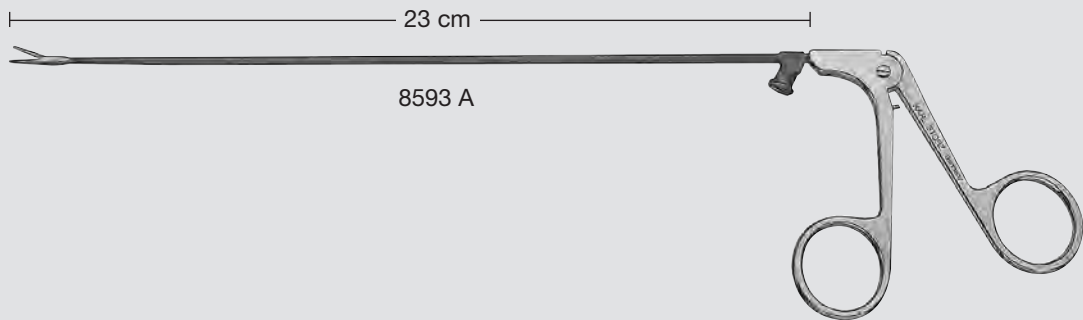
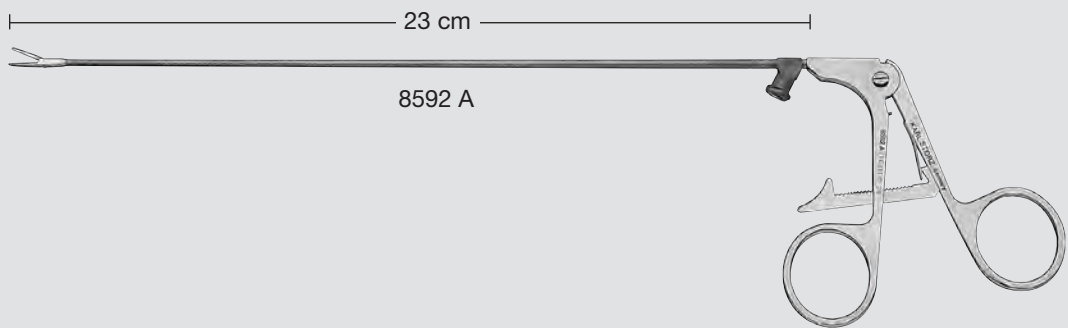
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



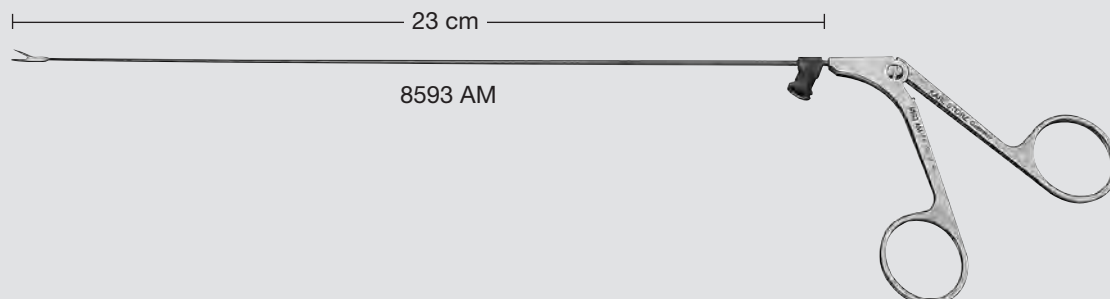
	8592 A	KLEINSASSER Artery Forceps , with ratchet, with cleaning connector, working length 23 cm
	8593 A	KLEINSASSER Grasping Forceps , without ratchet, serrated, straight, with cleaning connector, straight, working length 23 cm
	8593 B	Same , curved to right
	8593 C	Same , curved to left
	8593 E	Same , curved upwards
	8593 G	Same , with triangular jaws, curved upwards to right
	8593 H	Same , curved upwards to left

3-99z

Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



8593 AM

KLEINSASSER Miniature Grasping Forceps, straight, serrated, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 23 cm



8593 BM

Same, curved to right



8593 CM

Same, curved to left

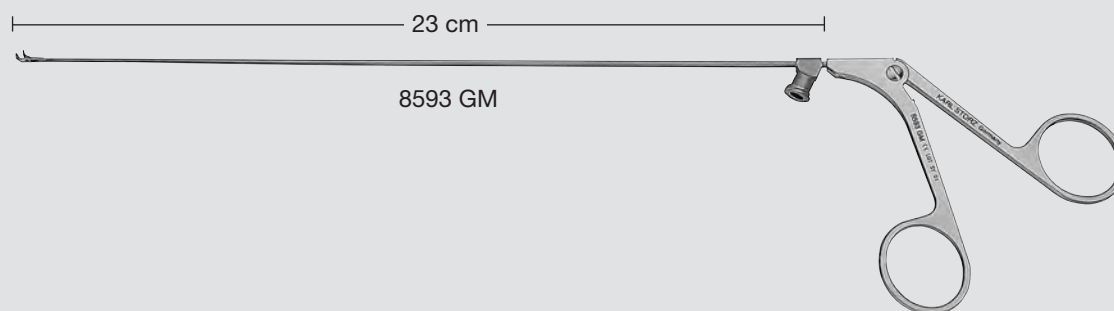


8593 EM

Same, curved upwards

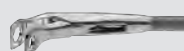
Special Features:

- Extra fine grasping forceps, with triangular fenestrated jaws, curved upwards to right or left



8593 GM

Miniature Grasping Forceps, extra delicate, serrated, with triangular jaws, curved upwards to right, with cleaning connector, working length 23 cm



8593 HM

Same, curved upwards to left

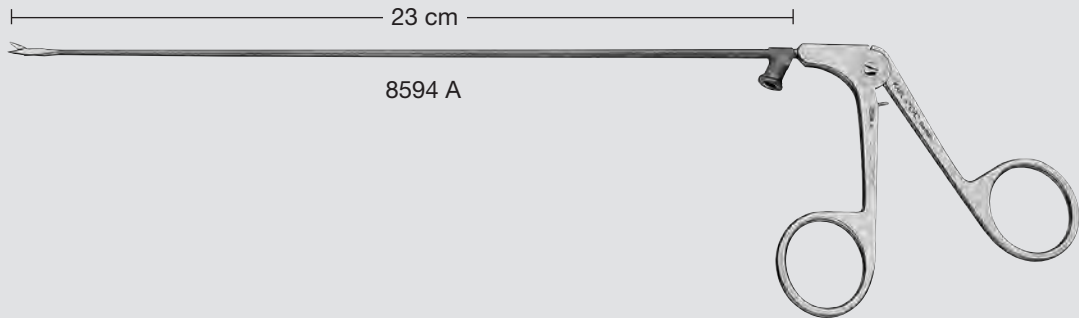
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Special Features:

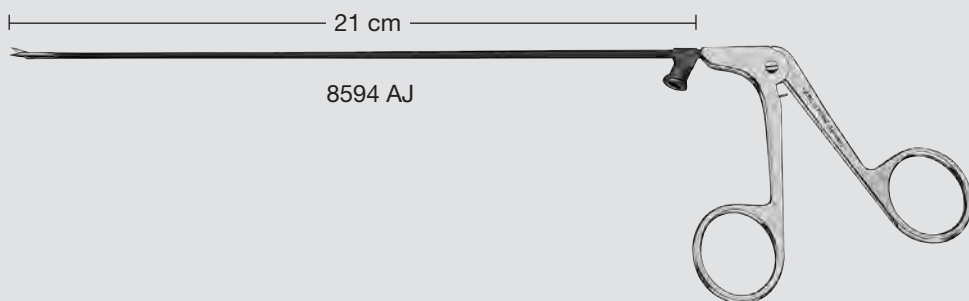
- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability

Working length 23 cm



	8594 A	KLEINSASSER Scissors , straight, with cleaning connector, working length 23 cm
	8594 BB	Same , angled 15°
	8594 B	Same , angled 45°
	8594 C	Same , curved to right
	8594 D	Same , curved to left
	8594 E	Same , straight, cuts horizontally

Working length 21 cm, for adolescents



	8594 AJ	KLEINSASSER Scissors , straight, sheath conically reinforced from distal to proximal end, with cleaning connector, working length 21 cm
	8594 CJ	Same , curved to right
	8594 DJ	Same , curved to left

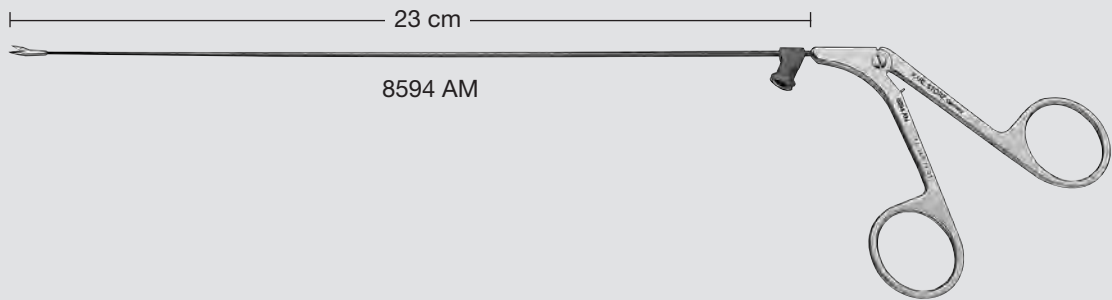
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8594 AM

KLEINSASSER **Miniature Scissors**, straight, with cleaning connector, working length 23 cm



8594 BM

Same, angled 45°



8594 CM

Same, curved to right



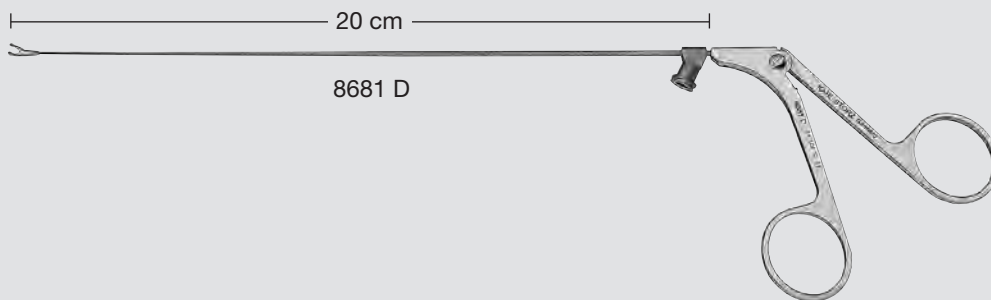
8594 DM

Same, curved to left

Working length 20 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8681 A

Micro Forceps, straight, with 1 mm cupped jaws, with cleaning connector, working length 20 cm



8681 B

Same, curved upwards



8681 C

Same, curved to right



8681 D

Same, curved to left



8683 A

Micro Grasping Forceps, straight, serrated, with cleaning connector, working length 20 cm



8683 B

Micro Grasping Forceps, curved upwards, serrated, with cleaning connector, working length 20 cm



8683 C

Same, curved to right



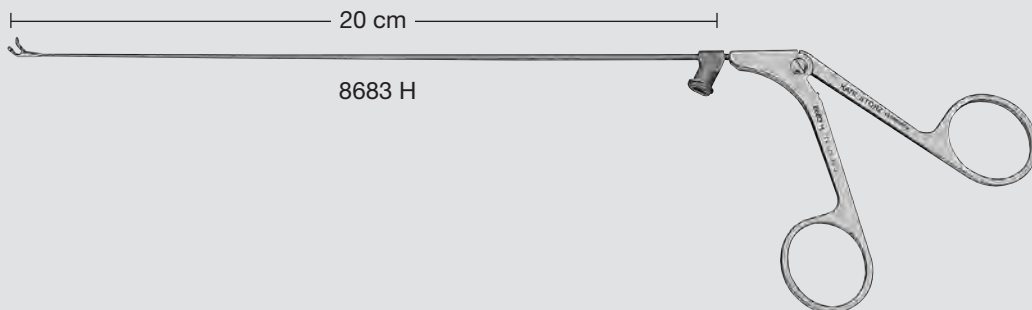
8683 D

Same, curved to left

Working length 20 cm

Special Features:

- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8683 G

SHAPSHAY-PERETTI Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 20 cm



8683 H

Same, curved upwards to left



8684 A

Micro Scissors, straight, with cleaning connector, working length 20 cm



8684 B

Same, curved upwards



8684 C

Same, curved to right



8684 D

Same, curved to left



8686 A

Micro Grasping Forceps, straight, hollow jaws, serrated tips, opens horizontally to right, with cleaning connector, working length 20 cm



8687 A

Micro Alligator Forceps, both jaws open vertically, with suction channel to remove LASER vapors, with cleaning connector, working length 20 cm

KLEINSASSER LASER Additional Instruments

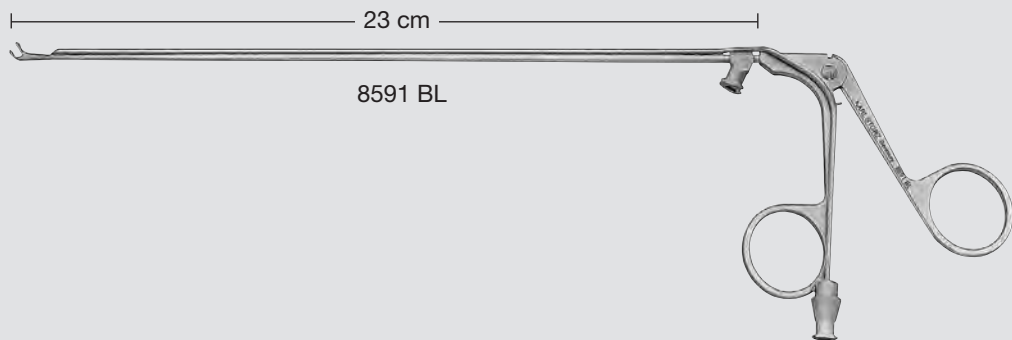
modified by RUDERT

for Laryngoscopy during CO₂ LASER Treatment

Working length 18 and 23 cm

Special Features:

- All instruments are equipped with a channel for evacuation of LASER vapors
- Special matt finish
- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



8591 AL

Spoon Forceps, straight, diameter 2 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 23 cm



8591 BL

Spoon Forceps, curved upwards, diameter 2 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 23 cm



8591 RL

KLEINSASSER Forceps, opens horizontally to right, with 2 mm cupped jaws, with cleaning connector, working length 23 cm



8591 SL

Same, opens horizontally to left



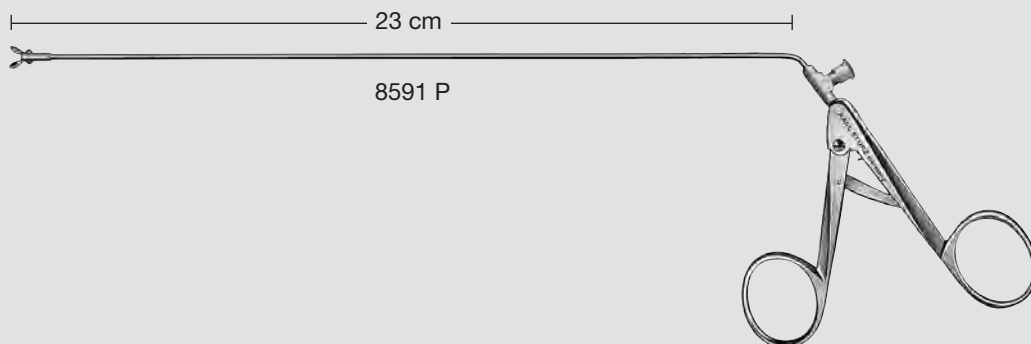
8591 TL

Spoon Forceps, straight, heavy model, diameter 4 mm, with suction channel to remove LASER vapors, with cleaning connector, working length 22 cm

Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



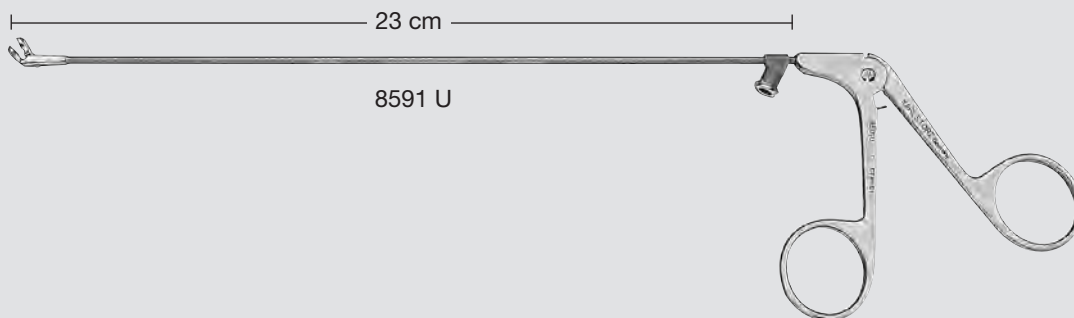
8591 P

Spoon Forceps, with cupped jaws, diameter 5 mm, robust model, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 cm



8591 PL

Forceps, spoon-shaped, oval, width 4 mm, fenestrated, for biopsy, double action jaws, sheath diameter 2.5 mm, with cleaning connector, working length 23 cm



8591 T

Spoon Forceps, with 4 mm cupped jaws, straight, heavy model, single action jaws, with cleaning connector, working length 23 cm



8591 U

Same, curved upwards



8591 V

Same, curved to right



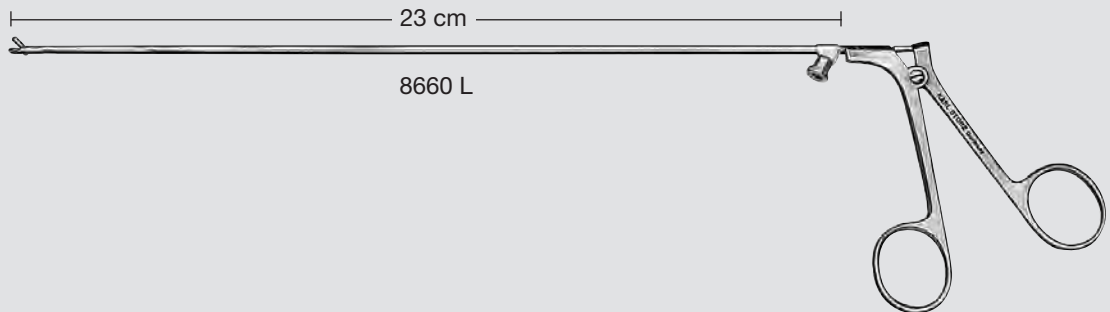
8591 W

Same, curved to left

Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



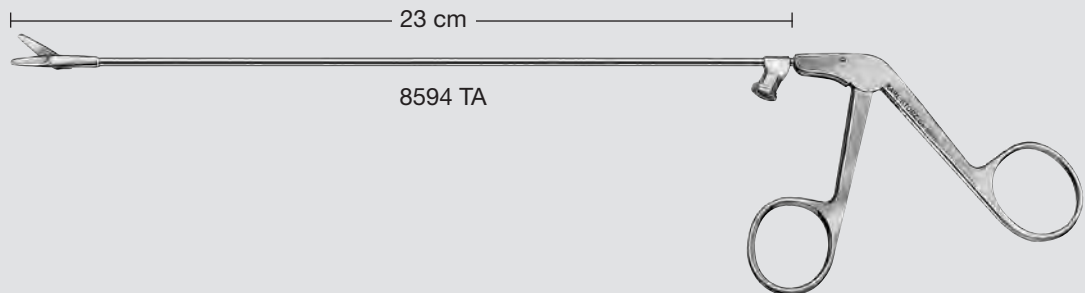
8660 H

KLEINSASSER Alligator Grasping Forceps,
heavy model, single action jaws, with
cleaning connector, working length 23 cm



8660 L

KLEINSASSER Laryngeal Biopsy Forceps,
heavy model with oval jaws, size 3 x 4 mm,
single action jaws, with cleaning connector,
working length 23 cm



8594 TA

LARYNGOFORCE® II Scissors for Large Tumors,
straight, robust model, cutting blade 10 mm,
sheath diameter 3 mm, with cleaning connector,
working length 23 cm

Original STEINER Instruments

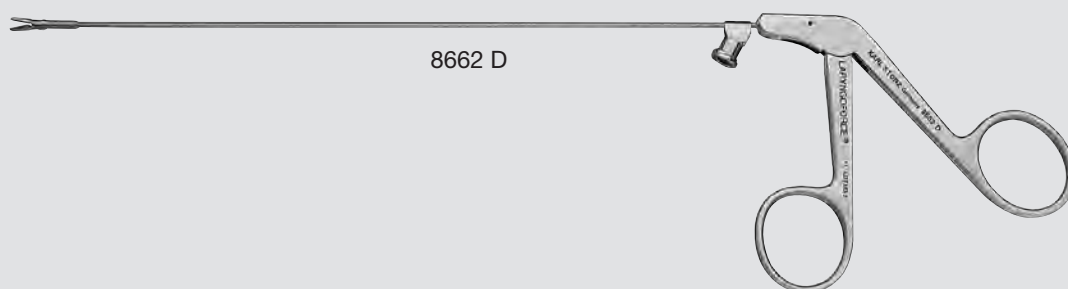
for Transoral LASER Microsurgery

Grasping forceps for grasping tissue are available in five sizes, four of which feature an integrated smoke evacuation tube.

All instruments are manufactured with a special, matt finish that is particularly advantageous during photo or

video documentation, due to the elimination of interfering reflections.

Prof. W. STEINER, M. D.,
Universitäts-Hals-Nasen-Ohrenklinik, Göttingen, Germany



8662 D



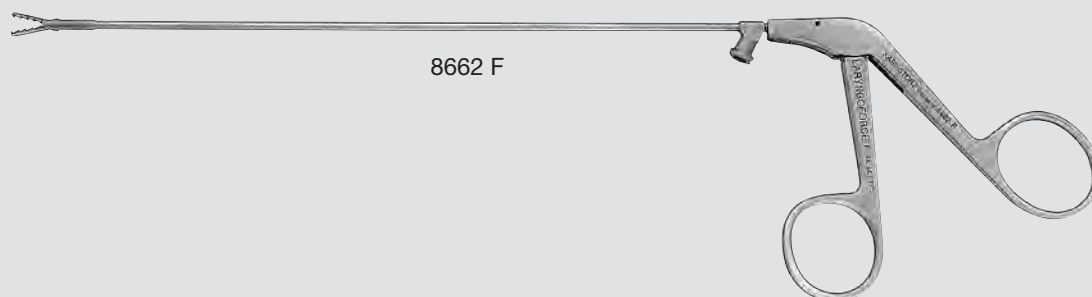
8662 D

LARYNGOFORCE® II Grasping Forceps, delicate, serrated, special matt finish, with cleaning connector, working length 22 cm



8662 E

LARYNGOFORCE® II Grasping Forceps, with oval alligator jaws, small, special matt finish, with cleaning connector, working length 22 cm



8662 F



8662 F

LARYNGOFORCE® II Grasping Forceps, with oval alligator jaws, medium, special matt finish, with cleaning connector, working length 22 cm



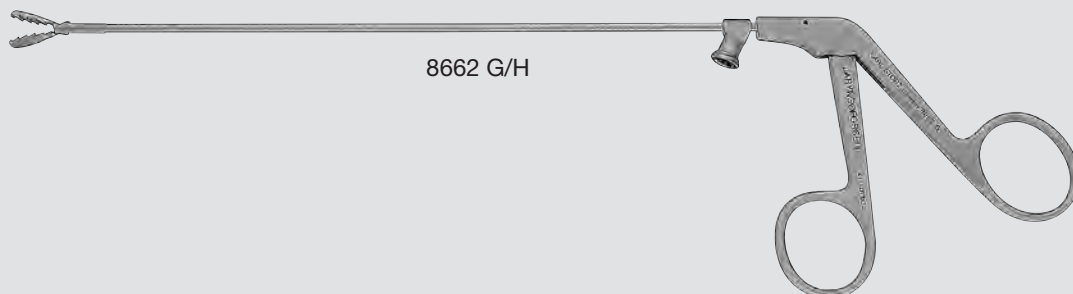
8662 FL

Same, medium, with suction channel to remove LASER vapors

Original STEINER Instruments

for Transoral LASER Microsurgery

Working length 22 cm



8662 G/H



8662 G

LARYNGOFORCE® II Grasping Forceps, with oval, fenestrated alligator jaws, large, special matt finish, with cleaning connector, working length 22 cm



8662 GL

Same, with suction channel to remove LASER vapors



8662 H

LARYNGOFORCE® II Grasping Forceps, with triangular, fenestrated alligator jaws, extra large, special matt finish, with cleaning connector, working length 22 cm



8662 HL

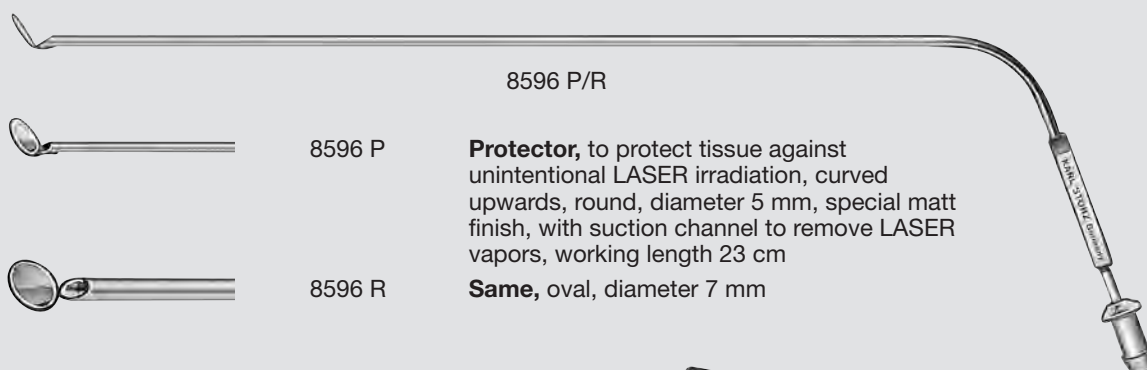
Same, with suction channel to remove LASER vapors

Original STEINER Instruments

for Transoral LASER Microsurgery

Special Features:

- Protectors to shield distal mucosa from unintentional LASER irradiation are available in diameters 5 mm and 7 mm, each with an integrated suction tube.
- Unipolar cannula for suction and coagulation, also suitable for dissecting and retracting tissue, insulated, with cleaning stylet and available in diameter 2, 2.5 and 3.5 mm.
- Suction tube with retractor, for retracting tissue during LASER incisions

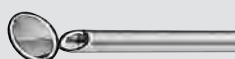


8596 P/R



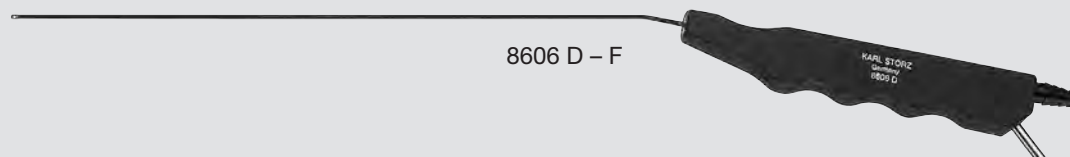
8596 P

Protector, to protect tissue against unintentional LASER irradiation, curved upwards, round, diameter 5 mm, special matt finish, with suction channel to remove LASER vapors, working length 23 cm

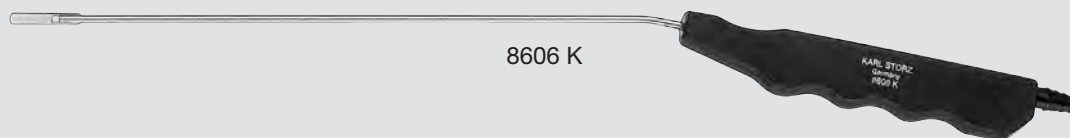


8596 R

Same, oval, diameter 7 mm



8606 D – F



8606 K



8606 D

Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 2 mm, working length 23 cm



8606 E

Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 2.5 mm, working length 23 cm



8606 F

Coagulation Suction Tube, with ergonomic handle, insulated, with connection for unipolar coagulation, with Cleaning Stylet 8606 FM, outer diameter 3.5 mm, working length 23 cm



8606 K

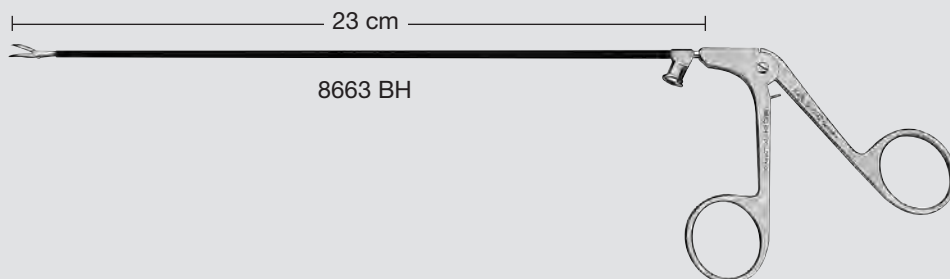
Suction Tube, with ergonomic handle, with distal elevator 18 x 5 mm, for dissecting and retracting tissue, special matt finish, with Cleaning Stylet 8606 FM, outer diameter 3 mm, working length 23 cm

Please note:

Simultaneous use of insulated instruments and LASER is prohibited.

Original STEINER Instruments

for Transoral LASER Microsurgery



8663 BH



8663 AH

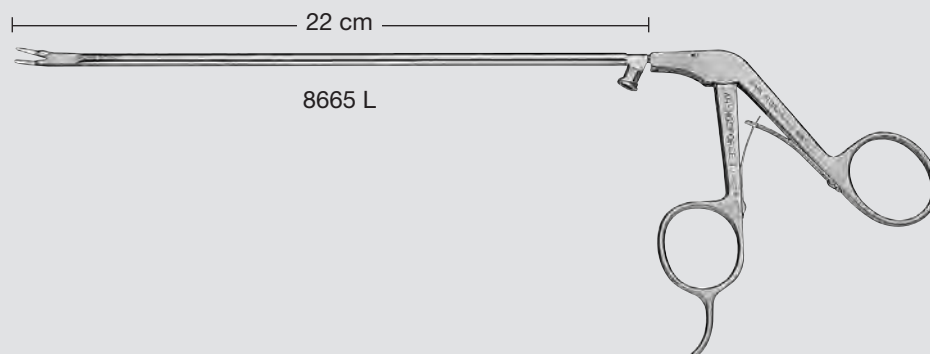
Grasping Forceps, straight, serrated, sheath insulated, with cleaning connector, working length 23 cm

8663 BH

Same, curved to right

8663 CH

Same, curved to left



8665 L



8665 L

LARYNGOFORCE® II Clip Forceps, jaws curved to left, with cleaning connector, working length 22 cm, for use with Clips 8665 T



8665 R

Same, jaws curved to right



8665 T

Clip, titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each, for use with Forceps 8665 L/R, 12067 NL/NR

Please note:

Simultaneous use of insulated instruments and LASER is prohibited.

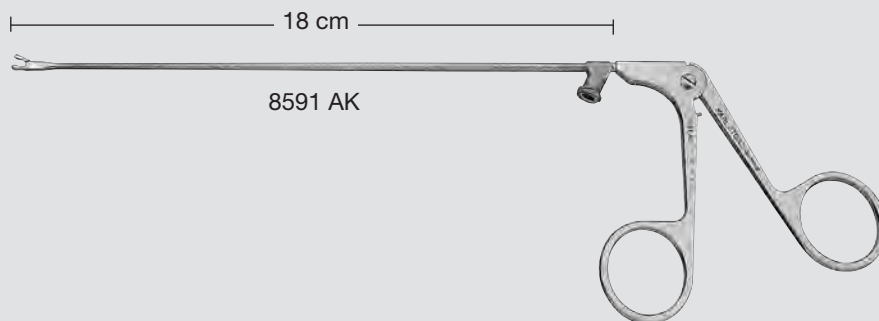
Pediatric Instruments





for Endolaryngeal Microsurgery

Working length 18 cm

Special Features:

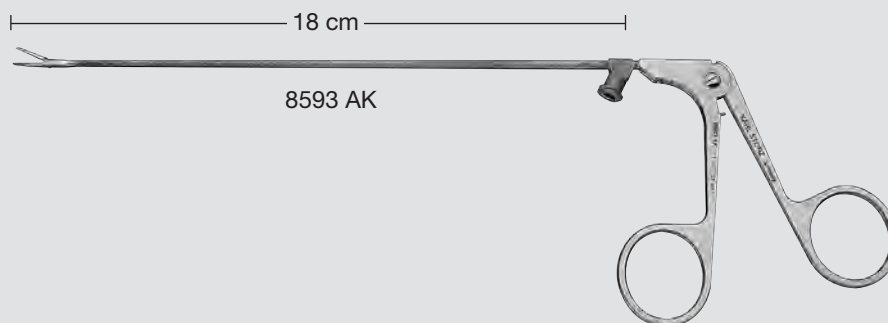
- Distal end thinner than proximal end to provide better viewing
- Sheath conically reinforced from distal to proximal end to increase mechanical stability



	8591 AK	KLEINSASSER Forceps , straight, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
	8591 BK	KLEINSASSER Forceps , upturned, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
	8591 CK	KLEINSASSER Forceps , curved to right, with cupped jaws, 2 mm, with cleaning connector, working length 18 cm
	8591 DK	Same , curved to left

Pediatric Instruments

for Endolaryngeal Microsurgery



8593 AK

KLEINSASSER Grasping Forceps, straight, serrated, with cleaning connector, working length 18 cm



8593 GK

Micro Grasping Forceps, curved upwards to right, serrated, with triangular fenestrated jaws, with cleaning connector, working length 18 cm



8593 HK

Same, curved upwards to left



8594 AK

KLEINSASSER Scissors, straight, with cleaning connector, working length 18 cm



8594 CK

Same, curved to right

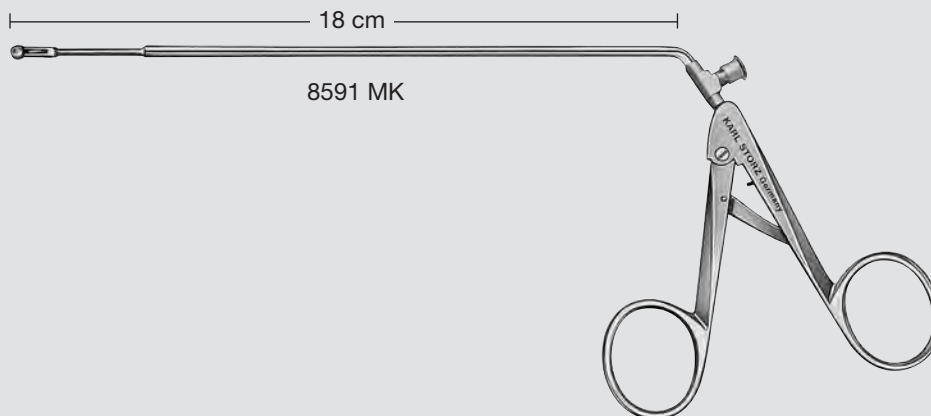


8594 DK

Same, curved to left

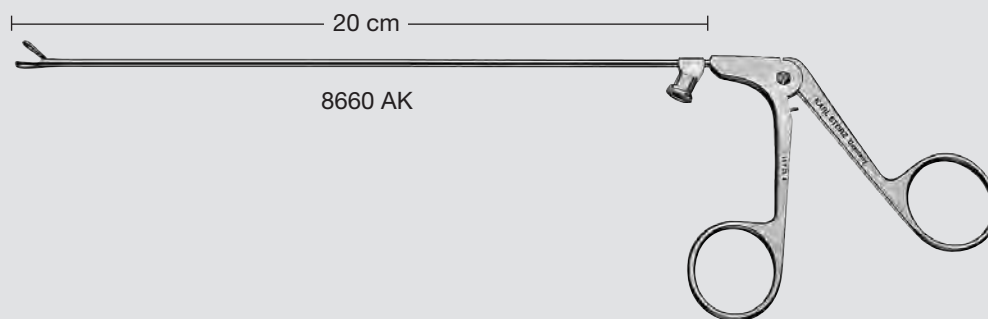
Pediatric Instruments

for Endolaryngeal Microsurgery



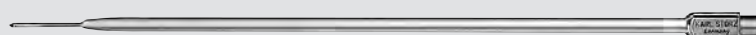
8591 MK

Spoon Forceps, jaws open horizontally, distal end malleable, diameter 4 mm, with cleaning connector, working length 18 cm



8660 AK

Grasping Forceps, for arytenoid cartilage, serrated, width of jaws 5 mm, with cleaning connector, working length 20 cm

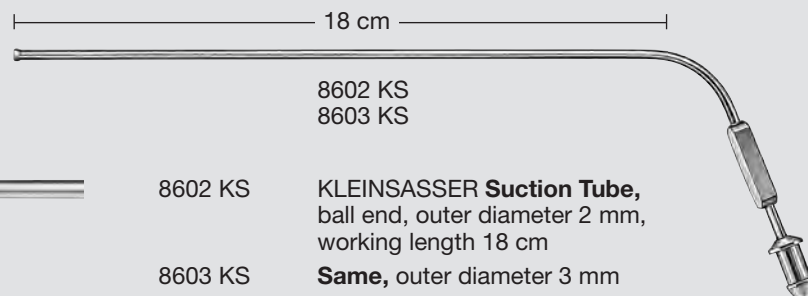


27200 SK



27200 SK

Injection Cannula, short tip, for single use, LUER-Lock, tip outer diameter 1 mm, inner diameter 0.7 mm, working length 18 cm, package of 3



8602 KS

8602 KS
8603 KS

KLEINSASSER Suction Tube, ball end, outer diameter 2 mm, working length 18 cm

8603 KS

Same, outer diameter 3 mm

WENDLER Needle Holder

for Endolaryngeal Microsurgery

When performing surgical interventions in direct laryngoscopy, any necessary endolaryngeal suture is usually complex because the confined space leaves little room for needle guidance. Particularly in the craniocaudal direction, as is the case with suture at the margins of the vocal cords, it can be difficult to place the needle correctly with a straight needle holder because it only allows parallel gripping by the grasping jaws in the direction of the sheath. It twists slightly and does not remain under adequate control.

The needle holder bent upward grips the needle in an optimal position and permits punctures in the direction of the sheath without any problems. It is recommended that the tissue to be sewn be tensioned with grasping forceps. For punctures to return the thread outward (caudocranial) both straight and angled needle holders

can be used, depending on specific conditions. A knot pusher for immobilizing the knot is indispensable in all cases.

The new needle holder was initially developed for glottal surgery to shorten the glottis, serving to raise the pitch of the voice in transsexual patients. But also in the case of arytenoidectomy, synechia resections, and traumatic lesions of varying genesis (also during endolaryngeal operations) there is frequently a need for suture in the direction of puncture described.

In all the cases the angled needle holder facilitates puncture guidance to optimally adapt the margins of the mucous membrane in the required plane.

*J. WENDLER,
Universitätsklinikum Charité,
Abteilung für Phoniatrie, Berlin, Germany*



8660 W



8660 W

WENDLER Needle Holder, delicate, curved upwards, for glottal surgery, arytenoidectomy and other endolaryngeal interventions, sheath conically reinforced from distal to proximal end, with ratchet, with serrated round jaws, diameter 1.6 mm, with cleaning connector, working length 23 cm

FEHLAND Needle Holder

for Endolaryngeal Microsurgery

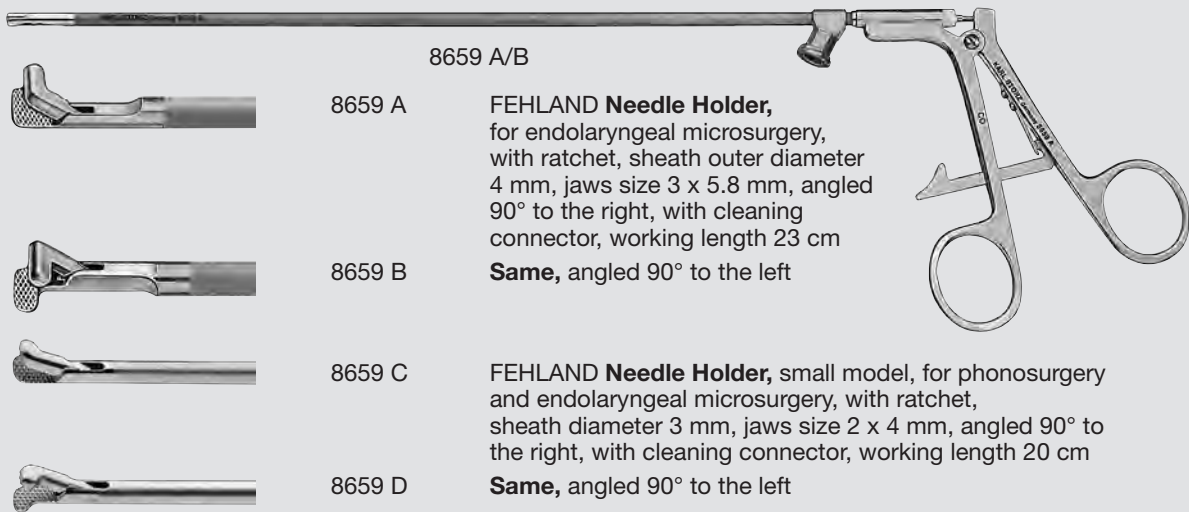
For interventions which require guidance of the needle parallel to the sheath during endolaryngeal microsurgery, locking and guidance of the needle without twisting and tilting is very difficult or impossible with conventional needle holders. Frequent repositioning of the needle with conventional needle holders is time-consuming, technically demanding and can unnecessarily traumatize tissue. For this reason, a needle holder was developed by Dr. FEHLAND in cooperation with KARL STORZ for the following applications:

- All suturing procedures, particularly when the needle needs to be guided parallel to the needle holder sheath.
- For the creation of endolaryngeal swing flaps, arytenoidectomies, etc.
- For surgical elevation of the middle vocal register with displacement of the frontal vocal cord commissure (glottal graft).
- For vascular purse-string ligature in narrow lumen and hard-to-reach tissue areas.

*P. FEHLAND, M. D.,
Universitätsklinikum Benjamin Franklin,
Abteilung für Phoniatrie, Berlin, Germany*

Special Features:

- Available in 2 designs with 90° lateral jaw angle to right or left, providing a uniquely wide useable angle of over 180°
- Cross-corrugated jaw surfaces and a locking handle with a ratchet mechanism ensure stable grasping and needle handling without twisting or turning
- Suitable for both straight and curved needles of varying lengths and curvatures, regardless of grasping angle
- Slim and yet stable sheath, special black coating
- View of the operation field with the needle guide parallel to the sheath, e.g. subglottal-glottal and vice versa
- Small size with delicate jaws recommended for phonosurgery, working length 20 cm



The first stitch is completed; preparation of the second stitch



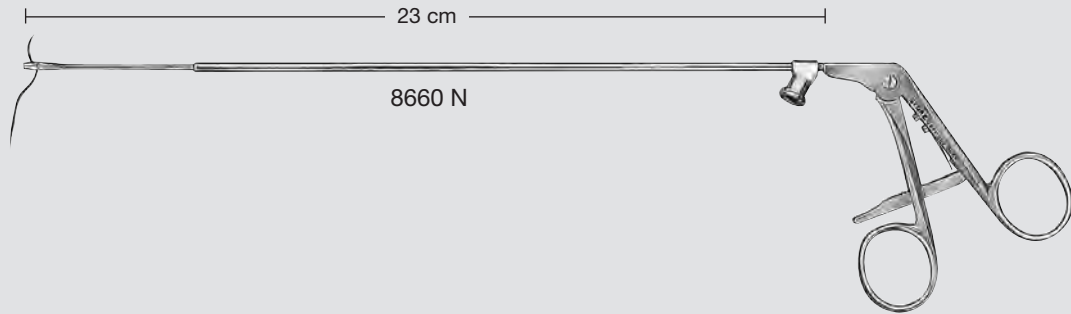
The second stitch is also completed



Preparation of the third stitch

KLEINSASSER Needle Holder

for Endolaryngeal Microsurgery



8660 N

KLEINSASSER Needle Holder, delicate, straight, serrated jaws, size 1.8 x 3.5 mm, sheath conically reinforced from distal to proximal end, with ratchet, with cleaning connector, working length 23 cm

Distending Forceps, LASER Application Instrument

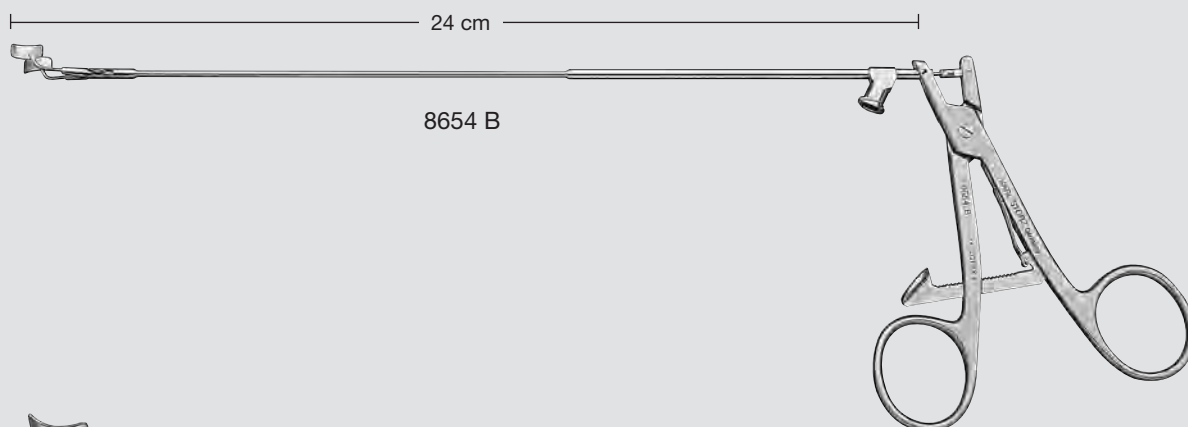
for Endolaryngeal Microsurgery

LINDHOLM Distending Forceps

In many instances, retraction of the false vocal cords, the true vocal cords or other soft tissue is temporarily needed during an endoscopic procedure. For LASER surgery of limited vocal cord carcinoma it is, for instance, very convenient to be able to visualize more of the upper surface of the vocal cords by retraction of the false vocal cords. Similar retraction of the true vocal cords gives better access to subglottic pathology.

For endoscopic surgery the key problem is often the difficulty of obtaining access to the target. These retractors are a valuable addition to the wide range of new endoscopic instruments which enables further versatility of endoscopic procedures.

*C.-E. LINDHOLM, M. D.,
Uppsala, Sweden*



8654 B



8654 B

LINDHOLM Forceps, for retraction of true vocal cords and false vocal cords, distal end with blunt curved blades, self-retaining, with ratchet and cleaning connector, working length 24 cm

Special Features

- Universal handle is fully adjustable, providing various working lengths
- Instruments can be rotated 360° in the universal handle



8656 A



8656 A

Sickle Knife, curved, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 B

Same, straight cutting



8656 C

Round Knife, vertical cutting, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 D

Lancet Knife, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 E

Needle, straight, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 F

Hook 90°, 1 mm, sharp, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 G

Same, 2 mm



8656 J

Dissector, straight, ball end, delicate, 3 to 0.6 mm tapered shaft, diameter 1.3 mm, total length 23 cm

WOO/SHAPSHAY/OSSOFF Microsurgical Instruments for Phonosurgery



8656 L **Elevator**, slightly curved, blunt, delicate, 3 to 1 mm tapered shaft, total length 23 cm



8656 LS **Same**, sharp tip



8656 N **Same**, angled 15°



8656 R **Curette**, oval spoon, straight, delicate, 3 to 1 mm tapered shaft, total length 23 cm

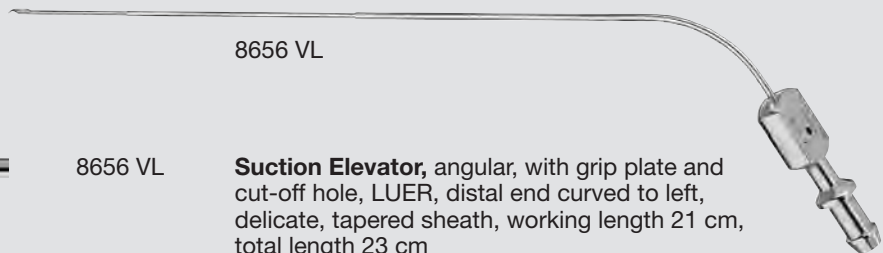


8656 S **Same**, angled 35°



8657 H

8657 H **Universal Handle**, forceps shape, with 2 handle rings, length 9 cm, for use with 3 mm instruments for phonosurgery and endolaryngeal microsurgery 8595 A – 8596 T, 8655 A – K and 8656 A – S



8656 VL



8656 VL **Suction Elevator**, angular, with grip plate and cut-off hole, LUER, distal end curved to left, delicate, tapered sheath, working length 21 cm, total length 23 cm







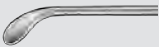


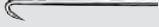
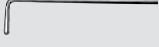




8656 VR **Same**, distal end curved to right

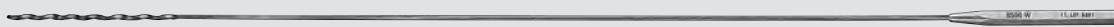
Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

KLEINSASSER Instruments, working length 23 cm, for use with Handle 8597



	8595 A	
	8595 A	Knife , oval, straight
	8595 B	Same , angled 45°
	8595 C	Same , sickle-shaped, curved, pointed
	8595 D	Same , straight cut, pointed
	8595 E	Same , golf club-shaped, curved, round
	8595 F	Same , round, cuts vertically
	8596 A	Hook , blunt, with probe end
	8596 B	Hook , sharp
	8596 C	Hook , blunt, angled 90°, with probe end, length 5 mm
	8596 E	Needle , curved to right, working length 23 cm
	8596 F	Same , curved to left
	8596 H	Suction Elevator , working length 23 cm
	8596 T	Knot Tier
	8597	KLEINSASSER Handle , for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B

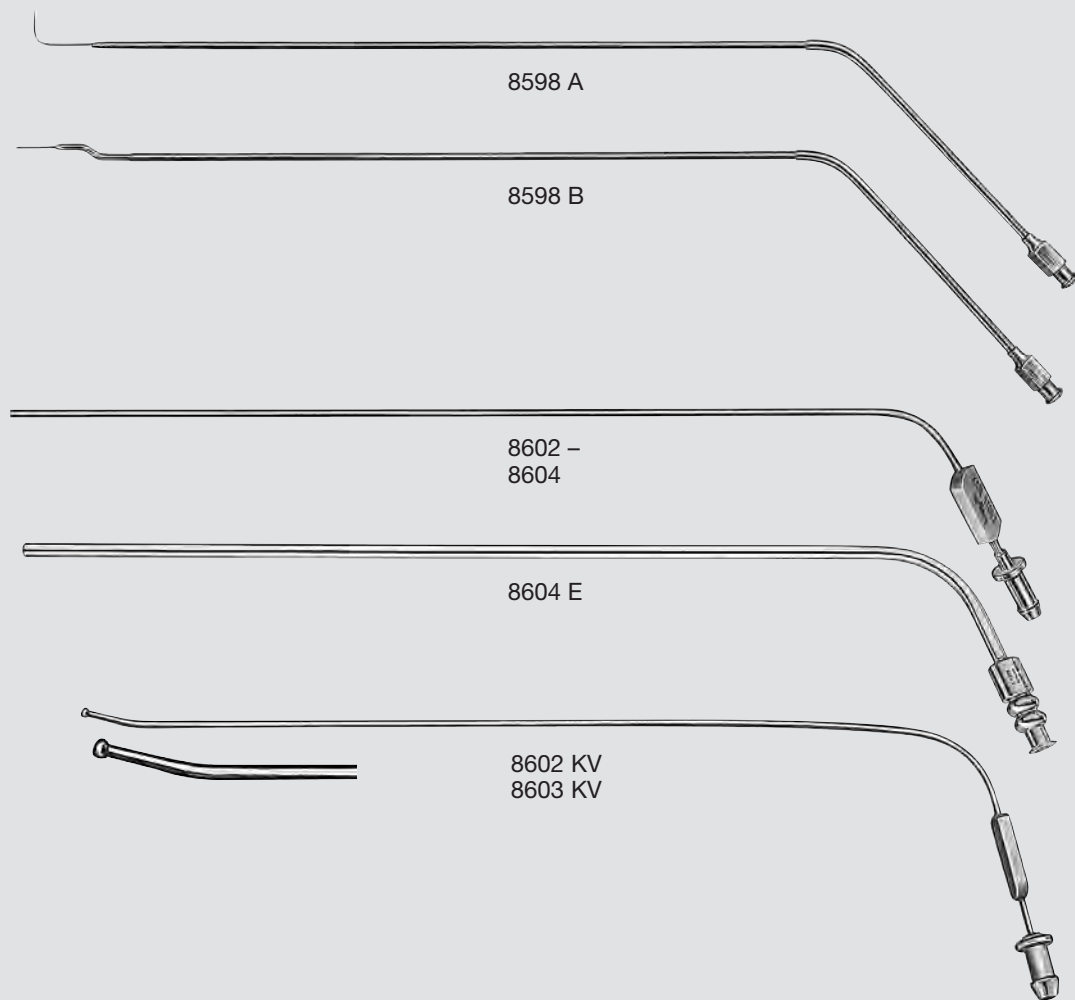


	8596 W	Cotton Applicator , straight, working length 25 cm
	8596 WJ	Cotton Applicator , for endolaryngeal microsurgery, straight, working length 21 cm
	8596 WK	Same , working length 18 cm

Original KLEINSASSER Instruments

for Endolaryngeal Microsurgery

Working length 23 cm



- 8598 A KLEINSASSER **Injection Needle**, LUER-Lock, curved, working length 23 cm
- 8598 B **Same**, straight
- 8602 KLEINSASSER **Suction Tube**, outer diameter 2 mm, working length 23 cm
- 8603 **Same**, outer diameter 2.5 mm
- 8604 **Same**, outer diameter 3 mm
- 8604 E KLEINSASSER **Suction Tube**, outer diameter 4 mm, working length 23 cm

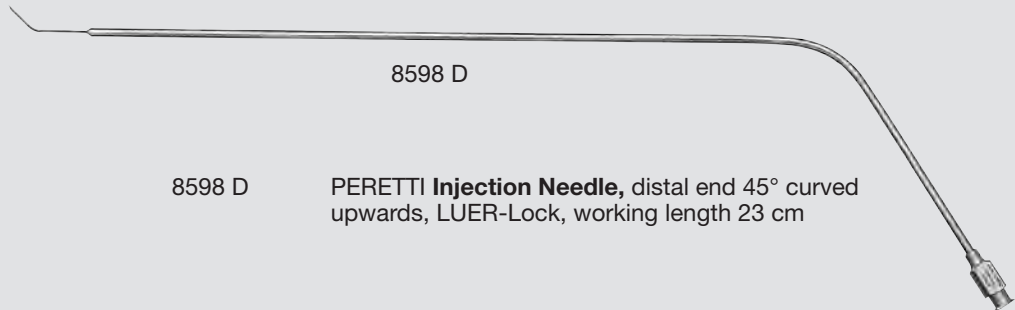
For use with KANTOR-BERCI Video-Laryngoscopes

- 8602 KV KLEINSASSER **Suction Tube**, ball end, curved upwards, outer diameter 2 mm, working length 23 cm
- 8603 KV **Same**, outer diameter 3 mm

Instruments

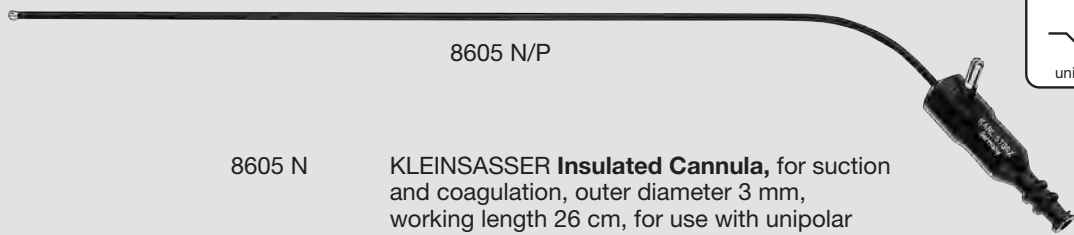
for Endolaryngeal Microsurgery

Working length 23 cm

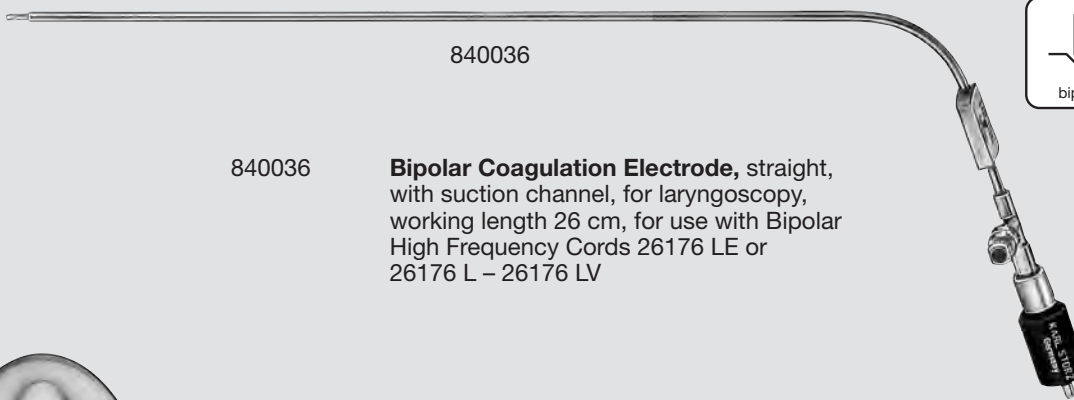


8598 D PERETTI **Injection Needle**, distal end 45° curved upwards, LUER-Lock, working length 23 cm

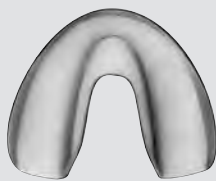
Working length 26 cm



8605 N/P
8605 N KLEINSASSER **Insulated Cannula**, for suction and coagulation, outer diameter 3 mm, working length 26 cm, for use with unipolar High Frequency Cords 26005 M or 26002 M/26004 M/26006 M
8605 P **Same**, outer diameter 5 mm

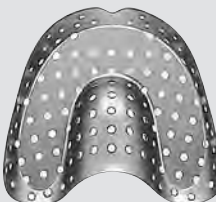


840036
840036 **Bipolar Coagulation Electrode**, straight, with suction channel, for laryngoscopy, working length 26 cm, for use with Bipolar High Frequency Cords 26176 LE or 26176 L – 26176 LV



8575 QS

8575 QS **Teeth Protector, silicone, autoclavable**, can also be used as inlay in metal teeth protector

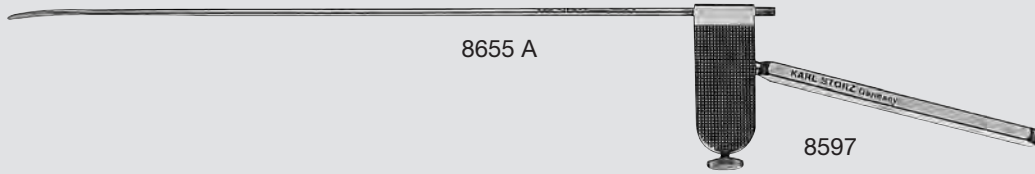


8575 RA – RD

8575 RA **Teeth Protector, metal, large**
8575 RB **Same**, medium
8575 RC **Same**, small
8575 RD **Same**, extra small

Additional Instruments

for Endolaryngeal Microsurgery



8655 A

Elevator, slightly curved, working length 23 cm, for use with Handle 8597



8655 C

Same, 90° curved

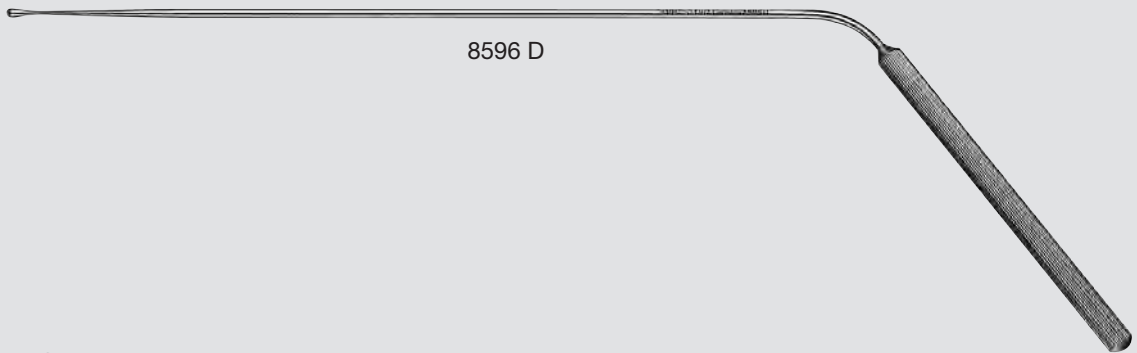


8655 K

Knife, lancet-shaped, straight, working length 23 cm, for use with Handle 8597

8597

KLEINSASSER Handle, for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B



8596 D



8596 D

Laryngeal Probe, GREAT ORMOND STREET HOSPITAL model, straight, sheath angled, round handle, working length 23 cm

Working length 20 cm

Special Features:

- Extra fine sheath gradually reinforced from distal to proximal end

8691 A

8691 A **Suction Tube**, handle with cut-off hole, tip with central opening, outer diameter 1 mm, working length 20 cm

8691 B **Same**, outer diameter 1.5 mm

8691 C **Same**, outer diameter 2 mm

8692 A

8692 A **Suction Tube**, handle with cut-off hole, tip closed, with 2 lateral openings, outer diameter 1 mm, working length 20 cm

8692 B **Same**, outer diameter 1.5 mm

8692 C **Same**, outer diameter 2 mm

8693 A

8693 B

8693 A **Probe**, straight, diameter 1 mm, working length 20 cm

8693 B **Same**, angled 45°

8597

8597 **KLEINSASSER Handle**, for use with 8595 A – 8596 T, 8655 A – K, 8693 A/B

PERETTI High Pressure Syringe

for Fat Injection

PIAFI = Primary intracordal autologous fat injection following endoscopic chordectomy for glottal laryngeal carcinoma.

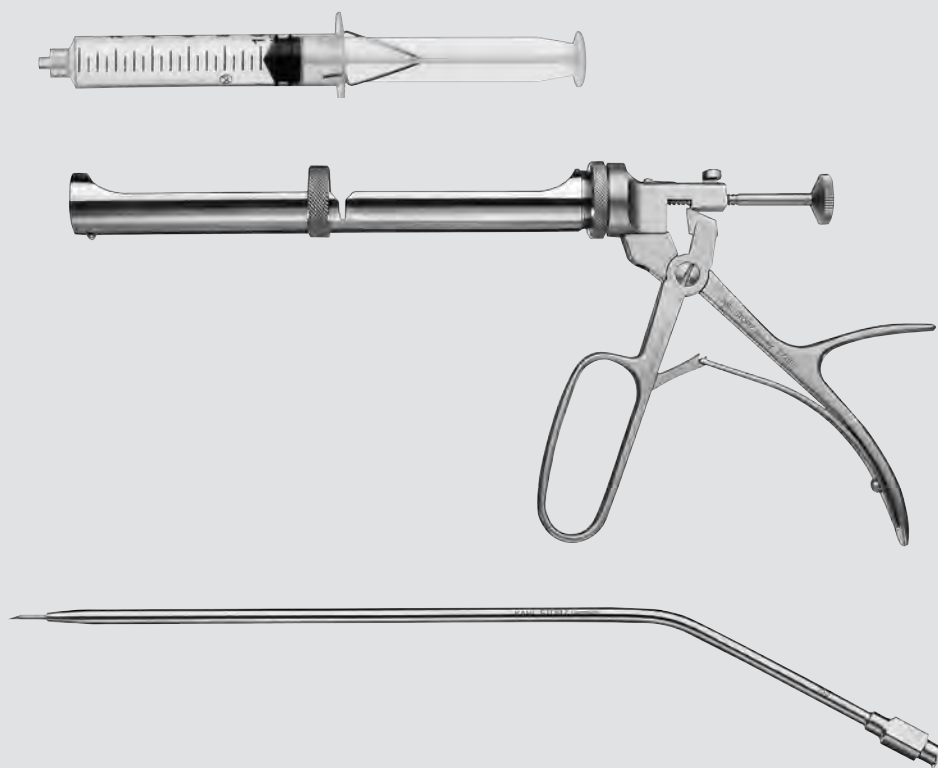
- Chordectomy is the standard treatment for vocal cord carcinoma.
- For voice restoration, it is possible to reconstruct the vocal cords either with synthetic or autologous material. In the case of the PIAFI technique, fat is injected with the PERETTI-BOLZONI instrument. The syringe for fat harvesting lies in the instrument as in a groove.
- Injection is performed by means of a gear mechanism which releases 0.5 ml fat with each cogwheel click.

Operative procedure:

- In the case of the Peretti technique, the surgeon removes subcutaneous abdominal fat.
- Autologous fat is used for the vocal cords after a few minutes.

Benefits of autologous fat injection:

- Less risk of rejection
- Cost-efficient
- Restores the mass of the resected vocal cord



771410

PERETTI High Pressure Syringe, for fat injection including:

High Pressure Handle, for use with Syringe Holder 771412

Syringe Holder, for Plastic Syringe 771415, for use with High Pressure Handle 27200

Pusher, for use with High Pressure Handle 27200 with Plastic Syringe 771415

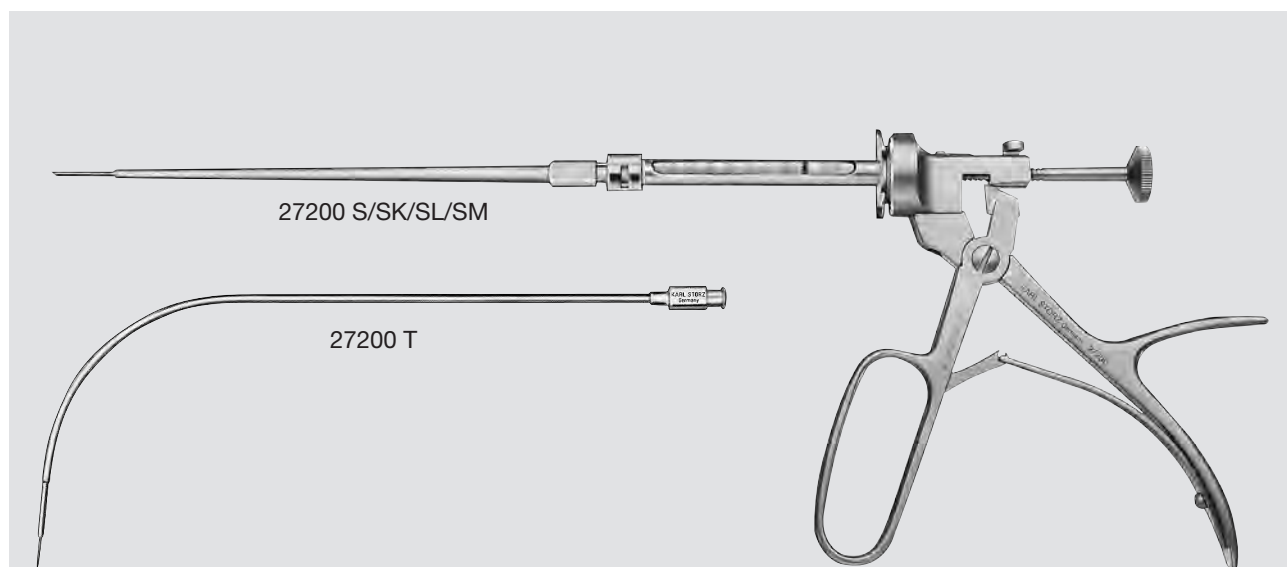
Plastic Syringe, spring-action, self-retaining, 10 ml, sterile, for single use, package of 25

Injection Cannula, angular, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 0.8 mm, working length 20 cm, package of 3

Components/Spare Parts see chapter 16

High Pressure Syringe

for Viscous Fluid Injection, for Larynx



- 771400 **High Pressure Syringe**, for viscous fluid injection including:
High Pressure Handle, for use with Syringe Holder 27201 Q
Adaptor, for injection of viscous fluid, for filling plastic syringe, package of 3
Plastic Syringe, 1 ml, for single use, package of 100
Syringe Holder, for plastic syringe, package of 3
Injection Cannula, LUER-Lock, outer diameter of syringe 1.3 mm, inner diameter 0.8 mm, working length 23 cm, package of 3
- 27200 SK **Injection Cannula**, short tip, for single use, LUER-Lock, tip outer diameter 1 mm, inner diameter 0.7 mm, working length 18 cm, package of 3
- 27200 SL **Injection Cannula**, for single use, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 1.1 mm, working length 18 cm, package of 3
- 27200 SM **Same**, working length 15 cm, package of 3
- 27200 T **JOUSSEN Larynx Cannula**, curved, for single use, LUER-Lock, outer diameter of tip 0.6 mm, for collagen application, for use with High Pressure Syringe 771400 or Syringe 810002, package of 3

8-87₅

Please note:

Collages are injected cool. If the material becomes warm it becomes rigid and can not be made liquid again by recooling.

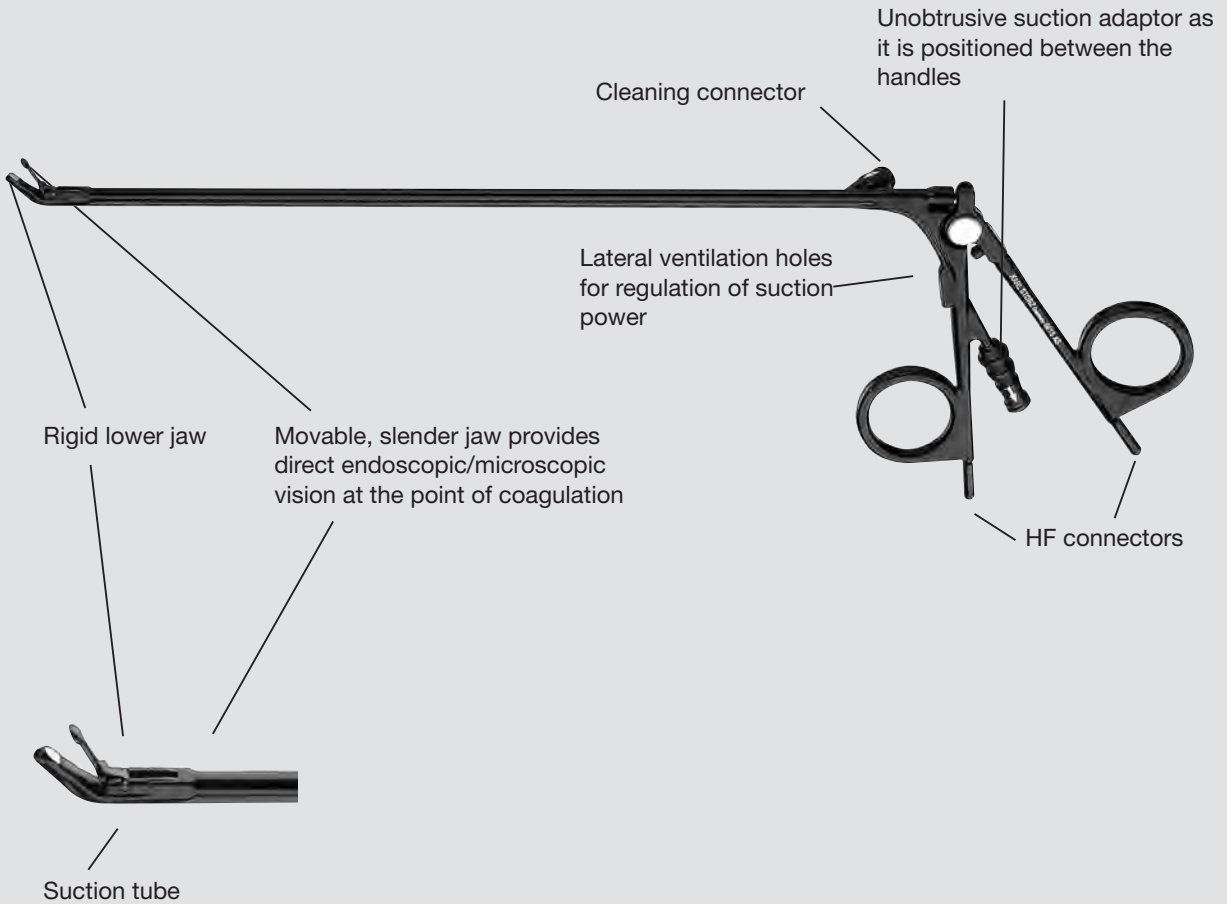
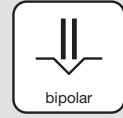
Components/Spare Parts see chapter 16

Bipolar Forceps

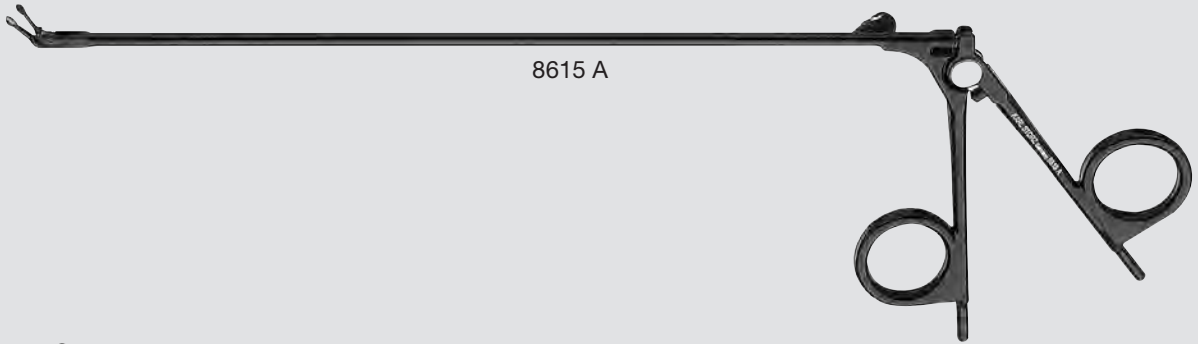
Special Features:

- Bipolar coagulation
- Insulated except for small coagulation area on the instrument tip
- Single action jaws
- Distance between cautery poles may be varied, enabling punctual and extensive coagulation

- With and without suction
- Special design of the movable jaw provides direct endoscopic/microscopic vision at the point of coagulation



Bipolar Forceps

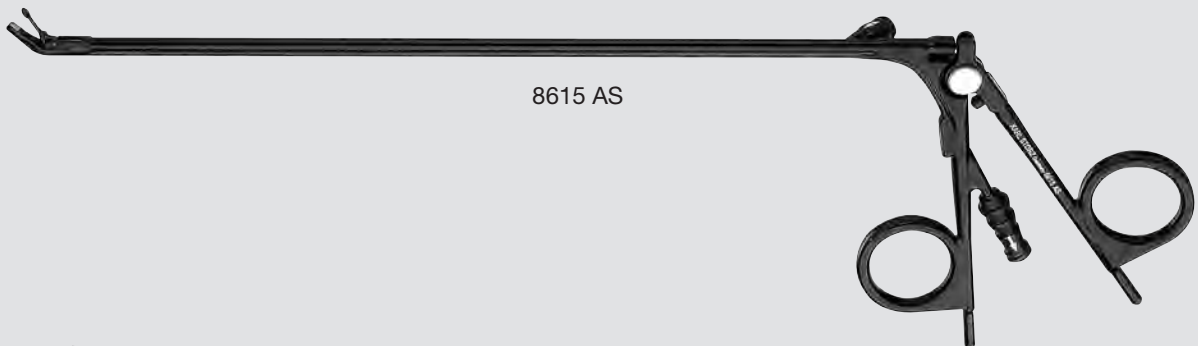


8615 A



8615 A

Bipolar Forceps, jaws 45° upturned, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U



8615 AS



8615 AS

Bipolar Suction Forceps, jaws 45° upturned, with suction channel, for bipolar coagulation in larynx, working length 23 cm, for use with Bipolar High Frequency Cords 847002 E or 847002 A/M/V/U

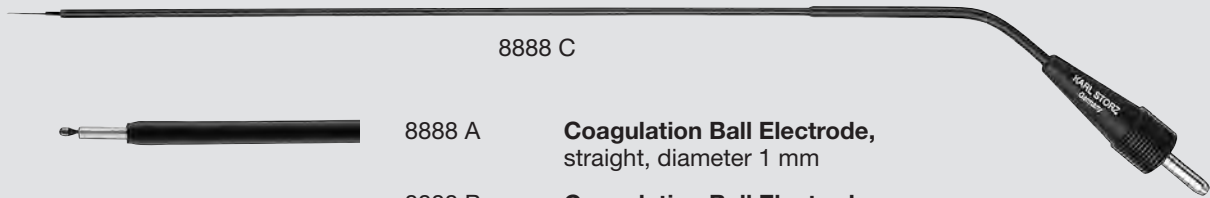
1-08

Bipolar High Frequency Cords see chapter 8, pages 426-428

Accessories

for High Frequency Surgical Units

Working length 23 cm



8888 C



8888 A

Coagulation Ball Electrode,
straight, diameter 1 mm

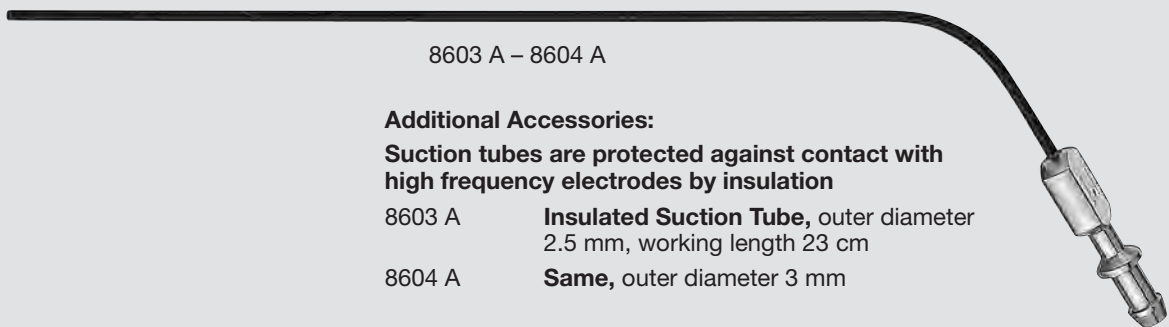
8888 B

Coagulation Ball Electrode,
straight, diameter 2 mm



8888 C

Cutting Electrode, straight, diameter 0.45 mm



8603 A – 8604 A

Additional Accessories:

**Suction tubes are protected against contact with
high frequency electrodes by insulation**

8603 A

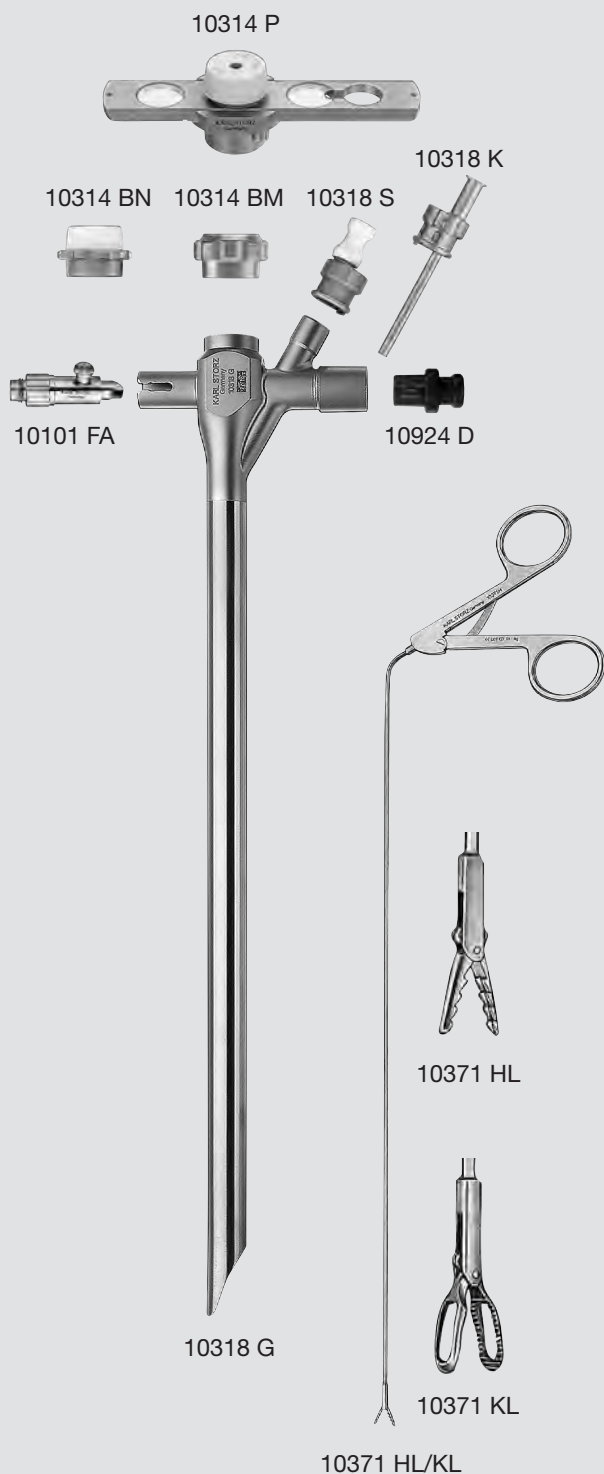
Insulated Suction Tube, outer diameter
2.5 mm, working length 23 cm

8604 A

Same, outer diameter 3 mm

Electrode Handle 26 5200 43 and 26 5200 46 see chapter 8, page 424
Unipolar and bipolar high frequency cords see chapter 8, pages 426-428

Full Lumen Operating Tracheoscope



Special Features:

- Absence of distal light carrier does not restrict inner diameter
- Prismatic light deflector which is inserted proximally ensures illumination and enables full use of lumen through operation instruments
- Round inner diameter enables bronchial bougies from 30 to 37 Fr. to be introduced
- Suitable for the application of bronchial stents

- 10318 G **Full Lumen Operating Tracheoscope**, size 14 mm, length 33 cm
- 10101 FA **Prismatic Light Deflector**, autoclavable, with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P **FLUVOG Adaptor**, with observation window, cap with rubber seal and with window, adjustable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10924 D **Adaptor**, for respirator
- 10371 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
- 10371 KL **Forceps**, for peanuts and soft foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm

Polyflex self-expanding silicon stents with polyester netting for maintaining air passage patency in cases of central airway stenosis and for bridging tracheo-oesophageal fistulus can be obtained from:

Willy Rüsçh AG, P. O. Box 1180, D-72385 Kernen, Germany

For more forceps please see chapter 11-12, ESOPHAGOSCOPY – BRONCHOSCOPY

Dilation Tracheoscopes

GRONINGEN Model

Some tracheal stenoses can be treated endoscopically. An intubation laryngoscope, a dilation tracheoscope, telescope and suction tubes are required for this procedure.

The tracheoscope is available with a diameter of 8 mm or 12 mm. The size of the instrument is determined by the size of the larynx and the healthy portion of the trachea. There are numerous tiny openings in the distal end of the instrument which enable air to come through the middle of the stenosis. The proximal end of the instrument is designed in such a way that customary ventilation tubes and a telescope (30 cm) can be connected.

The intervention is carried out under general anesthesia. Following the administration of the anesthesia and with ventilation taking place via the anesthesia mask, the dilation tracheoscope is introduced under endoscopic control. The stenosis is visible through the vocal cords. The design of the tip which can be advanced forward

through the stenosis ensures that the ventilation is maintained during this process. The conical construction of the tip enables the instrument to be advanced carefully up to the wider section of the tracheoscope, whereby the tracheoscope remains in place 5-10 minutes. The intervention is then completed.

Fig. 1 corresponds to the view through the telescope and shows the proximal part of the tracheal stenosis. The vocal cords are at the front of the picture. In Fig. 2 the stenosis can be seen in detail. Fig. 3 shows the stenosis following the dilation; Fig. 4 the healthy, distal trachea.

The constellation of instruments is suitable for treating most medium-sized stenoses (Myer-Corton 2nd degree). The intervention can be repeated after 6-24 months without difficulty.

F. G. DIKKERS, M.D., Groningen, The Netherlands



Fig. 1

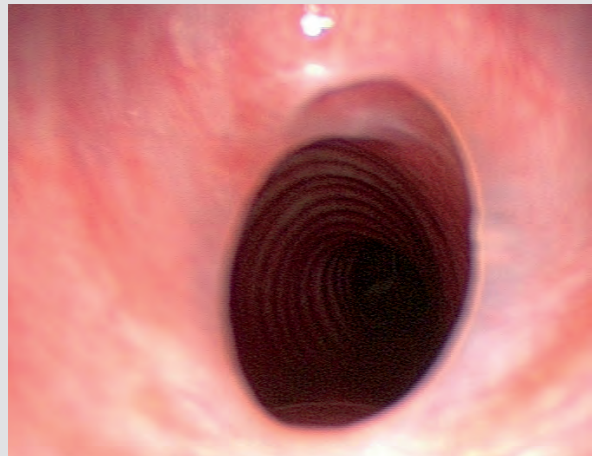


Fig. 2

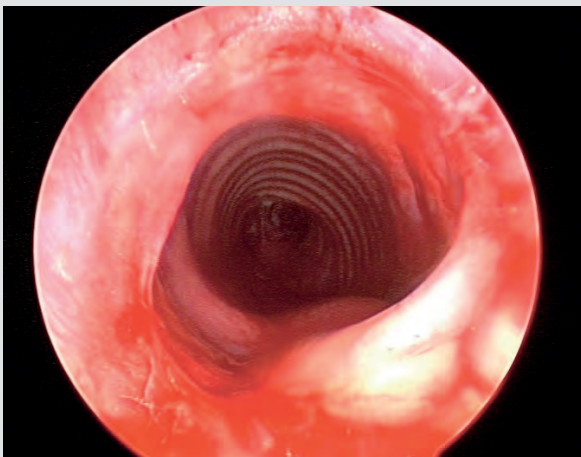


Fig. 3

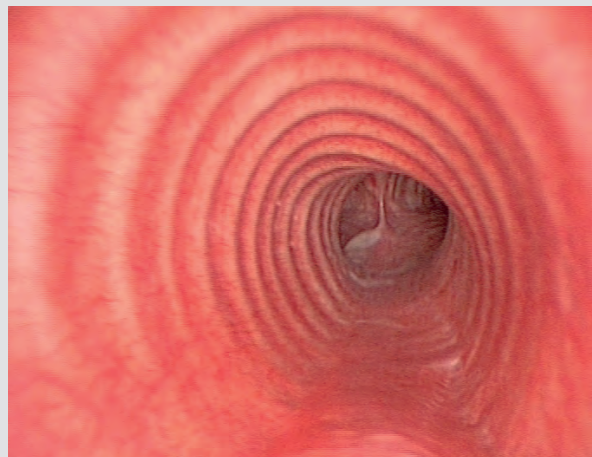
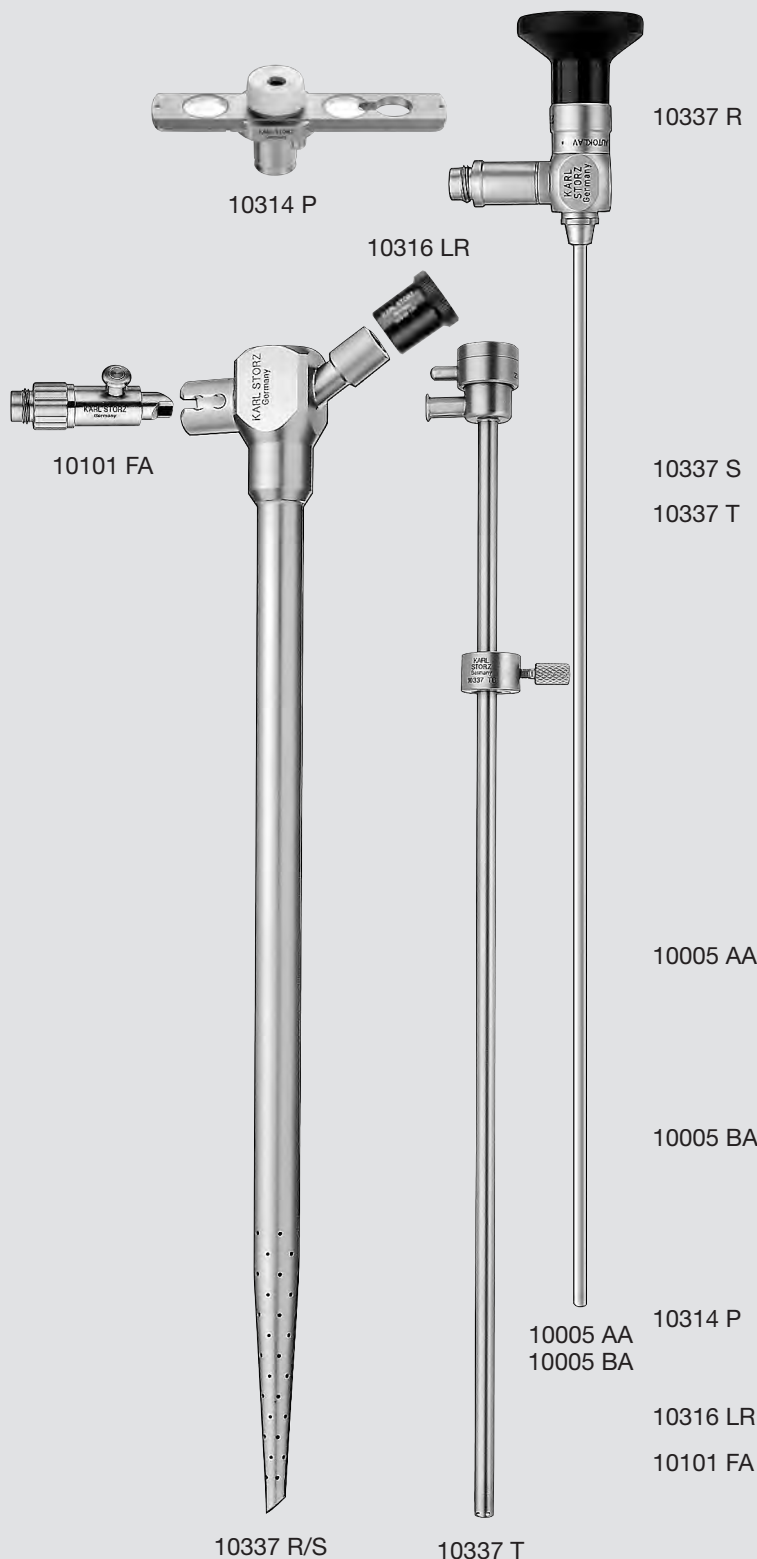


Fig. 4

Dilation Tracheoscopes

GRONINGEN Model



Optical Dilation Tracheoscope, GRONINGEN model, rigid, with distance markings, for dilation for stenosis and tumors in the upper trachea, distal tapered with lateral ventilation holes, proximal with attachment for oxygen, outer diameter 12 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA, Prismatic Light Deflector 10101 FA, Adaptor for Respirator 10316 LR and adjustable FLUVOG attachment, with window and Rubber Seal 10314 P

Same, outer diameter 8 mm

Optical Intubation Tracheoscope, GRONINGEN model

including:

Sheath, for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA

Distance Ring, with fixation screw for length adjustment of the endotracheal tubes

10005 AA HOPKINS® II Straight Forward Telescope 0°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, color code: green

10005 BA HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, diameter 4 mm, length 30 cm, autoclavable, fiber optic light transmission incorporated, color code: red

10314 P FLUVOG Adaptor, with observation window, cap with rubber seal and with window, adjustable

10316 LR Adaptor, for respirator

10101 FA Prismatic Light Deflector, autoclavable, with connection to fiber optic light cable

11-031

Components/Spare Parts see chapter 16



**ESOPHAGOSCOPY
DIVERTICULOSCOPY**

CMOS Video Esopharyngoscope for adults, without working channel,
working length 75 cm, diameter 3,7 mm

Special Features:

- Possibility of inversion up to 200°
- A cm-scale with special markings for every 5 and 10 cm – can be read as distance between the optical window to the vestibule of the nose
- Every 10 cm the distance from the optical window is visible as a figure beside the marking, e. g. 30 cm = 3; 50 cm = 5 or 70 cm = 7. This means that the height and caudal-cranial extent of a pathological process can be determined with an accuracy of up to less than 1 cm in the esophagus. This procedure is suitable for measuring extensive alterations.
- When the distal end is curved backwards by 200°, a 2.5 mm-scale is visible in the optical window on the sheath. The cm-scale is positioned in inversion beside the pathological process. The extension is read and recorded with the video-endoscope. It allows measuring the length of a change in the esophagus with an accuracy up to ± 1 mm, whilst eliminating the parallax error. This procedure is suitable for measuring smaller processes outside the sphincter regions.
- The possibility of long-term endoscopy is comparable to pH-metry or impedancometry.

Fields of application

- Laryngopharynx
- Upper Esophageal Sphincter (UES)
- Cardia or Lower Esophageal Sphincter (LES)

Applications

- Stress endoscopy
- Polysomnography
- Tracheobronchoscopy
- Combined endoscopy

Handling

The video esopharyngoscope is introduced transnasally. It is inserted into the pharynx under visual control. During this maneuver the functions of breathing, speaking, singing, coughing, swallowing water, liquid and solid food, etc. can be examined in the nose, rhinopharynx, velopharynx, oropharynx and larynx or laryngopharynx. This endoscopic procedure can be performed on adults without any medication. Administering decongestant nose drops with the addition of a few drops of e. g. oxybuprocaine (Novosine) is only advisable in the case of allergic patients and children on account of increased sensitivity or the narrower nasal passage.

To aid passage through the upper esophageal sphincter, the patient is given a glass of plain water (non-carbonated) and a straw. Once the optical window of the video esopharyngoscope is positioned above the postcricoid region, the endoscope passes the upper sphincter after the first sip of water. This takes advantage of the physiological hypesthesia which occurs through the act of swallowing. The patient virtually drinks the endoscope. With the help of the patient, the optical window reaches the lower esophageal sphincter. Drinking plain water enables the endoscope to pass through the cardia. Stomach gas, the stomach's contents and the stomach wall can then be visualized via mucosal relief.

Field of application

Stress endoscopy

Following the transnasal introduction of the endoscope into the esophagus, the functions of the stomach, esophagus, pharynx and larynx can be simultaneously recorded with an ECG under the same conditions as a stress electrocardiogram. As the symptoms for cardiac disorders and gastric reflux are similar, differential diagnosis is important in this case. Respiration and reflux disorders in the esophagus, pharynx and larynx or resulting electrocardiographic changes are documented during an exercise stress test.

Polysomnography (sleep endoscopy in conjunction with polysomnography)

Similar to stress endoscopy, a new diagnostic sleep endoscopy has been developed which combines polysomnography with somnography (sleep endoscopy) on-line. The video esopharyngoscope is introduced as described above. In the sleep laboratory, the mechanisms of obstruction in the velopharynx, oropharynx and larynx regions that are observed and recorded during sleep endoscopy can be correlated on-line with polysomnographic data. This shows that there is a direct correlation between causes recorded by means of sleep registration and polysomnographic findings. Consequently, the significance of laryngeal obstruction mechanisms, which are responsible for 22% of all snoring and OSAHS problems, could be established. For the first time, a pretherapeutic diagnostic technique allows a prognosis on a postoperative outcome. This offers the possibility of objective quality control of the performed therapy during post-therapeutic follow-up.

A C-PAP or B-PAP machine is set up or adjusted under polysomnographic control. This ensures that OSAHS patients receive a higher standard of treatment.

Tracheobronchoscopy

Out-patient tracheobronchoscopy can be performed on patients (including children) in a sitting position. Following administration of decongestant nose drops and nasal decongestion, e.g. 2% oxybuprocaine is inhaled deeply through an atomizer. This maneuver is repeated every 2 minutes. One waits for about 4 minutes until the patient confirms anesthesia. The video esophagoscope is advanced to the vocal cord level and oxybuprocaine is applied as drops to the tracheal mucosa. It is then possible to advance to the tracheobronchial tree.

Combined endoscopy (Functional analysis under visual control)

Using a Steri-Strip (6 × 50 mm = half-length (3M)), a Sleuth catheter (impedancecometry) and a pH meter probe or manometer probe, for example, are placed in parallel (piggyback) on the video esopharyngoscope and mounted on the side of the fiberscope with cm-markings (up to 70 cm). The tip of the catheter or the probe must be visible in the optical window even when the endoscope is deflected. Following nasal decongestion, the piggyback system is inserted into the side of the nose which offers the most space for maneuver. After reaching the pharynx, the system passes the upper sphincter as described above. The plaster should not be wrapped around the instruments more than twice (max. 50 mm = half-length) so that it comes off easily in the stomach. Gentle counter-rotation of both piggyback components enables this fixation to be detached more quickly in the stomach.

Benefits of combined endoscopy:

- Introduction of probe or catheter under visual control, i.e. without gagging and without accidentally entering the larynx or the trachea
- Visualization of sensor position (sensor of the pH probe in the gaseous space of the stomach with correct pH values, but false interpretation)
- Visualization of the sensor or catheter position (i. e. kinked catheter in the esophagus)
- Prevention of blind measuring and, consequently, false interpretations via visualization and measurements

This new endoscopic technique offers improved functional diagnostics which is now performed under visualization in contrast to previous blind introduction. This opens up new dimensions and several possibilities for understanding mechanisms and pathomechanisms, for preventive medicine, and to develop more specific therapy plans.

A patient's case history and food diary (when, what, where, how long) – which records the type, time of day, and duration of food and drink consumption as well as any complaints – helps shorten the time required to perform medical examinations. Indications are also provided for, i. e. impedance measurement combined with pH-metry and/or simultaneous endoscopic long-term functional analysis. A more specific diagnosis can prevent the indiscriminate use of antacids and similar medications.

*Prof. Dr. I. F. HERRMANN,
Düsseldorf, Germany*

HERRMANN CMOS Video Esopharyngoscope

for Functional Diagnostics in Otorhinolaryngology

The **CMOS video esopharyngoscope** combines an integrated light source with a camera control unit.

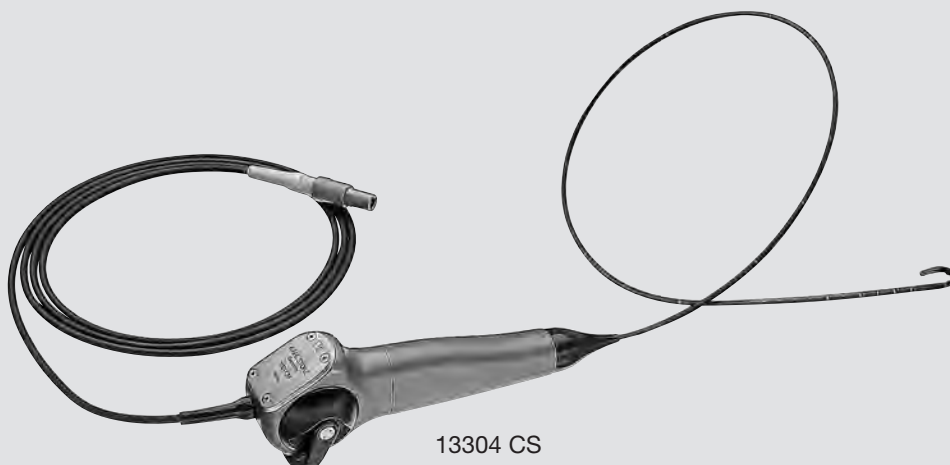
Due to the combination of Monitor 8402 ZX with the KARL STORZ C-HUB® system, the **CMOS video**

esophagoscope provides a solution for the doctor's office, house calls or consultation purposes.

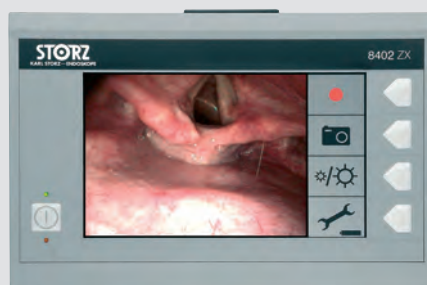
Special Features:

- CMOS chip technology for good image quality
- Replay of recorded video sequences and images via monitor
- Integrated LED light source
- Can be combined with the KARL STORZ C-HUB® system
- Sensitive yet robust control through ergonomic handle
- Waterproof, fully immersible for cleaning and disinfection
- Sterilizable via EtO gas, Sterrad® 100S, Sterrad® NX and Steris® System 1/System 1E





13304 CS



8402 ZX

13304 CSK **CMOS Video Esopharyngoscope KIT,**
for use with Monitor 8402 ZX
Direction of view: 0°
Angle of view: 85°
Working length: 75 cm
Outer diameter: 3.7 mm
Deflection up/down: 210°/140°

Following accessories included:

13304 CS **CMOS Video Esopharyngoscope**
13242 XL **Leakage Tester,** with bulb and manometer
11025 E **Pressure Compensation Cap,** for ventilation
during gas sterilization
27677 FV **Case**

13304 CSM **CMOS Video Esopharyngoscope with Monitor**
Direction of view: 0°
Angle of view: 85°
Working length: 75 cm
Outer diameter: 3.7 mm
Deflection up/down: 210°/140°

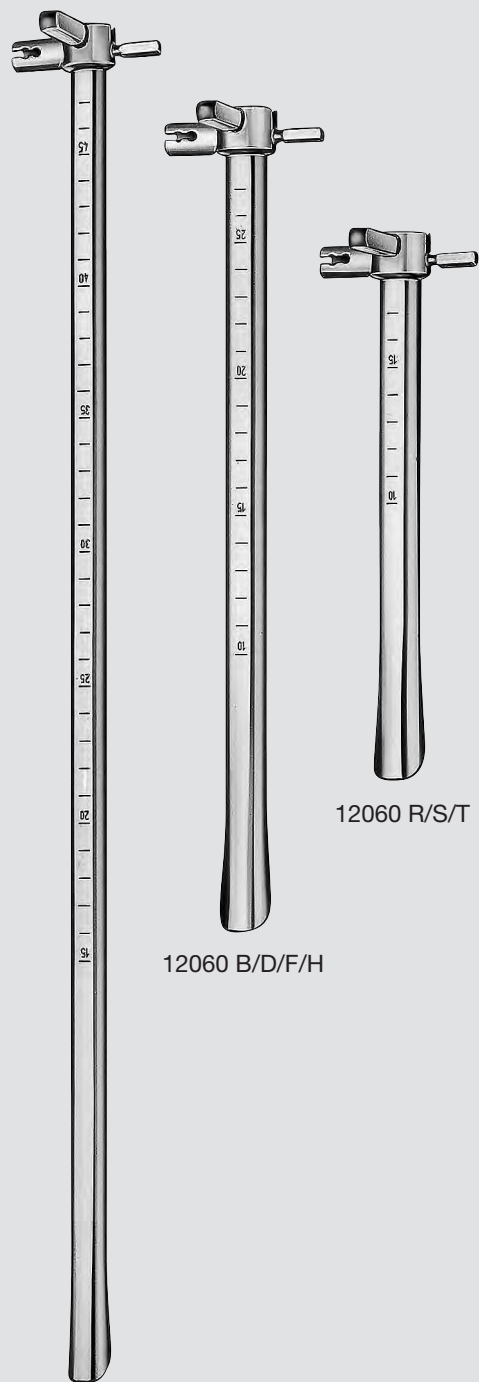
Following accessories included:

13304 CSK **CMOS Video Esopharyngoscope KIT**
8402 ZX **Monitor for CMOS endoscopes**

ROBERTS-JESBERG Esophagoscopes and Hypopharyngoscopes

for Distal and Proximal Illumination

STORZ
KARL STORZ — ENDOSKOPE



12060 A/C/E

12060 B/D/F/H

12060 R/S/T

Size 12 x 16

- 12060 AX ROBERTS-JESBERG **Esophagoscope**, oval, size 12 x 16, length 55 cm
- 12060 A **Same**, length 50 cm
- 12060 AW **Same**, length 45 cm
- 12060 AV **Same**, length 40 cm
- 12060 AU **Same**, length 35 cm
- 12060 B **Same**, length 30 cm

Size 10 x 14

- 12060 C ROBERTS-JESBERG **Esophagoscope**, oval, size 10 x 14 mm, length 50 cm
- 12060 CV **Same**, length 40 cm
- 12060 D **Same**, length 30 cm

Size 8 x 12

- 12060 E ROBERTS-JESBERG **Esophagoscope**, oval, size 8 x 12, length 50 cm
- 12060 EV **Same**, length 40 cm
- 12060 F **Same**, length 30 cm

Size 7 x 9

- 12060 H ROBERTS-JESBERG **Esophagoscope**, oval, size 7 x 9, length 30 cm

Hypopharyngoscopes, length 20 cm

- 12060 R ROBERTS-JESBERG **Hypopharyngoscope**, oval, size 12 x 16, length 20 cm
- 12060 S **Same**, size 10 x 14
- 12060 T **Same**, size 8 x 12



10101 FA

For proximal illumination

10101 FA **Prismatic Light Deflector, autoclavable,**
 with connection to fiber optic light cable

12061 A – C



For distal illumination

12061 A **Fiber Optic Light Carrier,** for use with
 esophagoscopes, length 50 cm

12061 AX **Same,** for use with esophagoscopes,
 length 55 cm

12061 AW **Same,** for use with esophagoscopes,
 length 45 cm

12061 AV **Same,** for use with esophagoscopes,
 length 40 cm

12061 AU **Same,** for use with esophagoscopes,
 length 35 cm

12061 B **Same,** for use with esophagoscopes,
 length 30 cm

12061 C **Fiber Optic Light Carrier,** for use with
 hypopharyngoscopes, length 20 cm

12062 A – C



Additional Accessories:

12062 A **Insertable Suction Tube,** for use with
 esophagoscopes, outer diameter 2 mm,
 length 50 cm

12062 AX **Same,** for use with esophagoscopes,
 length 55 cm

12062 B **Same,** for use with esophagoscopes,
 length 30 cm

12062 C **Insertable Suction Tube,** for use with
 hypopharyngoscopes, outer diameter 2 mm,
 length 20 cm

10338 TA **Adjustable Magnifier, autoclavable,** swing-
 away type, with plug connection

12070 **Handle,** for esophagoscopes



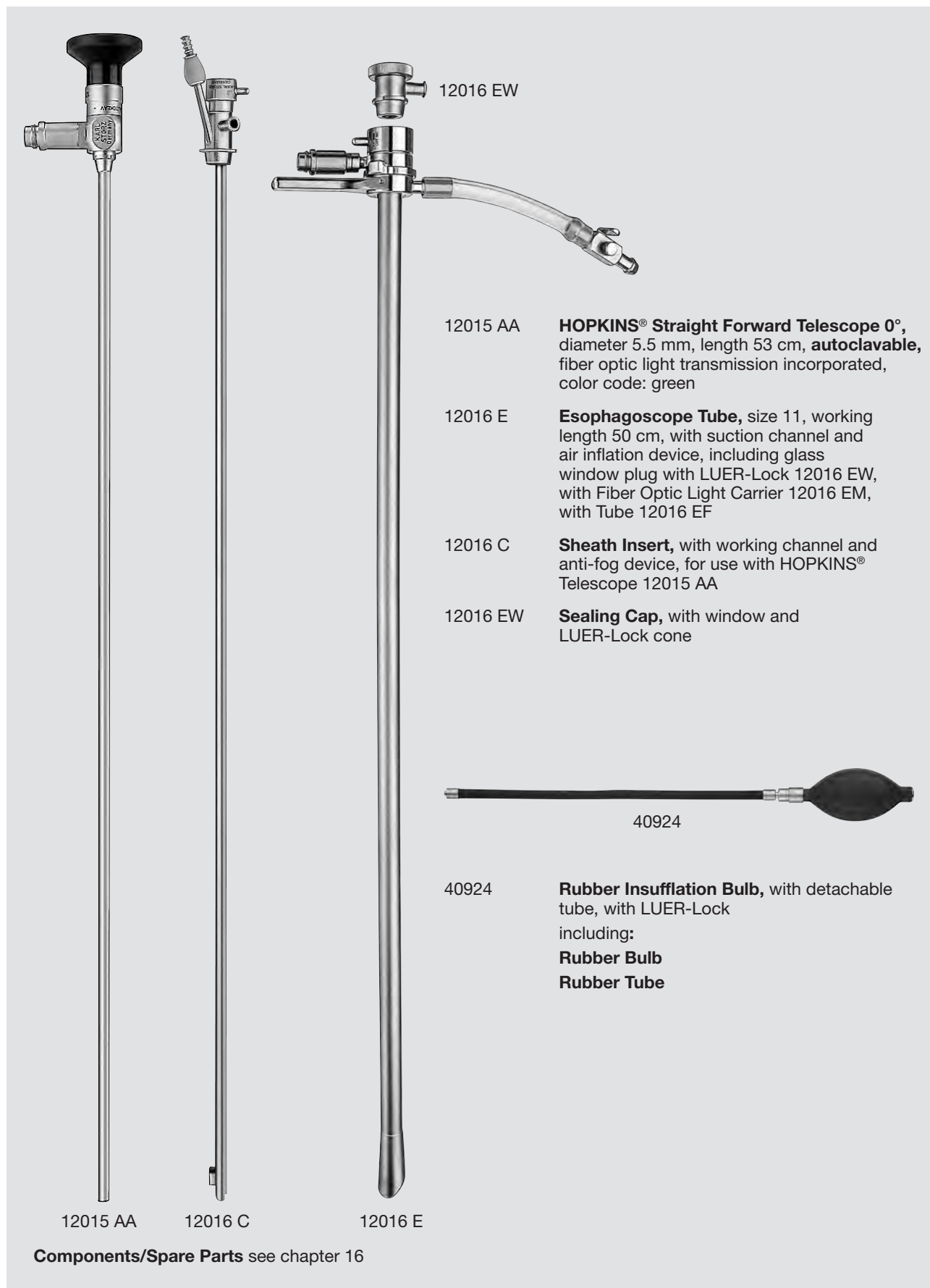
10338 TA



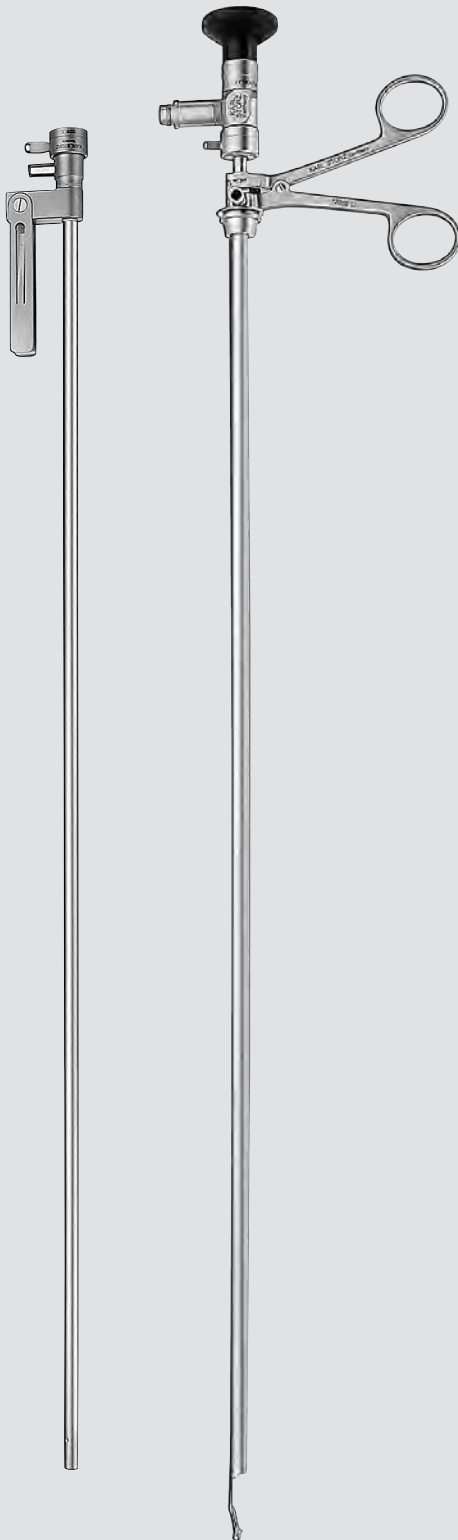
12070

Optical Esophagoscope

with Suction Channel and Air Inflation Device



12015 AA



Instruments for use with HOPKINS® Telescope 12015 AA

- 12016 K **Optical Peanut Forceps**, for large chunks of meat and soft foreign bodies
- 12016 L **Optical Forceps**, spoon-shaped, round, for biopsy
- 12016 M **Optical Forceps**, alligator, large jaws, for hard foreign bodies
- 12016 N **Optical Forceps**, universal, for biopsy, for foreign bodies and removal of denatured tissue
- 12016 X **Telescope Guide**, for use with Esophagoscopes 12060 A/C/E, length 50 cm and HOPKINS® Telescope 12015 AA



12016 X

12016 L

12016 K

12016 L

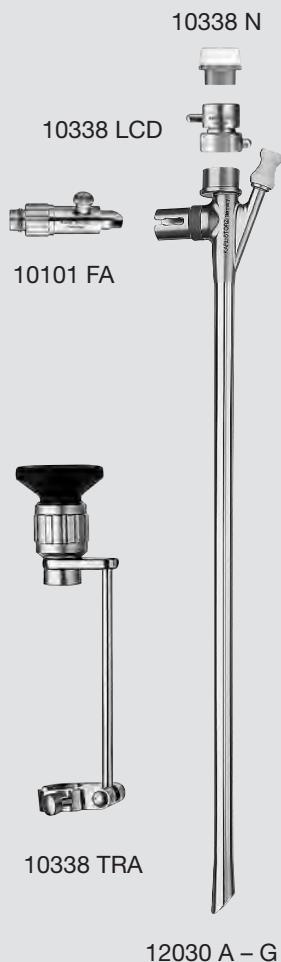
12016 M

12016 N

11-981

Pediatric Esophagoscopes

with Proximal Illumination



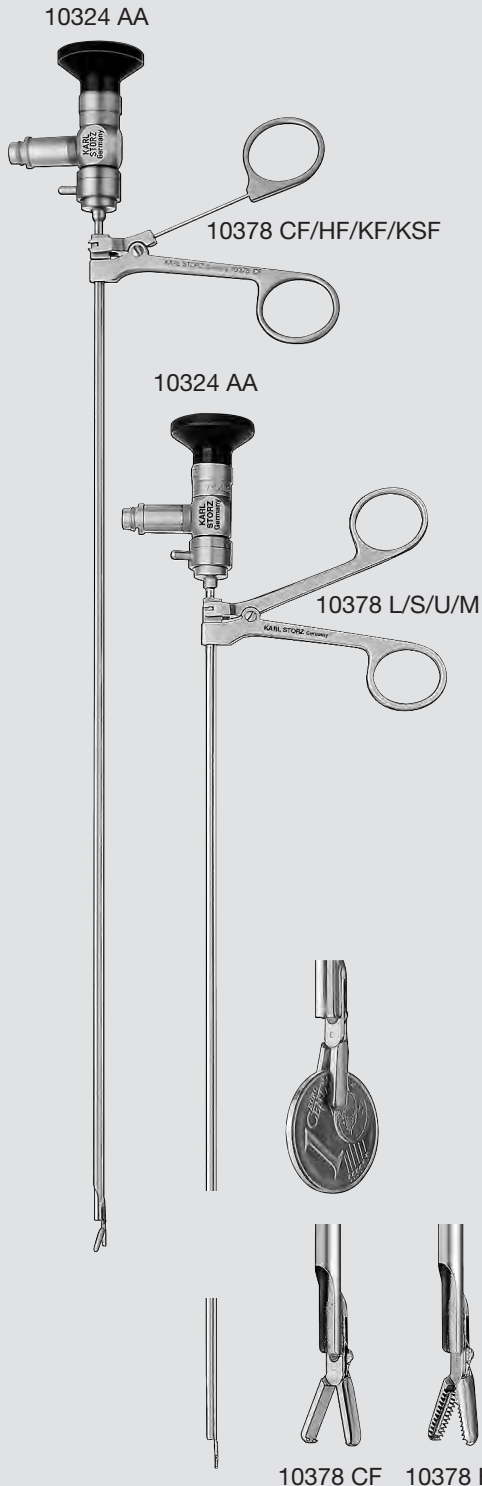
- 12030 A **Esophagoscope Tube**, size 6, length 30 cm
- 12030 B **Same**, size 5
- 12030 C **Same**, size 4
- 12030 F **Esophagoscope Tube**, size 3.5 mm, length 18.5 cm
- 12030 G **Same**, size 3
- 10101 FA **Prismatic Light Deflector**, autoclavable, with connection to fiber optic light cable
- 10338 TRA **Adjustable Magnifier**, autoclavable, swing-away type, with ring adaption
- 10338 N **Rubber Telescope Guide**, for use with telescopes and optical forceps
- 10338 LCD **Telescope Bridge**, for fixed position between bronchoscope and telescope

For use through lateral working channel of esophagoscopes, lengths 30 and 18.5 cm, under control of HOPKINS® Telescopes 10324 AA, 10020 ATA and 10018 AA:

- 10338 U **Forceps**, alligator, spoon-shaped, single action jaws, semiflexible, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10338 X **Forceps**, spoon-shaped, for biopsy, single action jaws, semiflexible, width of jaws 1.2 mm, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B
- 10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B
- 10468 D **Suction Catheter**, 4.5 Fr., with Adaptor 10479 F

Optical Forceps and Scissors

for Pediatric Esophoscopes, size 6 – 3.5, length 30 cm – 18.5 cm



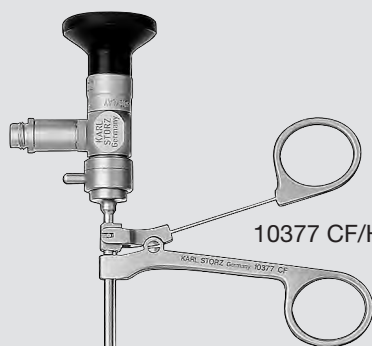
For use with Esophoscopes 12030 A/B/C/F

- 10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10378 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10378 KSF **Optical Forceps**, VANCOUVER model, for grasping peanut fragments and soft foreign bodies, with spring-action handle
- 10378 L **Optical Forceps**, spoon-shaped, for biopsy
- 10378 S **Optical Scissors**
- 10378 U **Optical Forceps**, universal, for biopsy and foreign bodies removal
- 10378 M **Optical Forceps**, spoon-shaped, oval, for biopsy, large model

Optical Forceps

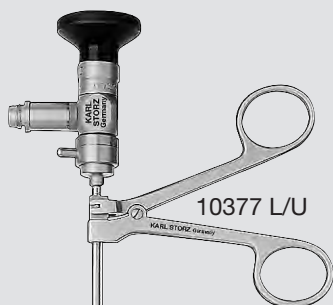
for Pediatric Esophagoscopes, size 3.5, length 18.5 cm

10020 ATA



10377 CF/HF/KF

10020 ATA



10377 L/U

For use with Esophagoscope 12030 F

- 10020 ATA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10377 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10377 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10377 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10377 L **Optical Forceps**, spoon-shaped, for biopsy
- 10377 U **Optical Forceps**, universal, for biopsy and foreign bodies removal



10377 CF

10377 HF

10377 KF

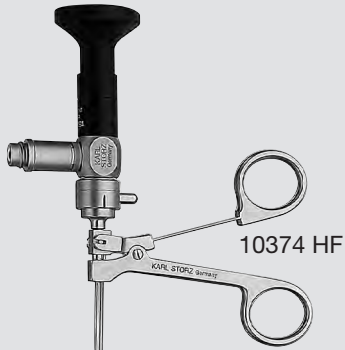
10377 L

10377 U

Optical Forceps

for Pediatric Esophoscopes, size 3.5 – 3, length 18.5 cm

10030 AA



10030 AA

Miniature Straight Forward Telescope 0°, semirigid, autoclavable, fiber optic light transmission incorporated

Direction of view: 0°
Angle of view: 90°
Working length: 30.6 cm
Outer diameter: 1.3 mm
Color code: green

10374 HF

Optical Forceps, with alligator jaws, for grasping hard foreign bodies, with spring-action handle

10374 L

Optical Forceps, spoon-shaped, for biopsy

10030 AA



10374 L



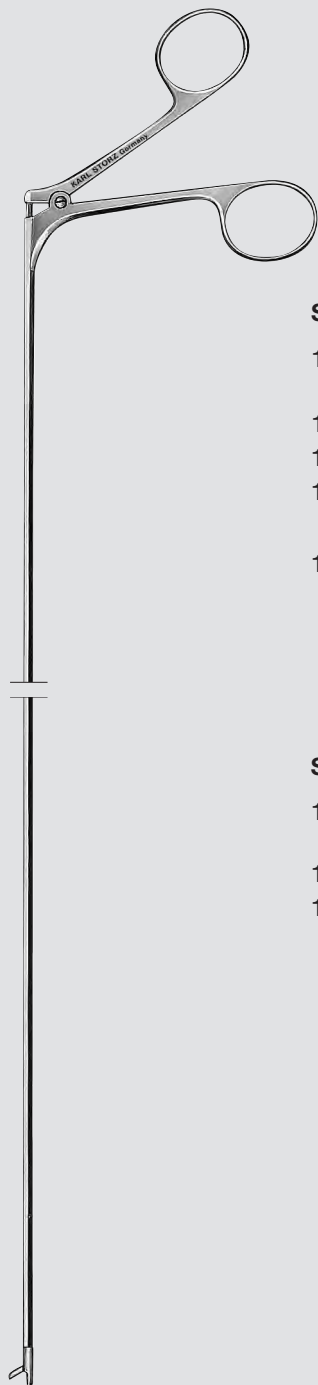
10374 HF



10374 L

Forceps and Scissors for Esophagoscopy

single action jaws



Sheath diameter 2.5 mm, working length 55 cm

- 10366 HL **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 55 cm
- 10366 KL **Same**, for peanuts and soft foreign bodies
- 10366 LL **Same**, spoon-shaped, round, for biopsy
- 10366 UL **Same**, universal, for biopsy and foreign bodies removal
- 10366 SL **Scissors**, straight, for trituration of bone

Sheath diameter 2.5 mm, working length 35 cm

- 10367 H **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 35 cm
- 10367 K **Same**, for peanuts and soft foreign bodies
- 10367 L **Same**, spoon-shaped, round, for biopsy



10366 HL
10367 H



10366 KL
10367 K



10366 LL
10367 L



10366 UL



10366 SL

Esophagoscopic Forceps

double action jaws



Sheath diameter 2.5 mm, working length 55 cm

- 10370 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 55 cm
- 10370 JL **Same**, pointed, serrated, for coins and flat foreign bodies
- 10370 KL **Same**, for peanuts and soft foreign bodies
- 10370 LL **Same**, spoon-shaped, round, for biopsy



10370 HL



10370 JL



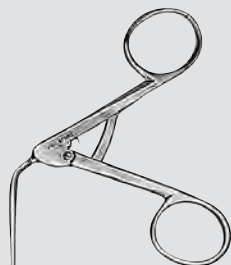
10370 KL



10370 LL

Esophagoscopic Forceps

double action jaws



Sheath diameter 2 mm, working length 45 cm

- 10371 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
- 10371 KL **Same**, for peanuts and soft foreign bodies
- 10371 LL **Same**, spoon-shaped, round, for biopsy
- 10371 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 2 mm, working length 35 cm

- 10371 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 35 cm
- 10371 J **Same**, pointed, serrated, for coins and flat foreign bodies
- 10371 K **Same**, for peanuts and soft foreign bodies
- 10371 L **Same**, spoon-shaped, round, for biopsy
- 10371 P **Same**, spoon-shaped, oval, fenestrated, for biopsy and foreign bodies removal
- 10371 U **Same**, universal, for biopsy and foreign bodies removal



10371 HL
10371 H



10371 J



10371 KL
10371 K



10371 LL
10371 L



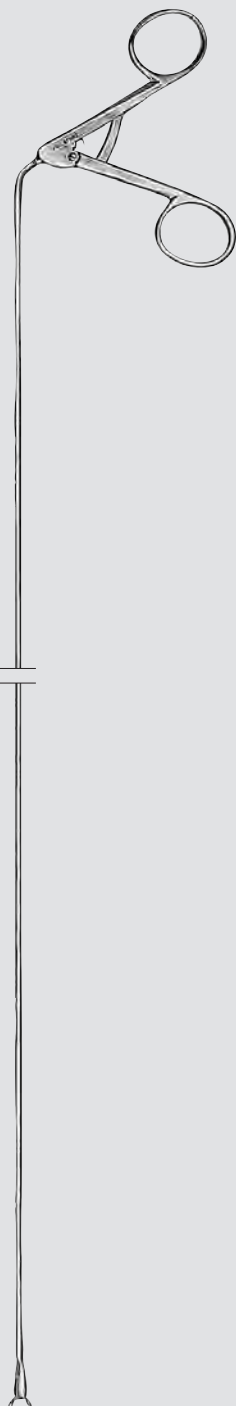
10371 P



10371 UL
10371 U

Esophagoscopic Forceps

double action jaws



Sheath diameter 1.5 mm, working length 35 cm

- 10372 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm
- 10372 JL **Same**, pointed, serrated, for coins and flat foreign bodies
- 10372 KL **Same**, for peanuts and soft foreign bodies
- 10372 LL **Same**, spoon-shaped, round, for biopsy
- 10372 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 1.5 mm, working length 25 cm

- 10372 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 25 cm
- 10372 K **Same**, for peanuts and soft foreign bodies



10372 HL
10372 H



10372 JL



10372 KL
10372 K



10372 LL



10372 UL

Accessories for Esophagoscopy

Suction Tubes, Cotton Carriers and Sponge Holders

10380 AK – CB

10383 AL – F

10381 AL – B

10382 AM – B

10390 BN – LN

10384 AL – B

10385 B

10387 AL – B

Accessories for Esophagoscopy

Suction Tubes, Cotton Carriers and Sponge Holders

Working length 60 cm

10380 AX **Suction Tube**, diameter 4 mm

Working length 55 cm

10380 AL **Suction Tube**, diameter 4 mm
10383 AL **Same**, with cut-off hole
10381 AL **Suction Tube**, with rubber tip, straight, diameter 4 mm
10390 LN **Coagulating Suction Tube**, insulated, with connector pin for unipolar coagulation, diameter 4 mm
10384 AL **Cotton Carrier**
10387 AL **Sponge Holder**, with spring handle

Working length 45 cm

10380 AM **Suction Tube**, diameter 4 mm
10381 AM **Suction Tube**, with rubber tip, straight, diameter 4 mm
10381 BL **Same**, diameter 2 mm
10382 AM **Same**, diameter 4 mm, curved
10383 AM **Suction Tube**, with cut-off hole, diameter 3 mm

Working length 35 cm

10380 CB **Suction Tube**, diameter 2 mm
10380 B **Same**, diameter 3 mm
10380 AK **Same**, diameter 4 mm
10383 B **Suction Tube**, with cut-off hole, diameter 3 mm
10383 BL **Same**, diameter 5.5 mm
10381 B **Suction Tube**, with rubber tip, straight, diameter 2 mm, working length 35 cm
10382 B **Same**, curved
10390 BN **Coagulation Suction Tube**, insulated, with connector pin for unipolar coagulation, diameter 3 mm
10384 B **Cotton Applicator**
10385 B **Sponge Holder**
10387 B **Sponge Holder**, with spring handle

Working length 30 cm

10383 DD **Suction Tube**, with cut-off hole, diameter 2 mm
10383 F **Same**, diameter 3 mm

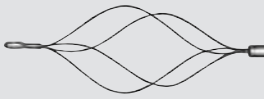
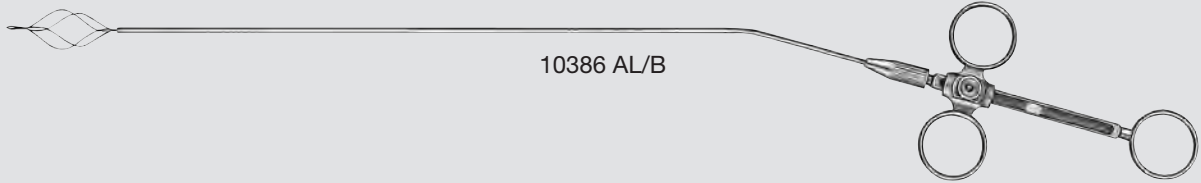
Working length 25 cm

10380 C **Suction Tube**, diameter 2 mm

Components/Spare Parts see chapter 16

Accessories for Esophagoscopy

Foreign Body Baskets



10386 AL

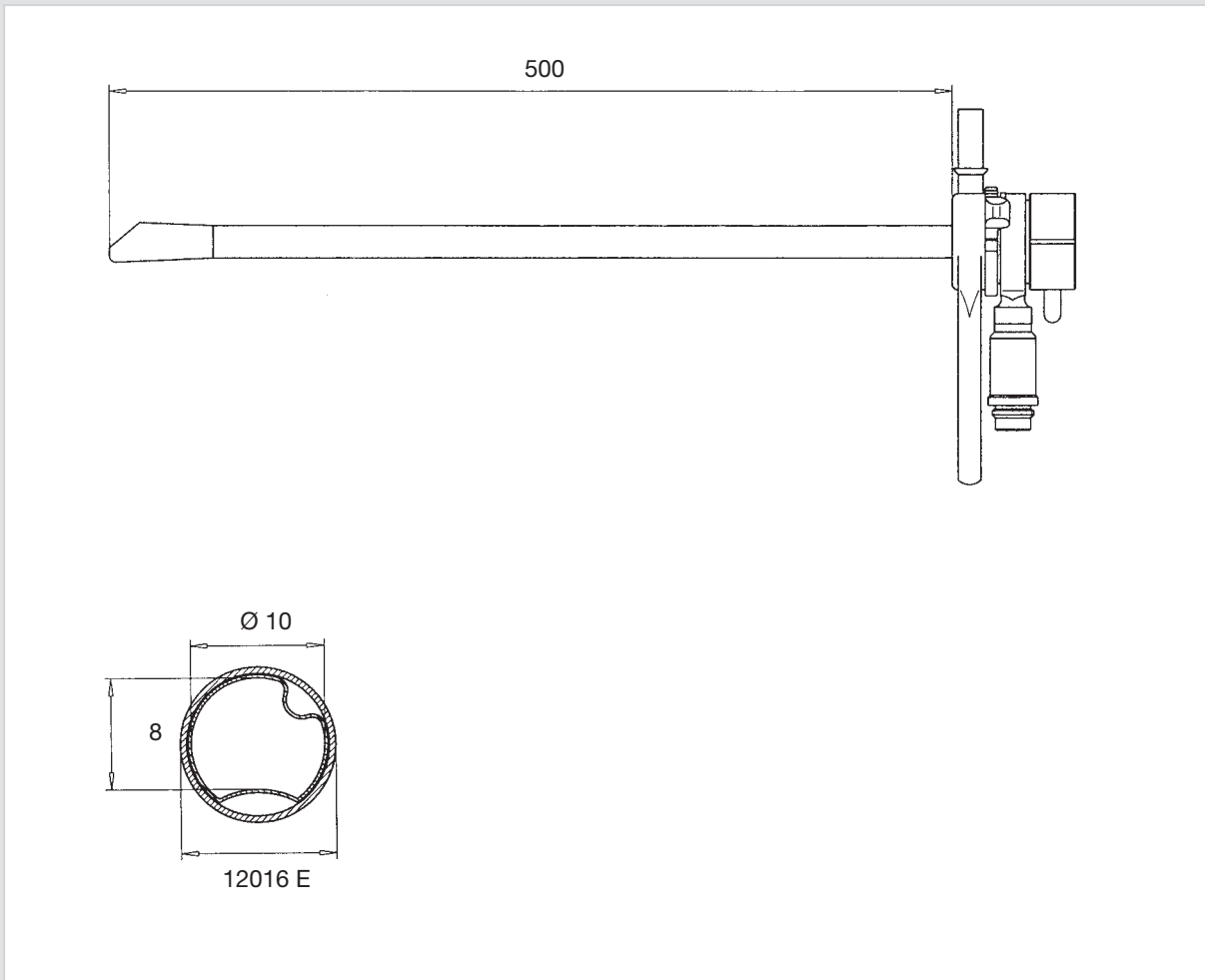
Foreign Body Basket, with ring handle,
working length 55 cm

10386 B

Same, working length 35 cm

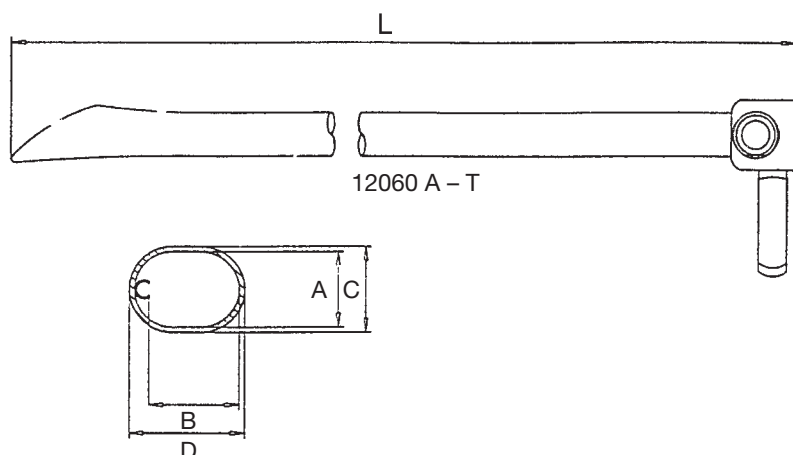
Components/Spare Parts see chapter 16

Dimensions of Esophagoscopes 12016 E



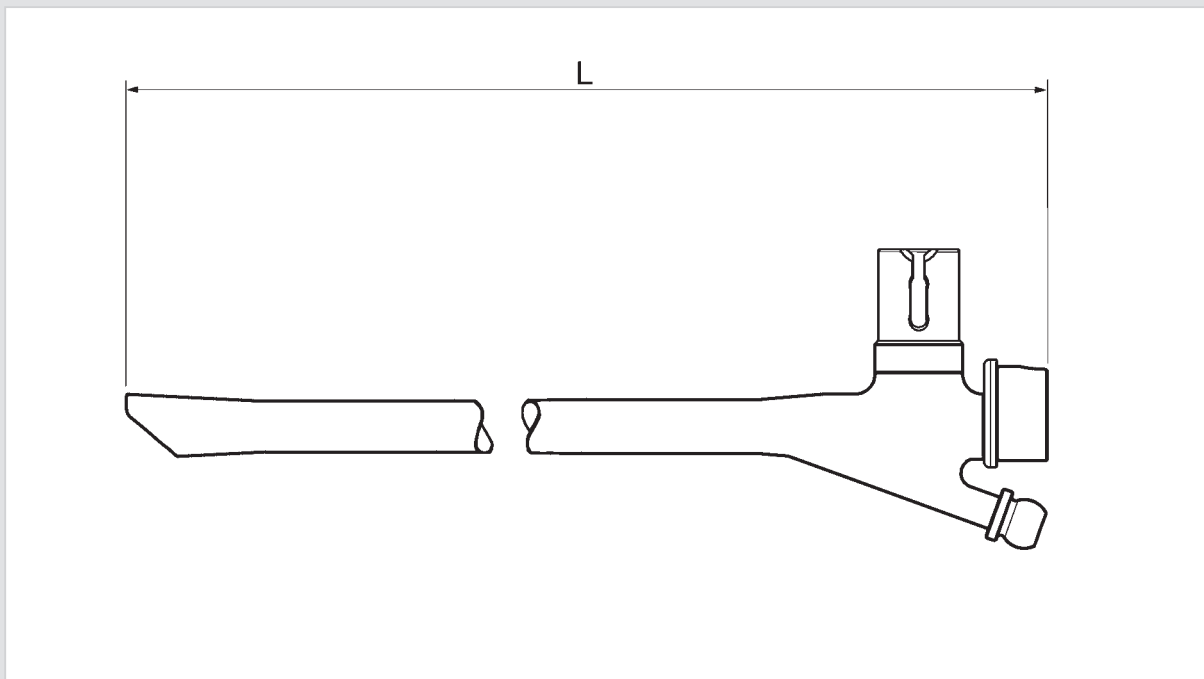
Cat. No.	Working Length	Outer Diameter Size	Telescopes	Optical Forceps
12016 E	50 cm	11	12015 AA	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA

Dimensions of Esophagoscopes 12060



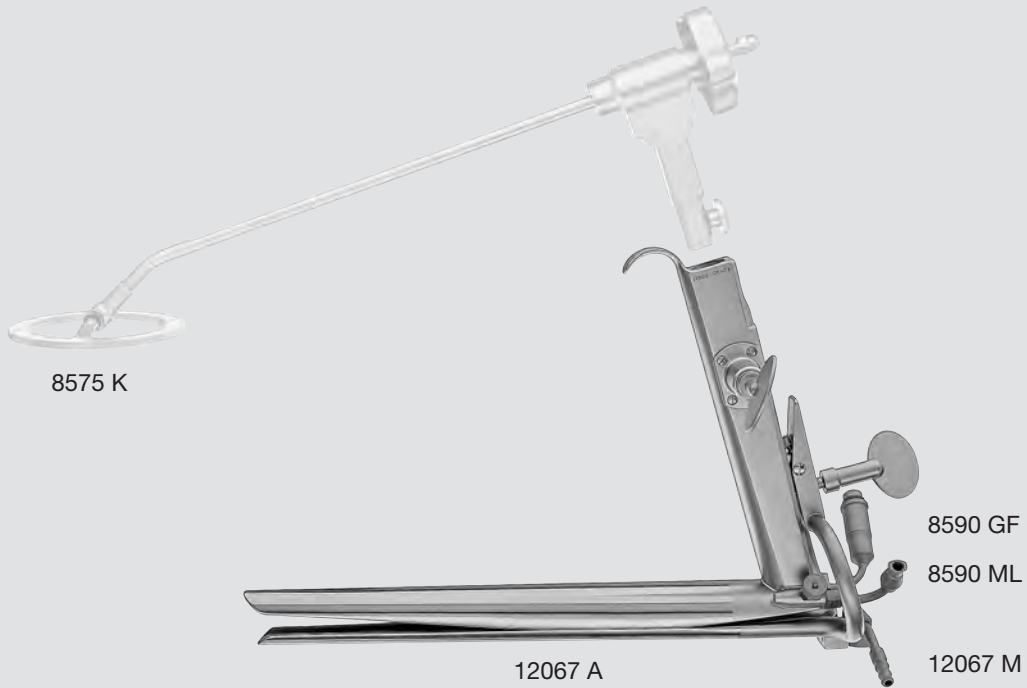
Cat. No.	Total Length - L -	Inner Diameter Size - A x B -	Outer Diameter Size - C x D -	Telescopes	Optical Forceps
12060 A	50 cm	11 x 12	12 x 16	12015 AA with 12016 X	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA
12060 AU	35 cm	11 x 12	12 x 16	12015 AA	
12060 AV	40 cm	11 x 12	12 x 16	12015 AA	
12060 AW	45 cm	11 x 12	12 x 16	12015 AA	
12060 AX	55 cm	11 x 12	12 x 16	12015 AA	-
12060 B	30 cm	11 x 12	12 x 16	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA
12060 C	50 cm	9 x 10	10 x 14	12015 AA with 12016 X	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA
12060 CV	40 cm	9 x 10	10 x 14	12015 AA	
12060 CX	55 cm	9 x 10	10 x 14	12015 AA	-
12060 D	30 cm	9 x 10	10 x 14	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA
12060 E	50 cm	7 x 8	8 x 12	12015 AA with 12016 X	12016 K, 12016 L, 12016 M, 12016 N, with 12015 AA
12060 EV	40 cm	7 x 8	8 x 12	12015 AA	
12060 F	30 cm	7 x 8	8 x 12	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 S, with 10324 AA
12060 H	30 cm	6 x 6	7 x 9	10324 AA	
12060 R	20 cm	11 x 12	12 x 16	10324 AA	
12060 S	20 cm	9 x 10	10 x 14	10324 AA	
12060 T	20 cm	7 x 8	8 x 12	10324 AA	

Dimensions of Esophagoscopes 12030

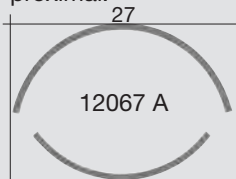


Cat. No.	Size	Total Length - L -	Telescopes	Optical Forceps
12030 A	6	30 cm	10324 AA	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 U, 10378 M, 10378 S, with 10324 AA
12030 B	5	30 cm	10324 AA	
12030 C	4	30 cm	10324 AA	
12030 F	3.5	18.5 cm	10020 ATA, 10018 AA	10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA
12030 G	3	18.5 cm	10018 AA	10374 HF, 10374 L with 10030 AA

WEERDA Distending Diverticuloscope for CO₂ LASER Technique

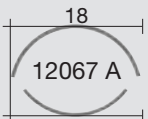


Outer dimensions in mm: 12067 A
proximal:



Spread: max. 40
min. 29

distal:



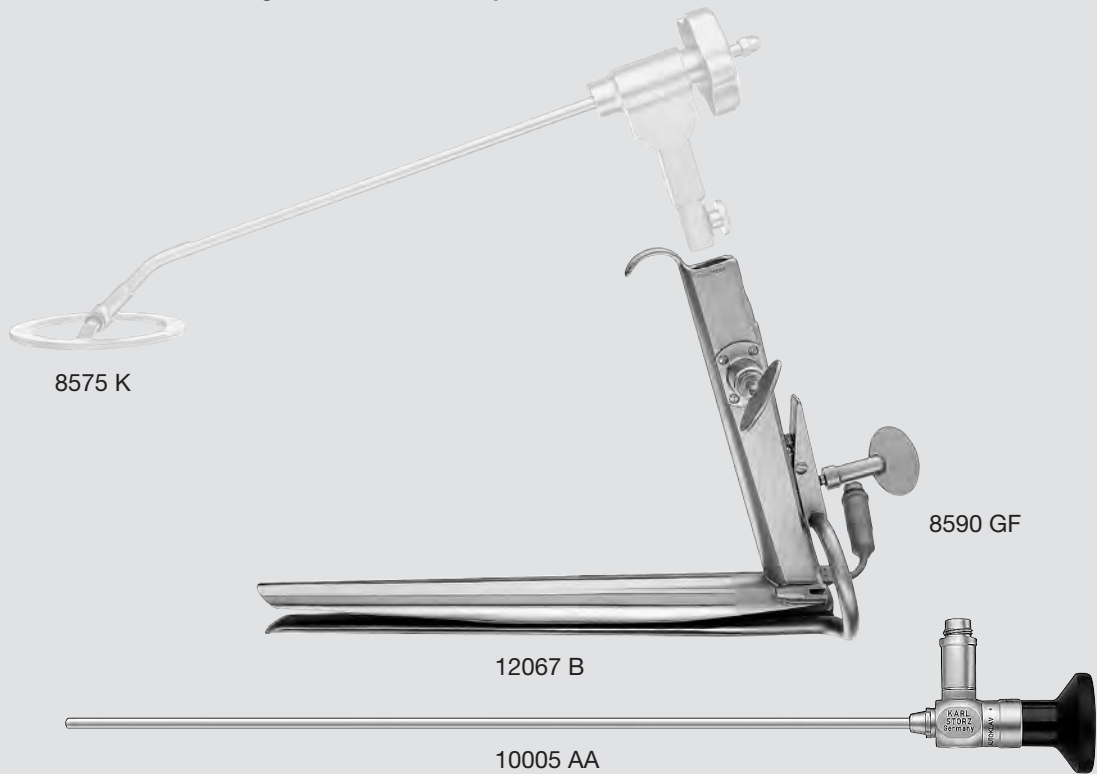
Spread: max. 65
min. 7

- | | |
|---------|---|
| 12067 A | WEERDA Distending Diverticuloscope , length 24 cm, with adaptor for Suction Tube 12067 M
Proximal size open: max. 40 x 27 mm
min. 29 x 27 mm
Distal size open: max. 65 x 18 mm
min. 7 x 18 mm |
| 8590 GF | Fiber Optic Light Carrier , for distal illumination, working length 14 cm |
| 8590 ML | Suction Tube , to remove vapor, for LASER treatment, outer diameter 3 mm |
| 12067 M | Suction Tube , to remove vapor, flat, size 6 x 3 mm |
| 8575 K | Laryngoscope Holder and Chest Support , GÖTTINGEN model, with adjustment wheel
including:
Support Rod , movable, with metal ring, diameter 9 cm, length 34 cm |
| | or |
| 8575 KC | BENJAMIN-PARSONS Laryngoscope Holder and Chest Support , GÖTTINGEN model, with adjustment wheel
including:
BENJAMIN-PARSONS Support Rod , movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm |

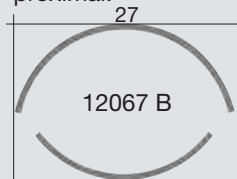
Components/Spare Parts see chapter 16

WEERDA Distending Diverticuloscope for Stapling Technique

For use with HOPKINS® II Straight Forward Telescope 10005 AA

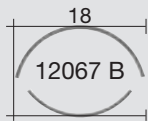


Outer dimensions in mm: 12067 B
proximal:



Spread: max. 40
min. 29

distal:



Spread: max. 65
min. 7

12067 B WEERDA **Distending Diverticuloscope**, length 24 cm, without adaptor for Suction Tube 12067 M

Proximal size open: max. 40 x 27 mm
min. 29 x 27 mm

Distal size open: max. 65 x 18 mm
min. 7 x 18 mm

10005 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

8590 GF **Fiber Optic Light Carrier**, for distal illumination, working length 14 cm

8575 K **Laryngoscope Holder and Chest Support**, GÖTTINGEN model, with adjustment wheel including:

Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm

or

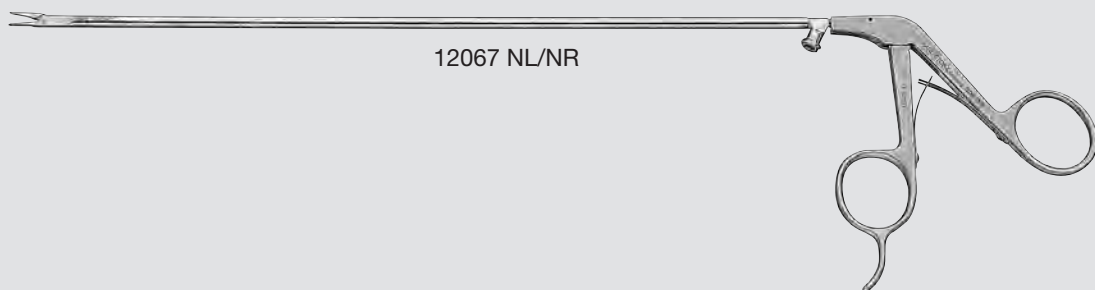
8575 KC **BENJAMIN-PARSONS Laryngoscope Holder and Chest Support**, GÖTTINGEN model, with adjustment wheel including:

BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

Components/Spare Parts see chapter 16

Instruments for Diverticulosopes

Clip Forceps



12067 NL

Clip Forceps, jaws curved to left, with cleaning connector, working length 30 cm, for use with Clip 8665 T



12067 NR

Same, jaws curved to right



8665 T

Clip, titanium LT 200, medium, 5 mm, sterile, package of 36 cartridges with 6 clips each, for use with Forceps 8665 L/R, 12067 NL/NR



**BRONCHOSCOPY
TRACHEOSCOPY**

Video Bronchoscope for Autofluorescence

for use with TELECAM SL II FI SCB 20213011U1

STORZ
KARL STORZ — ENDOSKOPE



11900 AP

Video Bronchoscope for Autofluorescence

for use with TELECAM SL II FI SCB 20 2130 11U1

11900 AP **Video Bronchoscope for Autofluorescence and White Light Diagnosis,**
color system **PAL**, including mounted Suction Unit 11900 AE, for use
with TELECAM SL II FI SCB **20 2130 11U1**

Working channel: 2.3 mm
Direction of view: 0°
Angle of view: 120°
Deflection up/down: 180°/100°
Depth of view: 3 – 50 mm
Working length: 61 cm
Outer diameter: 6.2 mm

Following accessories included:

27677 KV **Case**
20 2130 70 Video Connecting Cable
13272 **Mouthpiece**
11001 KL **Biopsy Forceps**, flexible, spoon-shaped, round, double
action jaws, diameter 1.8 mm, working length 120 cm
13242 LX **Leakage Tester**, with bulb and manometer
11025 XE **Pressure Compensation Cap**, for ventilation
during gas sterilization
27651 B **Cleaning Brush**, flexible, for working channel
diameter 1.8 – 2.6 mm, length 100 cm
13991 SS **Irrigation Tube**, for working channel
27656 B **Instrument Oil**, 50 ml, silicone-free
13990 SFN **Protective Film**

Optional accessories see pages 632-635

Further information and accessories for the video bronchoscope for autofluorescence
see chapter 13, FLUORESCENCE

Video Bronchoscope

for use with TELECAM SL II SCB 20 2130 11
and TELE PACK X 20 0450 01-EN

STORZ
KARL STORZ — ENDOSKOPE



11900 BP

3-111

Video Bronchoscope

for use with TELECAM SL II SCB 20 2130 11
and TELE PACK X 20 0450 01-EN

11900 BP **Video Bronchoscope**, color system **PAL**, including mounted
Suction Unit 11900 AE, for use with TELECAM® SL II 20 2130 11
and TELE PACK 20 0430 12-020

Working channel: 2.3 mm
Direction of view: 0°
Angle of view: 120°
Deflection up/down: 180°/100°
Depth of view: 3 – 50 mm
Working length: 61 cm
Outer diameter: 6.2 mm

Following accessories included:

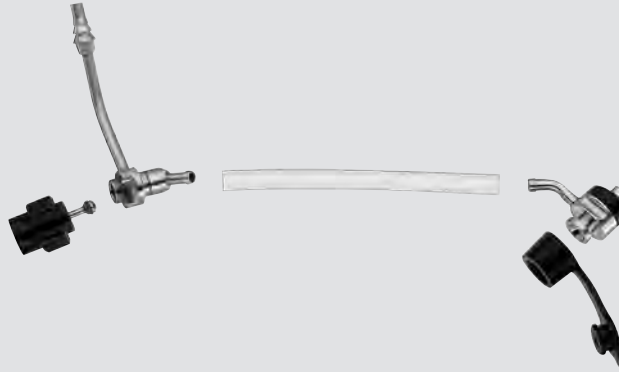
27677 KV **Case**
20 2130 70 **Video Connecting Cable**
13272 **Mouthpiece**
11001 KL **Biopsy Forceps**, flexible, spoon-shaped, round, double
action jaws, diameter 1.8 mm, working length 120 cm
13242 LX **Leakage Tester**, with bulb and manometer
11025 XE **Pressure Compensation Cap**, for ventilation
during gas sterilization
27651 B **Cleaning Brush**, flexible, for working channel
diameter 1.8 – 2.6 mm, length 100 cm
13991 SS **Irrigation Tube**, for working channel
27656 B **Instrument Oil**, 50 ml, silicone-free
13990 SFN **Protective Film**

Optional accessories see pages 632-635

Further camera systems and light sources suitable for use with video bronchoscopes
see catalog TELEPRESENCE

Video Bronchoscope

for use with TELECAM SL II SCB 20213011
and TELE PACK X 20 0450 01-EN



- 11900 AE **Suction Unit**, set for Video Bronchoscopes 11900 AP
and 11900 BP, **autoclavable**
including:
Suction Valve
Valve Adaptor
Connecting Cable, package of 10
Suction Cylinder
Rubber Leaflet Valve, package of 10

Please note:

Further instruments suitable for use with Video Bronchoscopes 11900 AP and 11900 BP
with diameter ≤ 1.8 mm, see pages 632-635

TELECAM camera systems see catalog TELEPRESENCE

Components/Spare Parts see chapter 16

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope

STORZ
KARL STORZ — ENDOSKOPE

TELE PACK X is a compact, portable and flexible system that can be used for a wide range of applications from the doctor's office through to the emergency room.

To enable swift and easy work, TELE PACK X combines all that is needed: monitor, camera and light source.

Crystal clear display

- 15" LCD display
- Image rotation
- 24-bit color intensity for natural color rendition
- DVI-D video output for connecting HD monitors

Flexible storage possibilities

- SD card slot for high storage capacity
- USB ports for external hard drives, USB flash drives and post-script printers
- Picture gallery for records
- Playback of saved videos
- Print-ready patient report documentation

Consideration has also been given to documentation: Integrated data management enables comprehensive recording of medical examinations or surgical interventions. Multiple USB ports and an SD card slot are available to store the data.

Natural illumination

- HiLux 50 Watt high-performance light source
- Natural colour rendition close to daylight with a color temperature of 5700 K
- Up to 1000 hours lamp operating time

Easy control combined with highest safety

- Membrane keyboard for wipe-down disinfection
- Hot keys for rapid and direct adjustment
- Arrow keys for intuitive control
- Connection socket for pedal control

Additional information

- Sturdy, portable housing
- Ergonomically designed handle for convenient transport
- Universal power supply unit: 100 – 240 VAC, 50/60 Hz
- Dimensions (w x h x d): 450 x 350 x 150 mm
- Weight: 7 kg



TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope



20 0450 01-EN

TELE PACK X – The Mobile Compact Solution

Documentation Terminal for Video Bronchoscope

20 0450 01-EN TELE PACK X

endoscopic video unit for use with TELECAM one-chip camera heads and video endoscopes, incl. 50 W HiLux light source, 15" LCD TFT screen, USB/SD memory module, color systems **PAL/NTSC**, with integrated Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

USB Silicone Keyboard, with touchpad, US character set

USB Flash Drive, 4 GB

Mains Cord

Mains Cord, US version

Optional accessories in use with video bronchoscopes:

20 0450 31 Light Adaptor for Video Endoscopes, for TELE PACK X in combination with KARL STORZ Video Bronchoscopes 11900 BP/BN and KARL STORZ video gastroscopes


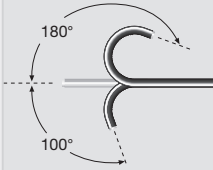

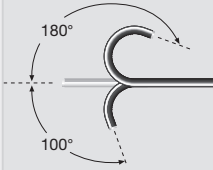

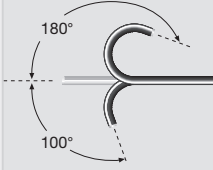

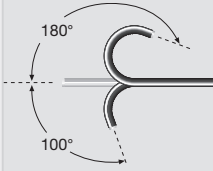

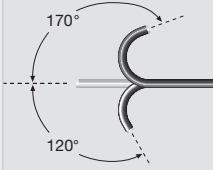

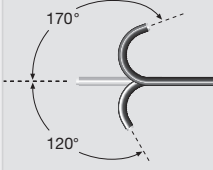
Specifications:

Power input	100 W	Image format	JPG
Power supply	100-240 VAC	Video codec	MPEG-4
Dimensions w x h x d	450 x 350 x 150	Video format	PAL/NTSC
Weight	7 kg	Storage interface	USB 2.0; SD-memory card (SDHC compatible)
Interfaces	<ul style="list-style-type: none">- Video interface: DVI-D (in/out)- Audio: 3.5 mm jack (1x side, 1x rear), Line in, Line out- Footswitch port: 5-pin socket for two-pedal footswitch- Printer port: USB- Printer control language: PostScript	TFT monitor	<ul style="list-style-type: none">- screen size: 15"- Resolution: 1024 x 768- Contrast: 700:1
Illumination	<ul style="list-style-type: none">- Lamp: Metal-halid 50 Watt- Color temperature 5700 K- Average life span: 1000 h	Loudspeaker	Power: 2 W

8-111

Components/Spare Parts see chapter 16

Broncho-Fiberscopes

Broncho-Fiberscopes	Art. No.		Deflection up/down	Direction of view	Angle of view	
6.4 mm x 54 cm Broncho-Fiberscope	11004 BC			0°	110°	
5.6 mm x 54 cm Broncho-Fiberscope	11009 BC			0°	110°	
5 mm x 54 cm Broncho-Fiberscope for Adults	11001 BN			0°	110°	
3.7 mm x 54 cm Broncho-Fiberscope for Children	11002 BD			0°	90°	
2.8 mm x 54 cm Broncho-Fiberscope	11003 BC			0°	90°	
2.8 mm x 70 cm Broncho-Fiberscope	11005 BC			0°	90°	








11-981

Broncho-Fiberscopes for Autofluorescence see chapter 13, FLUORESCENCE
Accessories included in delivery and optional accessories see pages 630-635

	Working length	Total length	Working channel inner diameter	Distal tip outer diameter	Accessories (included in delivery)						
					Case	Pressure Comp. Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
	54 cm	82 cm	2.8 mm	6.4 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	54 cm	82 cm	2.6 mm	5.5 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	54 cm	82 cm	2.3 mm	5.2 mm	27677 BB	11025 E	13242 XL	13272	27651 B	11001 KL	11002 KS
	54 cm	82 cm	1.5 mm	3.6 mm	27677 BB	11025 E	13242 XL	13272	27651 AL	11003 MA	11003 MB
	54 cm	82 cm	1.2 mm	2.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AK	11003 MA	11003 MB
	70 cm	98 cm	1.2 mm	2.5 mm	27677 BB	11025 E	13242 XL	13272	27651 AL	11003 MA	11003 MB

Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

Accessories included		Dia- meter	Length	for use with								
				11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP	
	11003 MB	Grasping Forceps , flexible, double action jaws	1 mm	110 cm	-	-	-	●	●	●	-	-
	11002 KS	Grasping Forceps , alligator, flexible, double action jaws	1.8 mm	120 cm	●	●	●	-	-	-	●	●
	11003 MA	Biopsy Forceps , oval, flexible, double action jaws	1 mm	110 cm	-	-	-	●	●	●	-	-
	11001 KL	Biopsy Forceps , spoon-shaped, round, flexible, double action jaws	1.8 mm	120 cm	●	●	●	-	-	-	●	●
	11025 E	Pressure Compensation Cap , for ventilation during gas sterilization			●	●	●	●	●	●	-	-
	11025 XE	Same			-	-	-	-	-	-	●	●
	13242 XL	Leakage Tester , with bulb and manometer			●	●	●	●	●	●	-	-
	13242 LX	Same			-	-	-	-	-	-	●	●
	13272	Mouthpiece			●	●	●	●	●	●	●	●

Accessories








for Broncho-Fiberscopes and Video Bronchoscopes

Accessories included			for use with							
			11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	27651 C	Cleaning Brush , round, flexible, outer diameter 4 mm, for working channel diameter 2.4 – 3.6 mm, length 230 cm	●	●	-	-	-	-	-	-
	27651 B	Cleaning Brush , flexible, round, outer diameter 3 mm, for working channel diameter 1.8 – 2.6 mm, length 100 cm	-	-	●	-	-	-	●	●
	27651 AL	Cleaning Brush , round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 150 cm	-	-	-	●	-	●	-	-
	27651 AK	Cleaning Brush , round, flexible, outer diameter 2 mm, for working channel diameter 1.2 – 1.8 mm, length 75 cm	-	-	-	-	●	-	-	-
	20213070	Video Connecting Cable	-	-	-	-	-	-	●	●
	13991 SS	Irrigation Tube	-	-	-	-	-	-	●	●
	27656 B	Instrument Oil , 50 ml, silicone-free	-	-	-	-	-	-	●	●
	13990 SFN	Protective Film	●	●	●	●	●	●	●	●

5-061





Optional Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

			for use with									
			Dia- meter	Length	11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	11002 KT	Grasping Forceps , alligator, round, flexible, double action jaws			1.8 mm	120 cm	●	●	●	-	-	-
	11002 KU	Grasping Forceps , spoon-shaped, serrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	-	-	-	●	●
	11002 KX	Grasping Forceps , alligator, serrated, 3x 4 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	-	-	-	●	●
	11002 KZ	Grasping Forceps , serrated, 1x 2 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	-	-	-	●	●
	11001 KM	Biopsy Forceps , spoon-shaped, round, with spike, fenestrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	-	-	-	●	●
	13250 KL	Biopsy Forceps , spoon-shaped, round, fenestrated, flexible, double action jaws	2.3 mm	120 cm	●	●	-	-	-	-	-	-
	13252 KS	Grasping Forceps , alligator, flexible, double action jaws	2.3 mm	120 cm	●	●	-	-	-	-	-	-








Optional Accessories

for Broncho-Fiberscopes and Video Bronchoscopes

		for use with							
		11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC	11900 AP	11900 BP
	10770 B Button Electrode , flexible, with connector pin for unipolar coagulation, diameter 1.7 mm, length 80 cm	●	●	●	-	-	-	●	●
	11007 BS Brush , for cytology, outer diameter 1.7 mm, working length 80 cm	●	●	●	-	-	-	●	●
	11007 E Brush , package of 10	●	●	●	-	-	-	●	●
	11008 Suction Catheter , 4.5 Fr., length 100 cm, with Adaptor 10479 F	●	●	●	-	-	-	●	●

Optional Accessories

for Broncho-Fiberscopes

			for use with					
			11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC
	11008 E	Catheter , 5 Fr., without adaptor	●	●	●	-	-	-
	10479 F	Adaptor , for Suction Catheter 10468 D, 10478 D and 11008 E	●	●	●	-	-	-
	11301 CA	Leaflet Valve , for single use, package of 20	●	●	●	●	●	●
	11301 CB	Suction Valve , reusable	●	●	●	●	●	●
	11301 CD	Irrigation Adaptor , for machine cleaning, reusable, for fiberscopes	●	●	●	●	●	●
	11301 CE	Suction Valve , for single use, package of 20	●	●	●	●	●	●
	11301 BM	Adaptor , for leakage test, for Belimed washer-disinfectors	●	●	●	●	●	●

Optional Accessories

for Broncho-Fiberscopes

		for use with					
		11004 BC	11009 BC	11001 BN	11002 BD	11003 BC	11005 BC
	11301 FF2 Adaptor for MIELE Cleaning Machines , with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes	•	•	•	•	•	•
	11301 GG2 Adaptor , for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer/disinfectors	•	•	•	•	•	•
	11301 HH Adaptor for BHT Cleaning Machines , for automatic leakage test of flexible KARL STORZ endoscopes	•	•	•	•	•	•
	11301 KK2 Adaptor , for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately!	•	•	•	•	•	•
	11301 D4 Battery Light Source LED for Endoscopes , with fast screw thread, brightness > 110 lm / > 150 klx, burning time > 120 min, weight approx. 150 g ready for use, suitable for wipe disinfection , with 2 Photo Batteries 121306 P	•	•	•	•	•	•
	121306 P Photo Battery , lithium, 3 V, CR 123 A						

3-11

Components/Spare Parts see chapter 16

UNIMAT® 30

Suction System

Special Features:

- High suction performance of 30 l/min
- Particularly low noise and vibration
- Fast vacuum build-up to 85 kPa
- Maintenance-free cylinder/piston system
- Very easy to use
- Hydrophobic bacterial filter protects pump
- Problem-free cleaning
- For use in the doctor's office or hospital



25 3200 01 UNIMAT® 30, Suction Pump Set,
power supply 230 VAC, 50/60 Hz
including:


- Bacterial Filter**
- Secretion Bottle, 2 l**
- Bottle Cap, with grip**
- Connecting Tube, short**
- Patient Tube**
- Overflow Case**
- Mains Cord, length 300 cm**
- VACUsafe Promotion Pack Suction***

25 3200 01C Same, power supply 115 VAC, 50/60 Hz

Specifications:

Suction performance	30 l/min
Vacuum	up to 85kPa, 640 mmHg
Power supply	115/230 VAC, 50/60 Hz
Dimensions w x h x d	245 x 345 x 282 mm
Weight	7 kg
Certified to	IEC 601-1, CE label acc. to MDD

Rated power/ power consumption	1A, 100 Watt (115 VAC) 0.45 A, 100 Watt (230 VAC)
Protection class	protection class I, BF, IPX 1
Inspections & certifications	MDD 93/42 EWG, EN 60601-1, EN 60601-1-2, EN 10079-1, ISO 9001, UL 2601-1

*  mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany




Optional accessories for UNIMAT® 30 see page 637

Components/Spare Parts see chapter 16




Optional Accessories

for UNIMAT® 30

Accessories

	for Bronchoscopy:	
	10432 N	Aspirator , for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters
	10432 T	Same , without cut-off hole
	25 3200 80	Bacterial Filter
	25 3200 81	Secretion Bottle , 2 l
	25 3200 82	Bottle Cap , with grip
	25 3200 85	Overflow Case
	25 3200 83	Connecting Tube , short
	25 3200 84	Patient Tube
	400 A	Mains Cord , length 300 cm
	29005 PH	Pump Holder , for attaching suction pump UNIMAT® 30 25 3200 01 to equipment cart, for mounting to 2 Equipment Rails 29003 GS

Single-use accessories from mtp*

	VACUsafe Canister , 1.5 l, 2 l and 3 l
	VACUsafe Suction Bag , 1.5 l, 2 l, 3 l, with filter for single use, color code: green
	Gelling Granulate , in 20 g bag
	VACUsafe Suction Tube , with red and blue multiadaptor for single use, unsterile, length 170 cm
	VACUsafe Connecting Tube , with green multiadaptors, unsterile, length 30 cm
	VACUsafe Canister Holder , for 25 x 10 mm and 34 x 8 mm rails

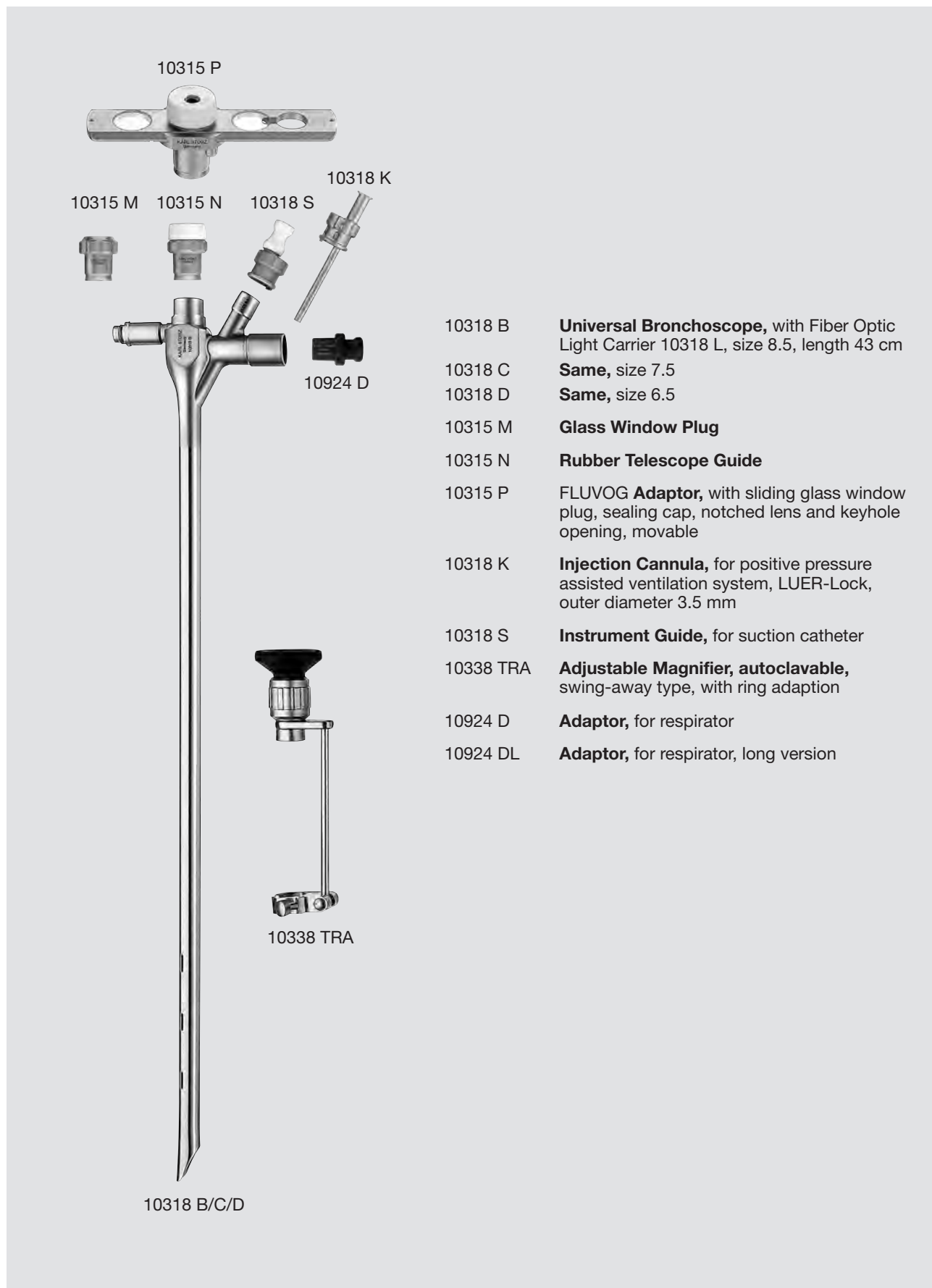
*



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Universal Bronchoscopes for Adults

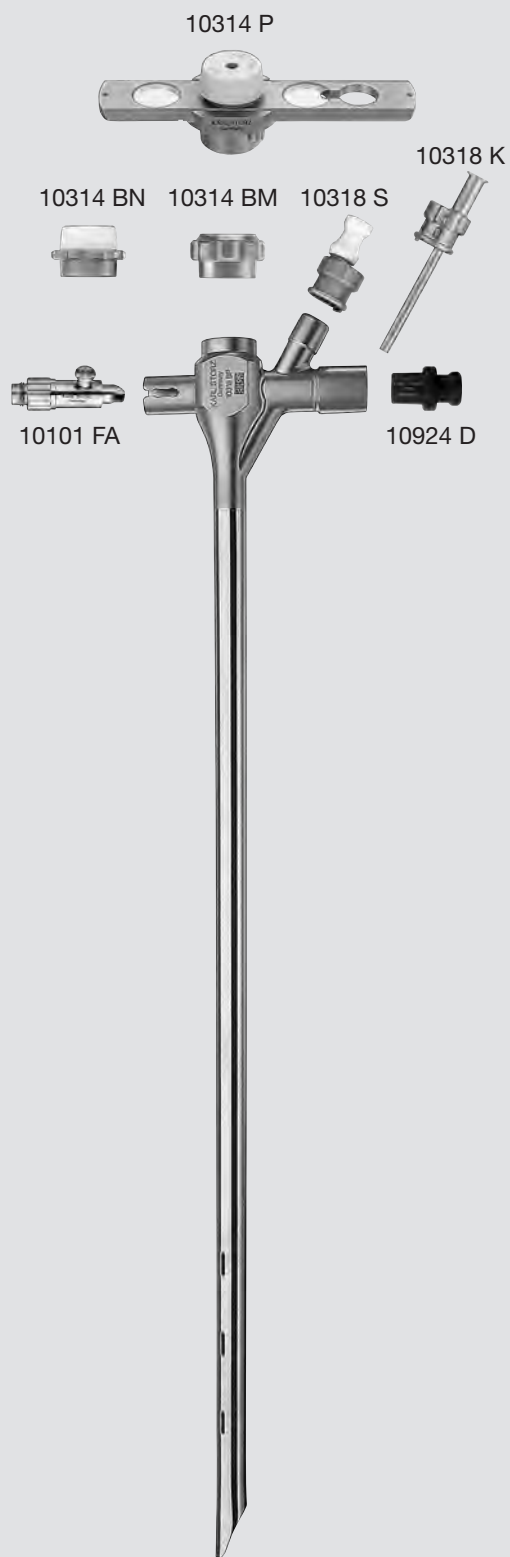
Standard model with fiber optic light carrier for distal illumination



- 10318 B **Universal Bronchoscope**, with Fiber Optic Light Carrier 10318 L, size 8.5, length 43 cm
- 10318 C **Same**, size 7.5
- 10318 D **Same**, size 6.5
- 10315 M **Glass Window Plug**
- 10315 N **Rubber Telescope Guide**
- 10315 P **FLUVOG Adaptor**, with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10338 TRA **Adjustable Magnifier**, autoclavable, swing-away type, with ring adaption
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version

Universal Bronchoscopes for Adults

with proximal illumination

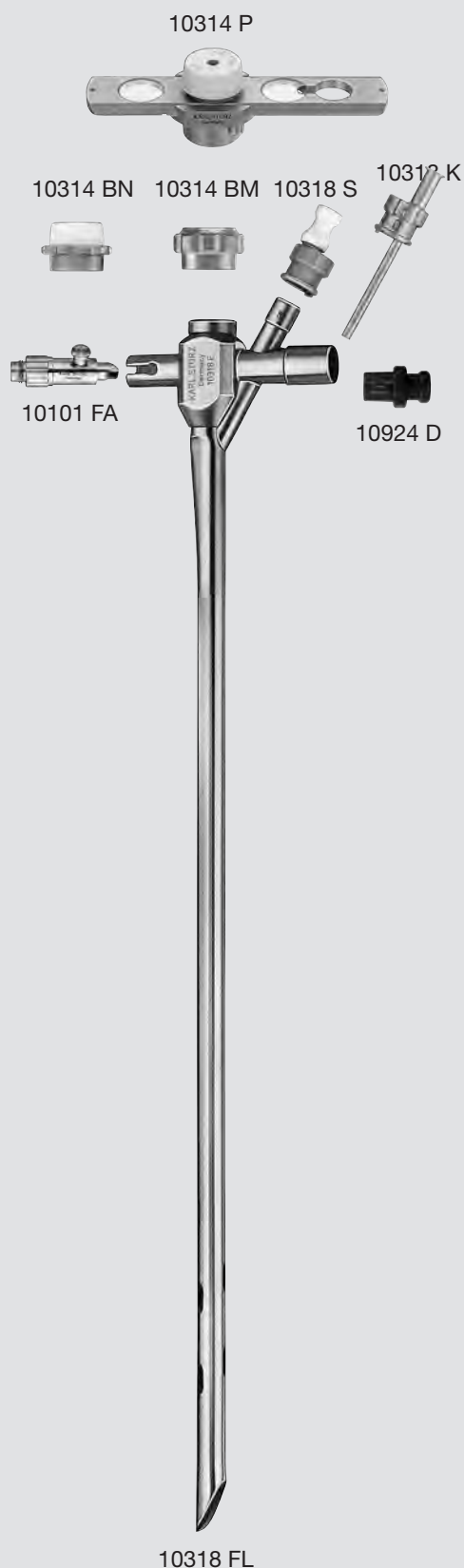


- 10318 BP **Bronchoscope Tube Universal**, without distal fiber optic light carrier, size 8.5, length 43 cm, for use with proximally insertable Prismatic Light Deflector 10101 FA
- 10318 CP **Same**, size 7.5
- 10318 DP **Same**, size 6.5
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P FLUVOG **Adaptor**, with observation window, cap with rubber seal and with window, adjustable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version

10318 BP/CP/DP

Full Lumen Operating Tracheo-Bronchoscopes

with proximal illumination

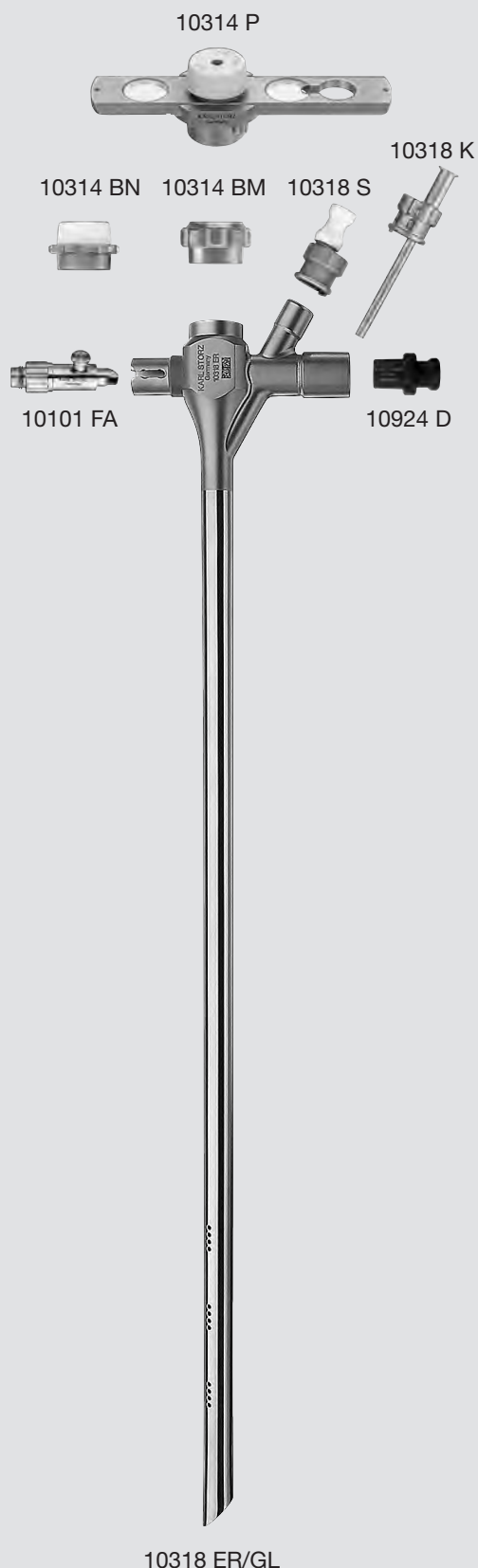


- 10318 F **Full Lumen Operating Tracheoscope,**
size 12 mm, length 33 cm
- 10318 FL **Full Lumen Operating Bronchoscope,**
size 12 mm, length 43 cm
- 10318 G **Full Lumen Operating Tracheoscope,**
size 14 mm, length 33 cm
- 10101 FA **Prismatic Light Deflector, autoclavable,**
with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P **FLUVOG Adaptor, with observation window,**
cap with rubber seal and with window,
adjustable
- 10318 K **Injection Cannula, for positive pressure**
assisted ventilation system, LUER-Lock,
outer diameter 3.5 mm
- 10318 S **Instrument Guide, for suction catheter**
- 10924 D **Adaptor, for respirator**
- 10924 DL **Adaptor, for respirator, long version**

Further tracheoscopes see chapter 10, LARYNGOSCOPY

Full Lumen Operating Tracheo-Bronchoscopes

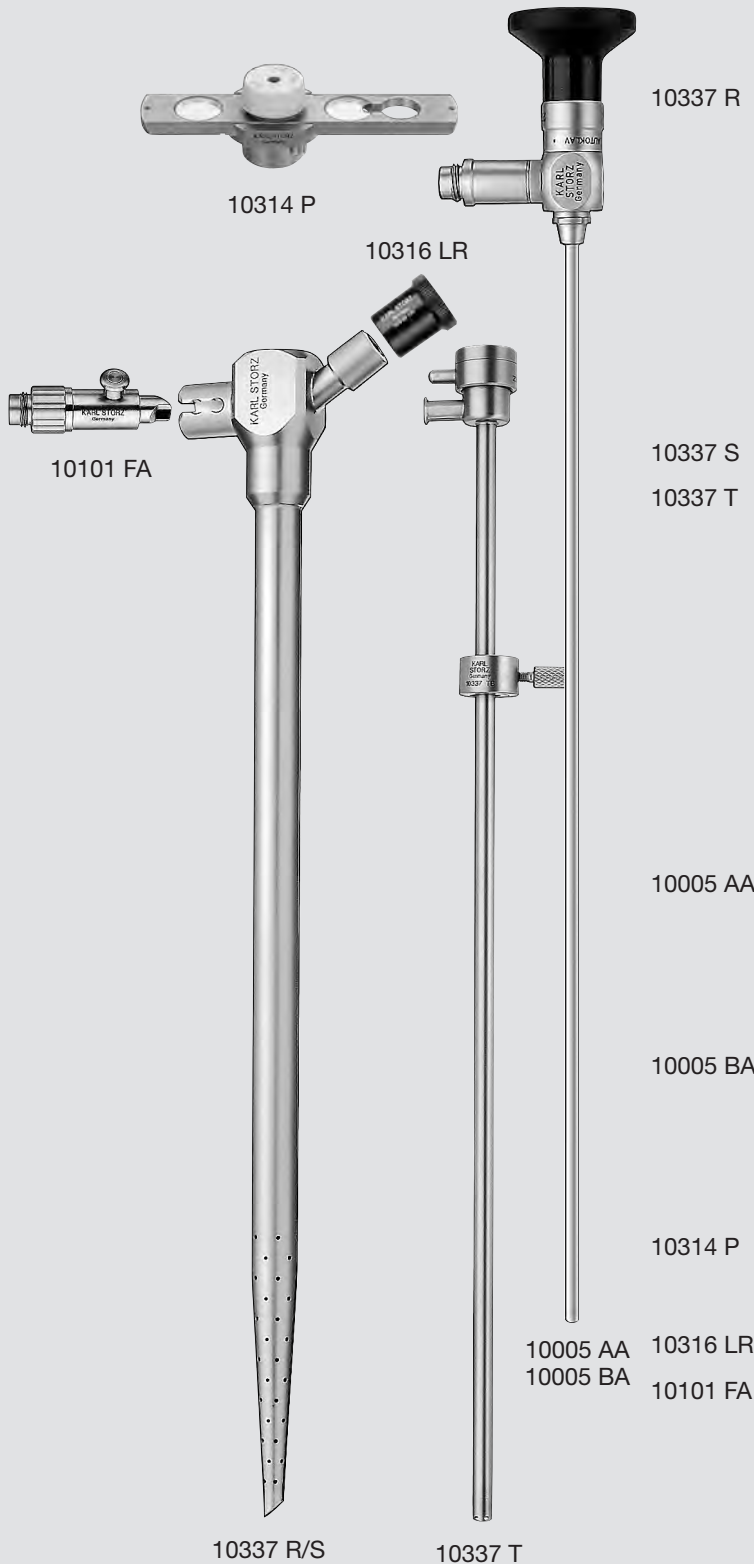
with proximal illumination



- 10318 ER **Full Lumen Operating Bronchoscope**, size 11 mm, length 43 cm, modified for application of stents, distal end with lateral airholes and 45° oblique beak, for use with Prismatic Light Deflector 10101 FA, color code: green
- 10318 GL **Same**, size 14 mm, color code: red
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10314 BM **Glass Window Plug**
- 10314 BN **Rubber Telescope Guide**
- 10314 P **FLUVOG Adaptor**, with observation window, cap with rubber seal and with window, adjustable
- 10318 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
- 10318 S **Instrument Guide**, for suction catheter
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version

Dilatation Tracheoscopes

GRONINGEN Model



10337 R **Optical Dilatation Tracheoscope**, GRONINGEN model, rigid, with distance markings, for dilation for stenosis and tumors in the upper trachea, distal tapered with lateral ventilation holes, proximal with attachment for oxygen, outer diameter 12 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA, Prismatic Light Deflector 10101 FA, Adaptor for Respirator 10316 LR and adjustable FLUVOG attachment, with window and Rubber Seal 10314 P

10337 S **Same**, outer diameter 8 mm

10337 T **Optical Intubation Tracheoscope**, GRONINGEN model including:
Sheath, for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA

Distance Ring, with fixation screw for length adjustment of the endotracheal tubes

10005 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10005 BA **HOPKINS® II Forward-Oblique Telescope 30°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

10314 P **FLUVOG Adaptor**, with observation window, cap with rubber seal and with window, adjustable

10316 LR **Adaptor**, for respirator

10101 FA **Prismatic Light Deflector**, **autoclavable**, with connection to fiber optic light cable

Components/Spare Parts see chapter 16

10320 AA

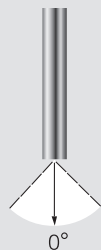


For use with Bronchoscopes 10318, Optical Forceps 10350 and Deflecting Device 10357

10320 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10320 BA **HOPKINS® Forward-Oblique Telescope 30°**, diameter 5.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

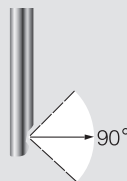
10320 DA **HOPKINS® Lateral Telescope 90°**, diameter 5.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: blue



10320 AA



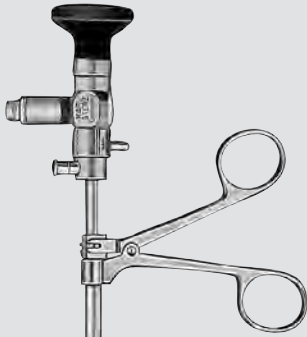
10320 BA



10320 DA

Telescopes for Autofluorescence and Photodynamic Diagnosis (PDD) see chapter 13, FLUORESCENCE

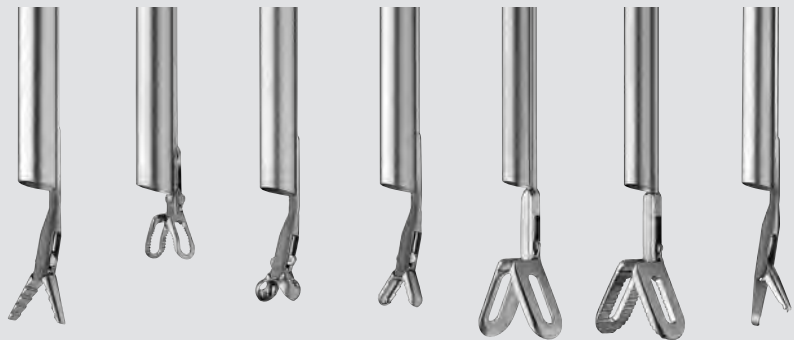
10320 AA/BA



10350 L

For use with HOPKINS® Telescopes 10320 AA/BA and Universal Bronchoscopes 10318 B – CP, size 8.5 to 7.5

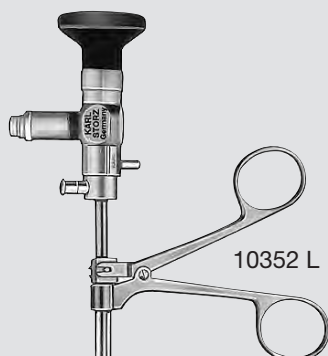
- 10350 HF **Optical Forceps**, alligator, for hard foreign bodies, large jaws, with spring-action handle
- 10350 KF **Optical Forceps**, for peanuts and soft foreign bodies, with spring-action handle
- 10350 L **Optical Forceps**, spoon-shaped, round, for biopsy
- 10350 U **Optical Forceps**, universal, for biopsy, for the removal of foreign bodies and denatured tissue
- 10350 M **Optical Forceps**, large jaws, sharp, for removing large fragments of tissue, for use with HOPKINS® Telescope 10320 AA
- 10350 MS **Optical Forceps**, large jaws, blunt, serrated, for removing large foreign bodies, for use with HOPKINS® Telescope 10320 AA
- 10350 ST **Optical Forceps**, for repositioning and removing stents, one fixed jaw



10350 HF 10350 KF 10350 L 10350 U 10350 M 10350 MS 10350 ST

Optical Forceps

10328 AA



10352 L

For use with HOPKINS® Telescope 10328 AA and Universal Bronchoscopes 10318 B – DP, size 8.5 to 6.5

- 10328 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 4.5 mm, length 50 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10352 H **Optical Forceps**, alligator, for hard foreign bodies
- 10352 KF **Optical Forceps**, for peanuts and soft foreign bodies, with spring-action handle
- 10352 L **Optical Forceps**, spoon-shaped, round, for biopsy
- 10352 U **Optical Forceps**, universal, for biopsy, for removal of foreign bodies and denatured tissue



10352 H



10352 KF



10352 L



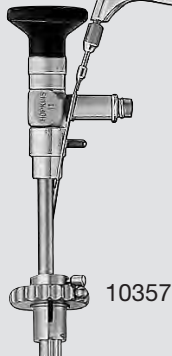
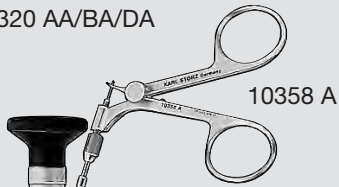
10352 U

Steerable Optical Instruments

for Biopsy

Working length 43 cm

10320 AA/BA/DA

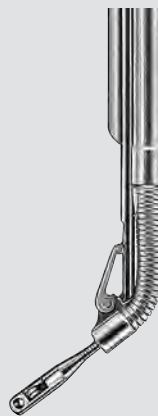


For use with Universal Bronchoscopes with distal illumination 10318 B/C, size 8.5 and 7.5 and HOPKINS® Telescopes 10320 AA/BA/DA

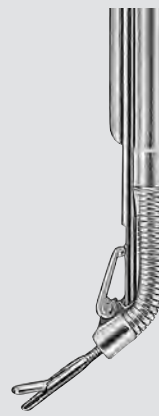
10357 **Deflecting Device**, with telescope guiding tube from proximal to distal end

Instruments for use with Deflecting Devices 10357:

10358 A **Flexible Forceps**, spoon-shaped, for biopsy, for removal of denaturated tissue, working length 60 cm



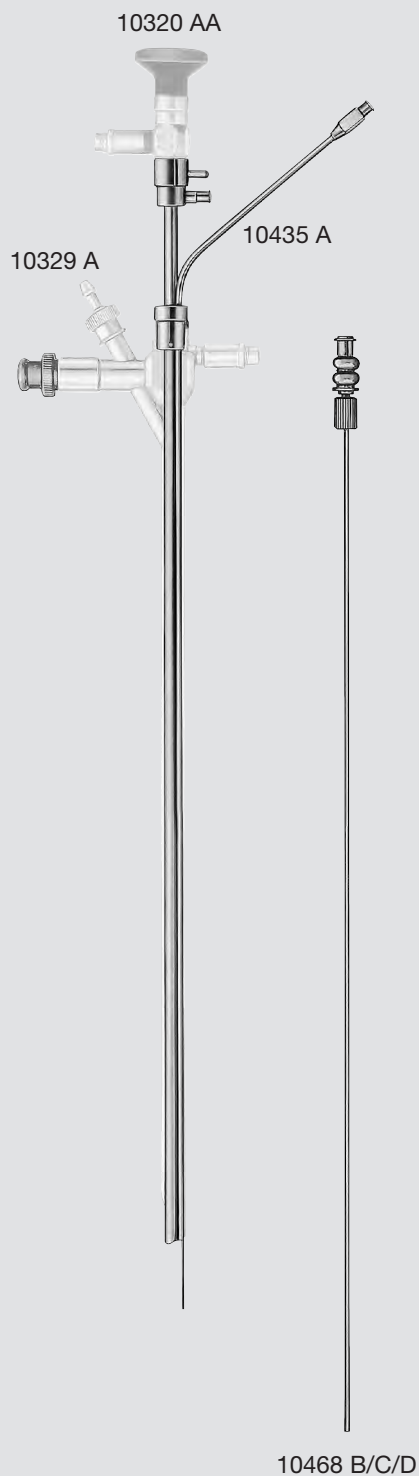
10357
10358 A



10357

Rigid Instrument Guide

with Antifog System,
Accessories



For use with HOPKINS® Telescope 10320 AA and Universal Bronchoscopes 10318 B – D, size 8.5 to 6.5

10329 A **Instrument Guide**, with A. F. (anti-fog) device, can be attached to bronchoscope

Instruments for use with HOPKINS® Telescope 10320 AA and Instrument Guide 10329 A

10435 A **Puncture Needle**, for puncture biopsy, diameter 1.4 mm, working length 48 cm, for histology

10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B

10468 C **Same**, 6 Fr., with Adaptor 10479 C

10468 D **Same**, 4.5 Fr., with Adaptor 10479 F

10478 D **Suction Catheter**, 5 Fr., only, package of 6

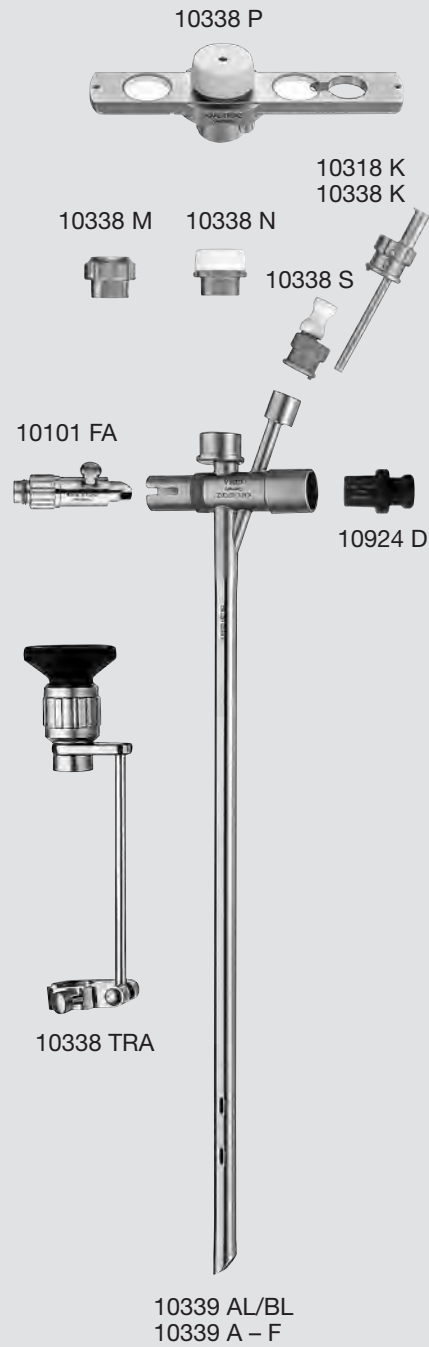
10479 B **Adaptor**, for Suction Catheter 10468 B/10478 B

10479 C **Same**, for Suction Catheter 10468 C/10478 C

10479 F **Same**, for Suction Catheter 10468 D/10478 D

Pediatric Bronchoscopes

with proximal illumination

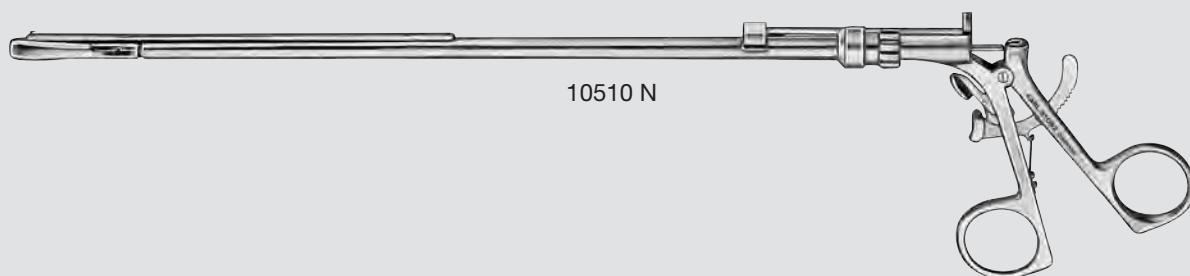


Pediatric Bronchoscopes

with proximal illumination

10339 AL	DOESEL-HUZLY Bronchoscope , size 6, length 40 cm
10339 BL	Same , size 5
10339 A	DOESEL-HUZLY Bronchoscope , size 6, length 30 cm
10339 B	Same , size 5
10339 BB	Same , size 4.5
10339 C	Same , size 4
10339 G	Same , size 3.7
10339 CD	Same , size 3.5
10339 EEE	Same , size 3
10339 CC	DOESEL-HUZLY Bronchoscope , size 4, length 26 cm
10339 GG	Same , size 3.7
10339 DD	Same , size 3.5
10339 EE	Same , size 3
10339 D	DOESEL-HUZLY Bronchoscope , size 3.5, length 18.5 cm
10339 E	Same , size 3
10339 F	Same , size 2.5
10101 FA	Prismatic Light Deflector, autoclavable , with connection to fiber optic light cable
10338 M	Glass Window Plug
10338 N	Rubber Telescope Guide , for use with telescopes and optical forceps
10338 P	FLUVOG Adaptor , with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable
10338 S	Guide Piece , for suction catheter, short, bronchoscope for children and infants
10338 TRA	Adjustable Magnifier, autoclavable , swing-away type, with ring adaption
10924 D	Adaptor , for respirator
10924 DL	Adaptor , for respirator, long version
10318 K	Injection Cannula , for positive pressure assisted ventilation system, LUER-Lock, outer diameter 3.5 mm
10338 K	Injection Cannula , for positive pressure assisted ventilation system, LUER-Lock, outer diameter 2.7 mm, for use with Bronchoscopes 10339 E/EE/F

FREITAG Stent Forceps



10510 N

FREITAG **Stent Forceps**, for the placement of dynamic stents including:

Handle, with ratchet

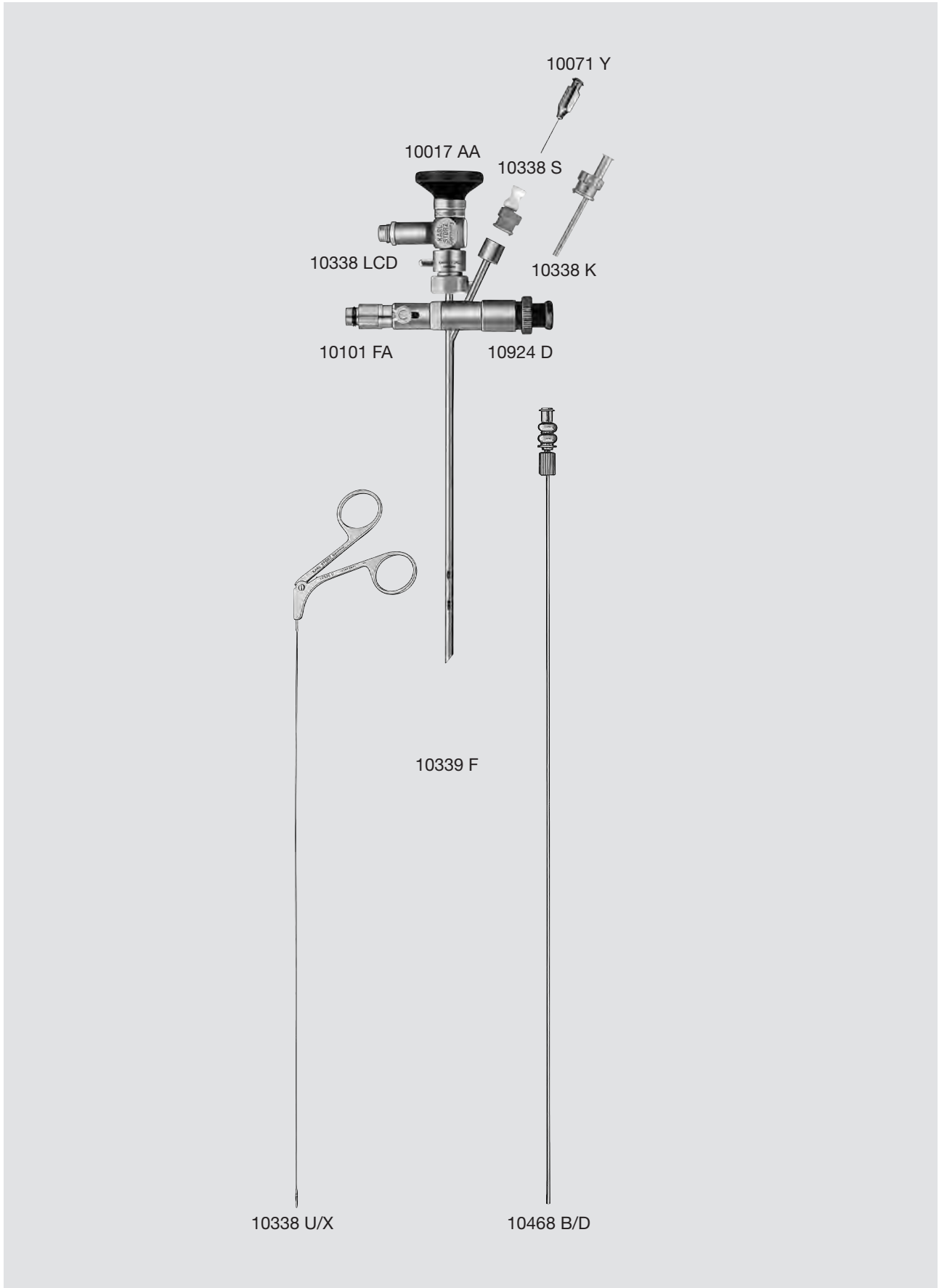
Outer Sheath

Forceps Insert

Pusher

Components/Spare Parts see chapter 16

Instrument Set for Neonates

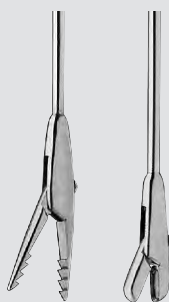


1-999

- 10339 F **DOESEL-HUZLY Bronchoscope**, size 2.5, length 18.5 cm
- 10101 FA **Prismatic Light Deflector, autoclavable**, with connection to fiber optic light cable
- 10017 AA **HOPKINS® II Straight Forward Telescope 0°**, diameter 1.9 and 2.1 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green
- 10338 LCD **Telescope Bridge**, for fixed position between bronchoscope and telescope
- 10071 Y **Injection Cannula**
- 10338 S **Guide Piece**, for suction catheter, short, bronchoscope for children and infants
- 10924 D **Adaptor**, for respirator
- 10924 DL **Adaptor**, for respirator, long version
- 10338 K **Injection Cannula**, for positive pressure assisted ventilation system, LUER-Lock, outer diameter 2.7 mm, for use with Bronchoscopes 10339 E/EE/F

For use with working channel of Bronchoscopes 10339 A/B/BB/C – G, under control of HOPKINS® Telescopes 10324 AA/10020 ATA/10018 AA/10017 AA

- 10338 U **Forceps**, alligator, spoon-shaped, single action jaws, semiflexible, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10338 X **Forceps**, spoon-shaped, for biopsy, single action jaws, semiflexible, width of jaws 1.2 mm, sheath diameter 1 mm, with cleaning connector, working length 35 cm
- 10468 B **Suction Catheter**, 7.5 Fr., with Adaptor 10479 B
- 10468 D **Suction Catheter**, 4.5 Fr., with Adaptor 10479 F



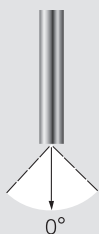
10338 U 10338 X



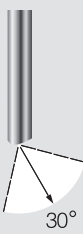
10338 LCD



10338 R/RK/RL



10018 AA
10020 ATA
10005 AA
10324 AA
10023 ABA



10324 BA

For use with 18.5 cm DOESEL-HUZLY Bronchoscopes 10339 D/E, telescope **can be fixed** in the bronchoscope when using Telescope Bridge 10338 LCD

10018 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.7 mm, length 18 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with 30 cm DOESEL-HUZLY Bronchoscopes 10339 A/B/BB/C/CD/G, telescope **can be fixed** in the bronchoscope when using Telescope Bridge 10338 LCD

10020 ATA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10005 AA **HOPKINS® II Straight Forward Telescope 0°**, enlarged view, diameter 4 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with 30 cm DOESEL-HUZLY Bronchoscopes 10339 A/B/BB/C/CD/G, telescope **adjustable** in the bronchoscope when using Rubber Telescope Guide 10338 N

10324 AA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

10324 BA **HOPKINS® II Forward-Oblique Telescope 30°**, diameter 2.9 mm, length 36 cm, **autoclavable**, fiber optic light transmission incorporated, color code: red

For use with 40 cm DOESEL-HUZLY Bronchoscopes 10339 AL/BL, telescope **adjustable** in the bronchoscope when using Rubber Telescope Guide 10338 N

10023 ABA **HOPKINS® Straight Forward Telescope 0°**, diameter 2.8 mm, length 44 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

For use with Telescopes 10017/10018/10020/10005 AA

10338 LCD **Telescope Bridge**, for fixed position between bronchoscope and telescope

For use with Telescope 10324 AA

10338 RK **Telescope Bridge**, for fixed position between HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A/B/BB/C/CD/EEE/G

10338 RL **Telescope Bridge**, for fixed position between HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 CC/DD/EE/GG

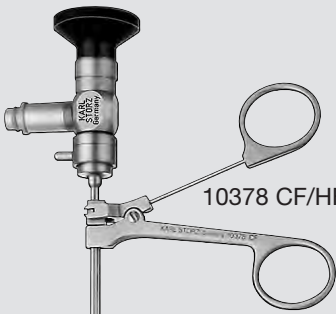
For use with Telescope 10005 AA

10338 R **Telescope Bridge**, for fixed position between HOPKINS® II Telescope 10005 AA and Bronchoscopes 10339 CC/GG

Optical Forceps and Scissors

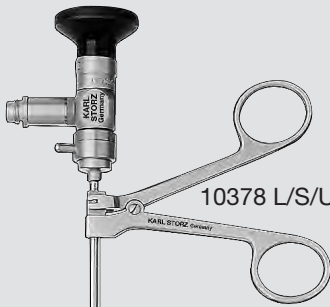
for Pediatric Bronchoscopes size 6 – 3.5, length 30 cm – 18.5 cm

10324 AA



10378 CF/HF/KF/KSF

10324 AA



10378 L/S/U/M

For use with HOPKINS® Telescope 10324 AA and Bronchoscopes 10339 A – CD

- 10378 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10378 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10378 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10378 KSF **Optical Forceps**, VANCOUVER model, for grasping peanut fragments and soft foreign bodies, with spring-action handle
- 10378 L **Optical Forceps**, spoon-shaped, for biopsy
- 10378 S **Optical Scissors**
- 10378 U **Optical Forceps**, universal, for biopsy and foreign bodies removal
- 10378 M **Optical Forceps**, spoon-shaped, oval, for biopsy, large model

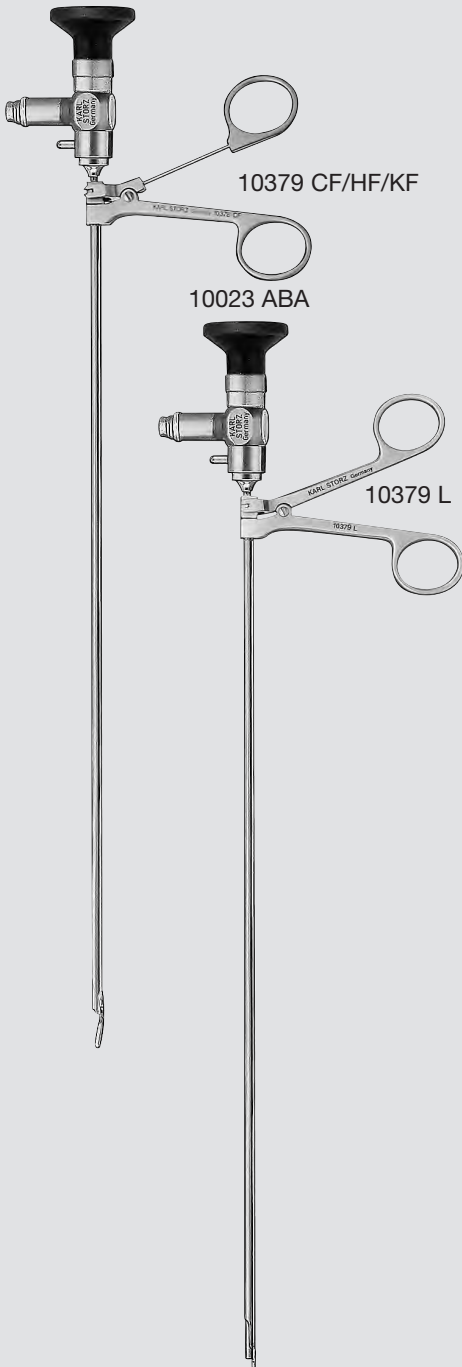


10378 CF 10378 HF 10378 KF 10378 KSF 10378 L 10378 S 10378 U 10378 M

Optical Forceps

for Pediatric Bronchoscopes size 6 and 5, length 40 cm

10023 ABA



10379 CF/HF/KF

10023 ABA

10379 L

For use with HOPKINS® Telescope 10023 ABA and Bronchoscopes 10339 A – CD

- 10379 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10379 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10379 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10379 L **Optical Forceps**, spoon-shaped, for biopsy



10379 CF

10379 HF

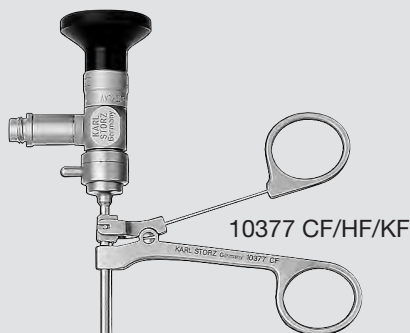
10379 KF

10379 L

Optical Forceps

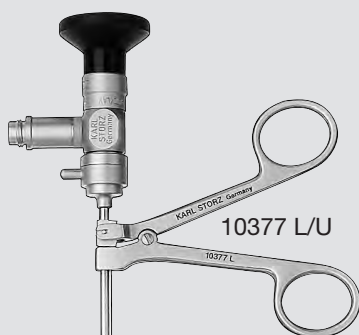
for Pediatric Bronchoscopes size 4 – 3.5, length 26 cm – 18.5 cm

10020 ATA



10377 CF/HF/KF

10020 ATA



10377 L/U

For use with HOPKINS® Telescope 10020 ATA and Bronchoscopes 10339 CC/GG/DD/D

- 10377 CF **Optical Forceps**, 2 x 2 teeth, for grasping coins and flat foreign bodies, with spring-action handle
- 10377 HF **Optical Forceps**, alligator, for grasping hard foreign bodies, with spring-action handle
- 10377 KF **Optical Forceps**, with KILLIAN bean jaws, for grasping peanuts and soft foreign bodies, with spring-action handle
- 10377 L **Optical Forceps**, spoon-shaped, for biopsy
- 10377 U **Optical Forceps**, universal, for biopsy and foreign bodies removal



10377 CF

10377 HF

10377 KF

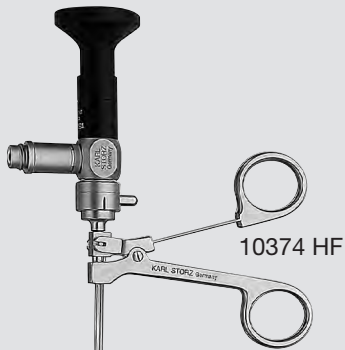
10377 L

10377 U

Optical Forceps

for Pediatric Bronchoscopes size 4 – 2.5, length 26 cm – 18.5 cm

10030 AA



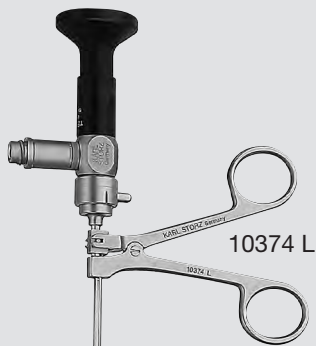
For use with Bronchoscopes 10339 CC/GG/DD/EE/D/E/F

10030 AA **Miniature Straight Forward Telescope 0°**, semirigid, autoclavable, fiber optic light transmission incorporated
Direction of view: 0°
Angle of view: 90°
Working length: 30.6 cm
Outer diameter: 1.3 mm
Color code: green

10374 HF **Optical Forceps**, with alligator jaws, for grasping hard foreign bodies, with spring-action handle

10374 L **Optical Forceps**, spoon-shaped, for biopsy

10030 AA



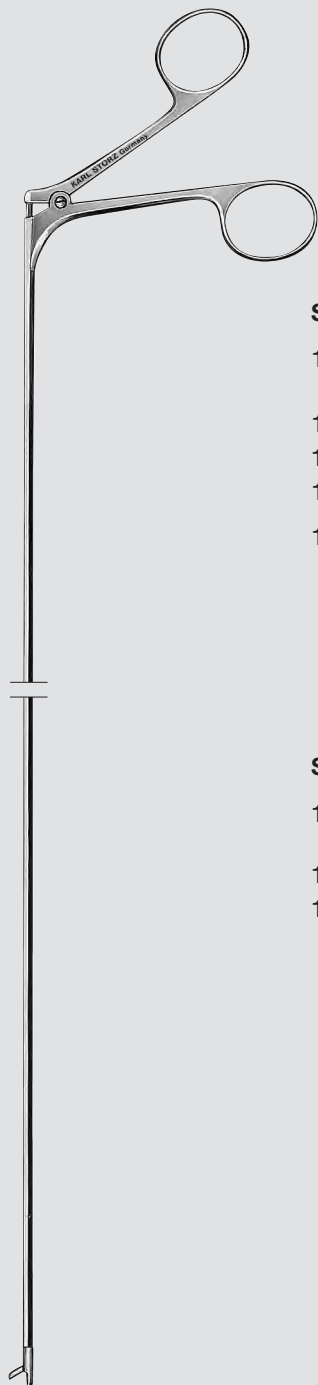
10374 HF



10374 L

Forceps and Scissors for Bronchoscopy

single action jaws



Sheath diameter 2.5 mm, working length 50 cm

- 10366 H **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 50 cm
- 10366 K **Same**, for peanuts and soft foreign bodies
- 10366 L **Same**, spoon-shaped, round, for biopsy
- 10366 U **Same**, universal, for biopsy and foreign bodies removal
- 10366 S **Scissors**, straight, for trituration of bone fragments

Sheath diameter 2.5 mm, working length 35 cm

- 10367 H **Forceps**, alligator, for hard foreign bodies, single action jaws, sheath diameter 2.5 mm, working length 35 cm
- 10367 K **Same**, for peanuts and soft foreign bodies
- 10367 L **Same**, spoon-shaped, round, for biopsy



10366 H
10367 H



10366 K
10367 K



10366 L
10367 L



10366 U



10366 S

Forceps for Bronchoscopy

double action jaws



Sheath diameter 2.5 mm, working length 50 cm

- 10370 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2.5 mm, working length 50 cm
- 10370 J **Same**, pointed, serrated, for coins and flat foreign bodies
- 10370 K **Same**, for peanuts and soft foreign bodies
- 10370 L **Same**, spoon-shaped, round, for biopsy
- 10370 P **Same**, with oval cupped jaws, fenestrated, for biopsy and foreign bodies
- 10370 U **Same**, universal, for biopsy and foreign bodies removal



10370 H



10370 J



10370 K



10370 L



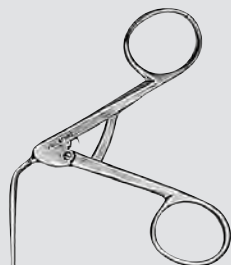
10370 P



10370 U

Forceps for Bronchoscopy

double action jaws



Sheath diameter 2 mm, working length 45 cm

- 10371 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 45 cm
- 10371 KL **Same**, for peanuts and soft foreign bodies
- 10371 LL **Same**, spoon-shaped, round, for biopsy
- 10371 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 2 mm, working length 35 cm

- 10371 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 2 mm, working length 35 cm
- 10371 J **Same**, pointed, serrated, for coins and flat foreign bodies
- 10371 K **Same**, for peanuts and soft foreign bodies
- 10371 L **Same**, spoon-shaped, round, for biopsy
- 10371 P **Same**, spoon-shaped, oval, fenestrated, for biopsy and foreign bodies removal
- 10371 U **Same**, universal, for biopsy and foreign bodies removal



10371 HL
10371 H



10371 J



10371 KL
10371 K



10371 LL
10371 L



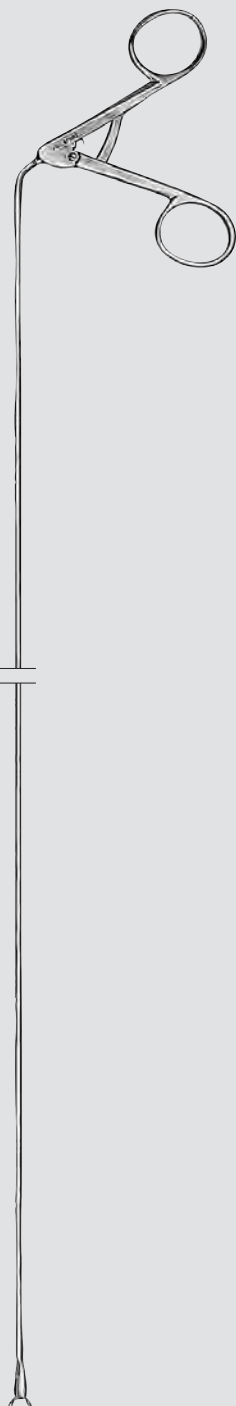
10371 P



10371 UL
10371 U

Forceps for Bronchoscopy

double action jaws



Sheath diameter 1.5 mm, working length 35 cm

- 10372 HL **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 35 cm
- 10372 JL **Same**, pointed, serrated, for coins and flat foreign bodies
- 10372 KL **Same**, for peanuts and soft foreign bodies
- 10372 LL **Same**, spoon-shaped, round, for biopsy
- 10372 UL **Same**, universal, for biopsy and foreign bodies removal

Sheath diameter 1.5 mm, working length 25 cm

- 10372 H **Forceps**, alligator, for hard foreign bodies, double action jaws, sheath diameter 1.5 mm, working length 25 cm
- 10372 K **Same**, for peanuts and soft foreign bodies



10372 HL
10372 H



10372 JL



10372 KL
10372 K



10372 LL



10372 UL

Accessories for Bronchoscopy

Suction Tubes, Cotton Carriers, Sponge Holders and Catheters

10380 A - H

10383 A - F

10381 A - B

10382 A - B

10390 AN/BN

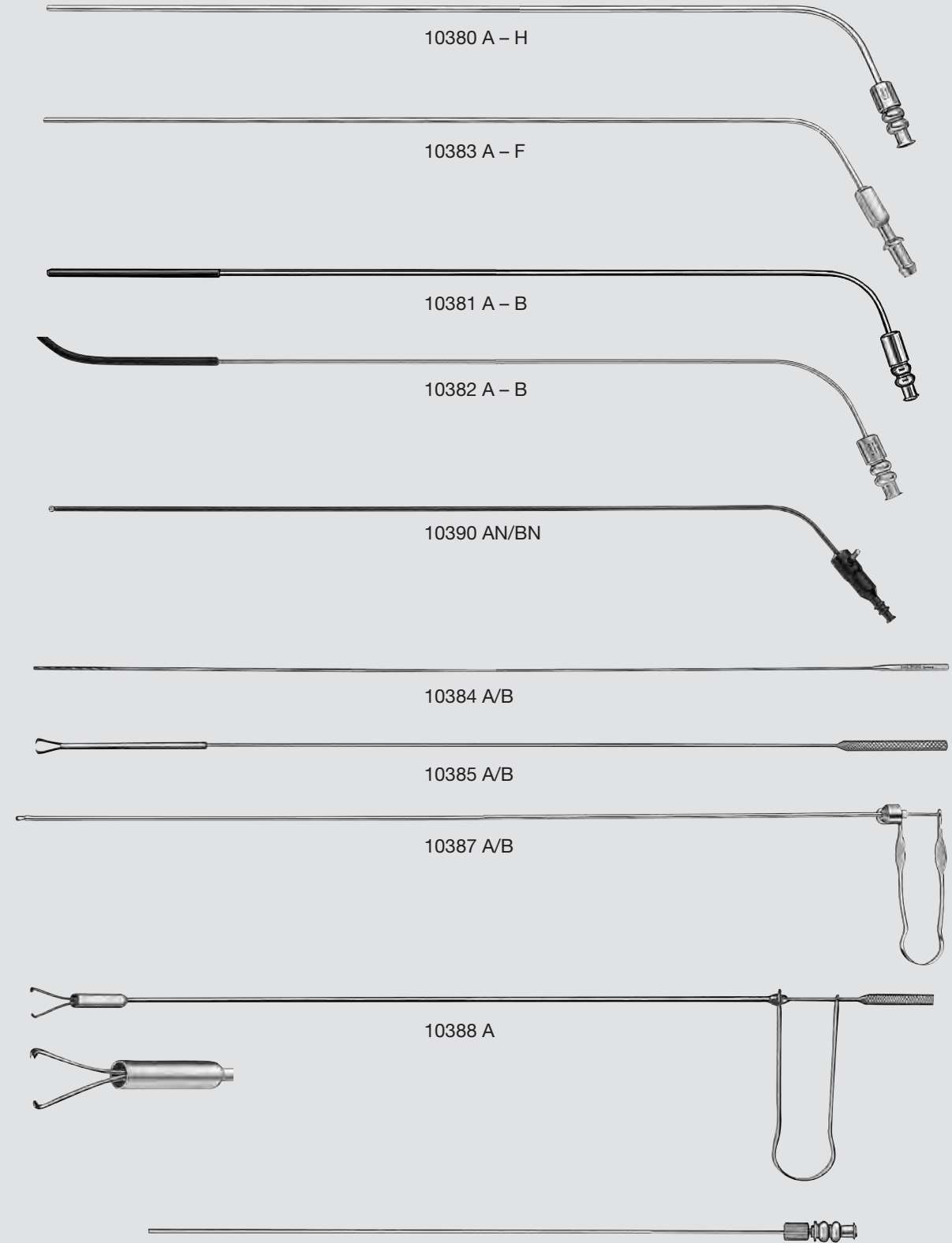
10384 A/B

10385 A/B

10387 A/B

10388 A

10468 B/C/D



Description of instruments see page 663

Accessories for Bronchoscopy

Suction Tubes, Cotton Carriers, Sponge Holders and Catheters

Working length 50 cm

10380 A	Suction Tube , diameter 4 mm
10380 D	Same , diameter 2.5 mm
10380 H	Same , diameter 5 mm
10383 A	Suction Tube , with cut-off hole, diameter 4 mm
10381 A	Suction Tube , with rubber tip, straight, diameter 4 mm
10382 A	Same , curved
10390 AN	Coagulating Suction Tube , insulated, with connector pin for unipolar coagulation, diameter 4 mm
10384 A	Cotton Applicator
10385 A	Sponge Holder
10387 A	Sponge Holder , with spring handle
10388 A	Sponge Holder , for sterile smears

Working length 35 cm

10380 AK	Suction Tube , diameter 4 mm
10380 B	Same , diameter 3 mm
10380 CB	Same , diameter 2 mm
10383 B	Suction Tube , with cut-off hole, diameter 3 mm
10383 BL	Same , diameter 5.5 mm
10381 B	Suction Tube , with rubber tip, straight, diameter 2 mm, working length 35 cm
10382 B	Same , curved
10390 BN	Coagulation Suction Tube , insulated, with connector pin for unipolar coagulation, diameter 3 mm
10384 B	Cotton Applicator
10385 B	Sponge Holder
10387 B	Sponge Holder , with spring handle

Working length 30 cm

10383 DD	Suction Tube , with cut-off hole, diameter 2 mm
10383 F	Same , diameter 3 mm

Working length 25 cm

10380 C	Suction Tube , diameter 2 mm
10383 C	Suction Tube , with cut-off hole, diameter 2 mm
10383 CC	Same , diameter 1 mm
10383 D	Same , diameter 3 mm
10383 E	Same , diameter 4 mm

For use through the working channel under control of HOPKINS® telescope:

10468 B	Suction Catheter , 7.5 Fr., with Adaptor 10479 B
10468 C	Same , 6 Fr., with Adaptor 10479 C
10468 D	Same , 4.5 Fr., with Adaptor 10479 F

Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Instruments for aspiration, irrigation and puncture biopsy

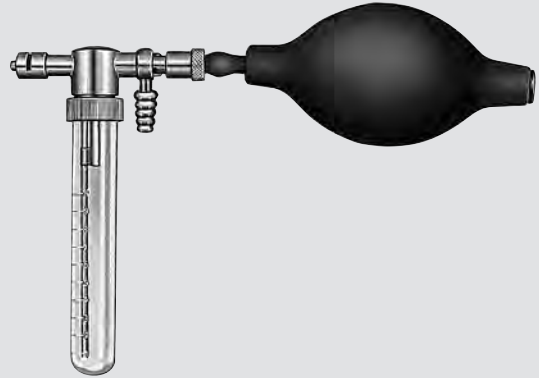


10432 ED



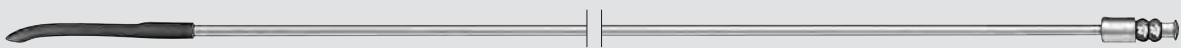
10432 N/T

10434 V



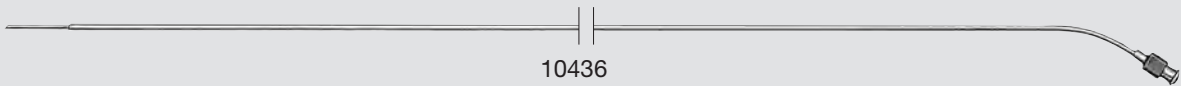
10434

- 10432 N **Aspirator**, for collecting secretions, with cut-off hole, with Spare Glass 10432 E, can be connected to suction tubes or suction catheters
- 10432 T **Same**, without cut-off hole
- 10432 ED **Collection Device**, plastic, for single use, with lid, package of 100, for use with HUZLY Aspirator and Bronchus Irrigator 10434 and Intermediate Ring 10434 Z
- 10434 **HUZLY Aspirator and Bronchus Irrigator**, with Graduated Container 10455 A and Rubber Bulb 437000. After switching manifold from "Irrigation" to "Suction", the injected irrigation fluid is immediately withdrawn again together with the bronchial secretion



10434 A/B

- 10434 A **Suction Tube**, diameter 4 mm, length 50 cm, for use with HUZLY Aspirator and Bronchus Irrigator 10434
- 10434 B **Same**, diameter 3 mm, length 35 cm



10436

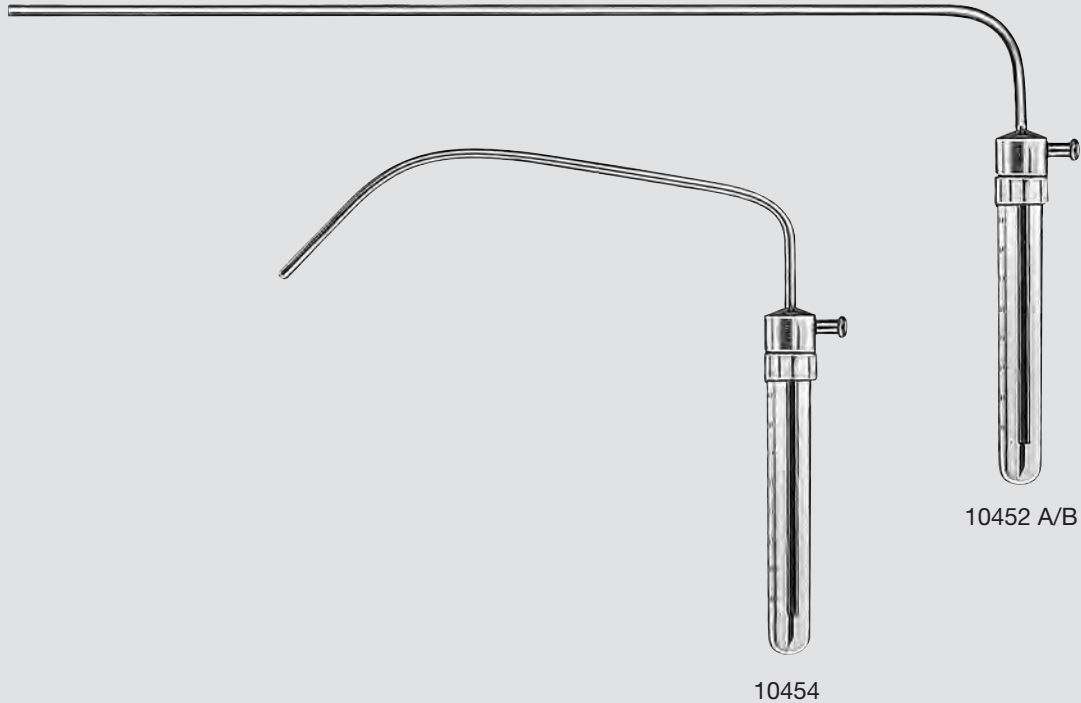


- 10436 **Aspiration Biopsy Needle**, for transbronchial biopsy, distal straight, diameter 1.6 mm, working length 47 cm
- 10438 **Same**, distally angled

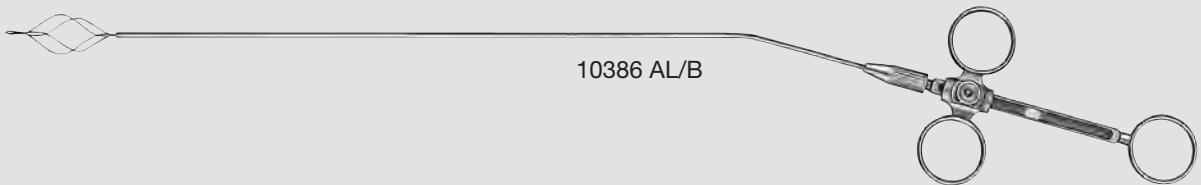
Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Atomizers, Foreign Body Baskets and Brushes



- 10452 A **Bronchial Atomizer**, with Graduated Container 10455 A and Rubber Bulb 437000, length 50 cm
- 10452 B **Same**, length 40 cm
- 10454 **Laryngeal Atomizer**, with Graduated Container 10455 A and Rubber Bulb 40924 H
- 10455 A **Graduated Container, autoclavable**, for HUZLY Aspirator and Bronchus Irrigator 10434, Bronchial Atomizer 10452 A/B and Rubber Bulb 10454



- 10386 AL **Foreign Body Basket**, with ring handle, working length 55 cm
- 10386 B **Same**, working length 35 cm

3-11

Components/Spare Parts see chapter 16

Accessories for Bronchoscopy

Antifog Solution



15006 B



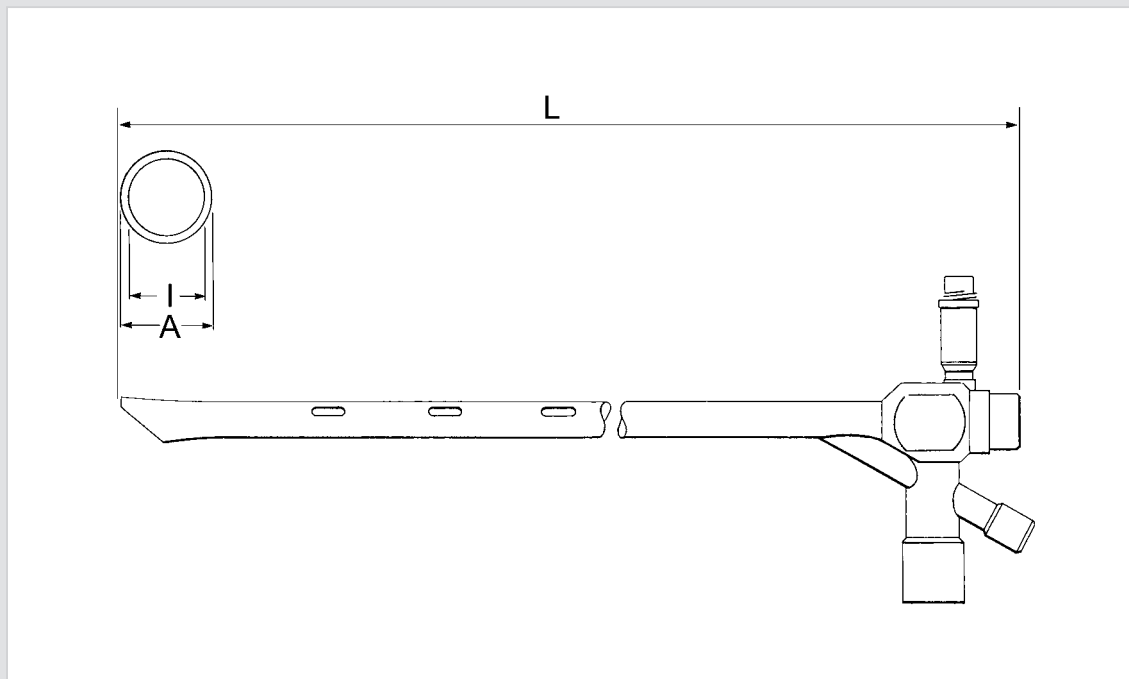
15006 C



15006 D

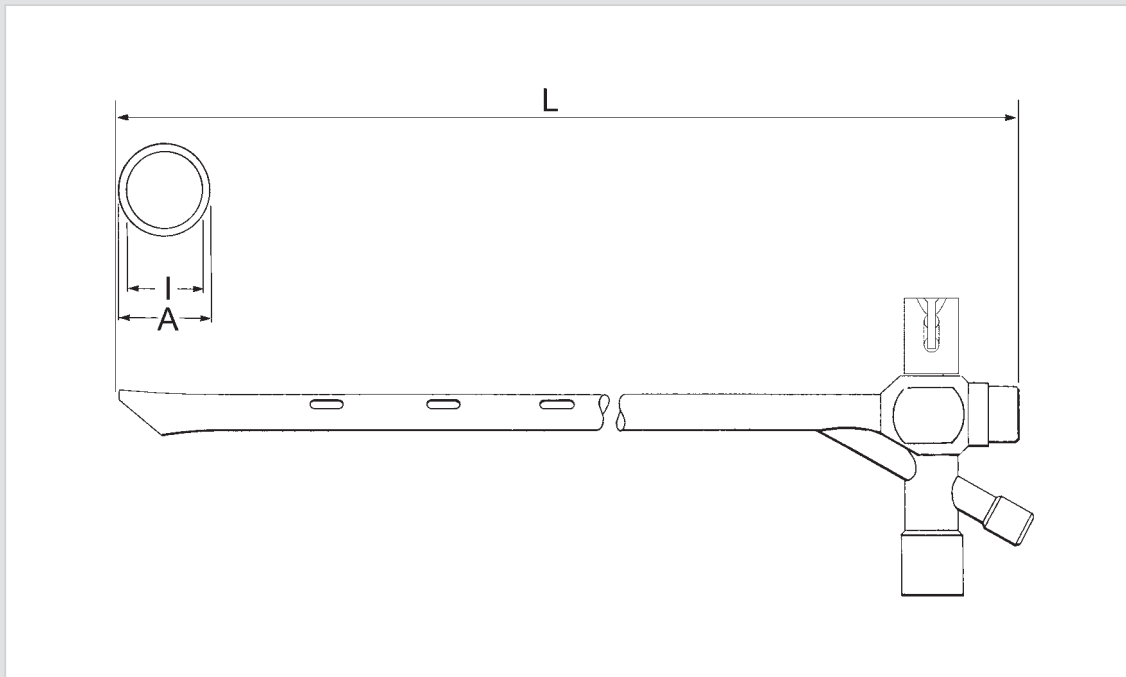
- 15006 B “ULTRA STOP” **Antifog Solution**, 25 ml,
pipette bottle
- 15006 C “ULTRA STOP” **Antifog Solution**, 30 ml,
sterile, pierce bottle
- 15006 D “ULTRA STOP” **Antifog Solution**, 15 ml,
atomizer bottle

Dimensions of Universal Bronchoscopes



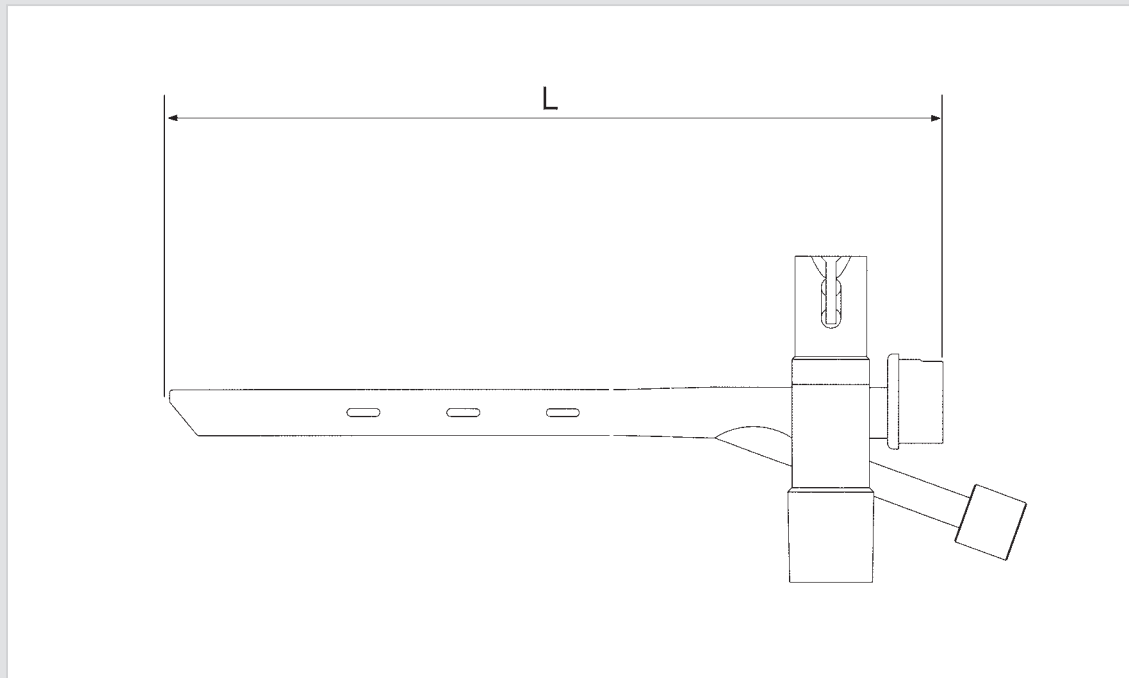
Art. No.	Size	Total Length - L -	Inner Diameter - I -	Outer Diameter - A -	Telescopes	Optical Forceps
10318 B	8.5	43 cm	10 mm	11 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 BP	8.5	43 cm	10 mm	11 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 M, 10350 MS, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 C 10318 CP	7.5	43 cm	9 mm	10 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 D 10318 DP	6.5	43 cm	8 mm	9 mm	10320	10352 H, 10352 L, 10352 KF, 10352 U, with 10328 AA, 10328 BA

Dimensions of Universal Bronchoscopes



Art. No.	Size	Total Length - L -	Inner Diameter - I -	Outer Diameter - A -	Telescopes	Optical Forceps
10318 G	14	33 cm	13 mm	14 mm	10320	10350 HF, 10350 KF, 10350 L, 10350 M, 10350 MS, 10350 ST, 10350 U, with 10320 AA, 10320 BA
10318 GL	14	43 cm	13 mm	14 mm	10320	
10318 ER	11	43 cm	10 mm	11 mm	10320	

DOESEL-HUZLY
Dimensions of Pediatric Bronchoscopes
with proximal illumination



Art. No.	Size	Total Length - L -	Telescopes	Optical Forceps
10339 AL 10339 BL	6 5	40 cm 40 cm	10023 10023	10379 CF, 10379 HF, 10379 KF, 10379 L, with 10023 ABA
10339 A 10339 B 10339 BB 10339 C 10339 G 10339 CD	6 5 4.5 4 3.7 3.5	30 cm 30 cm 30 cm 30 cm 30 cm 30 cm	10324 10020	10378 CF, 10378 HF, 10378 KF, 10378 KSF, 10378 L, 10378 M, 10378 S, 10378 U, 10378 X, with 10324 AA
10339 EEE	3	30 cm	10324 10020	-
10339 CC 10339 GG 10339 DD	4 3.7 3.5	26 cm 26 cm 26 cm	10324 10020	10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA
10339 EE	3	26 cm	10324 10020	10374 L, 10374 HF
10339 D	3.5	18.5 cm	10018 10020	10377 CF, 10377 HF, 10377 KF, 10377 L, 10377 U, with 10020 ATA
10339 E	3	18.5 cm	10018 10020 10030	10374 L, 10374 HF, with 10030 AA
10339 F	2.5	18.5 cm	10017 10018 10020 10030	10374 L, 10374 HF, with 10030 AA

11-98z



FLUORESCENCE

Intravenously administered dyes that strictly remain within the vascular system have been in increasing use in the past several decades to enable a better assessment of normal and pathological states of various tissues or organs in living organisms. Indocyanine green (ICG) is an important representative of this group and features much better pharmacokinetic properties than conventional markers such as fluorescein; anaphylactic reactions or other intolerance reactions are very rarely observed with ICG. The dye, which is rapidly eliminated via the liver without being metabolized, is commonly used in choroidal circulation diagnostics, but it has also been approved for liver function diagnostics and for assessing various cardiovascular and microvascular situations. The promising results of preliminary animal testing suggested that in vivo ICG angiography may also be suitable for non-invasive assessment of the post-operative perfusion status of free-flap grafts¹.

With the novel D-LIGHT P system from KARL STORZ, the applications of ICG angiography have now been expanded to include all endoscopically accessible body regions and a multitude of conceivable new indications. As an example, we will discuss in more detail the ICG fluorescence angiography for the assessment of free-flap grafts in the upper aerodigestive tract. This application has already shown promising results in a feasibility study conducted at our facility. Other promising application areas include the diagnostics of highly vascularized neoplasms in the gastrointestinal tract, the verification of normal blood flow after neurosurgical closure of aneurysms, and the intraoperative perfusion assessment in colorectal anastomoses.

The collected data were analyzed on a PC online and offline, and the results were compared with clinical results. No partial or complete graft loss occurred. Two grafts with limited perfusion caused by arterial anastomotic insufficiency were salvaged by surgical revision. The endoscopic ICG angiographies were simple to perform and easily tolerated. The grafts exhibited delayed accumulation of the dye, but in the end, accumulation was equal in the grafts and in the surroundings. The two grafts that were initially hypoperfused exhibited relative fluorescence peaks (graft compared to surroundings) of 33% and 37%, respectively, but these values were $\geq 64\%$ in all further examinations. On the basis of the collected data, we concluded that endoscopic ICG angiographies generally seem useful in patients with free-flap tissue transfer into the upper aerodigestive tract, since this technique is low in risk, easy to perform, and immediately supplies meaningful information on the perfusion status of the tissue. We concluded that the procedure can be a welcome supplement to the other described screening procedures, particularly in difficult situations (unclear Doppler signals, hard-to-see grafts, and hard-to-assess skin color).

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As an example, we will now describe one of the above indications in more detail. A feasibility study conducted at the ENT department of the LMU University Medical Center was designed to clarify whether after the intravenous administration of ICG, endoscopic fluorescence angiography is suitable for the early detection of reduced tissue perfusion in free-flap tissue grafts in the upper aerodigestive tract that were transferred by microvascular anastomosis. The study is relevant since there

are currently no routine procedures for the objective assessment of perfusion in free tissue flaps, despite the fact that an unidentified postoperative disturbance in perfusion may lead to partial or even complete loss of the graft. The study included 25 patients with such tissue grafts. Three endoscopic ICG angiographies were performed in each patient (intraoperatively, 24 hours after surgery, and 72 hours after surgery, see Figs. 1 – 4).

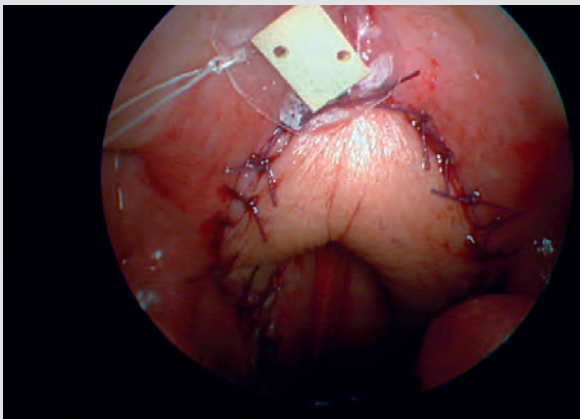


Fig. 1: White light view

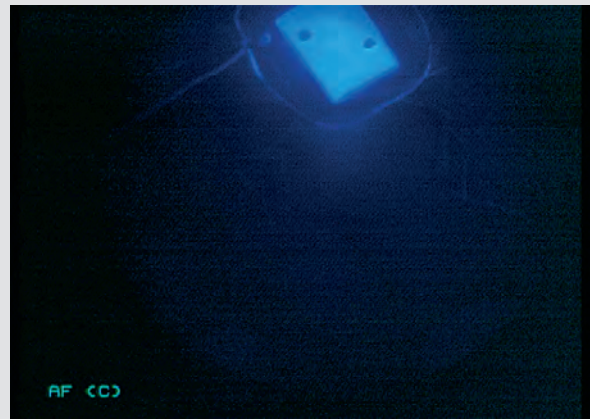


Fig. 2: Endoscopic ICG perfusion evaluation – intraoperative

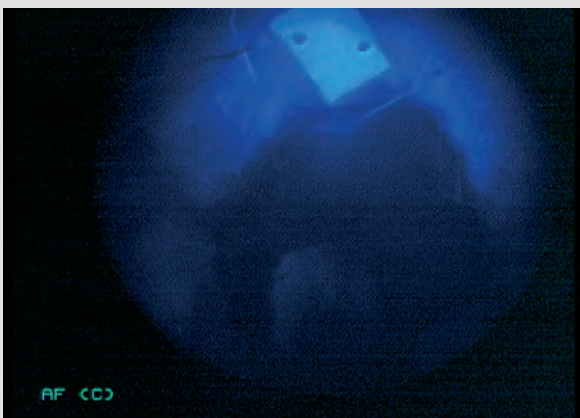


Fig. 3: Endoscopic ICG perfusion evaluation – 24 h postoperative

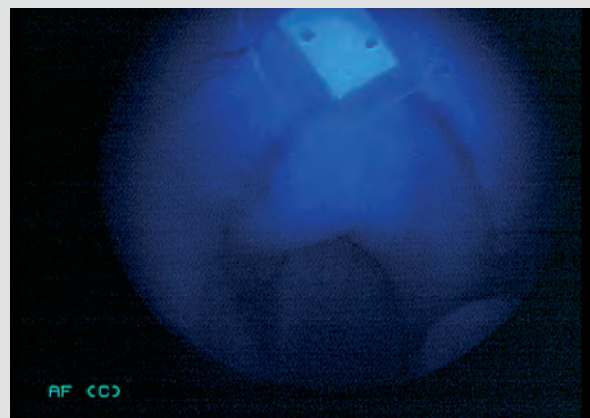


Fig. 4: Endoscopic ICG perfusion evaluation – 72 h postoperative

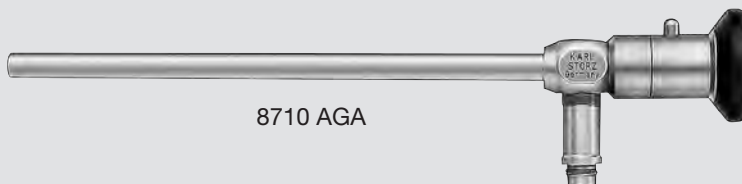
ICG Angiography ^{NEW}

for use with TRICAM® SL II and D-LIGHT P

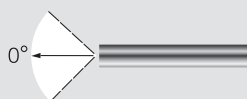
With the D-LIGHT P system as well as other HOPKINS® endoscopes developed specifically for angiography, KARL STORZ offers a compact system for both perfusion assessment and autofluorescence diagnosis. Switching between filters for autofluorescence diagnosis and ICG observation is possible by simply

changing the filters in the telescope eyepiece. In combination with the TRICAM® SL II camera control unit, the new system offers outstanding image sharpness as well as detailed representation of the viewed tissue. Visualization of perfusion in ICG modes offers the user new possibilities in surgical anastomosis.



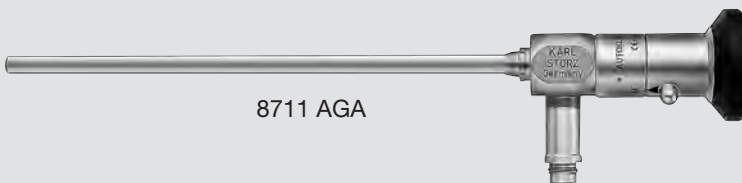


8710 AGA

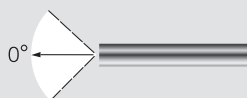


8710 AGA

HOPKINS® Straight Forward Telescope 0°, for perfusion assessment, autofluorescence and white light diagnosis, diameter 5.8 mm, length 19 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8711 AGA



8711 AGA

HOPKINS® Straight Forward Telescope 0°, enlarged view, for perfusion assessment, autofluorescence and white light diagnosis, diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

Fluid Light Cable



495 FO

495 FO
495 FP

Fluid Light Cable, diameter 3 mm, length 180 cm
Same, length 250 cm

TRICAM® SL II

Camera Control Unit SCB



20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable**, for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin



20 2210 37 / 20 2211 37

20 2210 37 PAL TRICAM® PDD

20 2211 37 NTSC Three-Chip Camera Head

color systems **PAL/NTSC**, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, $f = 25 - 50$ mm (2x), 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

D-LIGHT P System SCB ^{NEW}

Special Features:

- Special light source for perfusion diagnosis of tissue and organs with indocyanine green (ICG) or for photodynamic early diagnosis in bronchoscopy
- Facility for switching between white light and fluorescence mode after ICG injection
- With KARL STORZ Communication Bus (KARL STORZ-SCB)



NEW 20 1337 01-1 **Cold Light Fountain D-LIGHT P SCB**

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications::

Lamp type	XENON 15 V, 300 Watt	Dimensions w x h x d	305 x 165 x 336 mm
Color temperature	ca. 6000 K	Weight	9.7 kg
Light outlets	1	Certified to:	IEC 601-1 and UL 544, protection class 1/CF
Light intensity adjustment	continuously adjustable either via a membrane keyboard or KARL STORZ Communication Bus Signal		

Spare Lamps and Spare Lamp Modules for D-LIGHT Systems and Components/Spare Parts
see catalog TELEPRESENCE

Autofluorescence Endoscopy System

for the Diagnosis and Early Detection of Laryngeal Carcinoma

Autofluorescence endoscopy is a sophisticated, non-invasive method for the detection of precancerous and cancerous changes of the epithelium. It is already used successfully in the early detection and follow-up of bronchial as well as of urothelial cancer [Lam et al. 1993, Nakhosteen et al. 1997, Häussinger et al. 1999]. Autofluorescence endoscopy can also be applied in the diagnosis of tumors of the upper aerodigestive tract. The method is based on the excitation of tissue-specific fluorescence (autofluorescence) of the mucosa by short-wave blue light of the visible spectrum (375-440 nm). The causes for changes of the fluorescence characteristics are quite complex. Changes in metabolism, reactive changes of the adjacent stroma and the frequently thickening of the epithelium are a few of the possible reasons [Dhingra et al. 1998].

The D-LIGHT/AF System – developed by KARL STORZ in cooperation with various clinical partners – is already used as a combined autofluorescence and fluorescence diagnostic device for the early detection of carcinomas in the bronchial system [Huber et al. 1995], in the bladder [Kriegmaier et al. 1994] and in the oral cavity [Leunig 1996].

The D-LIGHT C/AF System can also be used for the early diagnosis of larynx cancer during microlaryngoscopy in the following examination modes:

- Standard diagnosis
- Autofluorescence diagnosis
- Fluorescence diagnosis (ALA-induced protoporphyrin-IX-fluorescence)

First a microlaryngoscopy is performed in standard diagnosis mode (white light endoscopy). By switching the camera of the D-LIGHT C/AF System into the autofluorescence diagnosis mode, short wave blue light induces a typical green autofluorescence of the laryngeal mucosa. Any change of this typical autofluorescence indicates pathological alterations of the epithelium.

Preliminary studies concerning the laryngeal and hypopharyngeal mucosa demonstrated that particularly cancerous changes are highlighted by the color contrast [Fryen et al. 1997]. These observations were supported by spectroscopic measurements concerning the mucosa of the oral cavity and the pharynx [Dhingra et al. 1996].

Our previous and current studies show that especially the detection and delineation of epithelial dysplasia of higher degree and carcinoma are facilitated by autofluorescence endoscopy compared with standard white light examination [Arens et al. 1999].

The D-LIGHT C/AF System also accommodates fluorescence diagnosis. Induced fluorescence is achieved by prior (local or systematic) application of 5-aminolevulinic acid. The consecutive accumulation of protoporphyrin IX in cancerous mucosa also increases the color contrast [Leunig et al. 1996].

In order to improve preoperative diagnosis, indirect laryngoscopic autofluorescence examinations will be available in the future. Our clinical preliminary studies on 50 patients already showed results comparable to microlaryngoscopic autofluorescence diagnosis.

KARL STORZ offers flexible fiberscopes and rigid telescopes as well as specifically adapted PDD camera systems to be used with the D-LIGHT C/AF System for fluorescence diagnosis of early cancer.

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*Prof. C. ARENS, M.D.,
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Magdeburg, Germany*

*Prof. emer. H. GLANZ, M.D.
Universitätsklinik für Hals-, Nasen- und Ohrenheilkunde,
Gießen, Germany*

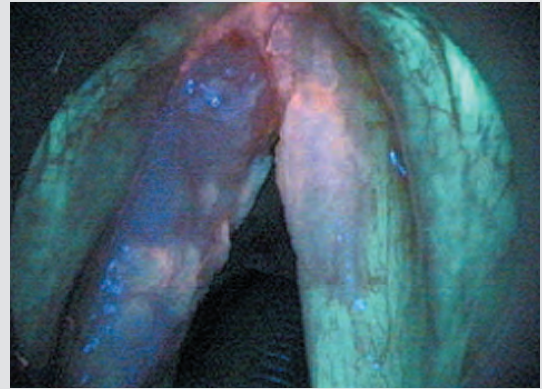
White Light Endoscopy (Microlaryngoscopy) vs. Autofluorescence

Diagnosis:

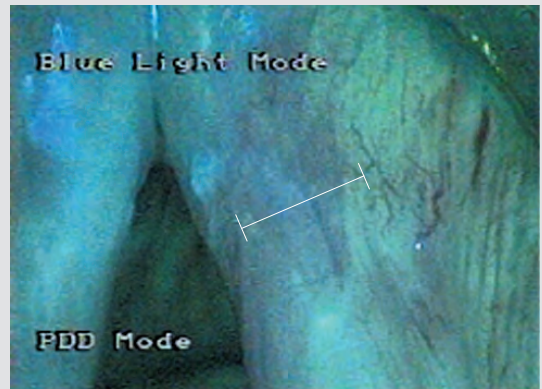
White Light



Autofluorescence



Keratinizing squamous cell carcinoma on the left, with moderately dysplastic ramifications towards the right vocal cord

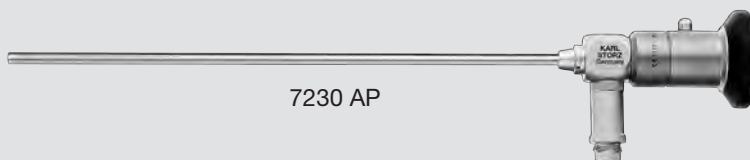


Focal squamous epithelium dysplasia of moderate degree (concomitant with epidermization and focal leucoplasia) only visible in the autofluorescence image by way of of the fluorescence reduction in the marked area (2 patients)

HOPKINS® II Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
of the Nose and Nasal Sinuses, diameter 4 mm, length 18 cm

For Diagnosis and Early Detection of Carcinomas



7230 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



7230 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red



7230 FP

HOPKINS® II Forward-Oblique Telescope 45°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 4 mm, length 18 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: black

Fluid Light Cable



495 FO

Fluid Light Cable, diameter 3 mm, length 180 cm

495 FP

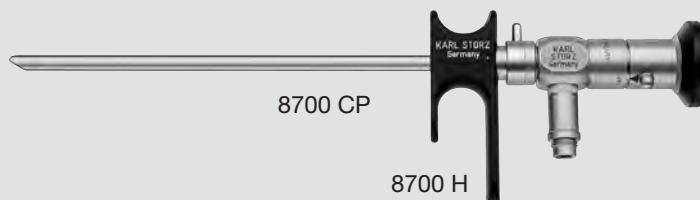
Same, length 250 cm

495 FS

Fluid Light Cable, diameter 2 mm, length 220 cm

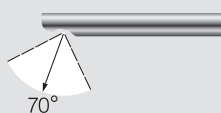
HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Rigid Indirect laryngoscopy



8700 CP

8700 H



8700 CP

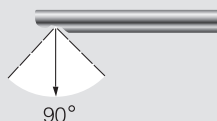
Tele-Laryngoscope, with integrated HOPKINS® lateral telescope 70°, for autofluorescence/photodynamic diagnosis (PDD), angle of view 50°, diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

8700 H

Handle, for use with Tele-Laryngoscope 8700 CP, 8700 CKA, 8705 CKA and 8700 DKA



8707 DP



8707 DP

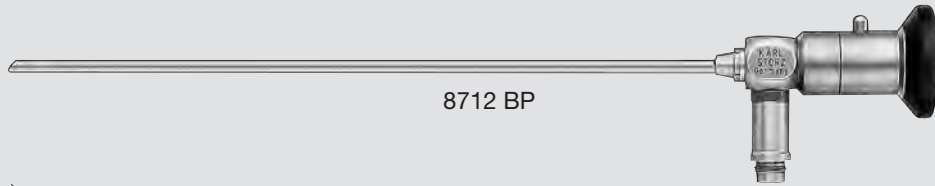
Tele-Laryngo-Pharyngoscope, with integrated HOPKINS® lateral telescope 90°, for autofluorescence/photodynamic diagnosis (PDD), 4x magnification, focusing device, **autoclavable**, diameter 10 mm, working length 15 cm, fiber optic light transmission and filter exchanger incorporated, color code: blue

495 FP

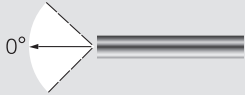
Fluid Light Cable, diameter 3 mm, length 250 cm

HOPKINS® Telescopes

for Autofluorescence/Photodynamic Diagnosis (PDD)
during Rigid Direct laryngoscopy



8712 BP



8712 AP

HOPKINS® II Straight Forward Telescope 0°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green



8712 BP

HOPKINS® II Forward-Oblique Telescope 30°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: red

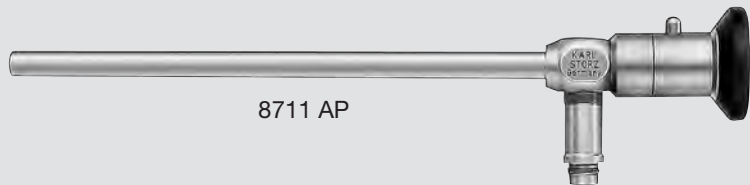


8712 CP

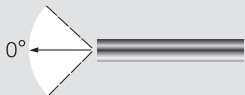
HOPKINS® II Lateral Telescope 70°, enlarged view, for autofluorescence/photodynamic diagnosis (PDD), diameter 5 mm, length 24 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: yellow

495 FP

Fluid Light Cable, diameter 3 mm, length 250 cm



8711 AP

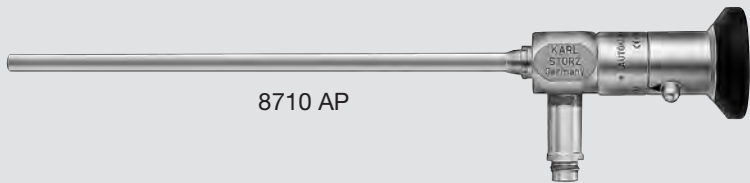


8711 AP

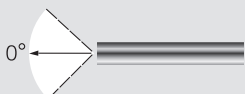
HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 10 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm



8710 AP



8710 AP

HOPKINS® Straight Forward Telescope 0°, for autofluorescence/photodynamic diagnosis (PDD), diameter 5.8 mm, length 20 cm, **autoclavable**, fiber optic light transmission and filter exchanger incorporated, color code: green

495 FR

Fluid Light Cable, diameter 5 mm, length 250 cm

Endoscopes

for Photodynamic Diagnosis and Autofluorescence Examination

TRICAM® PDD Three-Chip Camera Head

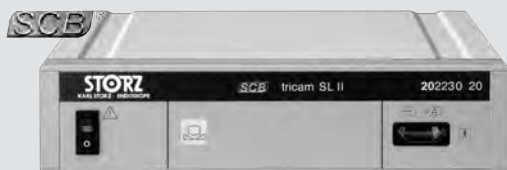


20 2210 37	PAL	TRICAM® PDD
20 2211 37	NTSC	Three-Chip Camera Head

color systems **PAL/NTSC**, soakable, gas-sterilizable, with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x), 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

Specifications:

TRICAM® Camera Heads	PDD Three-Chip Camera Head
PAL	20 2210 37
NTSC	20 2211 37
Image sensor	3x 1/2" CCD chip
Pixels	752 x 582 (PAL)
Output signal H x V	768 x 494 (NTSC)
Resolution (horizontal)	min. 750 lines
Dimensions	37 x 47 mm, length 124 mm
Weight	240 g
Min. sensitivity	F 1.4/3 Lux (standard)
Lens	Integrated Parfocal Zoom Lens, f = 25-50 mm
Grip mechanism	Standard eyepiece adaptor



20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable**, for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Specifications:

Video output	- RGBS signal to 4x BNC sockets - S-Video signal to 4-pin Mini-DIN socket (2x) - Composite signal at BNC socket - DV signal to 6-pin DV socket	Camera Control Unit (CCU)	Dimensions : 305 x 88 x 254 mm (B x H x T)
Input	Keyboard input for character generator and control functions, 6-pin Mini-DIN socket	Weight	2.7 kg
Control output/input	KARL STORZ-SCB to 6-pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)	Power supply	100-240 VAC, 50/60 Hz
		Certified to:	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF

Components/Spare Parts see catalog TELEPRESENCE

D-LIGHT C/AF-System SCB

Special Features:

- For photodynamic early diagnosis in bronchoscopy or photodynamic examination of the bladder
- Facility for switching between reduced white light, autofluorescence mode and Protoporphyrin IX fluorescence mode (optional)
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)



20 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications:

Lamp type	XENON 15 V, 300 Watt	Dimensions w x h x d	305 x 165 x 335 mm
Color temperature	6000 K	Weight	11 kg
Light outlets	1	Certified to	IEC 601-1 and UL 544, protection class 1/CF
Light intensity adjustment	continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal		

Optional Accessories for Cold Light Fountains D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

Autofluorescence Endoscopy System

for the Diagnosis and Early Detection of Bronchial Carcinoma

The KARL STORZ autofluorescence endoscopy procedure provides a new diagnostic method for visualizing malignant and pre-malignant changes as early as possible. Patients only have a real chance of survival if bronchial carcinomas are diagnosed at an early stage. Due to its state-of-the-art technology, the system is compact and economically viable.

The distinguishing feature of this diagnostic system is the ability to switch from standard white light bronchoscopy into the autofluorescence diagnosis mode at any time by means of the special **D-LIGHT C (AF)** system in conjunction with specifically adapted flexible and rigid bronchoscopes. A feature of autofluorescence display is the combination of excitation and observation technique (German and international patents pending). An especially adapted endocamera (TRICAM® SL-PDD), which is 60 times more light-sensitive than a standard endocamera, complements the diagnostic system.

Autofluorescence utilizes a natural optical effect in the tissue. This examination mode does not involve any special pre-operative treatment of patients. Specifically adapted to the fluorescent structures in the submucosa, the **D-LIGHT C (AF)** system induces autofluorescence in the bronchial submucosa. The thickened epithelium near the area with the tumorous changes causes the light to be dimmer in the suspicious tumor area than in the healthy regions of the bronchial mucosa. This thickening of the epithelium, along with biochemical and tissue-specific causes, means that potentially tumorous areas are darker than the surrounding healthy tissue. Autofluorescence creates the colour contrast required to demarcate potentially tumorous areas.

In addition, the so-called **PDD Mode** offers an additional diagnosis mode which, for example, clearly displays blood vessels.

Previous and current studies show that **autofluorescence** is more effective than white light bronchoscopy alone for the early detection of bronchial carcinomas. Therefore more systematic biopsies can also be performed. Areas that appear to be normal under white light can be examined more closely and reveal clinical findings that would otherwise remain undetected or are easily overlooked.

Fluorescence diagnosis combined with our system for the early diagnosis of tumors is also used in other fields of application. In **ENT**¹⁾ laryngeal carcinomas and their extent can be detected at an earlier stage and more accurately than when viewed with pure white light. In the **oral cavity**²⁾, carcinomas can be diagnosed more precisely by prior topical ALA sensitization as opposed to PDD. Since 1996, PDD has been regularly applied in **Urology**³⁾ to increase detection sensitivity of cystoscopy for bladder carcinomas in situ. In the field of **Gynecology**⁴⁾ the laparoscopic detection rate of endometritis following prior administration of oral ALA has been considerably improved, allowing more optimized treatment. **Neurosurgery**⁵⁾ also uses our components for open PDD-assisted glioblastoma resection.

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⁵⁾ Prof. Dr. W. Stummer, Neurochirurgische Klinik, Universitätsklinikum Münster

Video Bronchoscope ^{NEW} for Autofluorescence

for use with TELECAM SL II FI SCB 20 2130 11U1

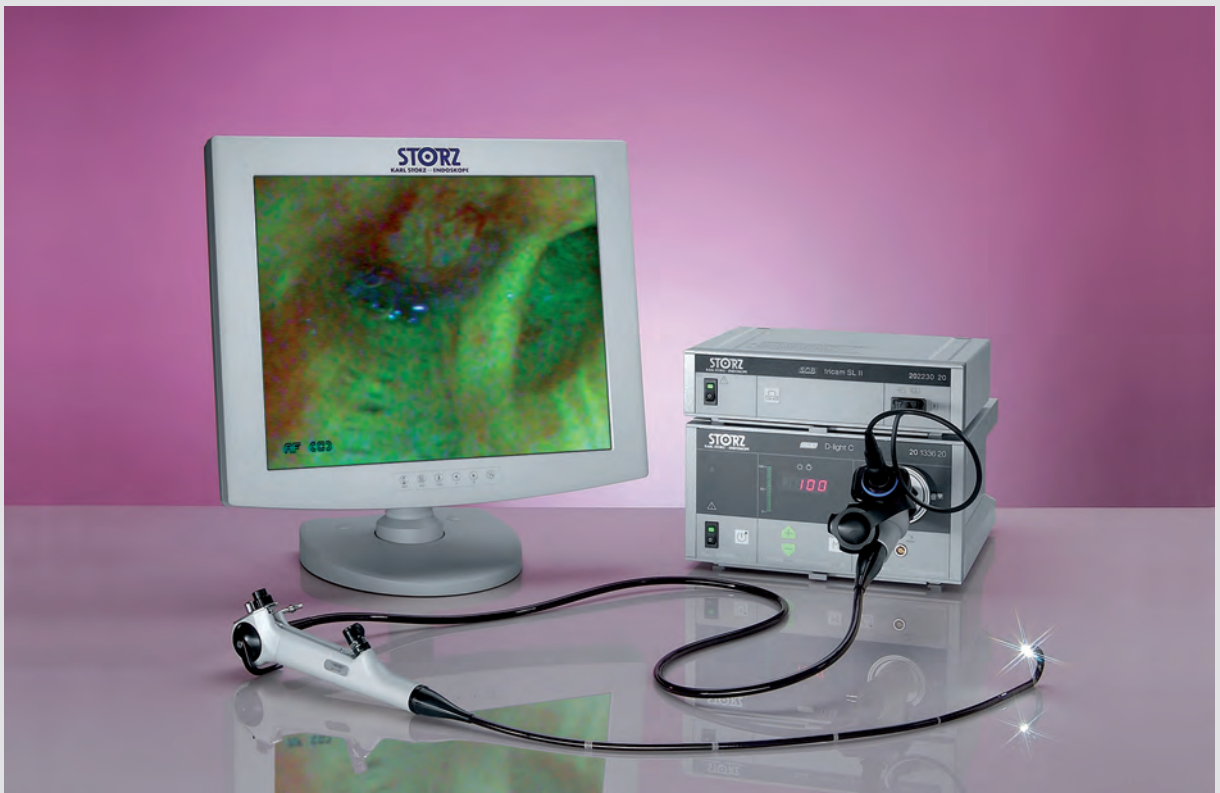
STORZ
KARL STORZ — ENDOSKOPE

KARL STORZ is expanding its line of flexible bronchoscopes with the new video bronchoscope with a distal chip for autofluorescence diagnosis. Users who no longer wish to miss out on the high image quality of videoscopes can now take advantage of the quality products of KARL STORZ in this field, too.

Whereas in the past comparatively heavy fiber optic endoscopes with a separate camera head were used in video endoscopy, this system delivers excellent color

fidelity in both the white light and autofluorescence modes. An integrated button on the handle of the video bronchoscope allows rapid switching between the white light and the blue light modes.

In combination with the TELECAM SL II FI SCB control unit and the D-LIGHT C/AF, the new video bronchoscope for autofluorescence diagnosis offers outstanding image sharpness as well as excellent brightness and representation of detail.



Video Bronchoscope ^{NEW} for Autofluorescence

for use with TELECAM SL II FI SCB 20213011U1

STORZ
KARL STORZ — ENDOSKOPE



11900 AP/AN

11900 AP **Video Bronchoscope for Autofluorescence and White Light Diagnosis**, color system **PAL**, including mounted Suction Unit 11900 AE, for use with TELECAM SL II FI SCB **20213011U1**

Working channel: 2.3 mm
Direction of view: 0°
Angle of view: 120°
Deflection up/down: 180°/100°
Depth of view: 3 – 50 mm
Working length: 61 cm
Outer diameter: 6.2 mm

11900 AN **Same**, color system **NTSC**

Following accessories included:

27677 KV **Case**
20213070 **Video Connecting Cable**
13272 **Mouth Piece**
11001 KL **Biopsy Forceps**, spoon-shaped, round, flexible, double action jaws, diameter 1.8 mm, working length 120 cm
13242 LX **Leakage Tester**, with blower and manometer
11025 XE **Pressure Compensation Cap**, for ventilation during gas sterilization
27651 B **Cleaning Brush**, flexible, length 100 cm
13991 SS **Irrigation Tube**, for working channel
27656 B **Instrument Oil**, 50 ml
13990 SFN **Protective Film**

Optional accessories see pages 694-696

TELECAM SL II FI SCB ^{NEW}

for use with Video Bronchoscope for Autofluorescence



202130 11U1 TELECAM SL II FI Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module, suitable for fluorescence applications, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x **Connecting Cable**, for controlling peripheral units

SCB Connecting Cable

Keyboard, with US English character set

Specifications:

Video output	- RGB signal to 15-pin HD D-Sub socket - Composite signal at BNC socket - S-Video signal to 4-pin Mini-DIN socket (2x)	Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Input	Keyboard input for title generator and camera functions to 5-pin DIN socket	Weight	2.7 kg
Control output	3.5 mm stereo jack plug (ACC 1, ACC 2, SCB)	Power supply	100-240 VAC, 50/60 Hz
		Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 and CE according to MDD, protection class 1/BF

The system can be operated with **KARL STORZ-SCB** units.

Optional accessories for **TELECAM SL II FI SCB** and **Components/Spare Parts** see catalog **TELEPRESENCE**

D-LIGHT C/AF-System SCB

for use with Video Bronchoscope for Autofluorescence



20 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz

including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Accessories (required in conjunction with KARL STORZ video bronchoscopes)

487 KVE **Adaptor**, for KARL STORZ light sources for use with KARL STORZ video bronchoscopes

Optional accessories

495 KS **Adaptor**, for standard KARL STORZ fiber optic light cables (not 495 NCS) in conjunction with adaptor for KARL STORZ Video Bronchoscope 487 VE

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable either via a membrane keyboard or KARL STORZ Communication Bus Signal

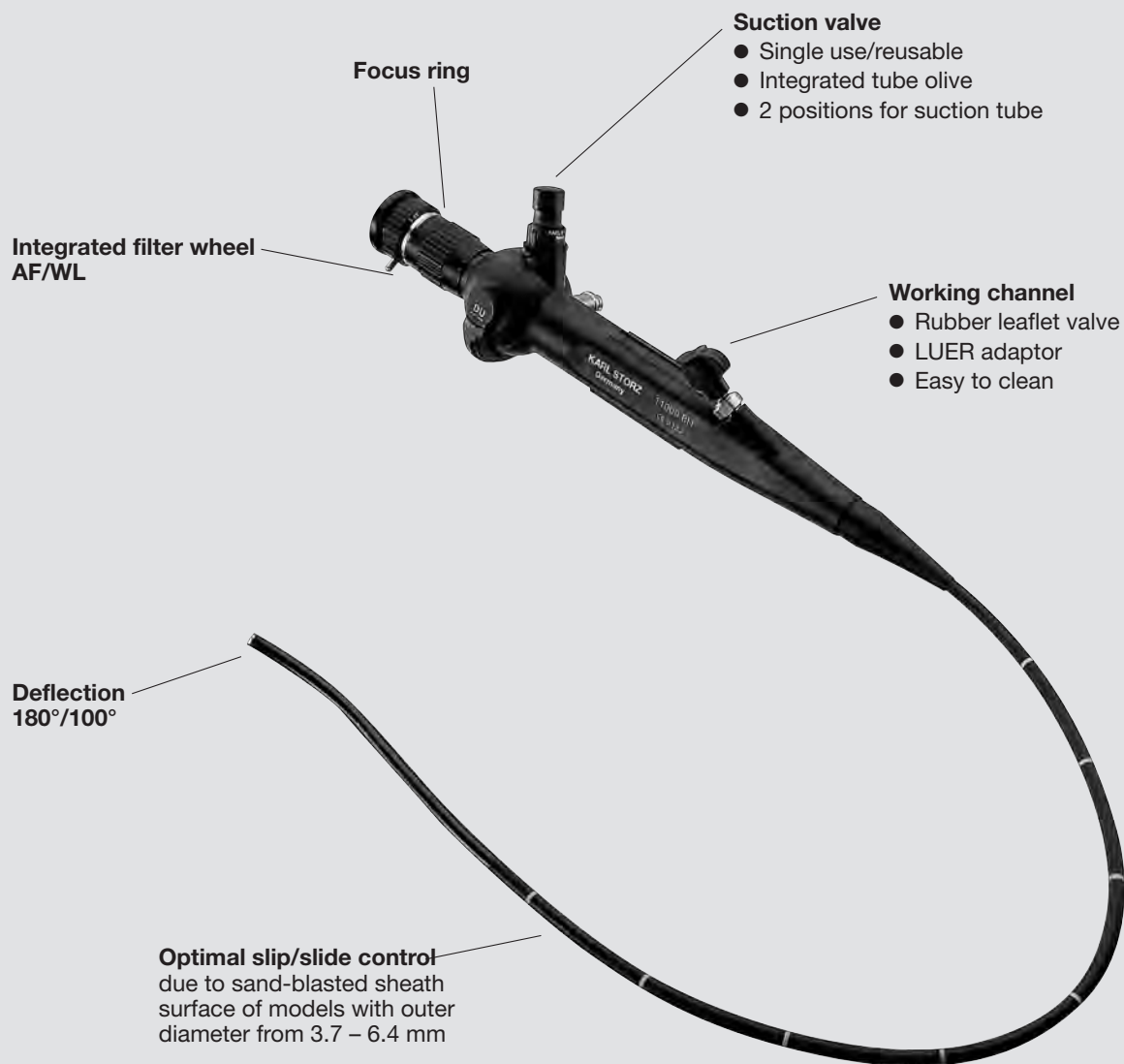
Dimensions w x h x d	305 x 165 x 335 mm
Weight	11 kg
Certified to:	IEC 601-1 and UL 544, protection class 1/CF

Optional accessories for Cold Light Fountain D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

Broncho-Fiberscopes for Autofluorescence


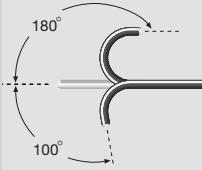

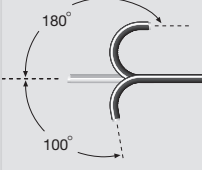

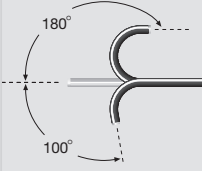
Special Features:

- Working channel for the use of operating instruments
- Functional: Simultaneous suction and administration of medication via removable suction valve
- Waterproof, fully immersible for cleaning and disinfection
- Simple leakage test requires no additional accessories
- Sterilizable via EtO and FO gas, Steris® and Sterrad®
- Recommended for use with KARL STORZ ENDOVISION® TRICAM® SL II PDD SCB System



11-98z

Broncho-Fiberscopes for Autofluorescence

Broncho-Fiberscopes (AF)	Art-No.		Deflection up/down	Direction of view	Angle of view	Working length
6.4 mm x 54 cm Broncho-Fiberscope	11004 BI			0°	110°	54 cm
5.6 mm x 54 cm Broncho-Fiberscope	11009 BI			0°	110°	54 cm
5 mm x 54 cm Broncho-Fiberscope	11001 BI			0°	110°	54 cm



Fluid Light Cable for use with Broncho-Fiberscopes for Autofluorescence and Photodynamic Diagnosis (PDD)

495 FO
495 FP

Fluid Light Cable, diameter 3 mm, length 180 cm
Fluid Light Cable, diameter 3 mm, length 250 cm







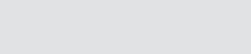



39402 A

Plastic Container, for gas or plasma sterilization and storage

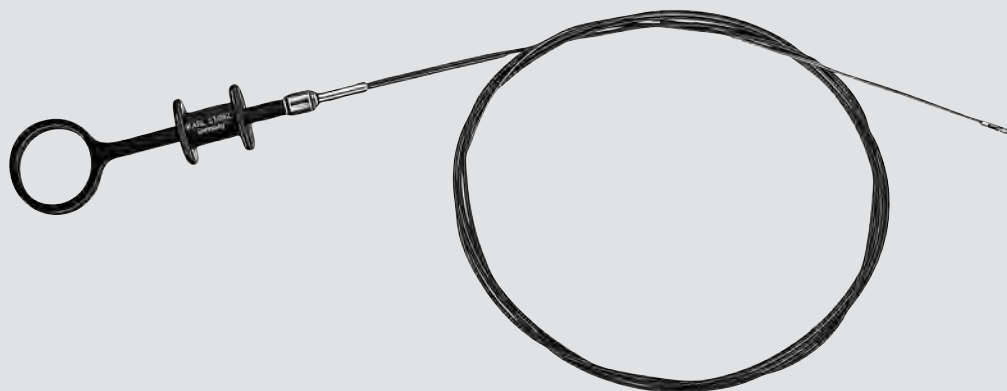
	Total length	Working channel inner diameter	Distal tip outer diameter	Accessories (included in delivery)						
				Case	Pressure Comp. Cap	Leakage Tester	Mouth Piece	Cleaning Brush	Biopsy Forceps	Grasping Forceps
	82 cm	2.8 mm	6.4 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	82 cm	2.6 mm	5.5 mm	27677 BB	11025 E	13242 XL	13272	27651 C	11001 KL	11002 KS
	82 cm	2.3 mm	5.2 mm	27677 BB	11025 E	13242 XL	13272	27651 B	11001 KL	11002 KS







Accessories included in delivery:

	27677 BB	Case
	11025 E	Pressure Compensation Cap , for ventilation during gas sterilization
	13242 XL	Leakage Tester , with bulb and manometer
	13272	Mouthpiece
	27651 B	Cleaning Brush , flexible, round, outer diameter 3 mm, for working channel diameter 1.8 – 2.6 mm, length 100 cm
	27651 C	Cleaning Brush , round, flexible, outer diameter 4 mm, for working channel diameter 2.4 – 3.6 mm, length 230 cm
	11001 KL	Biopsy Forceps , flexible, spoon-shaped, round, double action jaws, diameter 1.8 mm, working length 120 cm
	11002 KS	Grasping Forceps , flexible, alligator jaws, double action jaws, diameter 1.8 mm, working length 120 cm

Optional Accessories

for Flexible Bronchoscopes









			Dia.	Length	for use with			
					11004 BI	11009 BI	11001 BI	11900 AP/AN
	11002 KT	Grasping Forceps , alligator jaws, round, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KT		2.3 mm		●	●	-	-
	11002 KU	Grasping Forceps , spoon-shaped, serrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KU		2.3 mm		●	●	-	-
	11002 KX	Grasping Forceps , alligator jaws, serrated, 3 x 4 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KX		2.3 mm		●	●	-	-
	11002 KZ	Grasping Forceps , serrated, 1 x 2 teeth, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13252 KZ		2.3 mm		●	●	-	-
	11001 KM	Biopsy Forceps , spoon-shaped, round, with spike, fenestrated, flexible, double action jaws	1.8 mm	120 cm	●	●	●	●
	13250 KM		2.3 mm		●	●	-	-
	13250 KN	Biopsy Forceps , spoon-shaped, oval, fenestrated, flexible, double action jaws	2.3 mm	120 cm	●	●	-	-

Further Accessories for Flexible Bronchoscopes see chapter 12, BRONCHOSCOPY, TRACHEOSCOPY

Optional Accessories










for Flexible Bronchoscopes

for use with

			11004 BI	11009 BI	11001 BI	11900 AP
	10770 B	Button Electrode , flexible, with connector pin for unipolar coagulation, diameter 1.7 mm, length 80 cm	●	●	●	●
	11161 KE	Coagulation Electrode , unipolar, flexible, diameter 1 mm, length 110 cm	●	●	●	●
	11007 BS	Brush , for cytology, outer diameter 1.7 mm, working length 80 cm	●	●	●	●
	11007 E	Brush , package of 10	●	●	●	●
	11008	Suction Catheter , 4.5 Fr., length 100 cm, with Adaptor 10479 F	●	●	●	●
	11008 E	Catheter , 5 Fr., without adaptor	●	●	●	-
	10479 F	Adaptor , for Suction Catheter 10468 D, 10478 D and 11008 E	●	●	●	-

Optional Accessories

for Flexible Bronchoscopes

			for use with		
			11004 BI	11009 BI	11001 BI
	11301 CA	Leaflet Valve , for single use, package of 20	●	●	●
	11301 CB	Suction Valve , reusable	●	●	●
	11301 CD	Irrigation Adaptor , for machine cleaning, reusable, for fiberscopes	●	●	●
	11301 CE	Suction Valve , for single use, package of 20	●	●	●
	11301 BM	Adaptor , for leakage test, for Belimed washer-disinfectors	●	●	●
	11301 FF2	Adaptor for MIELE Cleaning Machines , with safety valve, for automatic leakage test of flexible KARL STORZ endoscopes	●	●	●
	11301 GG2	Adaptor , for cleaning and disinfecting the irrigation and working channels of flexible endoscopes, for MIELE-ETD washer/disinfectors	●	●	●
	11301 HH	Adaptor for BHT Cleaning Machines , for automatic leakage test of flexible KARL STORZ endoscopes	●	●	●
	11301 KK2	Adaptor , for working channel of flexible endoscopes, for MIELE-ETD 03 washer/disinfectors Please note: Adaptors 11301 FF2 and 11301 GG2 have to be ordered separately!	●	●	●

10320 AP – DP



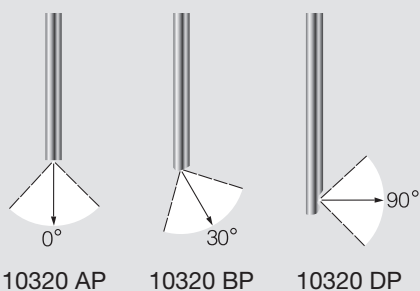
10320 AP **HOPKINS® Straight Forward Telescope 0°**, diameter 5.5 mm, length 50 cm, **autoclavable**, for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: green

10320 BP **HOPKINS® Forward-Oblique Telescope 30°**, diameter 5.5 mm, length 50 cm, **autoclavable**, for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: red

10320 DP **HOPKINS® Lateral Telescope 90°**, diameter 5.5 mm, length 50 cm, **autoclavable**, for autofluorescence diagnosis, fiber optic light transmission and filter exchanger AF/WL incorporated, color code: blue

Fluid Light Cable for use with HOPKINS® Telescopes for Autofluorescence and Photodynamic Diagnosis (PDD):

495 FS **Fluid Light Cable**, diameter 2 mm, length 220 cm



HOPKINS® Telescopes for use with Bronchoscopes see chapter 12, BRONCHOSCOPY, TRACHEOSCOPY

TRICAM® SL II

Three-Chip Camera System, Color Systems PAL/NTSC,
Digital Imaging Processor

TRICAM® SL II is the endoscopic video platform offered by KARL STORZ for endoscopically-assisted applications and video display.

This CCD sensor technology separates the optical image of the 3-CCD image sensor into the three primary colors by means of a specially coated color prism.

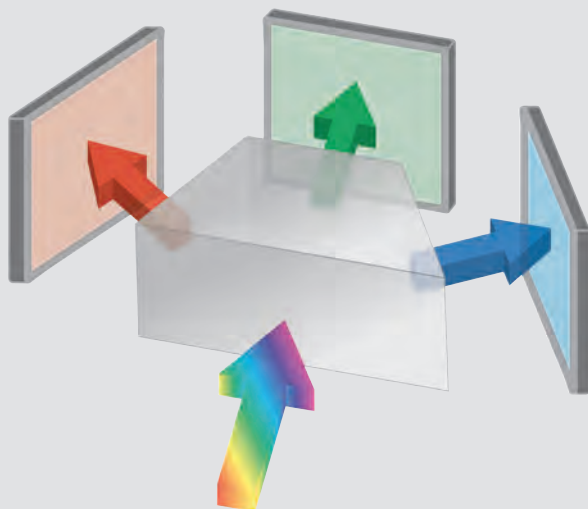
Each individual CCD sensor receives a specific color with the maximum line representation.

The separate processing of the primary color information red, green, and blue means that all colors can be optimally captured with this process. Furthermore, the use of all three CCD sensors offers more detailed enhancement.

Signals are processed by means of a digital image processor. The endoscopic image is produced true to the original image. The image processor also assumes automatic image optimization during continuously changing illumination and color conditions. Manual adjustment is therefore no longer necessary.

The user has several pre-assigned digital-optimization-filters at his disposal for adjustment to rigid, semi-rigid and flexible endoscopes at the touch of a button.

Video outputs such as Digital-Video (DV) and all analog signal variations are an integral feature of **TRICAM® SL II** standard equipment.



Special Features:

- 3-CCD sensor chip technology
- Digital Signal Processing (contrast and filter enhancement for rigid, semirigid and flexible endoscopes)
- Image size display, regardless of the telescope used, thanks to patented Parfocal Optical Zoom Lens
- Programmable control elements
- Parameters of the OR equipment used, light sources, etc. can be displayed and controlled (KARL STORZ Communication Bus) on the monitor
- Digital video output (DV) for digital recording
- Digital zoom 1 – 2x can be adjusted to 4 levels
- “Freeze Frame” function can be activated via camera head buttons or an external footswitch
- Fluorescence imaging mode available

TRICAM® SL II

Camera Control Unit SCB



20 2230 11U1 TRICAM® SL II Camera Control Unit SCB

color systems **PAL/NTSC**, with **KARL STORZ-SCB** and integrated digital Image Processing Module

Mains Cord

Keyboard, with US-English character set

2x **Connecting Cable**, for controlling peripheral units, length 180 cm

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

SCB Connecting Cable

DV Connecting Cable, 6 pin to 4 pin

Specifications:

Video output	- Composite signal at BNC socket - S-Video signal to 4-pin Mini-DIN socket (2x) - RGBS signal to 4x BNC sockets - DV signal to 6-pin DV socket	Camera Control Unit (CCU)	Dimensions: 305 x 88 x 254 mm (w x h x d)
Input	Keyboard input for character generator and control functions, 6-pin Mini-DIN socket	Weight	2.7 kg
Control output/input	KARL STORZ-SCB to 6-pin Mini-DIN socket (2x), 3.5 mm stereo jack plug (ACC 1, ACC 2)	Power supply	100-240 VAC, 50/60 Hz
		Certified to:	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601, and CE acc. to MDD, protection class 1/BF

Optional Accessories for TRICAM® SL II and Components/Spare Parts see catalog TELEPRESENCE

TRICAM® SL II

Camera Heads

For use with TRICAM® SL II Camera Control Unit SCB 20 2230 11U1

TRICAM® PDD Three-Chip Pendulum Camera Head



20 2210 39 / 20 2211 39

20 2210 39	PAL	TRICAM® PDD Three-Chip Pendulum Camera Head
20 2211 39	NTSC	

color systems **PAL/NTSC**, soakable, gas-sterilizable, **with pendulum system and fixed focus, f = 14 mm**, 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

TRICAM® PDD Three-Chip Camera Head



20 2210 37 / 20 2211 37

20 2210 37	PAL	TRICAM® PDD Three-Chip Camera Head
20 2211 37	NTSC	

color systems **PAL/NTSC**, soakable, gas-sterilizable, **with integrated Parfocal Zoom Lens, f = 25 – 50 mm (2x)**, 2 freely programmable camera head buttons, **for photodynamic early diagnosis**

Specifications:

TRICAM® Camera Heads	PDD Three-Chip Pendulum Camera Head	PDD Three-Chip Camera Head
PAL	20 2210 39	20 2210 37
NTSC	20 2211 39	20 2211 37
Image sensor	3x ¼" CCD chip	3x ½" CCD chip
Pixels	752 x 582 (PAL)	752 x 582 (PAL)
Output signal H x V	768 x 494 (NTSC)	768 x 494 (NTSC)
Resolution (horizontal)	min. 750 lines	min. 750 lines
Dimensions	Diameter 29-37 mm, length 117 mm	37 x 47 mm, length 124 mm
Weight	170 g	240 g
Min. sensitivity	F 1.4/3 Lux (standard)	F 1.4/3 Lux (standard)
Lens	Pendulum system, fixed focus, f = 14 mm	Integrated Parfocal Zoom Lens, f = 25-50 mm
Grip mechanism	Standard eyepiece adaptor	Standard eyepiece adaptor

Optional accessories for TRICAM® SL II see catalog TELEPRESENCE

D-LIGHT C/AF-System SCB

Special Features:

- For photodynamic early diagnosis in the upper airways
- Facility for switching between reduced white light, autofluorescence mode and Protoporphyrin IX fluorescence mode (optional)
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB®)



20 1336 01-133 Cold Light Fountain D-LIGHT C/AF SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:

Mains Cord

SCB Connecting Cable, length 100 cm

One-Pedal Footswitch, one-stage, for switch function

Specifications:

Lamp type	XENON 15 V, 300 Watt	Dimensions w x h x d	305 x 165 x 335 mm
Color temperature	6000 K	Weight	11 kg
Light outlets	1	Certified to	IEC 601-1 and UL 544, protection class 1/CF
Light intensity adjustment	continuously adjustable, either via a membrane keyboard or KARL STORZ Communication Bus Signal		

2-061

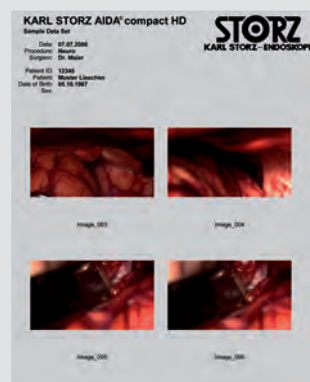
Optional Accessories for Cold Light Fountains D-LIGHT C/AF SCB, Spare Lamps and Spare Lamp Modules and Components/Spare Parts see catalog TELEPRESENCE
The system can be operated with KARL STORZ-SCB units.

The Compact Documentation Solution

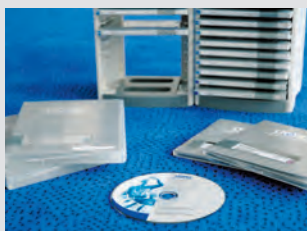
The new KARL STORZ AIDA® compact NEO advanced/standard system combines all the required functions for integrated and precise documentation in a single system. All functions are centrally controlled via touch screen, footswitch, camera head buttons or voice control directly from the sterile area.



AIDA compact NEO advanced/standard: Review screen



AIDA compact NEO advanced/standard: Automatic creation of standard reports



AIDA compact NEO advanced/standard: Efficient archiving

Data Acquisition

AIDA compact NEO advanced/standard records still images, video sequences (in HD quality) and spoken comments of findings and intraoperative procedures directly from the sterile area. Recordings are activated via touch screen, footswitch or camera head buttons.

Live display of camera images on the touch screen enables immediate monitoring and selection of the recorded data.

Flexible Review

Before final archiving, the saved data can be viewed or listened to on the review screen. Data no longer required can be simply deleted.

Individual images, video and audio sequences can be renamed and given more meaningful names. A pre-defined selection list with keywords simplifies and speeds up data entry.

A voice entry of the case report can even be recorded while viewing video and image files.

Automated Data Archiving

Once a treatment is completed, AIDA compact NEO advanced/standard automatically stores the data on a DVD, creates a standard report and prints it as an overview, if required.

Multipatient

Efficient data archiving is assured as the data of several patients can be saved on a DVD.

Data Management and Documentation

KARL STORZ AIDA® compact NEO advanced/standard

Special Features:

- Digital storage of still images with a resolution of 1920 x 1080 in both systems (advanced/standard) possible. Video sequences to 1080p with advanced and to 720p with standard variant possible (via HD-SDI)
- Audio files can be archived in both systems
- DICOM/HL7 interface package included
- Printing from review area (individual images with meta-data)
- DVD burning, Blu-ray reading capabilities
- AIDA Restore Configuration supports simple import and export of system settings
- Reference screen with new QuickView (favorites folder)
- Video settings (e.g. contrast, ...) separate for all channels
- Adaptation options for GUI
- Compressed DICOM
- Supports OR1™ Checklist V1.1
- Enhanced support of 15" monitors with OR1™ checklist installation
- Scalable watermark
- High-quality function and switching of image/video quality without additional settings
- Sterile, ergonomic operation via touch screen, camera head buttons and/or footswitch
- Data export to DVD, CD-ROM or USB flash drive, multi-session and multi-patient
- Network storage possible
- Automatic creation of standard reports
- Systems for use in the OR area certified according to EN 60601-1
- Compatible with KARL STORZ Communication Bus (SCB) and KARL STORZ OR1™ AV NEO
- KARL STORZ AIDA® compact advanced/standard as an attractive, digital alternative to video printers, video recorders and dictating machines



20 0409 13-EN* KARL STORZ AIDA® compact NEO advanced

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz including:

KARL STORZ AIDA® control NEO, with integrated DVD/CD writer, Blu-ray reading possible

AIDA compact HD Frame Grabber Card

PS/2 Compact Keyboard, US English, with cover

KARL STORZ AIDA® compact NEO Software, with voice control and software protection

KARL STORZ USB Flash Drive

2x **Connecting Cables**, for controlling peripheral units

BNC/BNC Video Cable

BNC Connecting Cable

DVI-D Connecting Cable

Mains Cord

Connecting Cable, Mini-DIN plug to BNC socket

20 0409 12-EN* KARL STORZ AIDA® compact NEO standard

Documentation system for digital storage of still images, video sequences and audio files, power supply 115/230 VAC, 50/60 Hz

Specifications:

Video Systems	- PAL, NTSC
Signal Inputs	- S-Video (Y/C) - Composite - RGB (only standard) - SD-SDI (only standard) - HD-SDI (only standard) - DVI-D (only advanced)
Image Formats	- JPG - BMP

Video Formats	- MPEG2
Audio Formats	- WAV
Storage Media	- DVD+R - DVD+RW - DVD-R - DVD-RW - CD-R - CD-RW - USB Stick

* Available in the following languages: EN, ES, FR, IT, PT, PL, RU, DK, SE, JP, CN
Components/Spare Parts see catalog KARL STORZ OR1 NEO®

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ TFT Flat Screens



W29519 N



W29519 NB

KARL STORZ TFT Flat Screens	19"
Desktop with Pedestal	W29519 N
Wall-mounted with VESA 100-adaption	W29519 NB
Inputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
SOG	●
DVI-D	●
Fiber Optic	—
VGA	●
Outputs:	
SDI	●
HD-SDI	●
RGBS	●
S-Video	●
Composite	●
DVI-D	●
Signal format displays:	
4:3	●
5:4	●
16:9	●
16:10	●
Picture-in-Picture (PiP, HD – SD)	●
Picture-in-Picture (PiP, HD – HD)	●
PAL/NTSC compatible	●
Picture-Perfect Technology	●

Accessories included in delivery:

- 400 A **Mains Cord**, length 300 cm
- 9419 PS **Power Supply**
- 9526 SF **Pedestal**, for 19", 24" and 26" monitors

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ TFT Flat Screens

W29519 N 19" KARL STORZ TFT Flat Screen

desktop with pedestal, color systems **PAL/NTSC**, max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

W29519 NB 19" KARL STORZ TFT Flat Screen

wall-mounted with VESA 100 adaption, color systems **PAL/NTSC**, max. screen resolution 1280 x 1024, power supply 100 – 240 VAC, 50/60 Hz

including:

- Power Supply**
- Mains Cord**
- BNC/BNC Video Cable**
- S-Video (Y/C) Connecting Cable**
- DVI-D Connecting Cable**
- SVGA Monitor Cable**

Specifications:

KARL STORZ TFT Flat Screens	19"
Desktop with Pedestal	W29519 N
Wall-mounted with VESA 100-adaption	W29519 NB
Brightness	300 cd/m ²
Max. viewing angle	178° vertical
Pixel distance	0.294 mm
Reaction time	10-16 ms
Contrast ratio	600:1
Mount	100 mm VESA
Weight	6.8 kg
Rated power	65 Watt
Operating conditions	0-38 °C
Storage	-20-60 °C
Relative humidity	5-85%, non-condensing
Dimensions w x h x d	465 x 400 x 98 mm
Power supply	100-240 VAC
Certified to	EN 60601-1, UL 60601-1, MDD 93/42/EEC, protection class IPX 1

Components/Spare Parts see catalog KARL STORZ OR1 NEO®

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ Touch Screens



20 0904 03/20 0904 06



20 0904 01/20 0904 05

KARL STORZ Touch Screens	15"	19"
Desktop with Pedestal	20 0904 03	20 0904 06
Wall-mounted with VESA 75/100-adaption	20 0904 01	20 0904 05
Inputs:		
VGA	●	●
SVGA	●	●
XGA	●	●
SXGA	-	●
Screen Diagonal:		
38 cm	●	-
48 cm	-	●
Max. Screen Resolution:		
1024 x 768	●	-
1280 x 1024	-	●

Specifications:

KARL STORZ Touch Screens	15"	19"
Desktop with Pedestal	20 0904 03	20 0904 06
Wall-mounted with VESA 75/100-adaption	20 0904 01	20 0904 05
Monitor type	TFT-LCD monitor with active matrix	TFT-LCD monitor with active matrix
Display	304 x 228 mm	376 x 301 mm
Touch Screen	AccuTouch	AccuTouch
Colors	16 million with pixel shading	16 million with pixel shading
Brightness	250 cd/m ² (typ.)	250 cd/m ² (typ.)
Viewing angle	Horizontal 80° Vertical 80°	Horizontal 85° Vertical 85°
Contrast ratio	400:1 (typ.)	500:1 (typ.)
Monitor reaction time	25 ms	25 ms
Pixel distance	0.30 mm	0.29 mm
Input signal level	0.7 Vpp	0.7 Vpp
Rated power	48 VA	90 VA
Connections	- D-Sub - VGA-compatible analog-RGBS	- D-Sub - VGA-compatible analog-RGBS
Power supply	100-240 VAC, 50/60 Hz	100-240 VAC, 50/60 Hz
Certified tot	EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1	EN 60601-1, CSA 22.2 No. 601.1, UL 2601-1
Mechanical values	- Weight: max. 6.5 kg - Dimensions w x h x d: 375 x 356 x 205 mm	- Weight: max. 10.5 kg - Dimensions w x h x d: 432 x 467 x 251 mm

Accessories

for AIDA compact NEO advanced/standard

KARL STORZ Touch Screens

20 0904 01 15" KARL STORZ Touch Screen

wall-mounted, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Adaptor, VESA 75

Signal cables: RS 232, SVGA

20 0904 03 15" KARL STORZ Touch Screen

desktop, VGA/SVGA/XGA, resolution max. 1024 x 768 (XGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

20 0904 05 19" KARL STORZ Touch Screen

wall-mounted, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Signal cables: RS 232, SVGA

20 0904 06 19" KARL STORZ Touch Screen

desktop, VGA/SVGA/XGA/SXGA, resolution max. 1280 x 1024 (SXGA mode), power supply 100 – 240 VAC, 50/60 Hz, with mains adaptor, CD driver and 3 touch screen covers

including:

Touch Pen

Pedestal

Signal cables: RS 232, SVGA

Accessories:

- 20 0904 81 **Mains Adaptor**, for 15" KARL STORZ Touch Screen 20 0903 31, with 300 cm low voltage cable
- 20 0904 85 **Mains Adaptor**, for 19" KARL STORZ Touch Screen 20 0904 37, with 300 cm low voltage cable
- 20 0903 86 **Touch Pen**, for KARL STORZ touch screens
- 20 0904 86 **Pedestal**, for 15" KARL STORZ Touch Screen 20 0903 31
- 20 0904 87 **Pedestal**, for 19" KARL STORZ Touch Screen 20 0903 37 and 20 0904 37
- 041165-20* **Sterile Cover**, for 15" KARL STORZ touch screen
- 041265-20* **Sterile Cover**, for 19" KARL STORZ touch screen



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Components/Spare Parts see catalog KARL STORZ OR1 NEO®

Accessories

for AIDA compact NEO advanced/standard



29005 SZ

Monitor Swivel Arm, height and side adjustable, can be mounted on the left or on the right side, swivel range 180°, reach 600 mm, for side boom as of 800 mm, loading capacity max. 14 kg, with monitor holder VESA 75/100, for Equipment Cart 29005 LAP/GU/BAS



20 0402 73

Bar Code Scanner



9370 TQ

Color Ink Jet Printer, with horizontal paper feed, incl. mains cord, USB printer cable, length 200 cm, black and color ink jet cartridges

9371 LA

Color Laser Printer, including mains cord, USB printer cable length 200 cm



20 0902 34

PS/2 Compact Keyboard, German version, with cover

20 0402 32

PS/2 Silicone Keyboard, German version, washable, disinfectable



20 0104 30

Two-Pedal Footswitch, two-stage

Accessories

for AIDA compact NEO advanced/standard

	200402 72	SVGA Connecting Cable , length 600 cm
	200400 73	RS 232 Connecting Cable , length 600 cm
	200400 74	Printer Cable , length 300 cm
	200401 74	Printer Cable , length 500 cm
	200103 70	Potential Equalization Cable , length 200 cm
	200102 70	Potential Equalization Cable , length 500 cm
	W20475	OR1™ Network Isolator , for galvanic decoupling of units with RJ45 network connection (100 Mbit)
	200900 34	Ethernet Network Board , 10/100 Mbit/s
	200900 37	Fiber Optic Network Board , 100 Base-FX (SC)
	200901 71	Fiber Optic Network Cable , LWL-patch cable with ST and SC plugs, configured, length 100 cm
	200900 36	Media Converter , converts a ST-Port 100 Base-FX to a RJ45 100 Base-TX, including power supply
	200400 76	RJ45 Network Cable , length 500 cm
	202040 80	CD-R , 700 MB, package of 10
	202040 81	DVD+RW , 4.7 GB, package of 5
	202040 82	DVD+R , 4.7 GB, package of 10
	202040 83	DVD-R , 4.7 GB, package of 10



NAVIGATION

NAV1® PICO

The Mobile Navigation System for ENT Surgery

Similar to car navigation technology, surgery also requires a tool that provides safe and secure orientation towards a destination by means of a patient roadmap, uncomplicated surgical routes and a clear indication of

danger zones. The system should always enable the surgeon to determine the exact location of an instrument in a patient's body. The KARL STORZ NAV1® PICO provides the surgeon with this ability.

Special Features:

- Mobile, space-saving system with intuitive handling
- Easy assembly and flexible use in the OR
- Durable, robust and autoclavable navigation instruments
- Autoclavable accessories



NAV1® PICO

The Mobile Navigation System for ENT Surgery



40 8000 01

- 40 8000 01** NAV1® PICO, positioning aid for navigated ENT surgery, including:
- Panel PC**, including installed ENT navigation software and passive touch pen
 - Optical Mouse**
 - Camera**
 - Electronic Box**
 - Docking Adaptor**, for panel PC, with CD-RW/DVD-ROM
 - Stand**, mobile, with locking knob for camera
 - Data Cable**
 - VGA Cable**
 - Camera Cable**
 - Headband with Plastic Holder**
 - Patient Tracker II**, with glass marker spheres, **autoclavable**
 - Case**, for panel PC, camera, electronic box, mobile stand and connecting cables
 - Navigation Probe**, with glass marker spheres, **autoclavable**
 - Mains Cord**

Components/Spare Parts see chapter 16

Probe, Patient Tracker and Headband

for NAV1® PICO



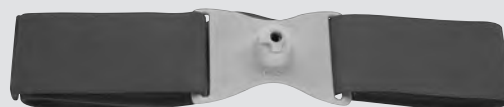
40 8001 10

40 8001 10 **Navigation Probe**, with 3 fixed glass marker spheres, autoclavable, dimensions: 295 x 15 x 30 mm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8000 87

40 8000 87 **Patient Tracker II**, with verification adaptor, 3 incorporated glass marker spheres and fixation screw, **autoclavable**, dimensions: 80 x 60 x 12 mm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8000 80

40 8000 80 **Headband**, for NAV1® PICO, standard size, with plastic holder for Patient Tracker II **40 8000 87**

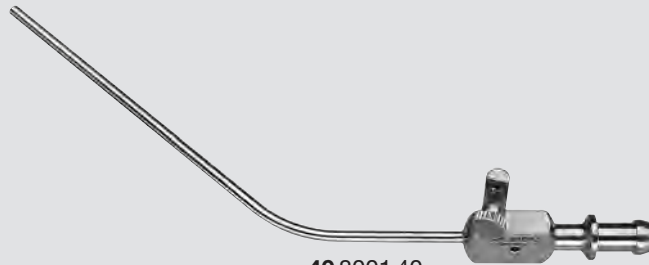
The autoclavable Probe **40 800110** with glass spheres for position tracking is a versatile, basic instrument for navigation.

The more user-friendly, autoclavable Patient Tracker II **40 8000 87** ensures position tracking and orientation of the patient.

Navigation Suction Tubes

angular, curved downwards, curved upwards

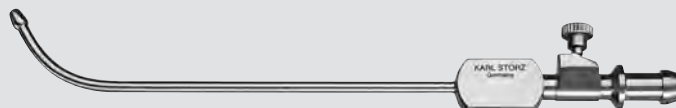
Outer diameter 3 mm, working length 9 cm



40 8001 40

40 8001 40 FRAZIER **Navigated Suction Tube**, angular, for right-handed use, with cut-off hole, 9 Fr., working length 10 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems

Outer diameter 3 mm, working length 11 cm



40 8001 50

40 8001 50 v. EICKEN **Navigated Suction Tube**, curved upwards, for right-handed use, outer diameter 3 mm, length 12.5 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems



40 8001 60

40 8001 60 v. EICKEN **Navigated Suction Tube**, curved downwards, for right-handed use, outer diameter 3 mm, length 12.5 cm, for use with KARL STORZ SURGICAL COCKPIT® Navigation Systems

Instrument Tracker

for NAV1® PICO

The autoclavable instrument tracker is designed for the navigation of various instruments. The small size of the

instrument tracker reduces the risk of collision and ensures very good instrument maneuverability.

Special Features:

- Miniaturized design
- Can be used for various navigation instruments



40 8001 20 **Tool Tracker**, for navigated instruments, with 3 fix-mounted glass spheres, **autoclavable**, dimensions: 70 x 50 x 14 mm, for use with navigated instruments **40 8001 4x**, **40 8001 5x**, **40 8001 6x** and **40 8001 7x**

Suction Tube Verification Adaptor

The autoclavable verification adaptor enables easy and secure verification testing of various navigation in-

struments. The adaptor is used to verify the proper functioning of navigation suction tubes prior to use.



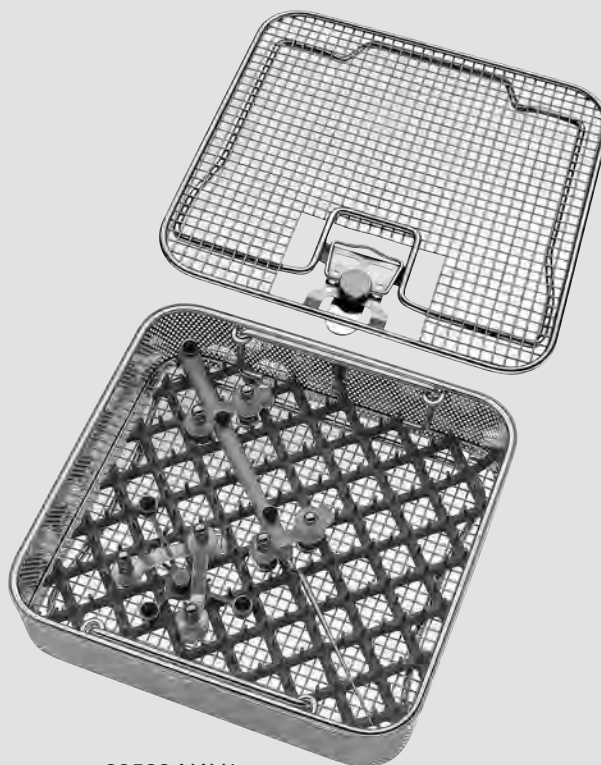
40 8001 30

40 8001 30 Suction Tube Verification Adaptor, autoclavable,
dimensions: 35 x 4 x 14 mm, for use with Patient
Tracker **40 8000 86**

Please note: This adaptor is not required for Patient Tracker II **40 8000 87**

Wire Tray for Navigation Probe and Patient Tracker

The wire tray ensures hygienic and secure sterilization, cleaning and storage of standard navigation instrument sets.



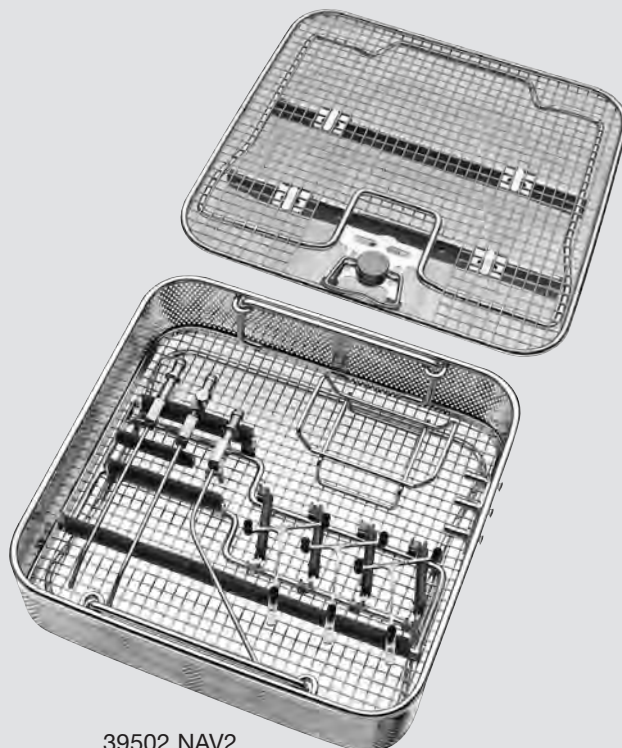
39502 NAV1

39502 NAV1 **Wire Tray for Cleaning, Sterilization and Storage** of one navigation probe and one patient tracker, with silicone knob mat, fixation system and lid, stackable, external dimensions (w x d x h): 240 x 250 x 70 mm

Please note: The instruments displayed are not included in the rack.

Wire Tray for Suction Tubes and Instrument Tracker

The wire tray ensures hygienic and secure sterilization, cleaning and storage of the suction tube sets.



39502 NAV2

39502 NAV2 **Wire Tray for Cleaning, Sterilization and Storage** of three suction tubes and three instrument trackers, with silicone knob mat and small parts basket, stackable, external dimensions (w x d x h): 240 x 250 x 70 mm

Please note: The instruments displayed are not included in the rack.

DrillCut-X® II N Shaver Handpiece

Special Features:

- Powerful motor
- Oscillation mode for shaver blades, max. 10,000 rpm
- Rotation mode for sinus shavers, max. 12,000 rpm
- Straight suction channel and integrated irrigation
- Variable handle allows connection with various handpieces
- Suitable for use in washer and autoclavable at 134° C
- Quick coupling mechanism for exchange of working inserts
- Proven DrillCut-X® blade portfolios can be used
- Adaptation possibilities for Shaver Tracker 40 8001 22
- Allows shaver navigation when used with NAV1® PICO 40 8000 01



40 7120 55

- 40 7120 55 DrillCut-X® II N Shaver Handpiece**, with adaption possibilities for Shaver Tracker **40 8001 22**, for use with UNIDRIVE® S III ECO/ENT/NEURO



40 8001 22

- 40 8001 22 Shaver Tracker, autoclavable**, with glass marker spheres incorporated, for use with DrillCut-X® II N Shaver Handpiece **40 7120 55** and navigation systems NPU **40 8000 01** and for NAV1® PICO **40 8100 01**

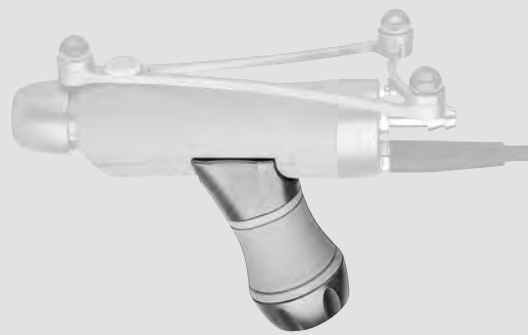
Handle for DrillCut-X® II Shaver Handpiece

for use with DrillCut-X® II 40 7120 50 and DrillCut-X® II N 40 7120 55

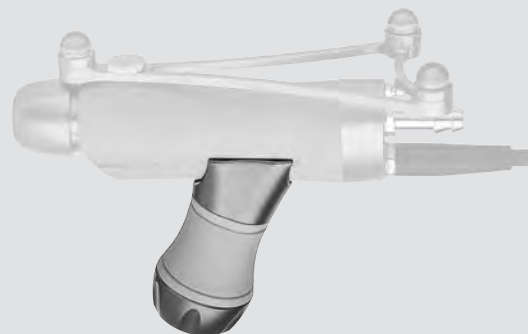
Special Features:

- Easy handle control allows individual adjustment
- Variable mounting options to DrillCut-X® II or DrillCut-X® II N shaver handpieces
- Easy fixation via rotary lock
- Suitable for use in washer and autoclavable at 134 °C

Positioning Handle 40 7120 90



40 7120 90



40 7120 90

40 7120 90 **Handle**, adjustable, for use with DrillCut-X® II **40 7120 50** and DrillCut-X® II N **40 7120 55**



MICROSCOPY

HD Imaging with Operating Microscopes

Direct Adaption



With the operating microscope the surgeon always has a good view of the operating field. Assistants, OR nurses and students, however, often experience poor video presentation, especially if FULL HD visualization is not available. KARL STORZ offers solutions that equip operating microscopes from leading manufacturers with FULL HD technology.

A standard connection between the camera and the microscope is the so-called direct adaption.

Here the H3-M COVIEW® microscope camera and the corresponding QUINTUS® TV adaptor are directly connected to the microscope via the C-MOUNT connection.



Direct adaption to the VARIO operating microscope from Carl Zeiss Meditec

HD Imaging with Operating Microscopes

System Overview

Camera and Camera Control Unit



+



IMAGE 1 HUB™ HD Camera Control Unit

H3-M HD Microscope Camera Head

TV Adaptors



or



or

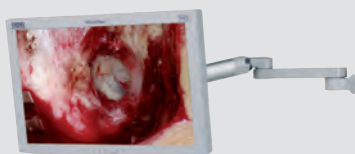


QUINTUS® TV Adaptor,
for CARL ZEISS MEDITEC

QUINTUS® TV Adaptor,
for LEICA Microsystems

QUINTUS® TV Adaptor,
for Möller Wedel

HD Monitor and ZeroWire



+



FULL HD WIDEVIEW Monitor
see catalog TELEPRESENCE

ZeroWire Video Transmission Set
see catalog TELEPRESENCE

Documentation System



KARL STORZ AIDA® compact NEO
advanced/standard (optional)
see catalog TELEPRESENCE

Accessories

Equipment Cart 29005 LAP
see catalog TELEPRESENCE

HD Imaging with Operating Microscopes

System Components



H3-M HD Microscope Camera Head

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 22201011U1xx and IMAGE1 HD Camera Control Unit SCB 22202011U1xx



22 2200 54-3 / 22 2201 54-3

22 2200 54-3	50 Hz	IMAGE1 H3-M COVIEW® Three-Chip FULL HD Microscope Camera Head
	60 Hz	

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color systems **PAL/NTSC**

22 2201 54-3	60 Hz	IMAGE1 H3-M Three-Chip FULL HD Microscope Camera Head

max. resolution 1920 x 1080 pixels, progressive scan, with C-MOUNT thread for coupling to microscopes, 2 freely programmable camera head buttons, with detachable camera head cable, length 900 cm, for use with color system **NTSC**

Specifications:

IMAGE1 FULL HD Camera Heads	H3-M
50 Hz	22 2200 54-3 (PAL)
60 Hz	22 2201 54-3 (NTSC)
Image sensor	3x 1/3" CCD chip
Pixel output signal H x V	1920 x 1080
Dimensions (w x h x l)	45 x 47 x 87 mm
Weight	260 g
Optical interface	C-MOUNT connection
Min. sensitivity	F 1.9/1.4 Lux
Grip mechanism	C-MOUNT connection
Cable	detachable
Cable length	900 cm

IMAGE 1 HUB™ HD Camera Control Unit



222010 11U1 IMAGE 1 HUB™ HD Camera Control Unit SCB

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, with integrated **KARL STORZ-SCB** and integrated digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x Connecting Cable, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

222010 11U102 IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI Module

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x Connecting Cables, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

Components/Spare Parts see catalog TELEPRESENCE

HD Imaging with Operating Microscopes

System Components



IMAGE 1 HUB™ HD Camera Control Unit



222010 11U112 **IMAGE 1 HUB™ HD Camera Control Unit SCB, with SDI/ICM module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module) and SDI (Serial Digital Interface) modules, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

2x **Connecting Cable**, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

2x **KARL STORZ USB Stick**, 4 GB



222020 11U110 **IMAGE1 HD Camera Control Unit SCB, with ICM module**

for use with IMAGE1 FULL HD three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated ICM (Image Capture Module), KARL STORZ-SCB** and digital Image Processing Module, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

2x **Connecting Cable**, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US-English character set

2x **KARL STORZ USB Stick**, 4 GB

Components/Spare Parts see catalog TELEPRESENCE

HD Imaging with Operating Microscopes

System Components

QUINTUS® – High-Performance TV Adaptor for Operating Microscopes

The QUINTUS® TV adaptor provides a solution for an interface between the surgical microscope and the IMAGE 1 S™ H3-M COVIEW® microscope camera head from KARL STORZ.

The product features of QUINTUS® are easy to use, making it a flexible TV adaptor.



QUINTUS® stands for 5 main features:

- A **rotating C-MOUNT connection** at the QUINTUS® TV adaptor allows immediate adaption of the camera orientation during mounting.
- The **focus control** makes it possible to easily achieve parfocality.
- The **iris control** provides convenient and optimal adjustment of the depth of field.
- **Pan (X) function** enables adjustment of the horizontal position of the camera image.
- **Tilt (Y) function** enables adjustment of the vertical position of the camera image. The pan and tilt functions helps the surgeon to adjust the position of the camera image according to individual needs.

Focal length of the QUINTUS® TV adaptor:

The QUINTUS® TV adaptor for H3-M COVIEW® HD microscope camera head is available in 2 focal lengths (45 and 55 mm). This provides an optimal FULL HD image in 16:9.

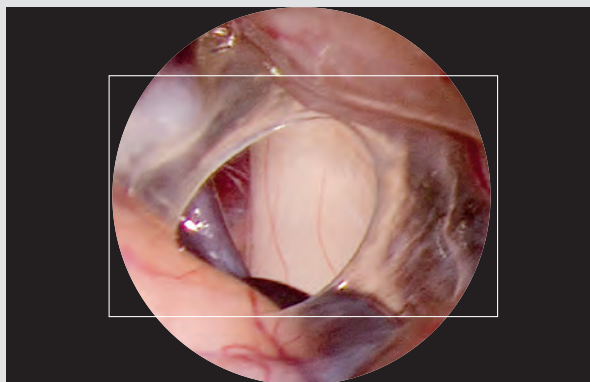


Fig. 1: Camera image detail with a focal length of 45 mm

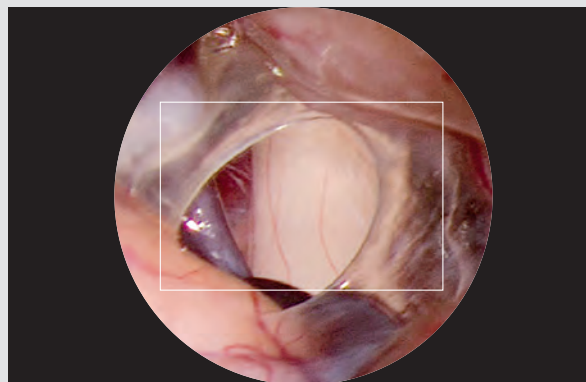


Fig. 2: Camera image detail with a focal length of 55 mm

HD Imaging with Operating Microscopes

System Components

QUINTUS® TV Adaptor



20 9230 45/20 9230 55

20 9230 45 **QUINTUS® Z 45 TV Adaptor**, for CARL ZEISS MEDITEC operating microscopes, f = 45 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW® camera heads

20 9230 55 **QUINTUS® Z 55 TV Adaptor**, for CARL ZEISS MEDITEC operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z as well as IMAGE1 S1 and S3 camera heads



20 9330 45/20 9330 55

20 9330 45 **QUINTUS® L 45 TV Adaptor**, for LEICA Microsystems operating microscopes, f = 45 mm, recommended for IMAGE1 H3-M/H3-M COVIEW® HD microscope camera heads

20 9330 55 **QUINTUS® L 55 TV Adaptor**, for LEICA Microsystems operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z and S1, S2 camera heads



20 9530 45/20 9530 55

20 9530 45 **QUINTUS® M 45 TV Adaptor**, for Möller-Wedel operating microscopes, f = 45 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW® camera heads

20 9530 55 **QUINTUS® M 55 TV Adaptor**, for Möller-Wedel operating microscopes, f = 55 mm, recommended for IMAGE1 HD H3-M/H3-M COVIEW®, H3, H3-Z and S1, S2 camera heads



20 9250 00

20 9250 00 **Iris**, for ZEISS Pentero®, iris as a necessary extension between the QUINTUS® TV adaptor and the operating microscope ZEISS Pentero®



301513

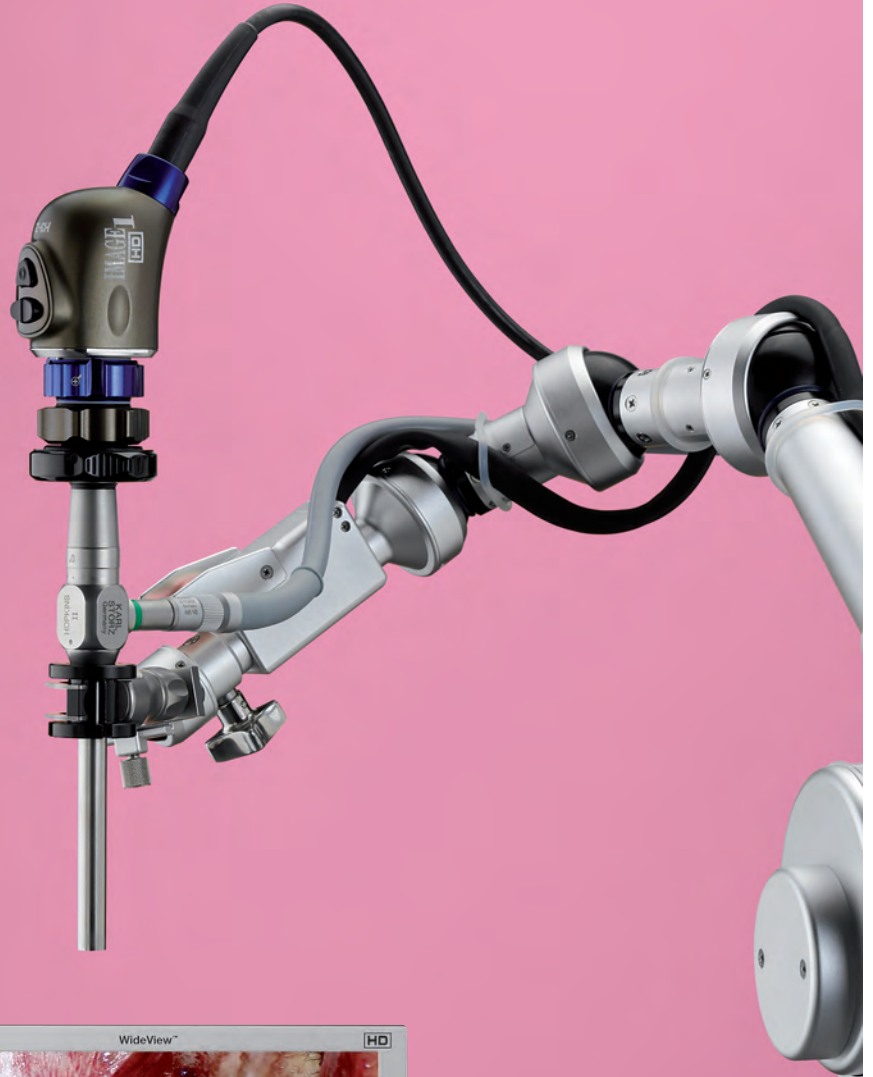
301513 **Optical Beamsplitter 50/50**, for use with ZEISS operating microscope or colposcope

Note: Optical beamsplitters for other operating microscopes (i.e. LEICA or Möller-Wedel) are available directly from the manufacturers.

VITOM® 25

Visualization System for Microsurgery

STORZ
KARL STORZ — ENDOSKOPE



8-111

VITOM® 25

Visualization System for Microsurgery

VITOM® 25 from KARL STORZ represents a possibility of displaying open surgery with minimal access in an ergonomic manner.

VITOM® 25 is based on the HOPKINS® II rod lens system from KARL STORZ. With the help of a holding system, the VITOM® 25 is placed at a working distance of 25 – 75 cm above the surgical field. This gives the surgeon more room to work.

Due to its slim and compact design, the surgical field is not obstructed and even long instruments can be used. The VITOM® 25 system provides great depth of field, optimal magnification as well as good contrast and color reproduction, which are optimal requisites for FULL HD display and recording.

Enhanced imaging can be observed via a FULL HD monitor by the surgeon, the assistant as well as the entire OR team.

The VITOM® 25 is equipped with an integrated illumination, which can be supplemented with an optional illuminator.

The system allows the further use of existing units. A FULL HD endoscope imaging solution from KARL STORZ can also be used with the VITOM® 25 exoscope.

The VITOM® 25 system offers:

- FULL HD image quality
- Great depth of view
- Large working distance
- Ergonomic monitor work
- Compact design
- Use of existing KARL STORZ FULL HD endoscopy system possible



Prof. Dr. G. Strauß, IRDC, Leipzig, Germany

VITOM® 25

System Overview

Exoscope and Illumination



Camera and Display



Holding System



Documentation System

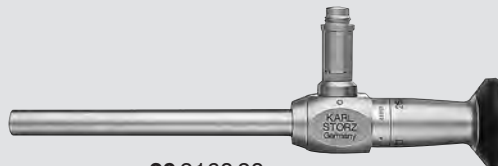


KARL STORZ AIDA® compact NEO advanced
see catalog TELEPRESENCE

Accessories

Equipment Cart 29005 LAP
see catalog TELEPRESENCE

Diameter 10 mm, length 11 cm



20 9160 20



20 9160 20 **VITOM® 25 Telescope 0°**, VITOM® 25 HOPKINS® II straight forward telescope 0°, working distance 25 – 75 cm, diameter 10 mm, length 11 cm, **autoclavable**, fiber optic light transmission incorporated, color code: green

Fiber Optic Light Cables 495 NE and NVB recommended



20 9180 20

20 9180 20 **VITOM® 25 Distance Rod**, length 25 cm

optional:



20 9170 00

20 9170 00 **VITOM® 25 Illuminator**, with 2 adjustable lenses and holding device for VITOM® 25 telescopes, **autoclavable**, for use with VITOM® 25 telescopes (20 9160 20 and equivalent models) and Y-Fiber Optic Light Cable 495 UV, not suitable for use with VITOM® telescopes of the 2nd generation with integrated illuminator

Y-Fiber Optic Light Cable 495 UV recommended

Working distance:	25 – 60 cm	
Depth of view at working distance of: Depth of view:	25 cm approx. 3.5 cm	50 cm approx. 7 cm
Field of view at working distance of: H3-Z camera zoom 1x H3-Z camera zoom 2x	25 cm 5 cm 3.5 cm	50 cm 10 cm 7 cm
Reproduction scale at working distance of:	25 cm	50 cm
26" Monitor: H3-Z camera zoom 1x H3-Z camera zoom 2x	approx. 8x approx. 16x	approx. 4x approx. 8x
42" Monitor: H3-Z camera zoom 1x H3-Z camera zoom 2x	approx. 14x approx. 28x	approx. 7x approx. 14x
52" Monitor: H3-Z camera zoom 1x H3-Z camera zoom 2x	approx. 17x approx. 34x	approx. 8x approx. 16x



Prof. Dr. G. Strauß, IRDC, Leipzig, Germany



495 NE



495 NVB

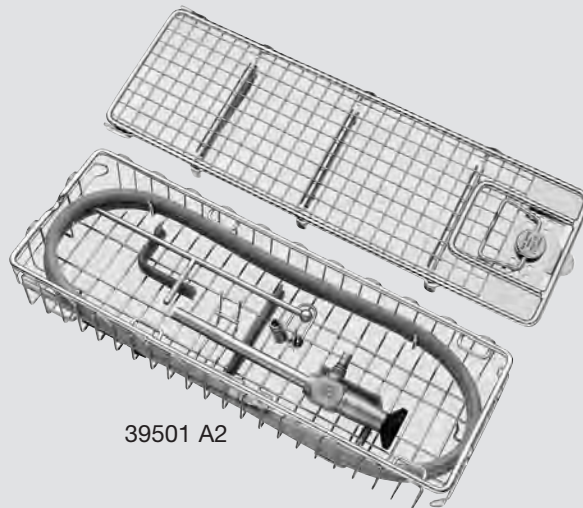


495 NVC

495 NE **Fiber Optic Light Cable,**
diameter 4.8 mm, length 300 cm

495 NVB **Fiber Optic Light Cable,** with 90° deflection to the
instrument, diameter 4.8 mm, length 300 cm

495 NVC **Fiber Optic Light Cable,** with 90° deflection
to the instrument, very narrow radius of
curvature, diameter 4.8 mm, length 300 cm



39501 A2

39501 A2 **Wire Tray for Cleaning, Sterilization and Storage**
of two rigid endoscopes and one light cable,
including holder for light post adaptors, silicone
telescope holders and lid, external dimensions
(w x d x h): 352 x 125 x 54 mm, for rigid endoscopes
up to diameter 10 mm and working length 20 cm

Cold Light Fountain XENON 300 SCB

Special Features:

- High light intensity due to 300 Watt Xenon lamp
- With integrated KARL STORZ Communication Bus (KARL STORZ-SCB)



20 1331 01-1 Cold Light Fountain XENON 300 SCB

power supply 100 – 125/220 – 240 VAC, 50/60 Hz
including:

Mains Cord

Silicone Tubing Set, length 250 cm

SCB Connecting Cable, length 100 cm

Specifications:

Lamp type	XENON 15 V, 300 Watt
Color temperature	6000 K
Light outlets	1
Light intensity adjustment	continuously adjustable via a membrane keyboard or KARL STORZ Communication Bus Signal

Dimensions w x h x d	305 x 165 x 335 mm
Weight	7.96 kg
Certified to	IEC 601-1 and UL 544, protection class 1/CF

Spare Lamps and Spare Lamp Modules for Cold Light Fountains XENON and Components/Spare Parts
see catalog TELEPRESENCE



**222010 11U102 IMAGE 1 HUB™ HD Camera Control Unit SCB,
with SDI Module**

for use with IMAGE1 FULL HD and IMAGE1 standard one- and three-chip camera heads, max. resolution 1920 x 1080 pixels, **with integrated SDI (Serial Digital Interface) module, KARL STORZ-SCB** and digital Image Processing Module, color systems PAL/NTSC, power supply 100 – 240 VAC, 50/60 Hz

including:

Mains Cord

BNC/BNC Video Cable

S-Video (Y/C) Connecting Cable

Special RGBS Connecting Cable

2x Connecting Cables, for controlling peripheral units

DVI-D Connecting Cable

SCB Connecting Cable

Keyboard, with US English character set

IMAGE1 FULL HD Camera Head for Endoscopy and Microscopy

For use with IMAGE 1 HUB™ HD Camera Control Unit SCB 222010 11U102



222200 55-3

NEW 222200 55-3 **50 Hz** **IMAGE1 H3-Z**
60 Hz **Three-Chip FULL HD Camera Head**

max. resolution 1920 x 1080 pixels, progressive scan, soakable, gas- and plasma-sterilizable, with integrated Parfocal Zoom Lens, focal length $f = 15 - 31$ mm (2x), 2 freely programmable camera head buttons, for use with color systems **PAL/NTSC**

Accessories




533 TVA

- 040112-40* **Camera Cover**, folded inside out, 13 x 242 cm, sterile, for single use, package of 25, for use with all standard endoscopic video camera systems
- 040112-160* **Same**, package of 160
- 533 TVA **Adaptor, autoclavable**, permits telescope changing under sterile conditions

Specifications:

IMAGE1 FULL HD Camera Head	H3-Z
50/60 Hz	222200 55-3
Image sensor	3x 1/8" CCD chip
Pixel output signal H x V	1920 x 1080
Dimensions (w x h x d)	39 x 49 x 114 mm
Weight	270 g
Optical interface	Integrated Parfocal Zoom Lens, $f = 15-31$ mm (2x)
Min. sensitivity	F 1.4/1.17 Lux
Grip mechanism	standard eyepiece adaptor
Cable	non-detachable
Cable length	300 cm

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Optional Accessories for IMAGE 1 HUB™ HD see catalog TELEPRESENCE

KARL STORZ WIDEVIEW™ HD Monitors



9524 N/NO
9526 N/NO



9524 NB/NBO
9526 NB/NBO

KARL STORZ HD Flat Screens	24"		26"	
Desktop with pedestal	9524 N	9524 NO	9526 N	9526 NO
Wall-mounted with VESA 100-adaption	9524 NB	9524 NBO	9526 NB	9526 NBO
Inputs:				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
SOG	●	●	●	●
DVI-D	●	●	●	●
Fiber Optic	—	●	—	●
VGA	●	●	●	●
Outputs:				
SDI	●	●	●	●
HD-SDI	●	●	●	●
RGBS	●	●	●	●
S-Video	●	●	●	●
Composite	●	●	●	●
DVI-D	●	●	●	●
Displayable Signal Formats:				
4:3	●	●	●	●
5:4	●	●	●	●
16:9	●	●	●	●
16:10	●	●	●	●
Picture-in-Picture	●	●	●	●
PAL/NTSC compatible	●	●	●	●

The following accessories are included:

Mains Cord

External 24VDC Power Supply

Signal Cable

Pedestal (only 9524 N/NO and 9526 N/NO)

The systems can be operated with KARL STORZ-SCB units.

Video Connecting Cables see catalog TELEPRESENCE

ENDOCRANE® Holding System

The ENDOCRANE® holding system features a special piezoelectric locking joint mechanism.

This achieves positioning without misalignment as well as rapid locking (30 ms).

The system can be used with one hand and the large working radius of 50 cm allows variable use. A holding capacity of 20 N (2 kg) is possible in any position.

The holding arm features a fail-safe function which prevents a loss of retention force in the case of malfunction, i. e. power failure.

The system is compact and can be mounted directly on standard OR table rails.



28272 EH

ENDOCRANE® Holding System

Product Features

- **Safety**

The fail-safe function of the ENDOCRANE® prevents loss of retention force and ensures that the arm does not collapse in case of malfunction.

- **Speed**

The piezoelectric principle enables the joints of the ENDOCRANE® to close in 30 ms and ensures a holding force of 20 N in all positions.

- **Convenience**

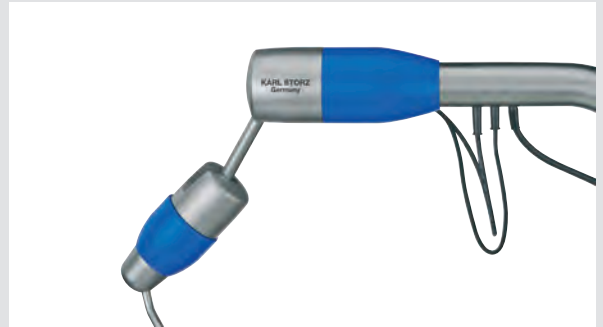
Single-handed use via the handle.

- **Flexibility**

ENDOCRANE® is equipped with the proven KARL STORZ rapid coupling, which ensures fast and secure mounting of various clamping jaws. The ENDOCRANE® handle also has a manual ball joint to allow convenient fine adjustment.

- **Hygiene**

The ENDOCRANE® holding arm is equipped with a sterile cover during use.





28272 EH

- 28272 EH **ENDOCRANE®**, piezoregulated holding arm, including stand including:
- Socket**, to clamp to the OR table
 - Control Unit**
 - Cover***, sterile, package of 25
 - Spring Balance**
 - Mains Cord**
 - Case**



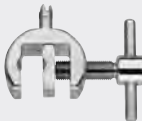





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A clamping jaw is required to complete the ENDOCRANE® holding system.
Clamping jaws for the ENDOCRANE® holding system see page 749
Components/Spare Parts see chapter 16


ENDOCRANE® Holding System

Accessories

	28272 UGN	Clamping Jaw , metal, clamping range 16.5 up to 23 mm, with quick release coupling KSLOCK (male), for use with all square-headed KARL STORZ HOPKINS® telescopes
	28272 UKN	Clamping Jaw , metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths
	28272 UL	Clamping Jaw , universal, clamping range 0 to 18 mm, with quick release coupling KSLOCK (male)
	28272 UF	Clamping Jaw , for use with all KARL STORZ polymer housing fiberscopes, with quick release coupling KSLOCK (male)
	28272 C	Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope.
	040146-25*	Cover , sterile, package of 25

Specifications:

Arm:		Control Unit:	
Maximum holding capacity	2 kg/20 N	Power supply	100 – 240 VAC
Working radius	500 mm/19.7"	Mains frequency	50/60 Hz
Swivel range	360°	Weight	5 kg/11.0 lbs
Maximum locking time	30 ms (fail-safe)	Dimensions (w x h x d))	305 x 80 x 305 mm
Weight of holding arm and stand	7 kg/15.4 lbs		
Protection against electric shock	Type B		
Type of protection	IP 40		

8-111
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Specifications subject to change.

POINT SETTER® Holding System

The POINT SETTER® holding system offers a solution for positioning endoscopes as well as cameras, retractors or other instruments.

The POINT SETTER® holding arm is mounted directly to the operating table.

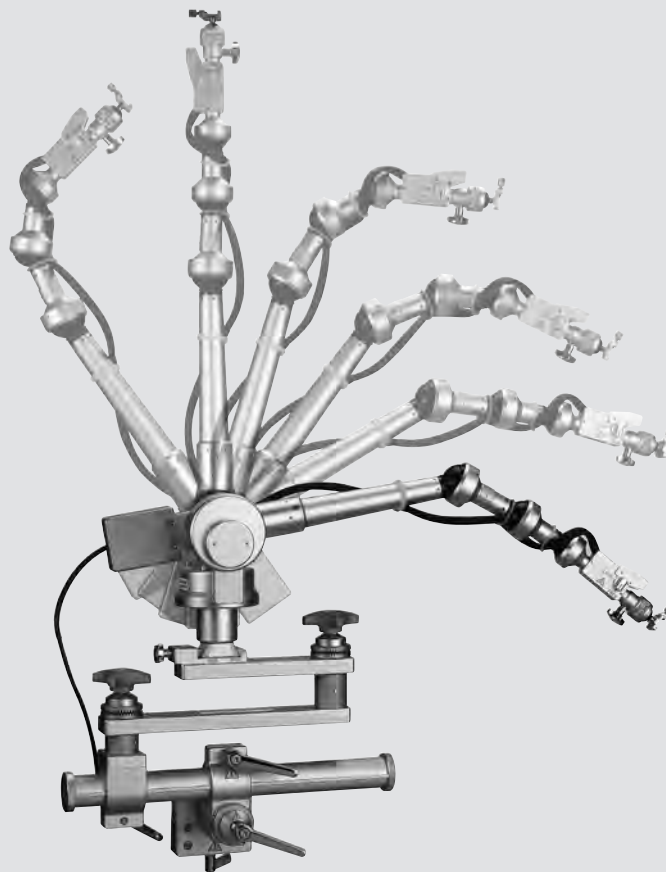
Furthermore, the POINT SETTER® holding arm allows convenient single-handed use. Pressing and holding the

control button on the handle releases the arm for quick and accurate positioning. The POINT SETTER® arm locks as soon as the button is released.

The flexible OR table adaptor and the arm length of 65 cm provides more work space combined with a holding capacity of 2 kg.

Special Features:

- The self-locking pneumatic system ensures that low, fluctuating or deficient gas pressure does not affect the stability of the arm.
- A press of a control button releases the arm immediately for quick positioning.
- Side guards prevent accidental activation of the POINT SETTER® arm.
- A locking mechanism offers additional safety.
- A manual ball joint at the tip of the handle enables convenient fine-tuning.
- Precise positioning without forward or backward motion.



POINT SETTER® Holding System

Product Features

- **Safety**

The POINT SETTER® arm operates according to a self-locking principle similar to a spring-loaded brake. Low, fluctuating or deficient gas pressure does not effect arm stability. The arm cannot collapse even if all pressure tubes are cut off.

- **Recoil-free Positioning**

The POINT SETTER® arm enables precise positioning.

- **Convenient Use**

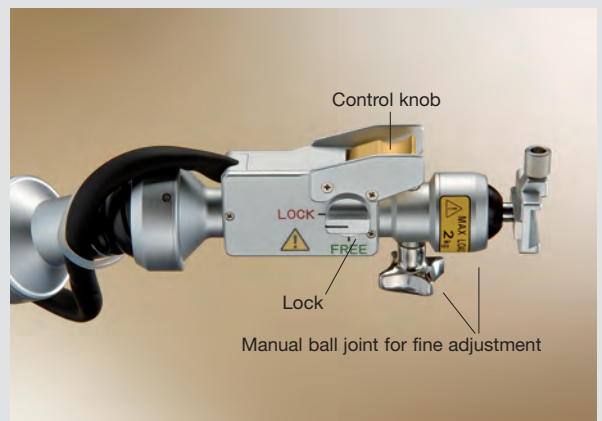
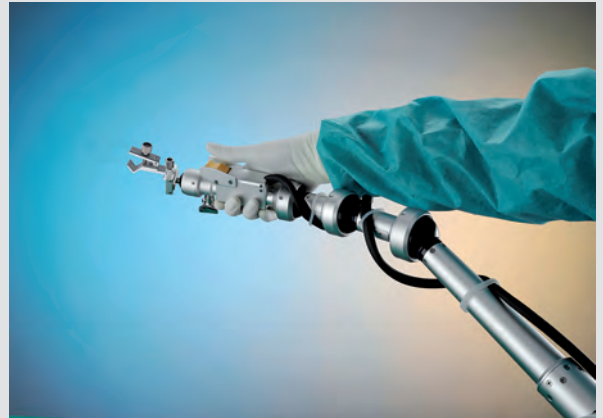
The POINT SETTER® arm was designed for single-handed use. Pressing the control button releases the arm immediately and enables quick positioning. The control button has an elevated side guard that prevents unintentional activation of the POINT SETTER® arm. A locking mechanism offers additional safety.

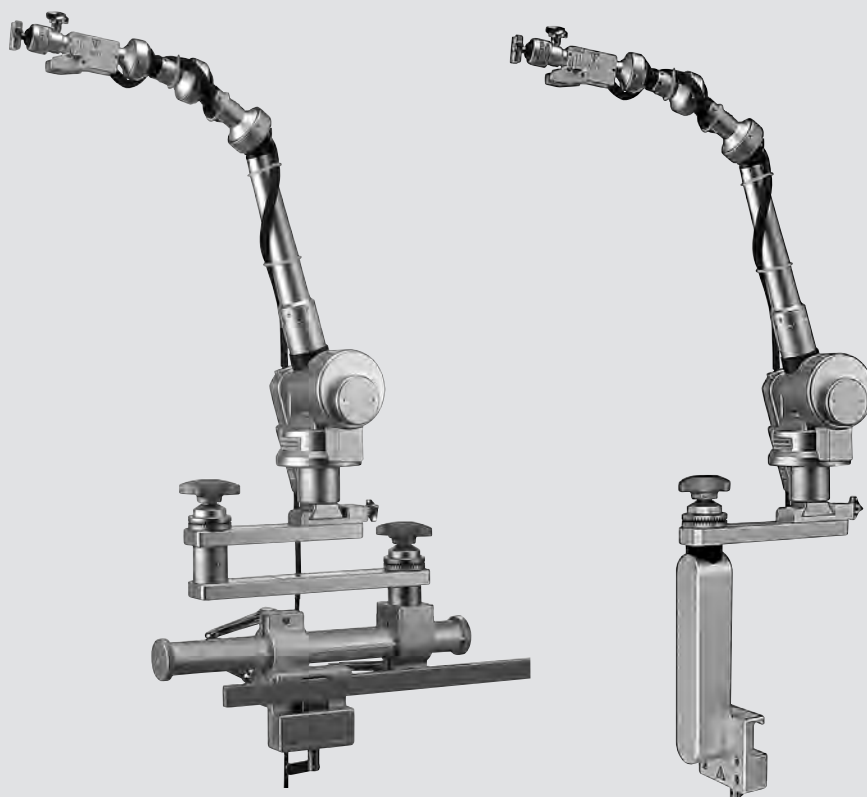
- **Manual Fine-tuning**

A manual ball joint at the tip of the handle enables convenient fine-tuning.

- **Robust Design**

The POINT SETTER® arm is very robust and has high torsional stiffness for low oscillation.





28172 WS

28172 WL

28172 WS **POINT SETTER®**, pneumatic holding system with OR table adaptor including:

Universal Adaptor, for use with telescopes diameter 10 – 15 mm

Universal Adaptor, for use with telescopes diameter 5 – 10 mm

Universal Adaptor, 10 – 15 mm, pediatric

Schrader Pressure Hose, length 600 cm, for USA and Asia

Case, for POINT SETTER® arm

Drape, for single use, sterile, package of 10

28172 WL **Same**, with OR table adaptor, **simplified version**

For faster installation and more straightforward handling of the POINT SETTER® holding arm, Set 28172 WL offers a lighter OR table adaptor with less setting options than the standard OR table adaptor.

Specifications subject to change.

POINT SETTER® Holding System

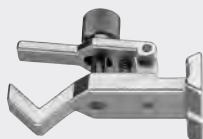
Spare Universal Adaptor, for complementing the POINT SETTER® System



28172 WV **Universal Adaptor**, 10 – 15 mm,
for use with POINT SETTER®



28172 WU **Universal Adaptor**, 5 – 10 mm,
for use with POINT SETTER®



28172 WX **Universal Adaptor**, 10 – 15 mm,
pediatric, for use with POINT SETTER®



28172 WR **Retractor Blade Holder**, for holding
spatulas and retractors in ENT and
NEURO, for use with POINT SETTER®

Alternative and Spare Connecting Tubes

	28172 WA	Connecting Tube , for POINT SETTER®, Dräger, max. pressure 8 bar/115 psi, length 600 cm
	28172 WB	Connecting Tube , for POINT SETTER®, Dräger air motor, max. pressure 8 bar/115 psi, length 600 cm
	28172 WC	Connecting Tube , for POINT SETTER®, compressor, max. pressure 8 bar/115 psi, length 600 cm
	28172 WN	Connecting Tube , for POINT SETTER®, Schrader, max. pressure 8 bar/115 psi, length 600 cm
	28172 WO	Connecting Tube , for POINT SETTER®, with open end, max. pressure 8 bar/115 psi, length 600 cm

Accessories and Expendable Materials

	20 0310 02	Air Compressor , for POINT SETTER®, 0 – 8 bar, power supply 230 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg including: Fabric Reinforced Tube , for connecting CALCUSPLIT® SCB 27 6300 20 Connecting Tube , length 600 cm, for use with POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar
	20 0310 02 C	Same , power supply 115 VAC, 50/60 Hz
	2761291	Pressure Regulator , 7 bar, for POINT SETTER®, must be used for pressure > 8 bar on supply line
	28272 C	Clamping Cylinder , for flexible mounting of 10 mm telescopes to telescope sheath, autoclavable . The clamping cylinder allows vertical movement and rotation of the telescope. For use with Clamping Jaw 28172 UG and 28272 UGN as well as POINT SETTER® universal adaptor 10 – 15 mm
	28272 ECW	Spring Balance , loading capacity 25 N
	28172 WD	Drape , for single use, sterile, package of 10

Components/Spare Parts see chapter 16

STOR-E® Transport Cart

for POINT SETTER® Holding Arm

With the aid of the transport cart, the POINT SETTER® holding system can be transported into the OR.

The components of the POINT SETTER® holding system are safely suspended from the cart.

Special Features:

- Mobile and safe storage of the POINT SETTER® holding arm
- POINT SETTER® is ready for immediate use in the OR
- Offers space for the POINT SETTER® with standard OR table adaptor, connecting tube, sterile covers and small parts



20 0200 59

- 20 0200 59 **STOR-E® Transport Cart**, for the POINT SETTER® holding arm including:
Attachment Set, for POINT SETTER®
Wire Basket

Components/Spare Parts see chapter 16



**COMPONENTS
SPARE PARTS**

Introduction

The chapter “Components / Spare Parts” contains detailed information on KARL STORZ instruments.

For easy location and reference, an index is available which lists the order number of the spare parts as well as those of the entire instrument, set or unit.

Hotline

Queries concerning products, exchange, maintenance and cleaning can be addressed to the KARL STORZ EP1 Hotline: 07461/708-980, from Monday to Thursday from 7-18 h and Friday from 7-17 h.

For example:

Components / Spare Parts		Catalog page
095501	Headlight “CLAR 73” , with straight plug	11
095502	Headlight “CLAR 73” , with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the light source	
078730	Headband , fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505	
078681	Clip with Band , for attaching fiber optic light cable to OR clothing	
Components / Spare Parts		Catalog page
078730	Headband , for 094051	12
Spare Parts		
	078502 Screw Cap	
	078503 Brake Cylinder , 3-part, for ball joint	
		078511 Forehead Cushion , with push-button lock
		310073 Protection Clip , for cold light cable, for fixing the light cable to the headband, 2 pcs

Components/spare parts with corresponding order number of the instrument and reference to catalog page

Table of Contents

COMPONENTS / SPARE PARTS

HEADMIRRORS

Reflectors, Headbands	SP 4-SP 5
Headlights	SP 6-SP 11
Headlights – LED Headlights	SP 12-SP 14
Headlights – Headlights “CLAR 73”	SP 15-SP 17
Headlights – Headlights KS60	SP 18-SP 19
Headlights – Headlight “CLAR 55”	SP 20-SP 21

OTOSCOPES

HOPKINS® Telescopes	SP 22-SP 23
Tele-Otoscopes	SP 22

NASAL SPECULA

SP 24-SP 25

SEPTUM MORCELIZER

SP 25

SINOSCOPIES

ENDOCAMELEON® ENT HOPKINS® Telescope	SP 26
HOPKINS® II Telescopes	SP 26-SP 27

SUCTION AND IRRIGATION TUBES

Suction Tubes	SP 28-SP 30
Suction Elevator, Suction Raspatory	SP 29
Suction and Irrigation Tubes	SP 31
Irrigation and Suction Handles	SP 32

LARYNX INSTRUMENTS

SP 31

SIALENDOSCOPES

Miniature Straight Forward Telescopes	SP 33-SP 34
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FORCEPS AND PUNCHES

SP 35-SP 36

TONGUE BLADES AND MOUTH GAGS

SP 37-SP 39

STROBOSCOPE

SP 39

FLEXIBLE ENDOSCOPES

Rhino-Pharyngo-Laryngo-Fiberscope, Adaptor for Two-Way Stopcock	SP 40
Suction Unit, Suction Valve	SP 41
Broncho-Fiberscope	SP 42

TELE PACK X

SP 42

LARYNGOSCOPES

HOPKINS® and HOPKINS® II Telescopes	SP 43
-------------------------------------	-------

BRONCHOSCOPES

Universal Bronchoscopes for Adults	SP 46
Bronchoscopes for Adults	SP 47-SP 48
Bronchoscopes for Children	SP 50

OPTICAL INTUBATION TRACHEOSCOPE

SP 49

TONN STENT APPLICATOR

SP 49

ESOPHAGOSCOPES

HOPKINS® Telescopes, Miniature Straight Forward Telescope	SP 51
Esophagoscope Tubes, Handle	SP 52-SP 53

FOREIGN BODY BASKETS

SP 54

FREITAG STENT FORCEPS

SP 55

FLUORESCENCE

HOPKINS® Telescopes	SP 56
---------------------	-------

MISCELLANEOUS

VITOM® 25 Telescope	SP 57
Transformers, Aspirator and Bronchus Irrigator	SP 58
ENT Diagnosis Set	SP 59
Pneumatic Adaptor, Rubber Bulb	SP 60
Otoscope, Tuning Forks, Noise Apparatus	SP 61
Battery Light Source LED for Endoscopes, Nystagmus Spectacles	SP 62
Diagnostic Tube, Powder Blower	SP 63
Ear Knives	SP 64
Ear Snares	SP 65
Metal Mallets	SP 66
Dura Retractor, Glomus Retractor	SP 67
Wire Bending Die, Ventilation Drainage Tube Inserter, Cartilage Cutting Block	SP 68
Metal Tray, Metal Cases, MiniSet Container	SP 69
Metal Tray, Instrument Racks	SP 70
TAKE APART® Bipolar Forceps	SP 71
Nasal Atomizers	SP 72
Nasal Snares	SP 73
Retractor, LASER Application Instrument	SP 74
Nasal Retractor, Bone Crusher	SP 75
Caliper, Surgical Handle	SP 76
Rotating Clamp and Flexible Tension Arm	SP 77
Uvula Retractor, Chest Supports, Tonsil Snare	SP 78
Tonsil Snares	SP 79
High Pressure Syringes	SP 80
Battery Handles	SP 81
Rubber Insufflation Bulb	SP 82
Laryngoscope Holders and Chest Supports	SP 82-SP 83
Support Table, Chest Support	SP 84
Micro Saws	SP 85
SCHMÄL CARTCUT® Cartilage Cutter	SP 90
STAMMBERGER-SACHSE Intranasal Drill	SP 90
BOWMAN Lachrymal Probe, Training Model	SP 90
Holding Systems	SP 91-SP 92
KARL STORZ NAV1® PICO	SP 93

MOTOR SYSTEMS

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO	SP 86
Universal Spray	SP 86
Suction Shaver Blades, Cleaning Adaptor	SP 87
INTRA Drill Handpieces	SP 88
High-Speed Handpieces	SP 89

SUCTION AND IRRIGATION SYSTEMS

UNIMAT® 30	SP 44
UNIMAT® 30 – Aspirators	SP 45
CLEARVISION® II	SP 94

HIGH FREQUENCY SURGERY UNITS

AUTOCON® II 400 SCB	SP 95
AUTOCON® 200	SP 95-SP 96
AUTOCON® 50	SP 97
Surgery Electrodes Set	SP 98

Numerical Index

COMPONENTS / SPARE PARTS

Product	Page	Product	Page	Product	Page
031131-03	SP 86	094124	SP 13	10337 TA	SP 49
040146-25	SP 91	094125 A	SP 13	10337 TB	SP 49
074090	SP 4	094127	SP 13	10338 N	SP 50
074091	SP 4	094129	SP 13	10338 P	SP 50
074092	SP 4, SP 5	094130	SP 13	10338 S	SP 50
074093	SP 4, SP 5	094301	SP 10	10381 A	SP 28
074094	SP 4, SP 5	094302	SP 10	10381 AE	SP 28
074095	SP 4	094305	SP 10	10381 AK	SP 28
075090	SP 4	094306	SP 10	10381 AL	SP 28
075095	SP 4	094320	SP 10	10381 B	SP 28
075096	SP 4	094322	SP 10	10382 A	SP 28
075097	SP 4	094325	SP 11	10382 AE	SP 28
076090	SP 5	094326	SP 11	10382 AK	SP 28
076091	SP 5	094330	SP 11	10382 AM	SP 28
076095	SP 5	094332	SP 11	10382 B	SP 28
077090	SP 5	095501	SP 2, SP 15	10386 AE	SP 54
077095	SP 5	095502	SP 2, SP 15, SP 16	10386 AL	SP 54
077096	SP 5	095503	SP 16	10386 B	SP 54
078502	SP 2, SP 7, SP 17	095505	SP 15	10386 BE	SP 54
078503	SP 2, SP 7, SP 17	095506	SP 15, SP 16	10386 VH	SP 54
078511	SP 7, SP 8, SP 9, SP 11, SP 14, SP 17, SP 19	095507	SP 16	10432 E	SP 45
078681	SP 6, SP 8, SP 9, SP 10, SP 11, SP 15, SP 18	10005 AA	SP 43	10432 G	SP 45
078730	SP 6, SP 7, SP 15, SP 17	10005 BA	SP 43	10432 N	SP 45
078740	SP 10, SP 11	10017 AA	SP 48	10432 T	SP 45
078760	SP 12, SP 13, SP 14	10018 AA	SP 48	10434	SP 58
084508	SP 7	10020 ATA	SP 51	10455 A	SP 58, SP 72
087200	SP 20	10023 ABA	SP 48	10510 AA	SP 55
087201	SP 20, SP 21	10030 AA	SP 51	10510 B	SP 55
087202	SP 21	10101 FA	SP 47, SP 53	10510 CA	SP 55
087203	SP 21	10101 HA	SP 48	10510 N	SP 55
087204	SP 21	102201 B	SP 58	10520	SP 49
087205	SP 21	102201 C	SP 58	10521	SP 49
087206	SP 21	10314 BN	SP 47	10522	SP 49
087284	SP 20, SP 21	10314 P	SP 47	10523	SP 49
087290	SP 20	10315 N	SP 46	10524	SP 49
087294	SP 20	10315 P	SP 46	10525	SP 49
087295	SP 20	10317 EF	SP 48	10526	SP 49
087296	SP 20	10317 EL	SP 48	10530	SP 49
087297	SP 20	10318 B	SP 46	10531	SP 49
094005	SP 7	10318 C	SP 46	10532	SP 49
094051	SP 6	10318 D	SP 46	10533	SP 49
094053	SP 6, SP 7	10318 L	SP 46	10534	SP 49
094055	SP 6	10318 S	SP 46	10535	SP 49
094100	SP 12	10320 AA	SP 48	10536	SP 49
094103	SP 12, SP 13	10320 AP	SP 56	10540	SP 49
094104	SP 12, SP 13	10320 BA	SP 48	10542	SP 49
094105	SP 13	10320 BP	SP 56	10544	SP 49
094108	SP 12	10320 DA	SP 48	10545	SP 49
094108 B	SP 12, SP 62	10320 DP	SP 56	10546	SP 49
094109	SP 14	10324 AA	SP 51	10550	SP 49
094110	SP 12	10324 BA	SP 48	10552	SP 49
094120	SP 13	10328 AA	SP 48	10554	SP 49
		10337 T	SP 49	10555	SP 49

Numerical Index

COMPONENTS / SPARE PARTS

Product	Page	Product	Page	Product	Page
10556	SP 49	12030 A	SP 53	155201	SP 64
1069400	SP 44	12030 AL	SP 53	164000	SP 65
1069500	SP 44	12030 B	SP 53	164001	SP 65
108210	SP 20, SP 21	12030 C	SP 53	164002	SP 65
108211	SP 21	12030 F	SP 53	164003	SP 65
108213	SP 21	12030 G	SP 53	164004	SP 65
108214	SP 21	12070	SP 53	164100	SP 65
108222	SP 21	121300	SP 61	164101	SP 65
11001 BI	SP 42	121302	SP 61	164102	SP 65
11001 BN	SP 42	121303	SP 61	164103	SP 65
11001 RD	SP 40	121304	SP 61	164800	SP 65
11001 UD	SP 40	121305	SP 61	174700	SP 66
11002 BD	SP 42	121306	SP 61, SP 62	174701	SP 66
11003 BC	SP 42	121306 P	SP 12, SP 62	174800	SP 66
11004 BC	SP 42	121310	SP 61	174801	SP 66
11004 BI	SP 42	121311	SP 61	20014230	SP 94
11005 BC	SP 42	121320	SP 61	20016630	SP 86
11009 BC	SP 42	1215 AA	SP 22	20020050	SP 92
11009 BI	SP 42	1216 AA	SP 23	20020053	SP 92
11101 RP	SP 40	1218 AA	SP 22	20020059	SP 92
11101 SK	SP 40	1218 BA	SP 22	20031002	SP 92
11101 SP	SP 40	1230 AA	SP 23	20031002 C	SP 92
11301 D4	SP 62	1230 BA	SP 23	20031020	SP 92
11572 A	SP 33	1232 AA	SP 22	20031020 C	SP 92
11573 A	SP 33	1232 BA	SP 22	20040240US	SP 42
11574 A	SP 33	125501	SP 61	20040280	SP 42
11575 A	SP 33	125601	SP 61	20045001-EN	SP 42
11576 A	SP 34	126000	SP 61	20090170	SP 86, SP 95
11576 TJ	SP 35	126001	SP 61	2026890	SP 58
11576 ZJ	SP 35	126100	SP 59, SP 61	2027290	SP 58
11577 A	SP 34	130000	SP 61	2027390	SP 94
11581 A	SP 33	130001	SP 61	2027590	SP 86, SP 97
11582 A	SP 33	138700	SP 59	2027690	SP 95, SP 96
11583 A	SP 33	138805	SP 62	2028090	SP 96
11583 TJ	SP 35	138806	SP 62	20330088	SP 94
11583 ZJ	SP 35	138807	SP 62	204405	SP 28
11900 AE	SP 41	138905	SP 62	204405 E	SP 28
11900 AS	SP 41	138964	SP 62	204407	SP 28
11900 AV	SP 41	13991 DA	SP 41	204407 E	SP 28
11900 AZ	SP 41	148500	SP 63	204409	SP 28
11900 VA	SP 41	148608	SP 63	204409 E	SP 28
119500	SP 60	148609	SP 63	204806	SP 29
119501	SP 60	148610	SP 63	204806 E	SP 29
119650	SP 60	148710	SP 63	204808	SP 29
119651	SP 60	148720	SP 63	204808 E	SP 29
12015 AA	SP 51	148722	SP 63	204809	SP 29
12016 E	SP 52	148725	SP 63	204809 E	SP 29
12016 EF	SP 52	149307	SP 63	204810	SP 29
12016 EH	SP 52	149320	SP 63	204810 E	SP 29
12016 EM	SP 52	149324	SP 63, SP 72	204812	SP 29
12016 F	SP 52	155000	SP 64	204812 E	SP 29
12016 FF	SP 52	155001	SP 64	204815	SP 29
12016 FM	SP 52	155200	SP 64	204815 E	SP 29

Numerical Index

COMPONENTS / SPARE PARTS

Product	Page	Product	Page	Product	Page
20520501	SP 97	231028	SP 68	25320083	SP 44
20520520	SP 97	231030	SP 68	25320084	SP 44
20522501	SP 95	231032	SP 68	25320085	SP 44
20522501 C	SP 96	231035	SP 68	254000	SP 85
20522501-010	SP 96	233250	SP 74	254020	SP 85
20522501C010	SP 96	233250 A	SP 74	254021	SP 85
20522520	SP 95	233250 B	SP 74	254100	SP 85
20522520 C	SP 96	239000	SP 69	254200	SP 85
20522520-010	SP 96	239001	SP 69	254300	SP 85
20522520C010	SP 96	239075	SP 69	26284 HM	SP 71
20530008	SP 98	239076	SP 69	26520031	SP 98
20530031	SP 98	239728	SP 70	26520032	SP 98
20535201-111	SP 95	239728 F	SP 69	26520033	SP 98
20535201-112	SP 95	239728 FA	SP 69	26520034	SP 98
20535201-113	SP 95	239728 FE	SP 69	26520035	SP 98
20535201-114	SP 95	239728-1	SP 70	26520036	SP 98
20535201-115	SP 95	239728-2	SP 70	26520037	SP 98
20535201-116	SP 95	252510	SP 88	26520038	SP 98
20535220-111	SP 95	252511	SP 88	26520039	SP 98
20535220-112	SP 95	252512	SP 88	26520040	SP 98
20535220-113	SP 95	252570	SP 88	26520041	SP 98
20535220-114	SP 95	252571	SP 88	26520042	SP 98
20535220-115	SP 95	252572	SP 88	27021 Y	SP 48
20535220-116	SP 95	252573	SP 88	27200	SP 80
2054090	SP 58	252574	SP 88	27200 B	SP 80
20711621	SP 86	252575	SP 88	27200 P	SP 80
20711640	SP 86	252590	SP 88	27200 S	SP 80
20711680	SP 86	252591	SP 88	27202 Q	SP 80
20780020	SP 91	252592	SP 88	2723091	SP 94
20916020	SP 57	252610	SP 89	2724190	SP 94
2107890	SP 86	252611	SP 89	2727291	SP 94
219800	SP 67	252612	SP 89	27550 A	SP 48, SP 74
219801	SP 67	252614	SP 89	27550 C	SP 46, SP 50
219802	SP 67	252615	SP 89	27630022	SP 92
219803	SP 67	252616	SP 89	27809	SP 95, SP 96, SP 97
219804	SP 67	252617	SP 89	280053	SP 86
219805	SP 67	252660	SP 89	280053 B	SP 86
219806	SP 67	252661	SP 89	280053 C	SP 86
219900	SP 67	252662	SP 89	28172 HG	SP 91
219901	SP 67	252663	SP 89	28172 HR	SP 91
219902	SP 67	252680	SP 89	28172 WC	SP 92
219903	SP 67	252681	SP 89	28272 EC	SP 91
219904	SP 67	252682	SP 89	28272 ECS	SP 91
227800	SP 68	252690	SP 89	28272 ECW	SP 91
227801	SP 68	252691	SP 89	28272 HB	SP 91
227802	SP 68	252692	SP 89	28272 RKB	SP 91
230000	SP 68	25320001	SP 44	28272 UKN	SP 91
230001	SP 68	25320001C	SP 44	29005 AK	SP 92
230002	SP 68	25320020	SP 44	30526 Q	SP 55
231020	SP 68	25320020C	SP 44	310010	SP 8
231022	SP 68	25320080	SP 44	310011	SP 8, SP 9
231024	SP 68	25320081	SP 44	310015	SP 8
231026	SP 68	25320082	SP 44	310016	SP 8, SP 9

Numerical Index

COMPONENTS / SPARE PARTS

Product	Page	Product	Page	Product	Page
310020	SP 9	403855	SP 24	41204 KKB	SP 87
310025	SP 9	403865	SP 24	41204 KKBA	SP 87
310060	SP 18	403875	SP 24	41204 KKF	SP 87
310061	SP 18	403890	SP 24	41204 KKFA	SP 87
310063	SP 18, SP 19	403950	SP 24	436610	SP 72
310065	SP 19	403975	SP 24	437000	SP 58
310070	SP 18, SP 19	404037	SP 25	437520	SP 72
310073	SP 7, SP 9, SP 14, SP 17, SP 19	404040	SP 25	437600	SP 72
310075	SP 8	404055	SP 25	437601	SP 72
310076	SP 9	404075	SP 25	440000	SP 73
3430890	SP 47, SP 48, SP 53	404090	SP 25	440001	SP 73
39219 XF	SP 70	40701401	SP 86	440002	SP 73
39219 XFB	SP 70	40701420	SP 86	440003	SP 73
39219 XFS	SP 70	40701601-1	SP 86	440004	SP 73
39219 XFV	SP 70	40701620-1	SP 86	441510	SP 73
39299 SF	SP 70	40800001	SP 93	441511	SP 73
39760 A	SP 69	40800020	SP 93	441512	SP 73
39780 A	SP 69	40800028	SP 93	443500	SP 73
39780 AB	SP 69	40800030	SP 93	443504	SP 73
39785 AA	SP 69	40800040	SP 93	460001	SP 35
400 A	SP 39, SP 44, SP 58, SP 86, SP 91, SP 93, SP 94, SP 95, SP 96, SP 97	40800050	SP 93	460001 E	SP 35
400 B	SP 42	40800060	SP 93	460501	SP 35
400 F	SP 42	40800072	SP 93	461000	SP 74
400500	SP 24	40800074	SP 93	462010	SP 71
400502	SP 24	40800076	SP 93	462011	SP 71
40150001	SP 39	40800080	SP 93	462020	SP 71
40150020	SP 39	40800087	SP 93	462021	SP 71
40160021	SP 39	40800090	SP 93	462022	SP 71
40160030	SP 39	40800110	SP 93	462023	SP 71
40160032	SP 39	40924	SP 82	469600	SP 25
40160101	SP 39	40924 B	SP 82	469602	SP 25
40160120	SP 39	40924 S	SP 82	474001	SP 29
403340	SP 24	41200 RA	SP 87	474001 E	SP 29
40334101	SP 94	41200 RA1	SP 87	479800	SP 29
40334120	SP 94	41200 RA2	SP 87	479800 E	SP 29
40334140	SP 94	41201 GN	SP 87	488038	SP 25
40334180	SP 94	41201 KK	SP 87	488084	SP 30
403355	SP 24	41201 KKSA	SP 87	488084 E	SP 30
403375	SP 24	41201 KKSB	SP 87	488085	SP 30
403390	SP 24	41201 KN	SP 87	488085 E	SP 30
403440	SP 24	41201 KSA	SP 87	488086	SP 30
403441	SP 24	41201 LN	SP 87	488086 E	SP 30
403455	SP 24	41201 LSA	SP 87	495 F	SP 22, SP 23, SP 25, SP 26, SP 27, SP 33, SP 34, SP 40, SP 42, SP 43, SP 46, SP 48, SP 51, SP 52, SP 56, SP 57, SP 75
403475	SP 24	41201 SN	SP 87		
403490	SP 24	41202 KN	SP 87		
403540	SP 24	41203 GNB	SP 87		
403555	SP 24	41203 GNF	SP 87		
403565	SP 24	41203 KKB	SP 87		
403575	SP 24	41203 KKBA	SP 87		
403590	SP 24	41203 KKF	SP 87		
403835	SP 24	41203 KKFA	SP 87		
		41203 KNB	SP 87		
		41203 KNF	SP 87		

Numerical Index

COMPONENTS / SPARE PARTS

Product	Page	Product	Page	Product	Page
495 G	SP 22, SP 23, SP 25, SP 26, SP 27, SP 33, SP 34, SP 40, SP 42, SP 43, SP 46, SP 48, SP 51, SP 52, SP 56, SP 57, SP 75	6377091	SP 40, SP 52	7230 EA	SP 27
495 NAS	SP 6	6407991	SP 77	7230 FA	SP 27
495 NWMS	SP 6	6408091	SP 77	7230 FLA	SP 27
495 NY	SP 18	648500	SP 36	7230 FP	SP 26
495 NYW	SP 18	648502	SP 36	7230 FVA	SP 27
496500	SP 76	648503	SP 36	7230 FWA	SP 27
496501	SP 76	649182	SP 31	723017	SP 77
506496	SP 75	649182 E	SP 31	723018	SP 77
506497	SP 75	649183	SP 31	723018 Z	SP 77
523900	SP 75	649183 E	SP 31	723128	SP 90
523901	SP 75	649184	SP 31	723128 A	SP 90
523950	SP 90	649184 E	SP 31	723128 B	SP 90
523951	SP 90	649185	SP 31	723128 C	SP 90
523952	SP 90	649185 E	SP 31	723128 D	SP 90
523954	SP 90	651503	SP 36	723128 E	SP 90
523956	SP 90	651504	SP 36	723128 F	SP 90
523958	SP 90	6573890	SP 53	723128 G	SP 90
525520	SP 76	660000	SP 90	723128 H	SP 90
525523	SP 76	660000 A	SP 90	723128 K	SP 90
525525	SP 76	660000 T	SP 90	7235 AWA	SP 27
529205	SP 30	660074 SF	SP 90	723620	SP 32
529207	SP 30	660074 SG	SP 90	723620 DV	SP 32
529207 E	SP 30	660074 SK	SP 90	723620 H	SP 32
529209	SP 30	6867791	SP 74	723621	SP 32
529209 E	SP 30	6871191	SP 52	723621 SV	SP 32
529305	SP 30	6901790	SP 54	723622	SP 32
529307	SP 30	6901890	SP 54	723622 H	SP 32
529309	SP 30	6927691	SP 40	723623	SP 32
5501135	SP 38	6988190	SP 53	7249291	SP 32
5501435	SP 37	7207 AA	SP 27	725000	SP 78
5904998	SP 35	7207 BA	SP 27	725001	SP 78
5915702	SP 7	7209 BA	SP 27	7322990	SP 52
5920820	SP 87	7220 AA	SP 27	7362691	SP 37
5922410	SP 36	7220 BA	SP 27	740116	SP 59
5925300	SP 41	7220 CA	SP 27	743500	SP 37
5932200	SP 80	7220 FA	SP 27	743501	SP 37
5934602	SP 77	7220 FVA	SP 27	743502	SP 37
5963402	SP 35	7229 AA	SP 27	743503	SP 37
5970502	SP 31	7229 BA	SP 27	743504	SP 37
5984302	SP 82, SP 83	7229 CA	SP 27	743504 V	SP 37
600005	SP 60	7229 FA	SP 27	743505	SP 37
6011590	SP 71	7230 AA	SP 27	743506	SP 37
6127390	SP 50, SP 60	7230 AE	SP 26	743910	SP 37
6127490	SP 46, SP 47	7230 AP	SP 26	743915	SP 37
6127590	SP 46, SP 47	7230 AWA	SP 27	743920	SP 37
6299991	SP 77	7230 BA	SP 27	743925	SP 37
63	SP 61	7230 BP	SP 26	743930	SP 37
63 A	SP 61	7230 BVA	SP 27	743935	SP 37
634840	SP 90	7230 BWA	SP 27	743940	SP 37
6376990	SP 40	7230 CA	SP 27	744500	SP 38
		7230 CVA	SP 27	744501	SP 38
		7230 CWA	SP 27	744510	SP 38
		7230 DA	SP 27	744600	SP 38

Numerical Index

COMPONENTS / SPARE PARTS

Product	Page	Product	Page	Product	Page
744601	SP 38	771412	SP 80	8575 KW	SP 83
744602	SP 38	771413	SP 80	8575 L	SP 84
744603	SP 38	771415	SP 80	8575 LA	SP 84
744605	SP 38	771420	SP 80	8575 LB	SP 84
744800	SP 78	7909890	SP 55	8575 LC	SP 84
744801	SP 78	7944790	SP 55	8585 S	SP 84
744805	SP 78	7976090	SP 77	8585 S-11	SP 84
745200	SP 39	826200	SP 59	8585 S-12	SP 84
745201	SP 39	826201	SP 59	8585 S-13	SP 84
745202	SP 39	826210	SP 59	8585 S-14	SP 84
745800	SP 90	826300	SP 39	8585 S-15	SP 84
745802	SP 90	8565 B	SP 81	8585 SP	SP 84
745830	SP 90	8565 BB	SP 81	8700 CKA	SP 43
749000	SP 78	8565 BC	SP 81	8700 CP	SP 43
749001	SP 78	8565 BCE	SP 81	8700 DKA	SP 43
753500	SP 79	8565 BG	SP 81	8705 CKA	SP 43
753501	SP 79	8565 BL	SP 81	8706 CA	SP 43
753502	SP 79	8565 C	SP 81	8707 DA	SP 43
753503	SP 79	8565 CL	SP 81	8707 DP	SP 43
753504	SP 79	8565 E	SP 81	8710 AGA	SP 43
753700	SP 79	8574 KT	SP 83	8710 AP	SP 43
753701	SP 79	8574 KU	SP 83	8711 AGA	SP 43
754200	SP 78, SP 79	8574 KW	SP 83	8711 AP	SP 43
754300	SP 78	8575 AV	SP 43	8712 AP	SP 43
755500	SP 31	8575 GN	SP 83	8712 BP	SP 43
755501	SP 31	8575 K	SP 82	8712 CP	SP 43
755505	SP 31	8575 KA	SP 82	955 S	SP 16
755506	SP 31	8575 KB	SP 82, SP 83	955 U	SP 16
770500	SP 31	8575 KC	SP 82	955 V	SP 16
771400	SP 80	8575 KD	SP 82, SP 83	955 W	SP 16
771410	SP 80	8575 KT	SP 83	955 Z	SP 16

Headmirrors

Reflectors, Headbands

Components / Spare Parts

Catalog page

074090 **Headmirror Standard**

3

074091 **Headmirror, diameter 90 mm**
074095 **Headband, narrow**

075090 **Headmirror Standard**

074091 **Headmirror, diameter 90 mm**
075095 **Headband, wide**

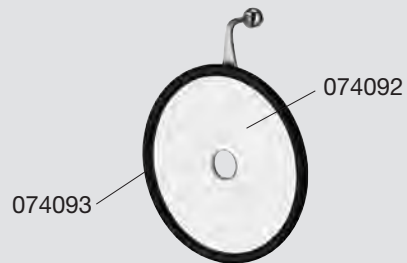


Components / Spare Parts

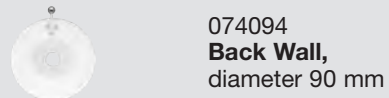
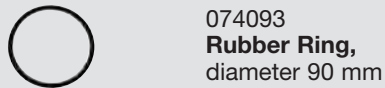
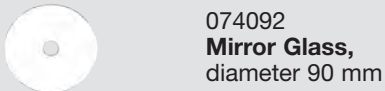
Catalog page

074091 **Headmirror, diameter 90 mm**

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Spare Parts



Components / Spare Parts

Catalog page

074095 **Headband, narrow, for 074090**

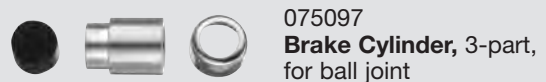
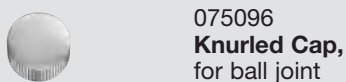
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075095 **Headband, wide, for 075090**

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Spare Parts



Headmirrors

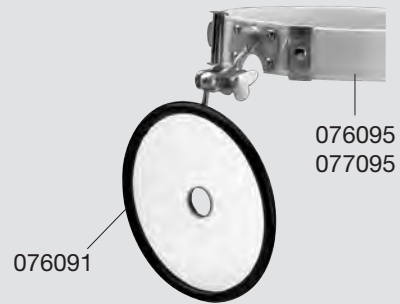
Reflectors, Headbands

Components / Spare Parts

Catalog page

- 076090** ZIEGLER **Headmirror**
- 076091 **Headmirror**, diameter 90 mm
- 076095 **Headband**, narrow

- 077090** ZIEGLER **Headmirror**
- 076091 **Headmirror**, diameter 90 mm
- 077095 **Headband**, wide



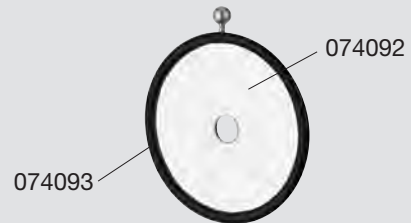
3

Components / Spare Parts

Catalog page

- 076091** **Headmirror**, diameter 90 mm

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Spare Parts



074092
Mirror Glass,
diameter 90 mm



074093
Rubber Ring,
diameter 90 mm



074094
Back Wall,
diameter 90 mm

Components / Spare Parts

Catalog page

- 076095** ZIEGLER **Headband**, narrow, for 076090
- 077095** ZIEGLER **Headband**, wide, for 077090

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077096

Spare Part



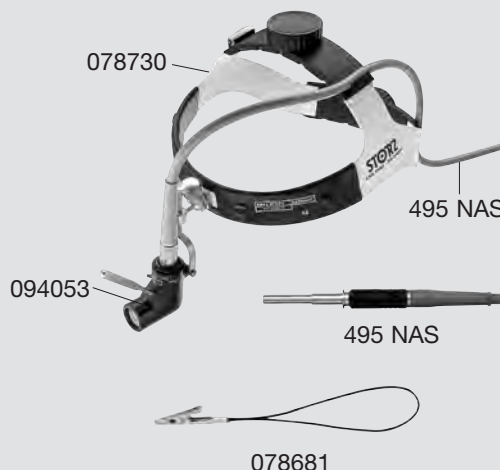
077096
Double Joint

Headlights

Components / Spare Parts

Catalog page

- 094051 Headlight** 7
- 094053 **Headlight**, with U-shaped suspension and ball joint
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder for Headlights 094051, 094055, 095501 and 095505
- 495 NAS **Fiber Optic Light Cable**, straight plug, diameter 3.5 mm, length 230 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



- 094055 Headlight**
- 094053 **Headlight**, with U-shaped suspension and ball joint
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder for Headlights 094051, 094055, 095501 and 095505
- 495 NWMS **Fiber Optic Light Cable**, with 90° deflection to the cold light source, diameter 3.5 mm, length 230 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



Headlights

Components / Spare Parts

Catalog page

078730 Headband, for 094051 and 094055

12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion,
with push-button lock



078503
Brake Cylinder, 3-part,
for ball joint



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs

Components / Spare Parts

Catalog page

094053 Headlight, for 094051 and 094055

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Spare Parts



084508
Suspension,
with cross connection,
for 084500 – 084503



094005
Handle, sterilizable,
with sleeve



5915702
Thread Pin, for lamp head

Headlights

Components / Spare Parts

Catalog page

- 310010** **Headlight**, with straight plug
- 310011 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 310075 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting for Headlight 310010/310015
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



8

- 310015** **Headlight**, with 90° deflection
- 310016 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 310075 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, including clamp mounting for Headlight 310010/310015
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



Components / Spare Parts

Catalog page

- 310075** **Headband**, for 310010 and 310015

12

Spare Part



078511
Forehead Cushion, with push-button lock



Headlights

Components / Spare Parts

Catalog page

8

- 310020** **Headlight**, with straight plug
- 310011 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 310076 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting for Headlight 310020/310025
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 310025** **Headlight**, with 90° deflection
- 310016 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 310076 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including clamp mounting for Headlight 310020/310025
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



Components / Spare Parts

Catalog page

12

- 310076** **Headband**, for 310020 and 310025



Spare Parts



078511
Forehead Cushion, with push-button lock



310073
Protection Clip, for cold light cable, for fixing the light cable to the headband, 2 pcs

Headlights

Components / Spare Parts

Catalog page

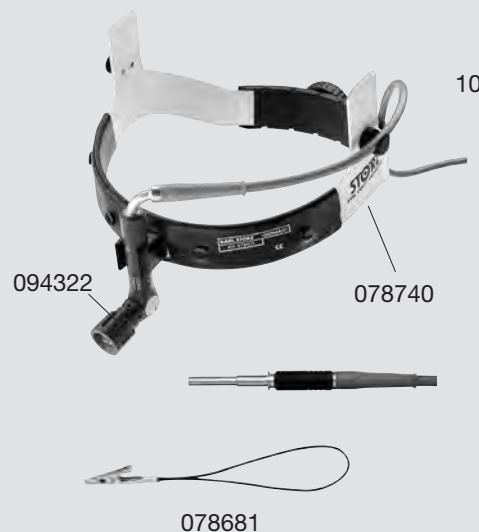
- 094301** **Headlight**, with straight plug
- 094302 **Headlight**, lightweight model, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 094305** **Headlight**, with 90° deflection
- 094306 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 094320** **Headlight**, with straight plug
- 094322 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with straight plug to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



9

10

Headlights

Components / Spare Parts

Catalog page

- 094325 **Headlight**, with 90° deflection
- 094326 **Headlight**, with thin, 230 cm long integral fiber optic light cable, diameter 2.5 mm, with 90° deflection to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



- 094330 **Headlight**
- 094332 **Headlight**, with connection for use with thin, 230 cm long fiber optic light cable 495 NTAS with straight plug or 495 NTXS with 90° deflection to the light source
- 078740 **Headband**, extra light, fully adjustable, with Forehead Cushion 078511, without cross band, with clamp mounting, for Headlights 094301 – 094330
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



Components / Spare Parts

Catalog page

- 078740 **Headband**, for 094301, 094305, 094320, 094325 and 094330



Spare Part



078511
Forehead Cushion,
with push-button lock

Headlights

LED Headlights

Components / Spare Parts

Catalog page

- 094100** **LED Headlight**, with white light
- 094103 **Headlight**, LED technology, **white light**, including connecting cable for battery box
- 094108 **Battery Box**, for use with 2 Photo Batteries 121306 P, CR 123 A
- 121306 P **Photo Batteries**, lithium, 3 V, CR 123 A
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124

- 094110** **LED Headlight**, with yellowish light
- 094104 **Headlight**, LED technology, **yellowish light**, including connecting cable for battery box
- 094108 **Battery Box**, for use with 2 Photo Batteries 121306 P, CR 123 A
- 121306 P **Photo Batteries**, lithium, 3 V, CR 123 A
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



Components / Spare Parts

Catalog page

- 094108** **Battery Box**, for 094100 and 094110



Spare Parts



094108 B
Cover, for Battery Box 094108



121306 P
Photo Battery, lithium, 3 V, CR 123 A

Spare parts for headband see SP 14

Headlights

LED Headlights

Components / Spare Parts

Catalog page

- 094120** **LED Headlight**, with white light
- 094103 **Headlight**, LED technology, **white light**, including connecting cable for rechargeable battery box
- 094124 **Rechargeable Battery Box**, with 1 Li-Ion rechargeable battery
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124

- 094130** **LED Headlight**, with yellowish light
- 094104 **Headlight**, LED technology, **yellowish light**, including connecting cable for rechargeable battery box
- 094124 **Rechargeable Battery Box**, with 1 Li-Ion rechargeable battery
- 094129 **Battery Charger Li-Ion**, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz
- 094127 **Mains Cord**, for Battery Charger 094129, length 150 cm
- 078760 **Headband**, for LED headlight, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 094103/094104 and Holding Band 094109 for Battery Box 094108 or Rechargeable Battery Box 094124



Components / Spare Parts

Catalog page

- 094124** **Rechargeable Battery Box**, for 094120 and 094130



Spare Parts



094125 A
Li-Ion Rechargeable Battery Cell, with key



094127
Mains Cord, for Battery Charger 094129, length 150 cm



094129
Battery Charger Li-Ion, for charging the rechargeable battery box, power supply 100 – 240 VAC, 50/60 Hz



094105
Extension Cable, for LED Headlights 094100 – 094130, for carrying the battery box or rechargeable battery box in OR clothing

Spare parts for headband see SP 14

Headlights

LED Headlights

Components / Spare Parts

Catalog page

078760 **Headband**, for 094100, 094110, 094120 and 094130

12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs



094109
Holding Band,
for Battery Box 094108 or
Rechargeable Battery Box
094124, leather, with snap
closure

Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

11

- 095501 **Headlight "CLAR 73"**, with straight plug
- 095502 **Headlight "CLAR 73"**, with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with straight plug to the light source
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



078681

- 095505 **Headlight "CLAR 73"**, with 90° deflection
- 095506 **Headlight "CLAR 73"**, with 230 cm long integral fiber optic light cable, diameter 3.5 mm, with 90° deflection to the light source
- 078730 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including ball joint holder, for Headlights 094051, 094055, 095501 and 095505
- 078681 **Clip with Band**, for attaching fiber optic light cable to OR clothing



078681

Spare parts for headlights and headband see following pages

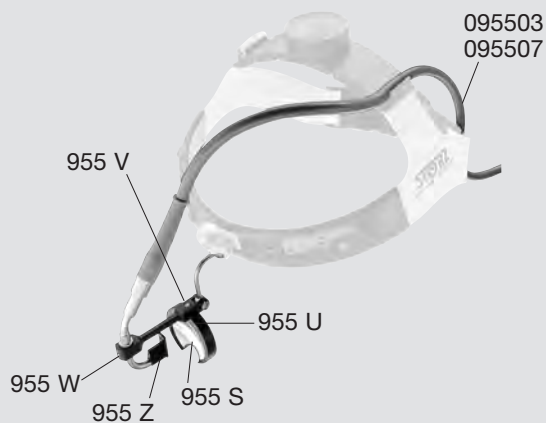
Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

095502	Headlight "CLAR 73", with straight plug	-
095506	Headlight "CLAR 73", with 90° deflection	-



Spare Parts



955 S
Mirror



955 U
Metal Holder,
for mirror



955 V
Fixation Screw,
for metal holder (mirror)



955 W
Fixation Screw,
for fiber optic light cable



955 Z
Fixation Screw, set of 2

Spare Part for 095502



095503
Integral Fiber Optic Light
Cable, with straight plug

Spare Part for 095506



095507
Integral Fiber Optic Light
Cable, with 90° deflection

Headlights

Headlights "CLAR 73"

Components / Spare Parts

Catalog page

078730 **Headband**, for 095501 and 095505

12



Spare Parts



078502
Screw Cap



078511
Forehead Cushion,
with push-button lock



078503
Brake Cylinder, 3-part,
for ball joint



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs

Headlights

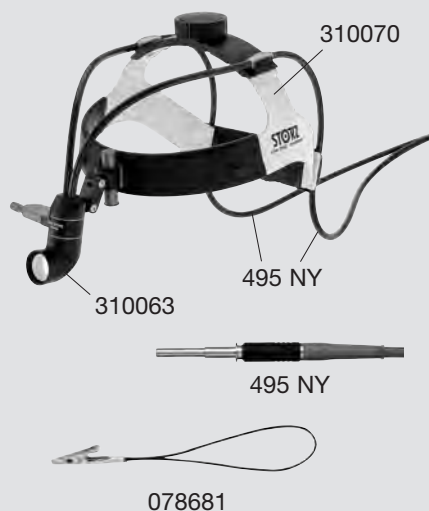
Headlights KS60

Components / Spare Parts

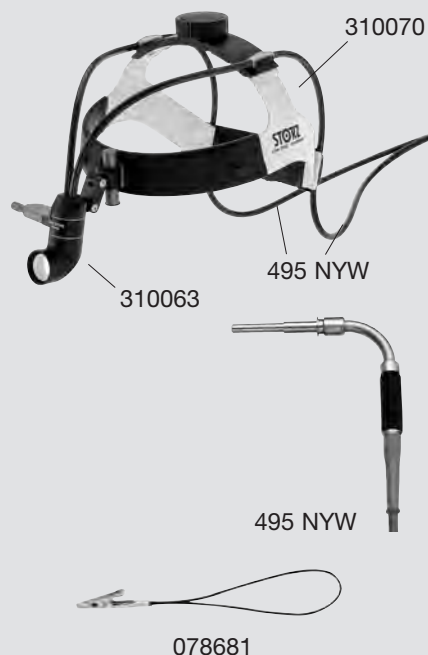
Catalog page

- 310060 Headlight KS60**
- 310063 **Headlight KS60**, with removable and sterilizable Focus Handle 310065
- 310070 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 310063
- 495 NY **Y-Fiber Optic Light Cable**, with special protective casing for Headlight 310063, length 290 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing

6



- 310061 Headlight KS60**
- 310063 **Headlight KS60**, with removable and sterilizable Focus Handle 310065
- 310070 **Headband**, fully adjustable, with Forehead Cushion 078511, with cross band, including holder for Headlight 310063
- 495 NYW **Y-Fiber Optic Light Cable**, with special protective casing for Headlight 310063, with 90° deflection to the cold light source, length 290 cm
- 078681 **Clip with Band**, for attaching the fiber optic light cable to OR clothing



Headlights

Headlights KS60

Components / Spare Parts

Catalog page

310070 **Headband**, for 310060 and 310061

12



Spare Parts



078511
Forehead Cushion,
with push-button lock



310073
Protection Clip, for cold
light cable, for fixing the
light cable to the
headband, 2 pcs

Components / Spare Parts

Catalog page

310063 **Headlight KS60**, for 310060 and 310061

—



Spare Part



310065
Handle, with focusing
screw, sterilizable

Headlights

Headlight "CLAR 55"

Components / Spare Parts

Catalog page

- 087200 **Headlight "CLAR 55"** -
- 087201 **Headlight "CLAR 55"**
- 108210 **Headlight Cable**, complete, length 240 cm
- 087290 **Headband**, wide
- 087284 **Spare Lamp**, 6 V



Components / Spare Parts

Catalog page

- 087290 **Headband**, wide, for "CLAR 55" -



Spare Parts



087294
Velcro Strips, for fastening inside Headband 087290, length 11.5 cm



087296
Knurled Cap, for ball joint, for 087290



087295
Cushion, for Velcro fastener



087297
Brake Cylinder, 3-part, for ball joint, for 087290

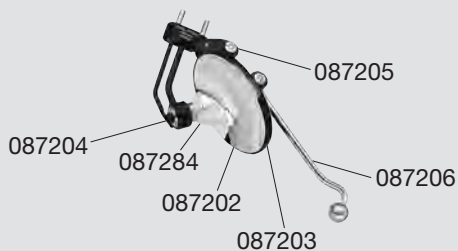
Headlights

Headlight "CLAR 55"

Components / Spare Parts

Catalog page

087201 **Headlight "CLAR 55"** —



Spare Parts



087202
Mirror



087205
Adaptor, between mirror tray and lamp holder



087203
Mirror Tray



087206
Suspension Device



087204
Lamp Holder, with plug connector



087284
Spare Lamp, spherical, diameter 17.5 mm, 6 V, 1 A

Components / Spare Parts

Catalog page

108210 **Headlight Cable, complete** —



Spare Parts



108211
Upper Headlight Cable, length 120 cm, with Mignon adaptor for connection to Headlights 084400, 084900, 087200 and Mignon plug



108214
Mignon Plug, male



108213
Mignon Coupling, female



108222
Lower Headlight Cable, with 25 mm flat plug, length 120 cm

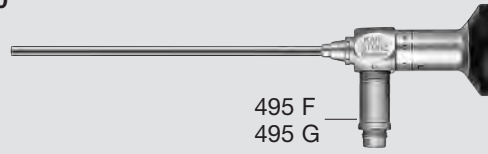
Otoscopies

HOPKINS® Telescopes, Tele-Otoscopies

Components / Spare Parts

Catalog page

1232 AA	HOPKINS® Straight Forward Telescope 0°	15
1232 BA	HOPKINS® Forward-Oblique Telescope 30°	15



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

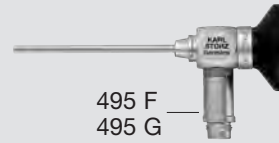


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

1218 AA	Tele-Otoscope, with HOPKINS® Straight Forward Telescope 0°	16
1218 BA	Tele-Otoscope, with HOPKINS® Forward-Oblique Telescope 30°	16
1215 AA	Tele-Otoscope, with HOPKINS® Straight Forward Telescope 0°	16



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



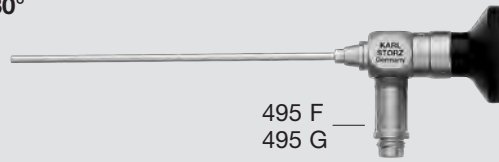
495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

- 1230 AA HOPKINS® Straight Forward Telescope 0°
- 1230 BA HOPKINS® Forward-Oblique Telescope 30°

17
17



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

- 1216 AA HOPKINS® Straight Forward Telescope 0°

398-399



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



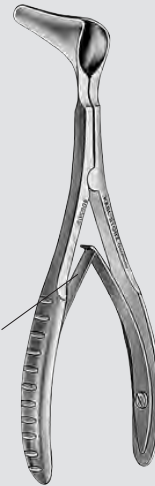
495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Nasal Specula

Components / Spare Parts

Catalog page

400500	HARTMANN Nasal Speculum	106
403540	KILLIAN-STRUYCKEN Nasal Speculum	107
403555	KILLIAN-STRUYCKEN Nasal Speculum	107
403565	KILLIAN-STRUYCKEN Nasal Speculum	107
403575	KILLIAN-STRUYCKEN Nasal Speculum	107, 364
403590	KILLIAN-STRUYCKEN Nasal Speculum	107



Spare Part

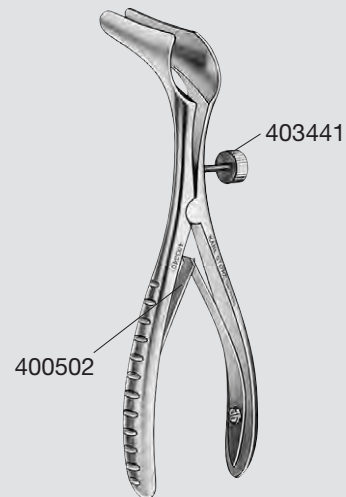


400502
Spring, for nasal speculum

Components / Spare Parts

Catalog page

403340	KILLIAN-STRUYCKEN Nasal Speculum	107
403355	KILLIAN-STRUYCKEN Nasal Speculum	107
403375	KILLIAN-STRUYCKEN Nasal Speculum	107
403390	KILLIAN-STRUYCKEN Nasal Speculum	107
403440	KILLIAN-STRUYCKEN Nasal Speculum	-
403455	KILLIAN-STRUYCKEN Nasal Speculum	-
403475	KILLIAN-STRUYCKEN Nasal Speculum	-
403490	KILLIAN-STRUYCKEN Nasal Speculum	-
403835	COTTLE Nasal Speculum	108
403855	COTTLE Nasal Speculum	108
403865	COTTLE Nasal Speculum	108
403875	COTTLE Nasal Speculum	108
403890	COTTLE Nasal Speculum	108
403950	COTTLE Nasal Speculum	-
403975	COTTLE Nasal Speculum	-



Spare Parts



400502
Spring, for nasal speculum



403441
Set Screw

Nasal Specula, Septum Morcelizers

Components / Spare Parts

Catalog page

404040	Nasal Speculum	108, 316
404055	Nasal Speculum	108, 316
404075	Nasal Speculum	364
404090	Nasal Speculum	364

Spare Parts



404037
Fiber Optic Light Carrier



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe



Components / Spare Parts

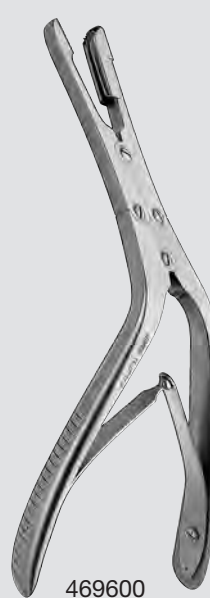
Catalog page

469600	RUBIN Septum Morcelizer	125
488038	RUBIN Septum Morcelizer	158

Spare Part



469602
Protective Cap, for
RUBIN Septum Morcelizer
469600 and 488038



469600



488038

Sinoscopes

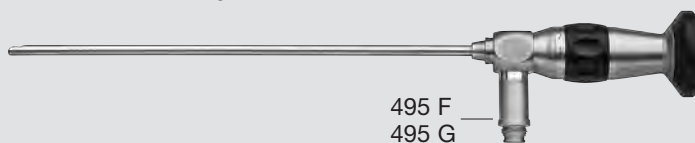
ENDOCAMELEON® ENT HOPKINS® Telescope, HOPKINS® II Telescopes

Components / Spare Parts

Catalog page

7230 AE **ENDOCAMELEON® ENT HOPKINS® Telescope**

252



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

7230 AP **HOPKINS® II Straight Forward Telescope 0°, enlarged view**

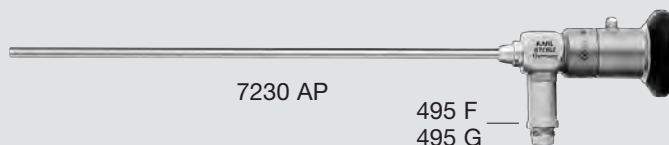
254, 681

7230 BP **HOPKINS® II Forward-Oblique Telescope 30°, enlarged view**

254, 681

7230 FP **HOPKINS® II Forward-Oblique Telescope 45°, enlarged view**

254, 681



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

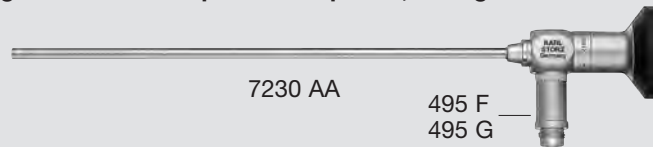


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Sinoscopes

HOPKINS® II Telescopes

Components / Spare Parts		Catalog page
7230 AA	HOPKINS® II Straight Forward Telescope 0°, enlarged view	256, 313
7230 AWA	HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view	255
7230 BA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	256, 313
7230 BWA	HOPKINS® II Wide Angle Forward-Oblique Telescope 30°, enlarged view	255
7230 CA	HOPKINS® II Lateral Telescope 70°, enlarged view	256
7230 CWA	HOPKINS® II Wide Angle Lateral Telescope 70°, enlarged view	255
7230 DA	HOPKINS® II Lateral Telescope 90°, enlarged view	256
7230 EA	HOPKINS® II Retrograde Telescope 120°, enlarged view	256
7230 FA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	256
7230 FWA	HOPKINS® II Wide Angle Forward-Oblique Telescope 45°, enlarged view	255



Spare Parts

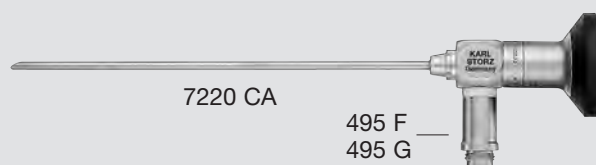


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
7230 FLA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	257
7230 BVA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	257
7230 FVA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	257
7230 CVA	HOPKINS® II Lateral Telescope 70°, enlarged view	257
7235 AWA	HOPKINS® II Wide Angle Straight Forward Telescope 0°, enlarged view	257
7220 AA	HOPKINS® II Straight Forward Telescope 0°, enlarged view	258
7220 BA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	258
7220 CA	HOPKINS® II Lateral Telescope 70°, enlarged view	258
7220 FA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	258
7220 FVA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	258
7229 AA	HOPKINS® II Straight Forward Telescope 0°, enlarged view	259
7229 BA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	259, 283
7229 FA	HOPKINS® II Forward-Oblique Telescope 45°, enlarged view	259
7229 CA	HOPKINS® II Lateral Telescope 70°, enlarged view	259
7207 AA	HOPKINS® II Straight Forward Telescope 0°	260
7207 BA	HOPKINS® II Forward-Oblique Telescope 30°	260
7209 BA	HOPKINS® Forward-Oblique Telescope 30°	260, 316



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

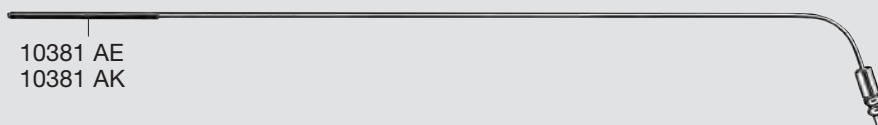


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Suction and Irrigation Tubes

Suction Tubes

Components / Spare Parts		Catalog page
10381 A	Suction Tube	663
10381 AL	Suction Tube	611
10381 B	Suction Tube	611, 663



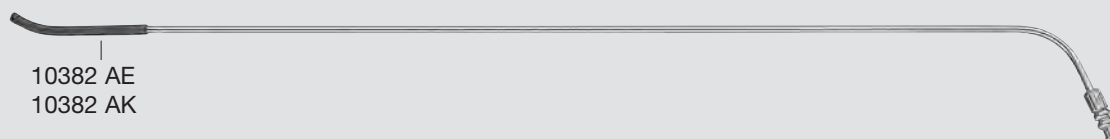
Spare Parts

Spare Part for 10381 A and 10381 AL

Spare Part for 10381 B



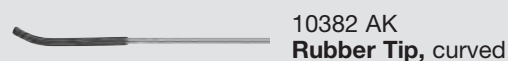
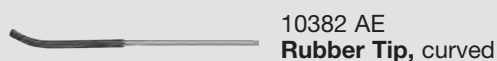
Components / Spare Parts		Catalog page
10382 A	Suction Tube	663
10382 AM	Suction Tube	611
10382 B	Suction Tube	611, 663



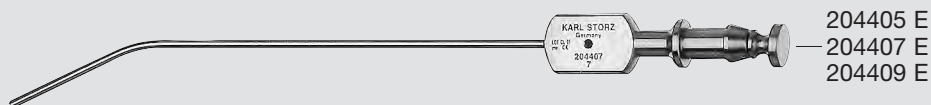
Spare Parts

Spare Part for 10382 A and 10382 AM

Spare Part for 10382 B



Components / Spare Parts		Catalog page
204405	PLESTER Suction Tube	37
204407	PLESTER Suction Tube	37
204409	PLESTER Suction Tube	37



Spare Parts

for 204405 204405 E
Stylet

for 204407 204407 E
Stylet

for 204409 204409 E
Stylet

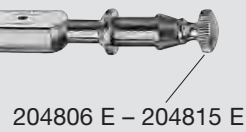
Suction and Irrigation Tubes

Suction Tubes, Suction Elevator, Suction Raspatory

Components / Spare Parts

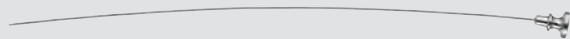
Catalog page

- 204806 FERGUSON Suction Tube
- 204808 FERGUSON Suction Tube
- 204809 FERGUSON Suction Tube
- 204810 FERGUSON Suction Tube
- 204812 FERGUSON Suction Tube
- 204815 FERGUSON Suction Tube



- 37
- 37
- 37
- 37, 169
- 37, 169
- 37, 169

Spare Parts



for 204806

204806 E
Stylet

for 204810

204810 E
Stylet

for 204808

204808 E
Stylet

for 204812

204812 E
Stylet

for 204809

204809 E
Stylet

for 204815

204815 E
Stylet

Components / Spare Parts

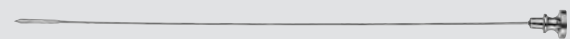
Catalog page

- 474001 FREER Suction Elevator

126, 302



Spare Part



474001 E
Stylet

Components / Spare Parts

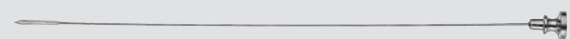
Catalog page

- 479800 Suction Raspatory

129



Spare Part



479800 E
Stylet

Suction and Irrigation Tubes

Suction Tubes

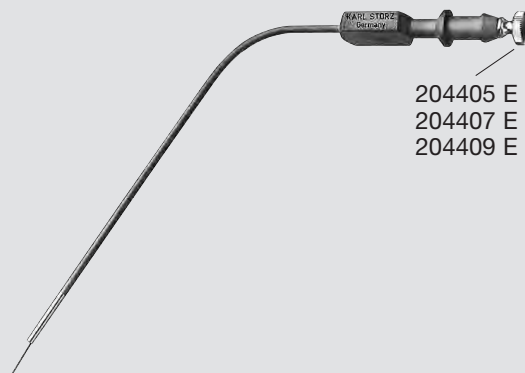
Components / Spare Parts

Catalog page

488084	FERGUSON Suction Tube	159
488085	FERGUSON Suction Tube	159
488086	FERGUSON Suction Tube	159

Spare Parts

for 488084	488084 E Stylet
for 488085	488085 E Stylet
for 488086	488086 E Stylet



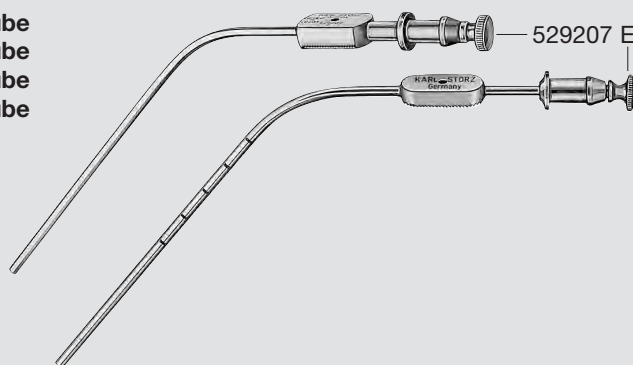
Components / Spare Parts

Catalog page

529205	FRAZIER Suction Tube	154
529207	FRAZIER Suction Tube	154
529305	FRAZIER Suction Tube	307
529307	FRAZIER Suction Tube	307, 315

Spare Part

529207 E
Stylet



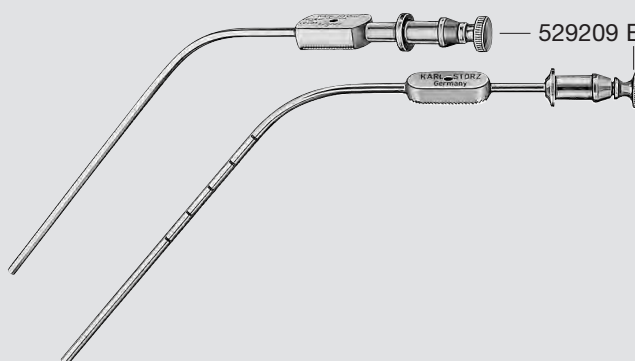
Components / Spare Parts

Catalog page

529209	FRAZIER Suction Tube	154
529309	FRAZIER Suction Tube	307

Spare Part

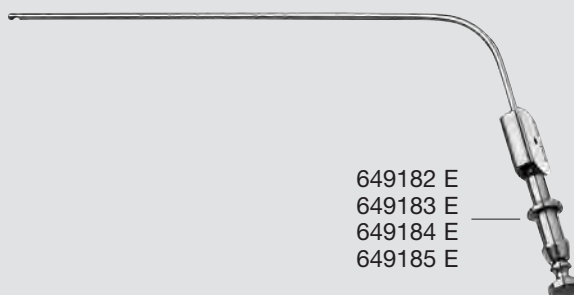
529209 E
Stylet



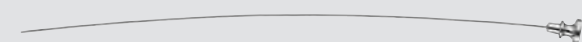
Suction and Irrigation Tubes, Larynx Instruments

Components / Spare Parts Catalog page

649182	FERGUSON Suction Tube		194
649183	FERGUSON Suction Tube		194
649184	FERGUSON Suction Tube		194
649185	FERGUSON Suction Tube		194



Spare Parts



for 649182 **649182 E
Stylet**

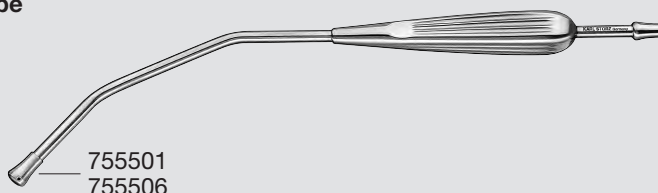
Spare Part for 649184 **649184 E
Stylet**

for 649183 **649183 E
Stylet**

Spare Part for 649185 **649185 E
Stylet**

Components / Spare Parts Catalog page

755500	YANKAUER Suction Tube		357
755505	YANKAUER Suction Tube		357



Spare Parts

Spare Part for 755500



**755501
Suction Knob, hole
diameter 4 mm**

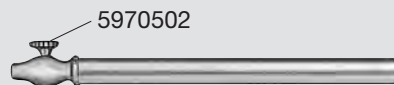
Spare Part for 755505



**755506
Suction Knob, hole
diameter 2 mm**

Components / Spare Parts Catalog page

770500	Handle, for Laryngeal Mirror		359-360
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Spare Part



**5970502
Spare Screw,
for Handle 770500**

Suction and Irrigation Tube

Irrigation and Suction Handles

Components / Spare Parts

Catalog page

- 723620** THUMFART **Irrigation and Suction Handle** 197
- 723620 H THUMFART **Handle**, with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723620 DV **Press Button Valve**, with lock function
- 723621** THUMFART **Irrigation and Suction Handle**
- 723620 H THUMFART **Handle**, with ergonomic ring handle, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723621 SV **Push Button Valve** (irrigation only active when pressure valve is depressed)



723620 DV



723621 SV

Spare Part



7249291
O-Ring Set, 2 sizes,
package of 5

Components / Spare Parts

Catalog page

- 723622** IRO **Irrigation and Suction Handle** 198
- 723622 H IRO **Handle**, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723620 DV **Press Button Valve**, with lock function
- 723623** IRO **Irrigation and Suction Handle**
- 723622 H IRO **Handle**, pistol-shaped, for use with Irrigation and Suction Sheaths 723527 A – F and 723540 A – F
- 723621 SV **Push Button Valve** (irrigation only active when pressure valve is depressed)



723620 DV



723621 SV

Spare Part

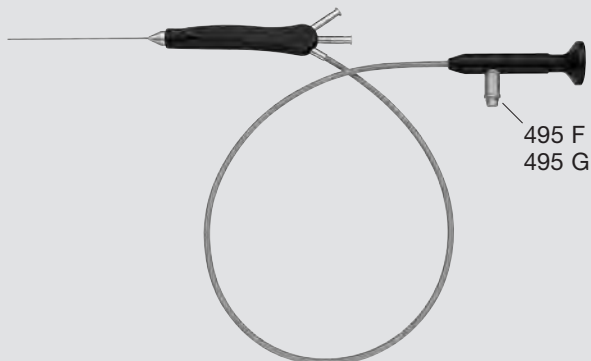


7249291
O-Ring Set, 2 sizes,
package of 5

Sialendoscopes

Miniature Straight Forward Telescopes

Components / Spare Parts		Catalog page
11572 A	Miniature Straight Forward Telescope 0°	320
11573 A	Miniature Straight Forward Telescope 0°	320
11574 A	Miniature Straight Forward Telescope 0°	320



Spare Parts

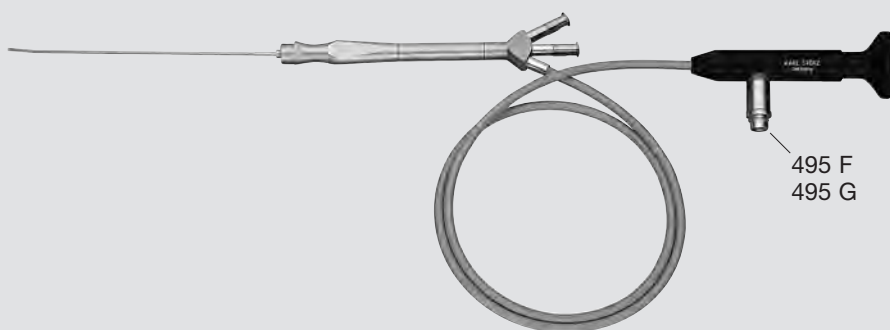


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
11575 A	Miniature Straight Forward Telescope 0°	321
11581 A	Miniature Straight Forward Telescope 0°	321
11582 A	Miniature Straight Forward Telescope 0°	321
11583 A	Miniature Straight Forward Telescope 0°	321



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Sialendoscopes

Miniature Straight Forward Telescopes

Components / Spare Parts

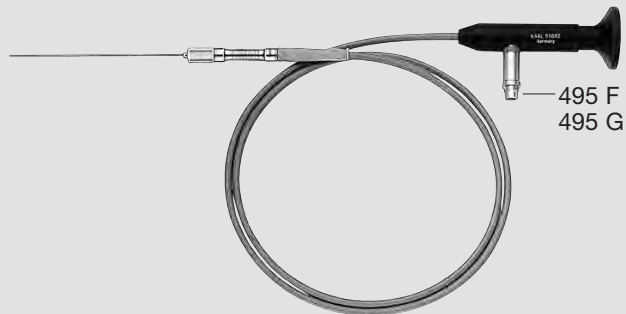
Catalog page

11576 A Miniature Straight Forward Telescope 0°

322

11577 A Miniature Straight Forward Telescope 0°

324



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

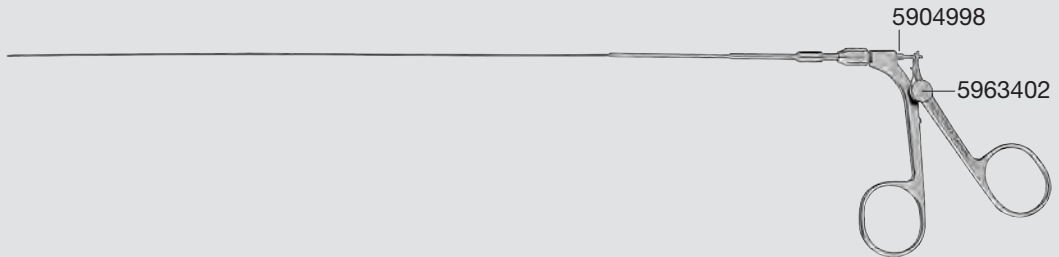


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Forceps and Punches

Components / Spare Parts Catalog page

11576 TJ	Foreign Body Forceps	326
11576 ZJ	Biopsy Forceps	326
11583 TJ	Foreign Body Forceps	326
11583 ZJ	Biopsy Forceps	326



Spare Parts



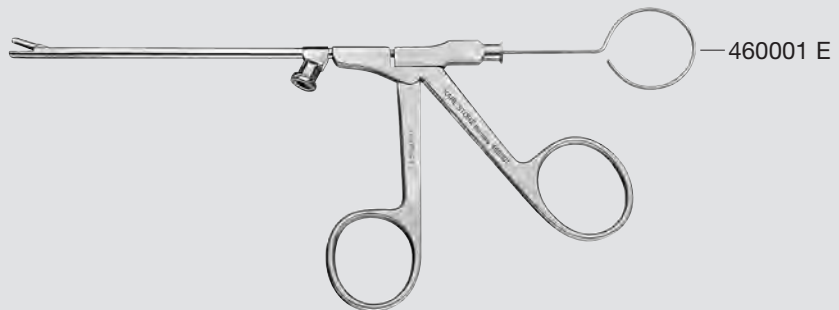
5904998
Seal, diameter 0.8 mm



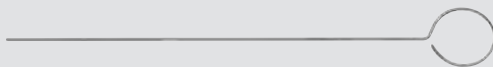
5963402
Knurled Screw

Components / Spare Parts Catalog page

460001	STAMMBERGER Suction Punch, for biopsy and grasping	285
460501	STAMMBERGER Suction Punch, for biopsy and grasping	285



Spare Part



460001 E
Cleaning Stylet,
diameter 1.6 mm,
working length 18 cm

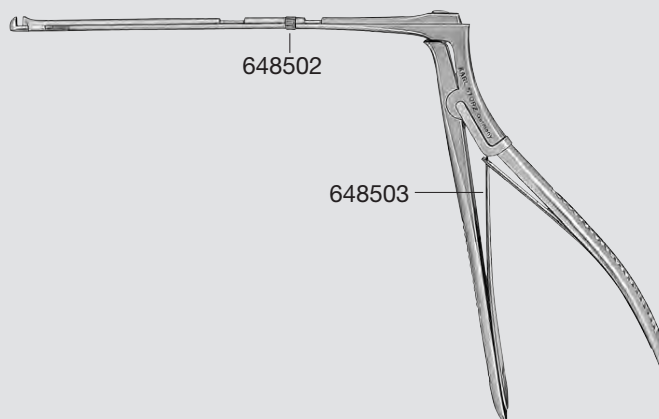
Forceps and Punches

Components / Spare Parts

Catalog page

648500 HAJEK-KOFLER Sphenoid Punch

172



Spare Parts



648502
Knurled Nut, for reversible Sphenoid Punch 648500 – 648523



648503
Spring, for bone punches

Components / Spare Parts

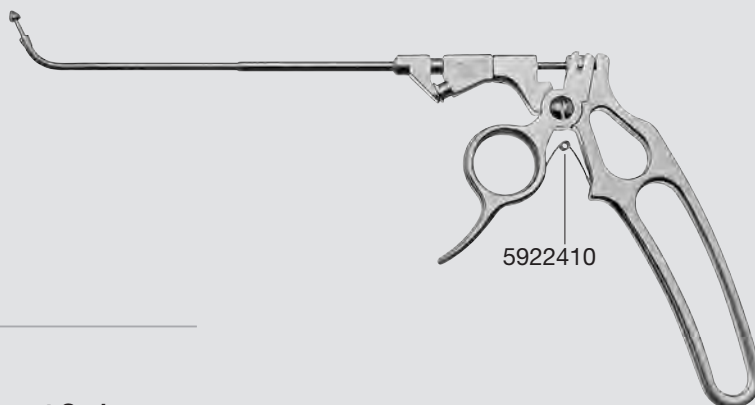
Catalog page

651503 HOSEMANN Frontal Sinus/Recess Punch

293

651504 HOSEMANN Sphenoid Punch

293



Spare Part



5922410
Replacement Spring

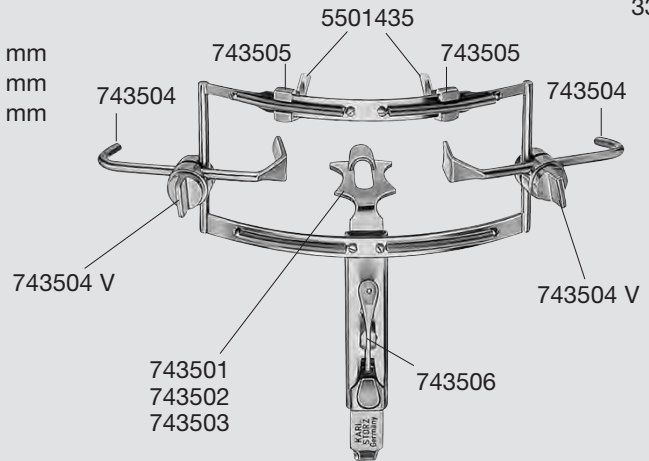
Tongue Blades and Mouth Gags

Components / Spare Parts

Catalog page

- 743500** DINGMANN **Mouth Gag**
- 743501 **Tongue Depressor**, size 1, 55 x 25 mm
- 743502 **Tongue Depressor**, size 2, 60 x 27 mm
- 743503 **Tongue Depressor**, size 3, 70 x 30 mm
- 743504 **Cheek Retractor**, adjustable
- 743504 V **Screw Connection**, complete
- 743505 **Tooth Hook**, movable
- 743506 **Mouth Gag**

339



Spare Part



5501435
Silicone Tubing

Components / Spare Parts

Catalog page

- 743910** DAVIS-MEYER **Tongue Blade**
- 743915** DAVIS-MEYER **Tongue Blade**
- 743920** DAVIS-MEYER **Tongue Blade**
- 743925** DAVIS-MEYER **Tongue Blade**
- 743930** DAVIS-MEYER **Tongue Blade**
- 743935** DAVIS-MEYER **Tongue Blade**
- 743940** DAVIS-MEYER **Tongue Blade**

340
340
340
340
340
340
340



Spare Part



7362691
Y-Tube, for tongue blade,
length 190 mm

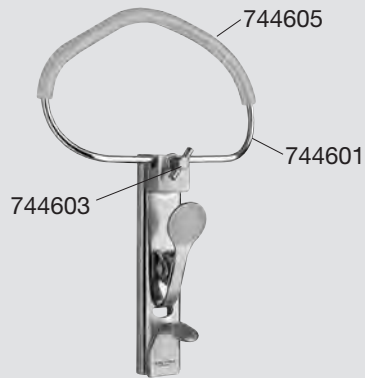
Tongue Blades and Mouth Gags

Components / Spare Parts

Catalog page

744600 McIVOR Mouth Gag

346



Spare Parts



744601
Frame



744603
Screw, for fixation
of frame



744602
Silicone Tube,
diameter 5.5 mm,
length 1 m



744605
Silicone Protection,
package of 10

Components / Spare Parts

Catalog page

744500 DAVIS-MEYER Mouth Gag

345

744510 DAVIS-MEYER Mouth Gag

345



Spare Parts



5501135
Rubber Cap,
length 1 m



744501
Tooth Hook,
movable

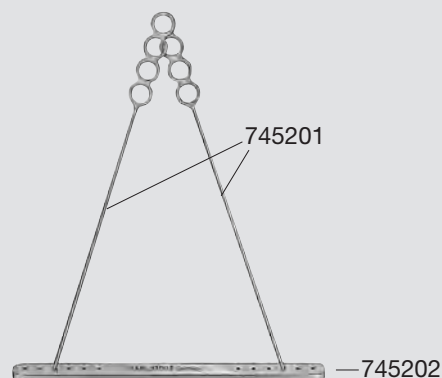
Tongue Blades and Mouth Gags, Stroboscope

Components / Spare Parts

Catalog page

- 745200** **DRAFFIN Suspension Apparatus Bipod**
- 745201 **Rod, with 4 rings (2 pieces)**
- 745202 **Base Plate**

346



Components / Spare Parts

Catalog page

- 40160101** **PULSAR II Stroboscope Set**
- 40160120 **PULSAR II Stroboscope,**
power supply 100 – 240 V, 50/60 Hz
- 400 A **Mains Cord, length 300 cm**
- 40160021 **LED Stroboscopy Light Source**
- 40160032 **Footswitch**
- 40160030 **Contact Sound Microphone, with clip**

513



Components / Spare Parts

Catalog page

- 40150001** **KARL STORZ μ-PULSAR, for laryngeal stroboscopy**
- 40150020 **KARL STORZ μ-PULSAR, basic unit for**
use with Battery Charger 40 1500 30
- 826300 **Leather Bag for μ-PULSAR**

515



40150020

Flexible Endoscopes

Rhino-Pharyngo-Laryngo-Fiberscope, Adaptor for Two-Way Stopcock

Components / Spare Parts

Catalog page

11001 RD	Rhino-Laryngo-Fiberscope, 3.5 x 340 mm	248, 508
11001 UD	Rhino-Pharyngo-Laryngo-Fiberscope, 2.3 x 230 mm	508
11101 RP	Rhino-Pharyngo-Laryngo-Fiberscope, 3.5 x 300 mm	248, 508
11101 SK	Rhino-Laryngo-Fiberscope, 2.5 x 270 mm	248, 508
11101 SP	Rhino-Laryngo-Tracheo-Fiberscope, 2.5 x 370 mm	248, 508



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable

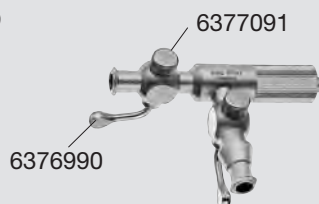


495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

6927691	Adaptor for Two-Way Stopcock, for 11001 RD	—
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Spare Parts



6376990
Stopcock, for
irrigation connector



6377091
Spring Cap

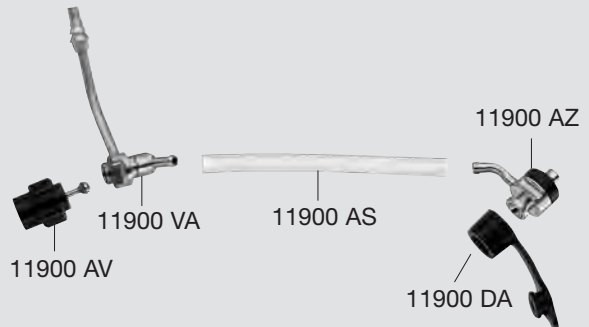
Flexible Endoscopes

Suction Unit, Suction Valve

Components / Spare Parts

Catalog page

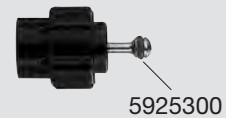
- 11900 AE** **Suction Unit**, set for Video Bronchoscopes 11900 AP and 11900 BP
- 11900 AV **Suction Valve**
- 11900 VA **Valve Adaptor**
- 11900 AS **Connecting Cable**, package of 10
- 11900 AZ **Suction Cylinder**
- 13991 DA **Cap**, package of 10



Components / Spare Parts

Catalog page

- 11900 AV** **Suction Valve**



Spare Part



5925300
O-Ring, for suction valve,
small, red, 2 x 1.5 mm

Flexible Endoscopes

Broncho-Fiberscope, TELE PACK X

Components / Spare Parts

Catalog page

11001 BI	Broncho-Fiberscope	692
11001 BN	Broncho-Fiberscope	628
11002 BD	Broncho-Fiberscope	628
11003 BC	Broncho-Fiberscope	628
11004 BC	Broncho-Fiberscope	628
11004 BI	Broncho-Fiberscope	692
11005 BC	Broncho-Fiberscope	628
11009 BC	Broncho-Fiberscope	628
11009 BI	Broncho-Fiberscope	692



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

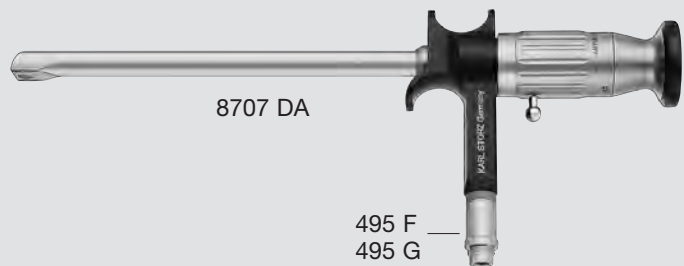
20045001-EN	TELE PACK X	246, 506, 626
20040240US	USB Silicone Keyboard, with touchpad, US character set	
20040280	KARL STORZ USB Flash Drive, 4 GB	
400 F	Mains Cord, length 300 cm	
400 B	Mains Cord, US version	



Laryngoscopes

HOPKINS® and HOPKINS® II Telescopes

Components / Spare Parts		Catalog page
8700 CP	Tele-Laryngoscope , with integrated HOPKINS® lateral telescope 70°	523, 682
8700 DKA	Tele-Laryngo-Pharyngoscope , with integrated HOPKINS® lateral telescope 90°	516
8707 DA	Tele-Laryngo-Pharyngoscope , with integrated HOPKINS® lateral telescope 90°	516
8707 DP	Tele-Laryngo-Pharyngoscope , with integrated HOPKINS® lateral telescope 90°	523, 682
8700 CKA	BENJAMIN Tele-Laryngoscope , with integrated HOPKINS® lateral telescope 70°	517
8705 CKA	BENJAMIN Slimline Tele-Laryngoscope , with integrated HOPKINS® lateral telescope 70°	517
8706 CA	Strobo-Laryngoscope , with integrated HOPKINS® lateral telescope 70°	517



Spare Parts

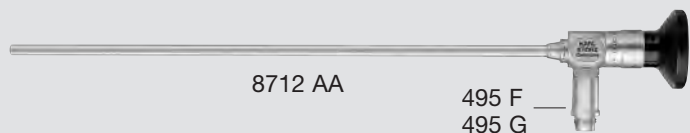


495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts		Catalog page
8712 AP	HOPKINS® II Straight Forward Telescope 0°, enlarged view	522, 683
8712 BP	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	522, 683
8712 CP	HOPKINS® II Lateral Telescope 70°, enlarged view	522, 683
8711 AP	HOPKINS® II Straight Forward Telescope 0°	522, 683
8710 AP	HOPKINS® Straight Forward Telescope 0°	522, 683
8710 AGA	HOPKINS® Straight Forward Telescope 0	524, 676
8711 AGA	HOPKINS® Straight Forward Telescope 0°, enlarged view	524, 676
8575 AV	HOPKINS® Straight Forward Telescope 15°	529, 540
10005 AA	HOPKINS® II Straight Forward Telescope 0°, enlarged view	591, 617, 642, 653
10005 BA	HOPKINS® II Forward-Oblique Telescope 30°, enlarged view	591, 642



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

25320001 UNIMAT® 30, Suction Pump Set, 230 VAC

636

25320020 **UNIMAT® 30**, suction pump,
power supply 230 VAC,
50/60 Hz

25320080 **Bacterial Filter**

25320081 **Secretion Bottle, 2 l**

25320082 **Bottle Cap, with grip**

25320083 **Connecting Tube, short**

25320084 **Patient Tube**

25320085 **Overflow Case**

400 A **Mains Cord, length 300 cm**

mtp* **VACUsafe Promotion Pack
Suction**



25320020
25320020C

25320001C UNIMAT® 30, Suction Pump Set, 115 VAC

25320020C **UNIMAT® 30**, suction pump,
power supply 115 VAC,
50/60 Hz

25320080 **Bacterial Filter**

25320081 **Secretion Bottle, 2 l**

25320082 **Bottle Cap, with grip**

25320083 **Connecting Tube, short**

25320084 **Patient Tube**

25320085 **Overflow Case**

400 A **Mains Cord, length 300 cm**

mtp* **VACUsafe Promotion Pack
Suction**

Spare Parts

Spare Part for 25320020



1069400
Mains Fuse,
T 0.63 A, L 250 V

Spare Part for 25320020C



1069500
Mains Fuse,
T 1.6 A, L 250 V



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

UNIMAT® 30

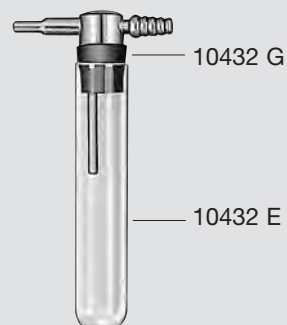
Aspirators

Components / Spare Parts

Catalog page

10432 N Aspirator
10432 T Aspirator

637, 664
637, 664



Spare Parts



10432 G
Rubber Seal



10432 E
Spare Glass

Bronchoscopes for Adults

Universal Bronchoscopes for Adults

Components / Spare Parts

Catalog page

10318 B	Universal Bronchoscope	638
10318 C	Universal Bronchoscope	638
10318 D	Universal Bronchoscope	638



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



10318 L
Fiber Optic Light Carrier,
for bronchoscopes



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Components / Spare Parts

Catalog page

10315 P	FLUVOG Adaptor	638
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Spare Part



6127490
Sealing Cap, (50/3.6)

Components / Spare Parts

Catalog page

10315 N	Rubber Telescope Guide	638
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Spare Part



6127590
Sealing Cap, (50/4)

Components / Spare Parts

Catalog page

10318 S	Instrument Guide	589, 638-641
----------------	-------------------------	--------------



Spare Part



27550 C
Sealing Cap, drill hole
diameter 1.2 mm

Bronchoscopes for Adults

Components / Spare Parts

Catalog page

10101 FA Prismatic Light Deflector

544, 546, 589, 591, 599,
602, 639-642, 651-652



Spare Part



3430890
Knurled Cap

Components / Spare Parts

Catalog page

10314 P FLUVOG Adaptor

589, 591, 639-642



Spare Part



6127490
Sealing Cap, (50/3.6)

Components / Spare Parts

Catalog page

10314 BN Rubber Telescope Guide

589, 639-641



Spare Part



6127590
Sealing Cap, (50/4)

Bronchoscopes for Adults

Components / Spare Parts

Catalog page

10101 HA Prismatic Light Deflector



—

Spare Part



3430890
Knurled Cap

Components / Spare Parts

Catalog page

10317 EF Insert Sheath



—

Spare Parts



27021 Y
Sealing Cap



27550 A
Sealing Cap, drill hole
diameter 0.8 mm

Components / Spare Parts

Catalog page

10317 EL Insert Sheath



—

Spare Parts



27021 Y
Sealing Cap

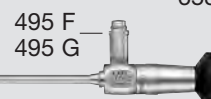


27550 A
Sealing Cap, drill hole
diameter 0.8 mm

Components / Spare Parts

Catalog page

10320 AA	HOPKINS® Straight Forward Telescope 0°	643
10320 BA	HOPKINS® Forward-Oblique Telescope 30°	643
10320 DA	HOPKINS® Lateral Telescope 90°	643
10328 AA	HOPKINS® Straight Forward Telescope 0°	645
10017 AA	HOPKINS® II Straight Forward Telescope 0°	652
10018 AA	HOPKINS® Straight Forward Telescope 0°	653
10324 BA	HOPKINS® Forward-Oblique Telescope 30°	653
10023 ABA	HOPKINS® Straight Forward Telescope 0°	653



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Optical Intubation Tracheoscope, TONN Stent Applicator

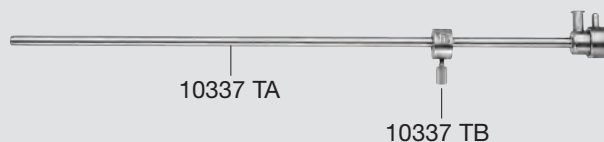
Components / Spare Parts

Catalog page

10337 T Optical Intubation Tracheoscope, GRONINGEN model

591, 642

10337 TA Sheath, for insertion of endotracheal tubes under optical control, proximal with LUER-Lock and distal with lateral holes for anesthetic gases, outer diameter 5.5 mm, length 30 cm, for use with HOPKINS® II Telescopes 10005 AA and BA



10337 TB Distance Ring, with fixation screw for length adjustment of the endotracheal tubes

Components / Spare Parts

Catalog page

TONN Stent Applicator

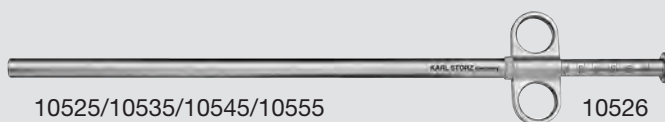
649



10521/10522/10523
10531/10532/10533



10524/10534/10544/10554



10525/10535/10545/10555

10526
10536
10546
10556

TONN Stent Applicator,

color code:

10520

blue

10530

red

10540

green

10550

white

Basic Block

10521

10531

10521

10521

Folding System

10522

10532

10542

10552

Clamping Rod

10523

10533

10523

10523

Loading Rod

10524

10534

10544

10554

Introducer Tube, with 2-ring handle

10525

10535

10545

10555

Pusher

10526

10536

10546

10556

Components / Spare Parts

Catalog page

10338 P FLUVOG Adaptor

651



Spare Part



6127390
Sealing Cap, (50/2.6)

Components / Spare Parts

Catalog page

10338 N Rubber Telescope Guide

602, 651



Spare Part



6127390
Sealing Cap, (50/2.6)

Components / Spare Parts

Catalog page

10338 S Guide Piece

651-652



Spare Part



27550 C
Sealing Cap, drill hole diameter 1.2 mm

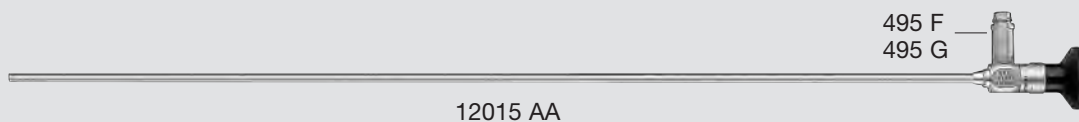
Esophagoscopes

HOPKINS® Telescopes and Miniature Straight Forward Telescope

Components / Spare Parts

Catalog page

12015 AA	HOPKINS® Straight Forward Telescope 0°	600
10324 AA	HOPKINS® Straight Forward Telescope 0°	603, 653
10020 ATA	HOPKINS® Straight Forward Telescope 0°	604, 653
10030 AA	Miniature Straight Forward Telescope 0°	605, 657



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

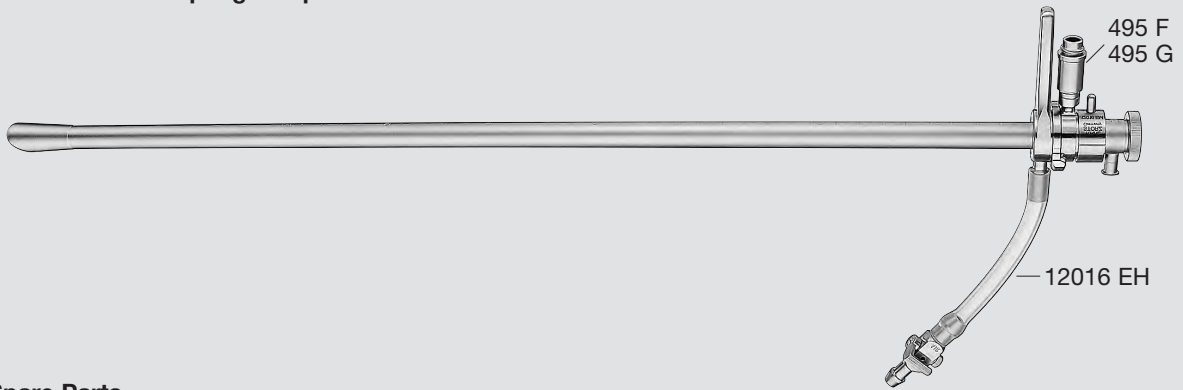
Esophagoscopes

Esophagoscope Tubes

Components / Spare Parts

Catalog page

- 12016 E **Esophagoscope Tube** 600
- 12016 F **Esophagoscope Tube** -



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



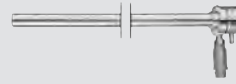
495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Spare Part for 12016 E



12016 EM
Fiber Optic Light Carrier

Spare Part for 12016 F



12016 FM
Fiber Optic Light Carrier

Spare Part for 12016 E



12016 EF
Esophagoscope Tube,
size 11

Spare Part for 12016 F

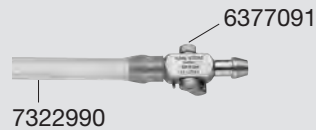


12016 FF
Esophagoscope Tube,
size 12

Components / Spare Parts

Catalog page

- 12016 EH **Stopcock, with tube,** for Esophagoscope Tube 12016 E -



Spare Parts



6871191
Stopcock



7322990
Tube



6377091
Spring Cap

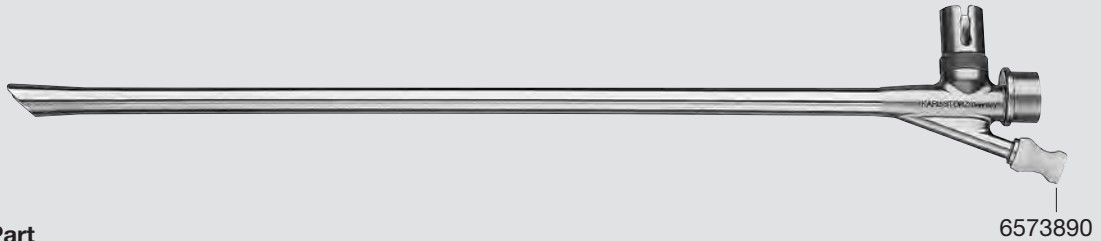
Esophagoscopes

Esophagoscope Tubes, Handle

Components / Spare Parts

Catalog page

12030 A	Esophagoscope Tube	602
12030 AL	Esophagoscope Tube	—
12030 B	Esophagoscope Tube	602
12030 C	Esophagoscope Tube	602
12030 F	Esophagoscope Tube	602
12030 G	Esophagoscope Tube	602



Spare Part



6573890
Sealing Cap

Components / Spare Parts

Catalog page

10101 FA	Prismatic Light Deflector	544, 546, 589, 591, 599, 602, 639-642, 651-652
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Spare Part



3430890
Knurled Cap

Components / Spare Parts

Catalog page

12070	Handle, for esophagoscopes 12060 AX – T	599
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Spare Part



6988190
Knurled Screw

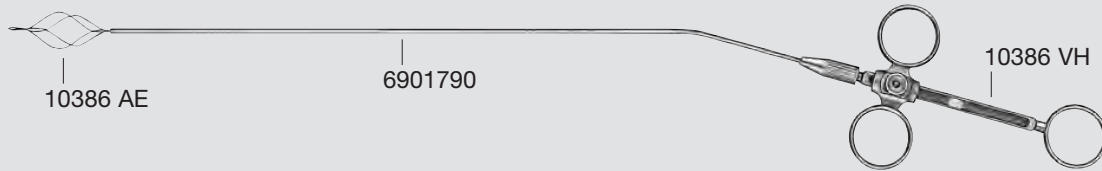
Foreign Body Baskets

Components / Spare Parts

Catalog page

10386 AL Foreign Body Basket

612, 665



Spare Parts



10386 AE
Foreign Body Basket,
without handle,
length 55 cm



6901790
Guide Tube



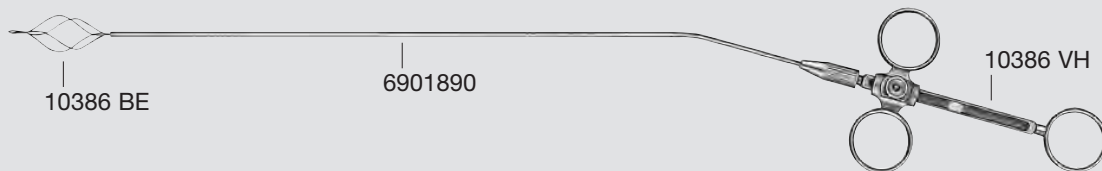
10386 VH
Three-ring Handle

Components / Spare Parts

Catalog page

10386 B Foreign Body Basket

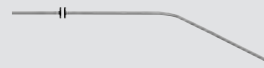
612, 665



Spare Parts



10386 BE
Foreign Body Basket,
without handle,
length 35 cm



6901890
Tube



10386 VH
Three-ring Handle

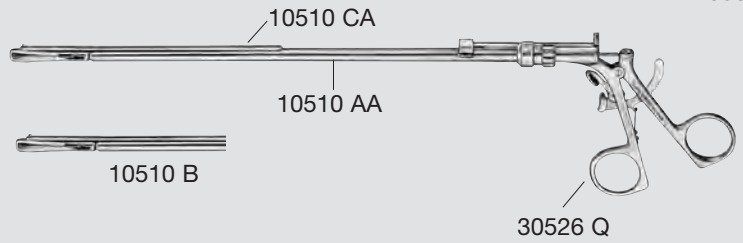
FREITAG Stent Forceps

Components / Spare Parts

Catalog page

- 10510 N** FREITAG Stent Forceps
- 30526 Q **Handle, with ratchet**
- 10510 AA **Outer Sheath**
- 10510 B **Forceps Insert**
- 10510 CA **Pusher**

650



Components / Spare Parts

Catalog page

- 10510 AA** **Outer Sheath**

—



Spare Parts



7909890
Halfround Plate



7944790
Silicone Ring

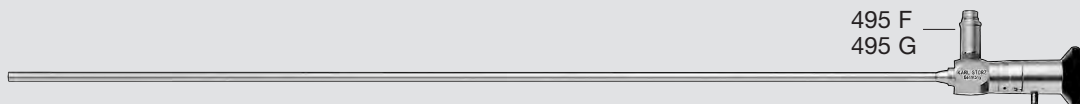
Fluorescence

HOPKINS® Telescopes

Components / Spare Parts

Catalog page

10320 AP	HOPKINS® Straight Forward Telescope 0°	697
10320 BP	HOPKINS® Forward-Oblique Telescope 30°	697
10320 DP	HOPKINS® Lateral Telescope 90°	697



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Miscellaneous

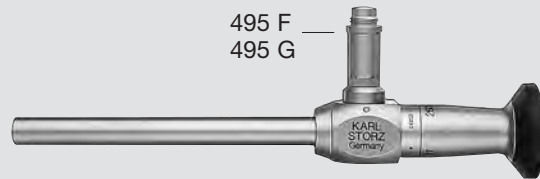
VITOM® 25 Telescope

Components / Spare Parts

Catalog page

20916020 VITOM® 25 Telescope 0°

735



Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe

Miscellaneous

Transformers, Aspirator and Bronchus Irrigator

Components / Spare Parts

Catalog page

- 102201 B Transformer —
- 102201 C Transformer —



Spare Parts



2027290
Fuse, for secondary circuit



400 A
Mains Cord,
length 300 cm

Spare Parts for 102201 B



2026890
Mains Fuse

Spare Parts for 102201 C



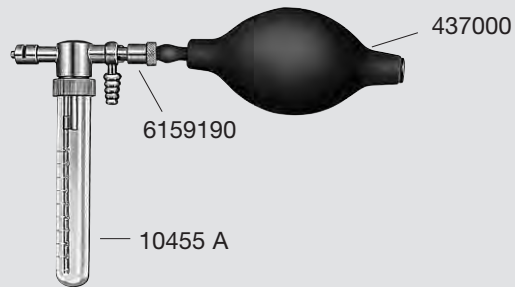
2054090
Mains Fuse

Components / Spare Parts

Catalog page

- 10434 HUZLY Aspirator and Bronchus Irrigator

664



Spare Parts



10455 A
Graduated Container,
autoclavable



437000
Rubber Bulb

Miscellaneous

ENT Diagnosis Set

Components / Spare Parts

Catalog page

826201 **ENT Diagnosis Set**, for outpatient basic ENT examinations

398



- 826200 **Leather Bag for ENT Diagnosis Set**, with divided main compartment and 2 detachable side pockets
- 138700 **Nystagmus Spectacles**, small model without illumination
- 826210 **LED Penlight**, burning time approx. 50 hours in continuous operation with 2 Micro-AAA batteries (included)
- 126100 **Tuning Fork**, A¹-440, with stand, small model
- 740116 **Tongue Depressor**, wooden, width 19 mm, length 16 cm, package of 100

Miscellaneous

Pneumatic Adaptor, Rubber Bulb

Components / Spare Parts

Catalog page

119500

HAWKE Pneumatic Adaptor

16



Spare Parts



119501
Cone



6127390
Sealing Cap, (50/2.6)



119651
Rubber Bulb,
without cone

Components / Spare Parts

Catalog page

119650

Rubber Bulb

20



Spare Parts



119651
Rubber Bulb,
without cone





600005
Record Outer Cone

Miscellaneous

Otoscope, Tuning Forks, Noise Apparatus

Components / Spare Parts Catalog page

121300	HEINE Otoscope		19, 398
121310	Otoscope Head , fiber optic light transmission incorporated		
121302	Ear Speculum , outer diameter 2.5 mm		
121303	Ear Speculum , outer diameter 3 mm		
121304	Ear Speculum , outer diameter 4 mm		
121305	Ear Speculum , outer diameter 5 mm		
121311	Battery Handle		
121306	1.5 Volt Battery , type R 14 S		
63	Spare Lamp , no. 63, 2.5 V		
			
121320	HEINE Otoscope Head		
121302	Ear Speculum , outer diameter 2.5 mm		
121303	Ear Speculum , outer diameter 3 mm		
121304	Ear Speculum , outer diameter 4 mm		
121305	Ear Speculum , outer diameter 5 mm		
63 A	Spare Lamp , no. 63 A, 3.5 Volt		

Components / Spare Parts Catalog page

125501	Tuning Fork , C ² -512		23
125601	Tuning Fork , C ³ -1024		23
126000	Tuning Fork , A ¹ -440		23
126100	Tuning Fork , A ¹ -440, small model		23



Spare Part



126001
Stand

Components / Spare Parts Catalog page

130000	BARANY Noise Apparatus		23
---------------	-------------------------------	--	----



Spare Part



130001
Ear Olive

Miscellaneous

Battery Light Source LED for Endoscopes, Nystagmus Spectacles

Components / Spare Parts

Catalog page

11301 D4 Battery Light Source LED for Endoscopes

17, 261, 398-399, 635



094108 B

Spare Parts



094108 B
Cover, for Battery Box
094108



121306 P
Photo Battery, lithium,
3 V, CR 123 A

Components / Spare Parts

Catalog page

138805 FRENZEL Nystagmus Spectacles

24



Spare Parts



138806
Rubber Band, black,
with 2 fasteners



138964
Spare Lamp, 4 V



138807
Glare Shield, black

Components / Spare Parts

Catalog page

138905 FRENZEL Nystagmus Spectacles, battery version

24



Spare Parts



121306
1.5 Volt Battery,
Type R 14 S



138807
Glare Shield, black



138806
Rubber Band, black,
with 2 fasteners



138964
Spare Lamp, 4 V

Miscellaneous

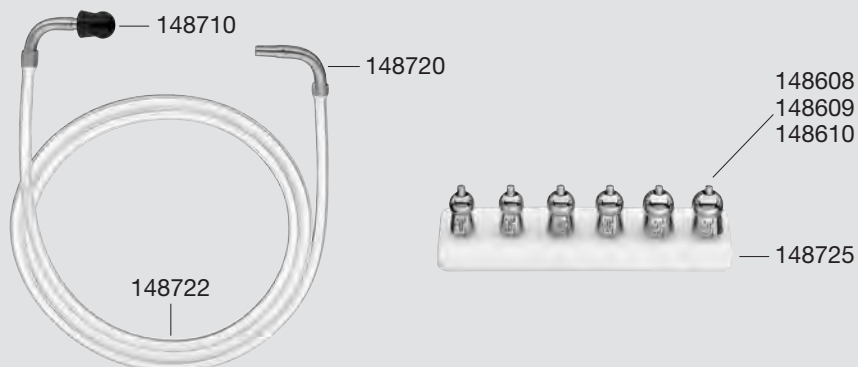
Diagnostic Tube, Powder Blower

Components / Spare Parts








Catalog page

148500 JANSSEN Diagnostic Tube

25



Spare Parts

	148608 Ear Tip, diameter 8 mm		148720 Angle
	148609 Ear Tip, diameter 9 mm		148722 Tube, length 100 cm
	148610 Ear Tip, diameter 10 mm		148725 Stand, for 148500
	148710 Ear Tip, black, diameter 10 mm		

Components / Spare Parts



Catalog page

149320 KABIERSKE Powder Blower

25



Spare Parts

	149307 Valve Ball, only		149324 Replacement Glass, brown, autoclavable
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Miscellaneous

Ear Knives

Components / Spare Parts

Catalog page

155000 Ear Knife, angular

27



Spare Part



155001
Ear Knife, without handle

Components / Spare Parts

Catalog page

155200 Ear Knife, bayonet-shaped

27



Spare Part



155201
Ear Knife, without handle

Miscellaneous

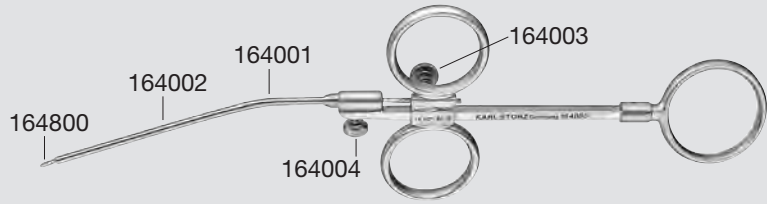
Ear Snares

Components / Spare Parts

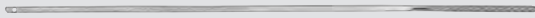
Catalog page

164000 KRAUSE Ear Snare

—



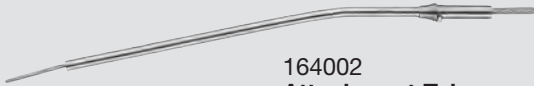
Spare Parts



164001
Pull Wire



164003
Set Screw,
for attachment tube



164002
Attachment Tube,
with pull wire



164004
Set Screw,
for pull wire M 1.9



164800
Ear Snare Wire,
package of 25

Components / Spare Parts

Catalog page

164100 KRAUSE Ear Snare

28



Spare Parts



164101
Traction Wire



164103
Fixation Screw



164102
Guide Tube,
with traction wire



164800
Ear Snare Wire,
package of 25

Miscellaneous

Metal Mallets

Components / Spare Parts

Catalog page

174700 Metal Mallet

31, 130



Spare Part



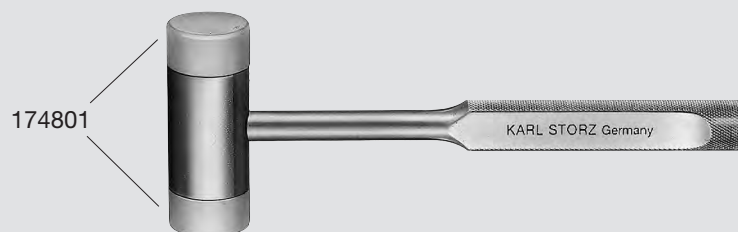
174701
Plastic Mallet Head

Components / Spare Parts

Catalog page

174800 Metal Mallet

31, 130



Spare Part



174801
Plastic Replacement

Miscellaneous

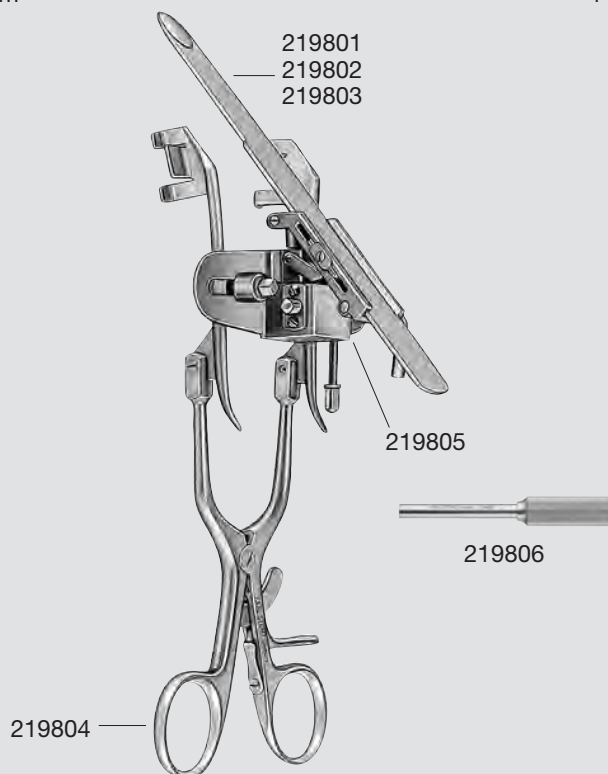
Dura Retractor, Glomus Retractor

Components / Spare Parts

Catalog page

- 219800** FISCH **Dura Retractor**, length 18 cm
- 219801 **Spatula**, straight, length 12 cm
- 219802 **Spatula**, straight, length 15 cm
- 219803 **Spatula**, curved, length 15 cm
- 219804 **Retractor**, length 18 cm
- 219805 **Spatula Attachment**, for adjustment of spatulas
- 219806 **Wrench**, for spatula attachment

44, 195

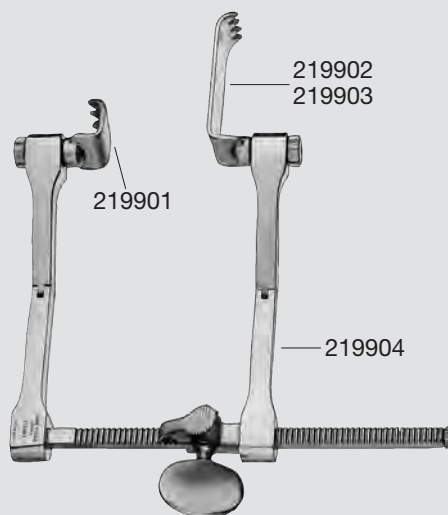


Components / Spare Parts

Catalog page

- 219900** FISCH **Glomus Retractor** (infratemporal fossa retractor)
- 219901 **Retractor Blade**, short
- 219902 **Retractor Blade**, long
- 219903 **Retractor Blade**, long and slim, with drill hole
- 219904 **Retractor Frame**, without blades

44



Miscellaneous

Wire Bending Die, Ventilation Drainage Tube Inserter,
Cartilage Cutting Block

Components / Spare Parts

Catalog page

227800 SCHUKNECHT **Wire Bending Die**

59



Spare Parts



227801
Spare Protective Frame



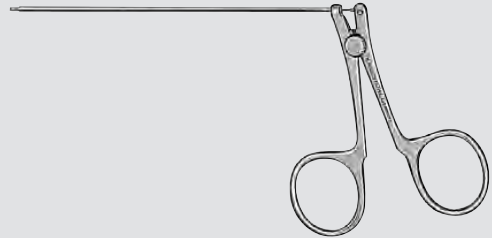
227802
Die, with bending table

Components / Spare Parts

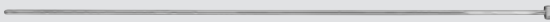
Catalog page

230000 **Ventilation Drainage Tube Inserter**

67



Spare Parts



230001
Spare Stylet,
diameter 1 mm



230002
Spare Stylet,
diameter 1.2 mm

Components / Spare Parts

Catalog page

231020 MILEWSKI **Cartilage Cutting Block**

64

231022 **Cutting Block**, plastic, white,
autoclavable, size 120 x 45 x 15 mm

231024 **Frame**, metal, U-shaped, with 2 pins
to hold the templates

231026 **Template for Ear Cartilage**, with
5 round holes 5, 7, 8, 9 and 10 mm
diameter and 2 oval holes 9 x 11 mm
and 12 x 14 mm, thickness 0.5 mm

231028 **Same**, thickness 1 mm

231030 **Template for Nasal Cartilage**, with
3 rectangular holes 5.5 x 30 mm,
15 x 15 mm and 10 x 30 mm,
thickness 1 mm

231032 **Same**, thickness 0.5 mm

231035 **Stamp**, cylindrical, with handle, to
press the cartilage on the cutting block



231022

231024



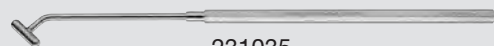
231026

231028



231030

231032



231035

Miscellaneous

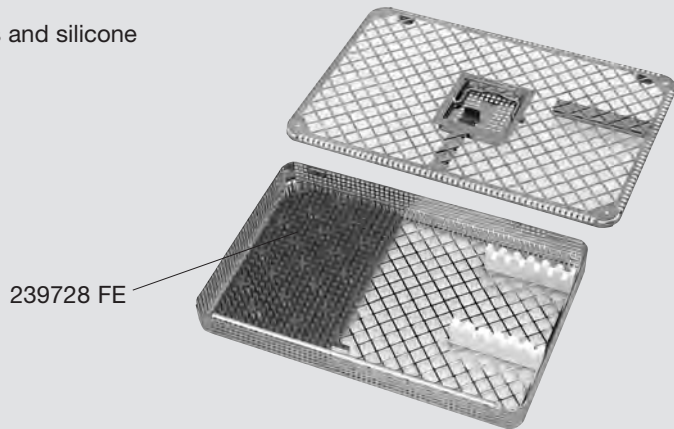
Metal Tray, Metal Cases, MiniSet Container

Components / Spare Parts

Catalog page

- 239728 F** **Metal Tray**
- 239728 FA **Base with Lid**, with holders and silicone bridges
- 239728 FE **Silicone Mat**

66



Components / Spare Parts

Catalog page

- 239000** **Metal Case**
- 239075** **Metal Case**

68

68



Spare Parts

Spare Part for 239000



239001
Filter, set of 5 pairs

Spare Part for 239075



239076
Filter, set of 5 pairs

Components / Spare Parts

Catalog page

- 39780 A** **MiniSet Container**, with MicroStop®
- 39780 AB **Base**
- 39785 AA **Lid**
- 39760 A **Microbiological Barrier**, with MicroStop®

70



Additional accessories for cleaning and sterilization see catalog HYGIENE

Miscellaneous

Metal Tray, Instrument Racks

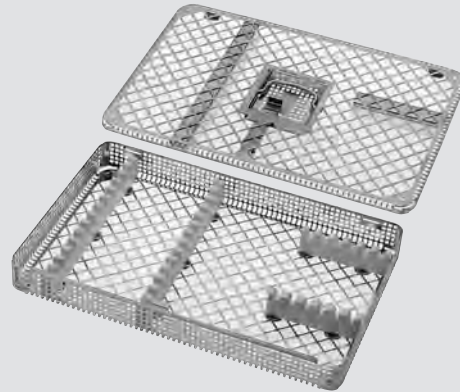
Components / Spare Parts

Catalog page

239728

Metal Tray

70



Spare Parts



239728-1
Spare Part Set, consisting of 2 short bridges, silicone leaflet valves and assembly materials



239728-2
Spare Part Set, consisting of 2 long bridges, silicone leaflet valves and assembly materials

Components / Spare Parts

Catalog page

39219 XF

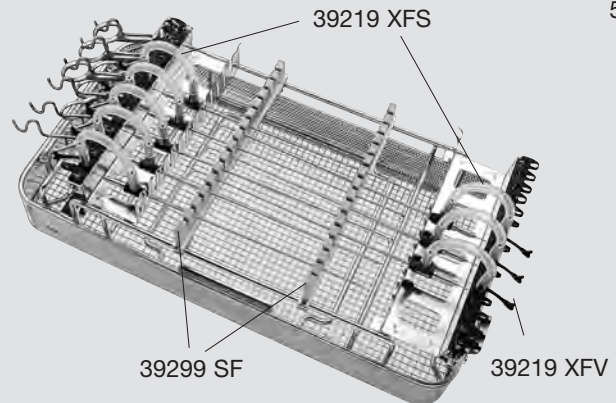
Instrument Rack

554

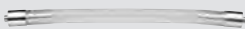
39219 XFB

Instrument Rack

554



Spare Parts



39219 XFS
Irrigation Tube, with two LUER-Lock tube connectors, length 140 mm



39299 SF
Aluminium Silicone Holder, for ENT-Instruments, **SinuFIT**® and **LaryngoFIT**®, 15 positions



39219 XFV
Sealing Cap, package of 15, for multi-port bridge

Miscellaneous

TAKE-APART® Bipolar Forceps

Components / Spare Parts

Catalog page

462020 TAKE-APART® CASTELNUOVO Bipolar Forceps

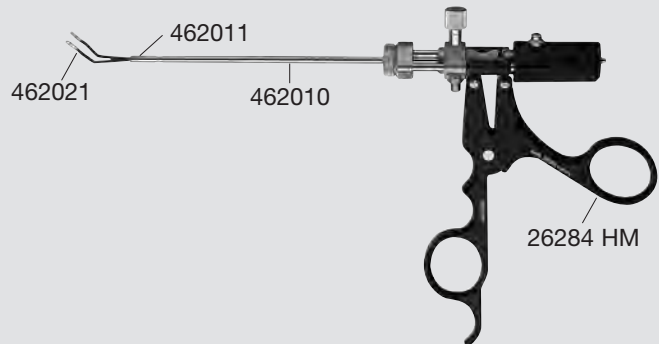
289, 403

26284 HM **Bipolar Ring Handle**

462010 **Outer Sheath**

462011 **Inner Sheath**

462021 **Forceps Insert**



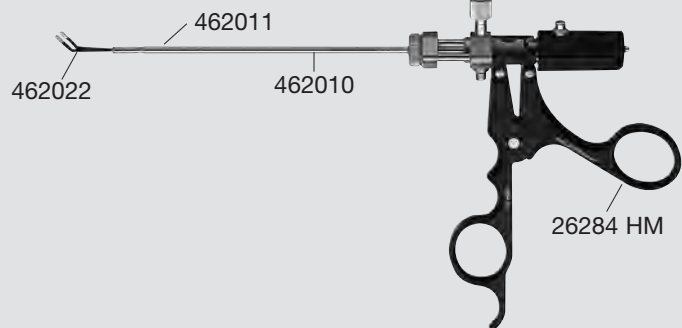
462023 TAKE-APART® Bipolar Forceps

26284 HM **Bipolar Ring Handle**

462010 **Outer Sheath**

462011 **Inner Sheath**

462022 **Forceps Insert**



Components / Spare Parts

Catalog page

26284 HM TAKE-APART® Bipolar Ring Handle, for 462020 and 462023

—

6011590



Spare Part



6011590
Plug, for LUER-Lock
connector

Miscellaneous

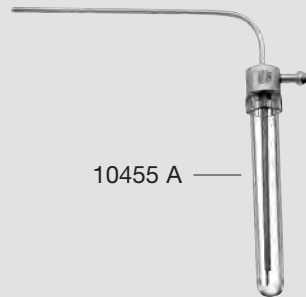
Nasal Atomizers

Components / Spare Parts

Catalog page

436610 **Nasal Atomizer**

113



10455 A

Spare Part



10455 A
Graduated Container,
autoclavable

Components / Spare Parts

Catalog page

437520 **DE VILBIS Nasal Atomizer**

113



149324

Spare Part



149324
Replacement Glass,
brown, autoclavable

Components / Spare Parts

Catalog page

437600 **DE VILBIS Nasal Atomizer**

113



437601

Spare Part



437601
Replacement Glass

Miscellaneous

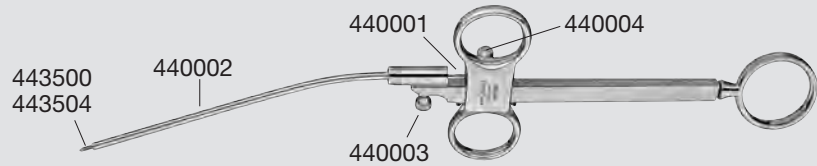
Nasal Snares

Components / Spare Parts

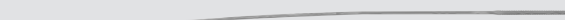
Catalog page

440000 KRAUSE Nasal Snare

114



Spare Parts



440001
Traction Wire



443500
Nasal Snare Wire,
standard size,
diameter 0.3 mm,
length 10 cm,
package of 25



440002
Guide Tube,
with traction wire



443504
Nasal Snare Wire,
standard size,
diameter 0.4 mm,
length 10 cm,
package of 25



440003
Fixation Screw,
for Tube M 2.3



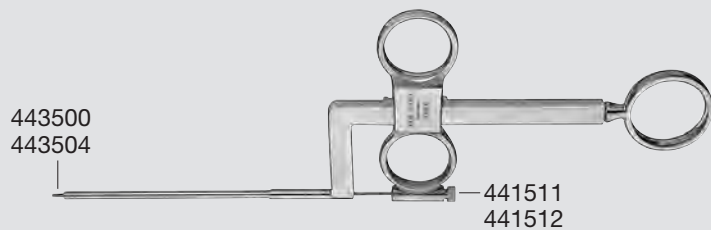
440004
Fixation Screw,
for Traction Wire M 2.5

Components / Spare Parts

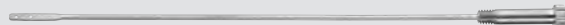
Catalog page

441510 LANGE Nasal Snare

114



Spare Parts



441511
Traction Wire, with pin for
bayonet lock mechanism,
previous model



443500
Nasal Snare Wire,
standard size,
diameter 0.3 mm,
length 10 cm,
package of 25



441512
Traction Wire, with thread,
for use with Nasal Snare
441510, current model



443504
Nasal Snare Wire,
standard size,
diameter 0.4 mm,
length 10 cm,
package of 25

Miscellaneous

Retractor, LASER Application Instrument

Components / Spare Parts

Catalog page

- 233250** DALCHOW-O'DONOGHUE **Retractor**,
for cochlea implant operations
- 233250 A **Retractor**, with ergonomic handle, cold light
illumination, suction channel with cut-off hole,
LUER, concave blade, 20 x 30 mm,
length 19.5 cm
- 233250 B **Fiber Optic Light Carrier**, with suction tube,
length 18.5 cm

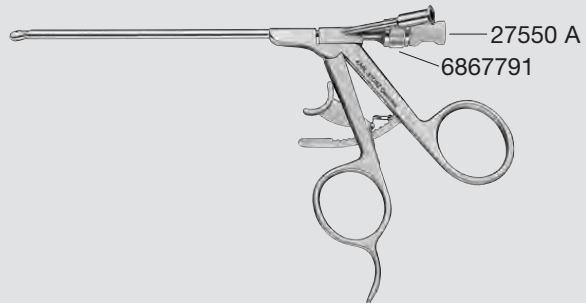


Components / Spare Parts

Catalog page

- 461000** LEUNIG-GREVERS **LASER Application Instrument**

262



Spare Parts



27550 A
Sealing Cap, drill hole
diameter 0.8 mm



6867791
Knurled Screw Cap

Miscellaneous

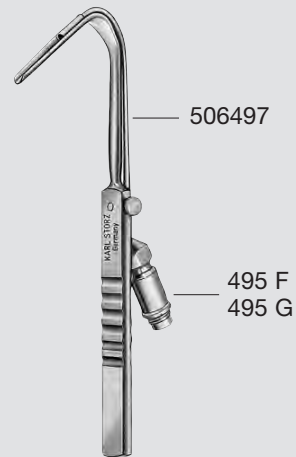
Nasal Retractor, Bone Crusher

Components / Spare Parts

Catalog page

506496 AUFRICHT **Nasal Retractor**

139



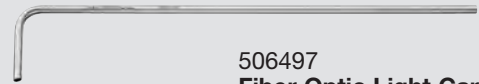
Spare Parts



495 F
Receptacle,
diameter 9 mm, for
Wolf fiber optic light cable



495 G
Screw Base,
for KARL STORZ fiber
optic light cable and
Olympus/Winter & Ibe



506497
Fiber Optic Light Carrier

Components / Spare Parts

Catalog page

523900 COTTLE **Bone Crusher**

149

Spare Part



523901
Metal Clamp



Miscellaneous

Caliper, Surgical Handle

Components / Spare Parts

Catalog page

525520

BEHRBOHM Caliper

152



Spare Parts



525523
Tip, with atraumatic pin,
autoclavable, length 5 cm



525525
Holder, for sterile skin
marker, autoclavable,
length 5 cm

Components / Spare Parts

Catalog page

496500

Surgical Handle, for miniature blades

—

496501 — 

Spare Part



496501
Clamping Insert

Miscellaneous

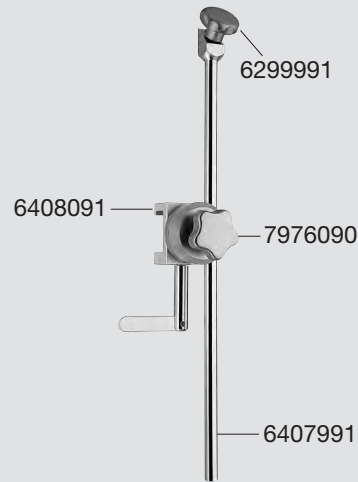
Rotating Clamp and Flexible Tension Arm

Components / Spare Parts

Catalog page

723017 Rotating Clamp

110, 309



Spare Parts

6299991
Star Grip, small



6408091
Rotating Clamp, without rod



6407991
Holding Rod, without clamp



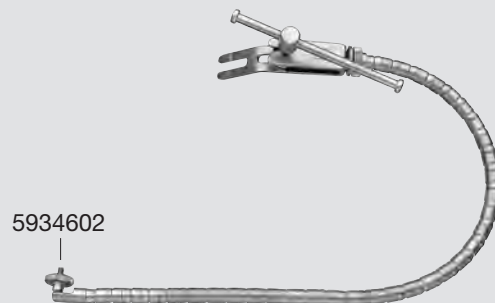
7976090
Star Grip, large

Components / Spare Parts

Catalog page

723018 Flexible Tension Arm

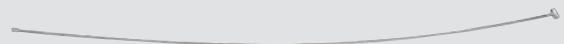
110, 309



Spare Parts



5934602
Knurled Nut



723018 Z
Bowden Wire

Miscellaneous

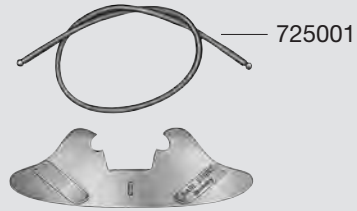
Uvula Retractor, Chest Supports, Tonsil Snare

Components / Spare Parts

Catalog page

725000 HOPMANN **Uvula Retractor**

335



Spare Part



725001
Tube, with spherical metal ends

Components / Spare Parts

Catalog page

744800 NEGUS **Chest Support**

346

744801 NEGUS **Chest Support**

—



Spare Part



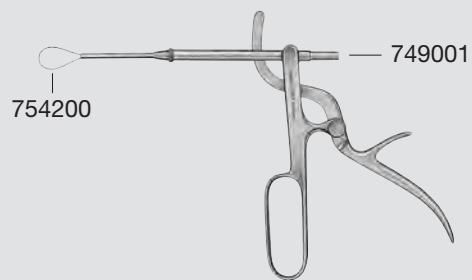
744805
Band, for fixation of chest supports

Components / Spare Parts

Catalog page

749000 TYDING **Tonsil Snare**

352



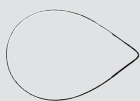
Spare Parts



749001
Traction Rod



754300
Snare Wire, diameter 0.4 mm, 10 m roll



754200
Wire Snare Loop, stainless steel, package of 100

Miscellaneous

Tonsil Snares

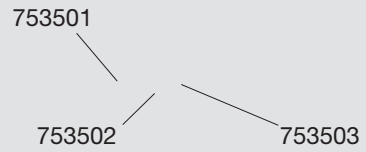
Components / Spare Parts

Catalog page

753500

BRÜNINGS Tonsil Snare

356



Spare Parts



753501
Traction Rod



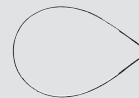
753504
Guide Tube, without traction rod, with central screw



753502
Spiral Spring, for ratchet lever



753503
Screw, for fixation of traction rod



754200
Wire Snare Loop, stainless steel, package of 100

Components / Spare Parts

Catalog page

753700

EVES Tonsil Snare

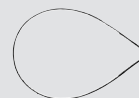
356



Spare Parts



753701
Traction Rod



754200
Wire Snare Loop, stainless steel, package of 100

Miscellaneous

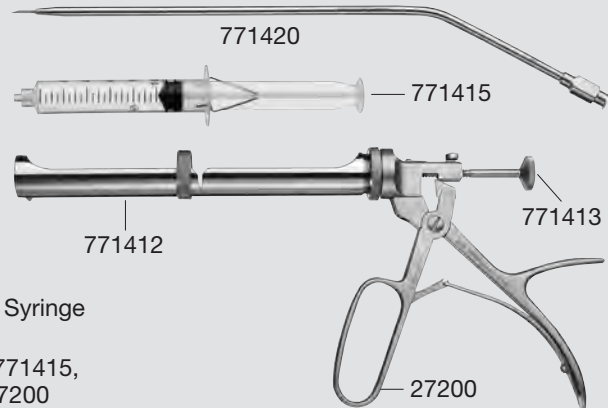
High Pressure Syringes

Components / Spare Parts

Catalog page

771410 PERETTI High Pressure Syringe, for fat injection

584



27200 **High Pressure Handle**, for use with Syringe Holder 771412

771412 **Syringe Holder**, for Plastic Syringe 771415, for use with High Pressure Handle 27200

771413 **Pusher**, for use with High Pressure Handle 27200 with Plastic Syringe 771415

771415 **Plastic Syringe**, spring-action, self-retaining, 10 ml, sterile, for single use, package of 25

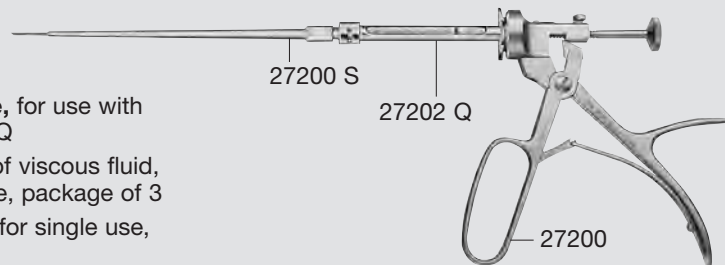
771420 **Injection Cannula**, angular, LUER-Lock, tip outer diameter 1.3 mm, inner diameter 0.8 mm, working length 20 cm, package of 3

Components / Spare Parts

Catalog page

771400 High Pressure Syringe, for viscous fluid injection

585



27200 **High Pressure Handle**, for use with Syringe Holder 27201 Q

27200 B **Adaptor**, for injection of viscous fluid, for filling plastic syringe, package of 3

27200 P **Plastic Syringe**, 1 ml, for single use, package of 100

27202 Q **Syringe Holder**, for plastic syringe, package of 3

27200 S **Injection Cannula**, LUER-Lock, outer diameter of syringe 1.3 mm, inner diameter 0.8 mm, working length 23 cm, package of 3

Components / Spare Parts

Catalog page

27200 High Pressure Handle, for 771400 and 771410

—

Spare Part



5932200
Sealing Ring



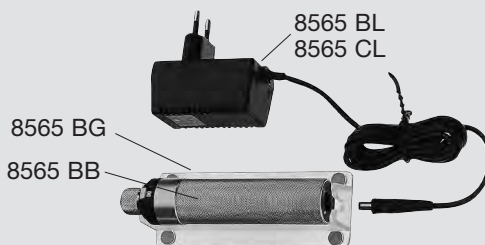
Miscellaneous

Battery Handles

Components / Spare Parts

Catalog page

- 8565 B** **Battery Handle, 3.5 Volt**
- 8565 BB **Handle**
- 8565 BG **Rack**
- 8565 BL **Charger, power supply 220 – 240 VAC**



19

- 8565 C** **Battery Handle, 3.5 Volt**
- 8565 BB **Handle**
- 8565 BG **Rack**
- 8565 CL **Charger, power supply 115 VAC**

Components / Spare Parts

Catalog page

- 8565 BB** **Battery Handle, 3.5 Volt**



—

Spare Part



8565 E
Battery Cell

Components / Spare Parts

Catalog page

- 8565 BC** **Battery Handle, 3.5 Volt, for 121320**



—

Spare Part



8565 BCE
Battery Cell, 3.5 Volt

Miscellaneous

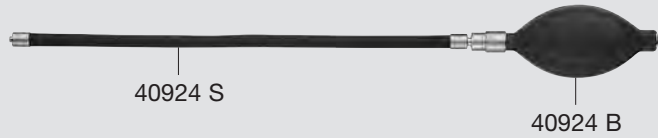
Rubber Insufflation Bulb, Laryngoscope Holders and Chest Supports

Components / Spare Parts

Catalog page

- 40924** **Rubber Insufflation Bulb**
- 40924 B **Rubber Bulb**
- 40924 S **Rubber Tube**

600



Components / Spare Parts

Catalog page

- 8575 K** **Laryngoscope Holder and Chest Support, GÖTTINGEN model**
- 8575 KA **Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel**
- 8575 KB **Support Rod, movable, with metal ring, diameter 9 cm, length 34 cm**

536, 548, 616-617



Spare Part



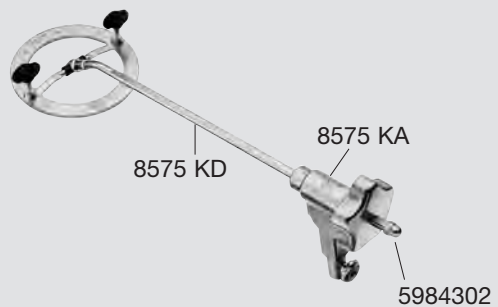
5984302
Cap Nut

Components / Spare Parts

Catalog page

- 8575 KC** **BENJAMIN-PARSONS Laryngoscope Holder and Chest Support**
- 8575 KA **Laryngoscope Holder, GÖTTINGEN model, with adjustment wheel**
- 8575 KD **BENJAMIN-PARSONS Support Rod, movable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm**

548, 616-617



Spare Part



5984302
Cap Nut

Miscellaneous

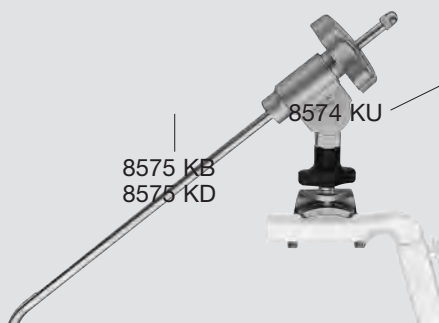
Laryngoscope Holders and Chest Supports

Components / Spare Parts

Catalog page

- 8574 KW** BENJAMIN-PARSONS **Laryngoscope Holder and Chest Support** 544, 546
- 8574 KU **Laryngoscope Holder**, GÖTTINGEN model, with adjustment wheel
- 8575 KD BENJAMIN-PARSONS **Support Rod**, moveable, with metal ring, diameter 12 cm and 2 lateral set screws, length 34 cm

- 8574 KT** **Laryngoscope Holder and Chest Support**, GÖTTINGEN model
- 8574 KU **Laryngoscope Holder**, with adjustment wheel
- 8575 KB **Support Rod**, movable, with metal ring, diameter 9 cm, length 34 cm



— 5984302

Spare Part



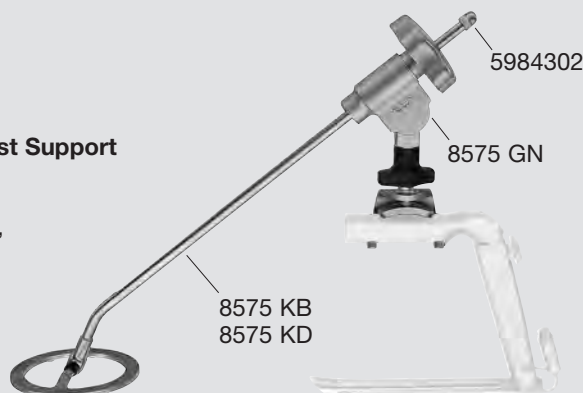
5984302
Cap Nut

Components / Spare Parts

Catalog page

- 8575 KW** LEWY **Laryngoscope Holder and Chest Support** 547
- 8575 GN LEWY **Laryngoscope Holder**
- 8575 KD **Support Rod**, movable, with metal ring, diameter 12 cm, length 34 cm

- 8575 KT** LEWY **Laryngoscope Holder and Chest Support**
- 8575 GN LEWY **Laryngoscope Holder**
- 8575 KB **Support Rod**, movable, with metal ring, diameter 9 cm, length 34 cm



5984302

8575 GN

8575 KB
8575 KD

Spare Part



5984302
Cap Nut

Miscellaneous

Support Table, Chest Support

Components / Spare Parts

Catalog page

8575 L **Support Table, GÖTTINGEN model**

549

8575 LC **Swivel Arm**, with movable plate
 8575 LB **Holding Rod**, for height adjustment
 8575 LA **Attachment Blocks**, can be mounted on operation table equipped with standard sliding rail 25 x 10 mm

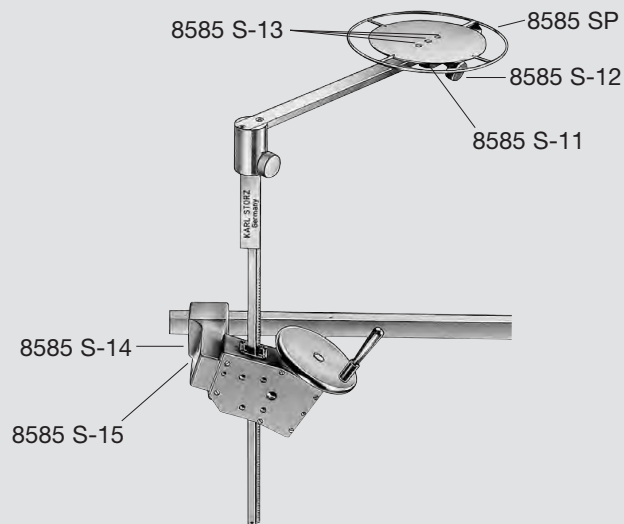


Components / Spare Parts

Catalog page

8585 S **Chest Support, LÜBECK model**

550



Spare Parts



8585 SP
Plate, with ring



8585 S-13
Screw, for fixating Plate 8585 SP to Slide Block 8585 S-11, set of 3



8585 S-11
Slide Block, for Plate 8585 SP and Fixation Screw 8585 S-12



8585 S-14
Clamp, for Chest Support 8585 S, for fixation of the chest support at the OR table



8585 S-12
Fixation Screw, serrated, M8 x 24, for the fixation of the support plate at the swivel arm



8585 S-15
Fixation Screw

Miscellaneous

Micro Saws

Components / Spare Parts

Catalog page

254000 Oscillating Micro Saw

91



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Components / Spare Parts

Catalog page

254100 Micro Sagittal Saw

92



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Components / Spare Parts

Catalog page

254200 Osseo Scalpel, Micro Saw

92



Spare Parts



254020 Fork Wrench



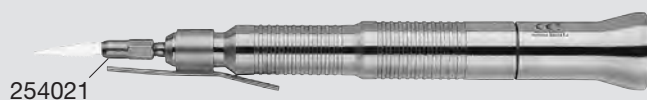
254021 Swivel Nut

Components / Spare Parts

Catalog page

254300 Micro Compass Saw

93



Spare Parts



254020 Fork Wrench



254021 Swivel Nut

Motor Systems

UNIDRIVE® S III ENT SCB, UNIDRIVE® S III ECO,
Universal Spray

Components / Spare Parts

Catalog page

- 40701601-1 UNIDRIVE® S III ENT SCB**
- 40701620-1 **UNIDRIVE® S III ENT with KARL STORZ-SCB**
400 A **Mains Cord**
- 20711680 **Irrigator Rod**
- 20016630 **Two-Pedal Footswitch**, two-stage,
with proportional function
- 20711640 **Silicone Tubing Set**, for irrigation, sterilizable
- 20711621 **Clip Set**, for use with silicone tubing set 20711640
- 20090170 **SCB Connecting Cable**, length 100 cm
- 031131-03* **Single Use Tubing Set**, sterile, package of 3



40701620-1

- 40701401 UNIDRIVE® S III ECO**
- 40701420 **UNIDRIVE® S III ECO**, power supply 100 – 120,
230 – 240 VAC, 50/60 Hz
- 400 A **Mains Cord**
- 20016630 **Two-Pedal Footswitch**, two-stage,
with proportional function
- 20711640 **Silicone Tubing Set**, for irrigation, sterilizable
- 20711621 **Clip Set**, for use with silicone tubing set 20711640
- 031131-03* **Single Use Tubing Set**, sterile, package of 3



40701420

Spare Parts



2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10



2107890
Fuse Holder, for
power supply socket

Components / Spare Parts

Catalog page

- 280053 Universal Spray**, 6x 500 ml bottles
- 280053 B **Universal Spray**, 500 ml
- 280053 C **Spray Nozzle**



280053 B



280053 C



mtp medical technical promotion gmbh,
Take-Off GewerbePark 46, D-78579 Neuhausen ob Eck, Germany

Motor Systems

Suction Shaver Blades, Cleaning Adaptor



Components / Spare Parts		Catalog page
41201 KN	Shaver Blade	217
41201 KK	Shaver Blade	217
41201 GN	Shaver Blade	217
41201 LN	Shaver Blade	217
41201 SN	Shaver Blade	217
41201 KSA	Shaver Blade	217
41201 KKSA	Shaver Blade	217
41201 KKSB	Shaver Blade	217
41201 LSA	Shaver Blade	217
41202 KN	Shaver Blade	218
41204 KKF	Shaver Blade	218
41204 KKB	Shaver Blade	218
41204 KKFA	Shaver Blade	218
41204 KKBA	Shaver Blade	218
41203 KNF	Shaver Blade	219
41203 KNB	Shaver Blade	219
41203 KKF	Shaver Blade	219
41203 KKB	Shaver Blade	219
41203 KKFA	Shaver Blade	219
41203 KKBA	Shaver Blade	219
41203 GNF	Shaver Blade	219
41203 GNB	Shaver Blade	219



Spare Part



5920820
**O-Ring Set for ENT
Shaver Attachments,**
including:
5x O-Ring, 8 x 1 mm
1x O-Ring, 4 x 1 mm

Components / Spare Parts		Catalog page
41200 RA	Cleaning Adaptor	217-219
41200 RA1	Cleaning Adaptor for Inner Blades	 41200 RA1  41200 RA2
41200 RA2	Cleaning Adaptor for Outer Blades	

Motor Systems

INTRA Drill Handpieces

Components / Spare Parts

- 252570 INTRA Drill Handpiece
- 252573 INTRA Drill Handpiece
- 252590 INTRA Drill Handpiece



Catalog page

- 85
- 85
- 85

Spare Part

252510
Irrigation Tube

Components / Spare Parts

- 252571 INTRA Drill Handpiece
- 252574 INTRA Drill Handpiece
- 252591 INTRA Drill Handpiece



Catalog page

- 225
- 225
- 225

Spare Part

252511
Irrigation Tube

Components / Spare Parts

- 252572 INTRA Drill Handpiece
- 252575 INTRA Drill Handpiece
- 252592 INTRA Drill Handpiece



Catalog page

- 226
- 226
- 226

Spare Part

252512
Irrigation Tube

Motor Systems

High-Speed Handpieces

Components / Spare Parts

Catalog page

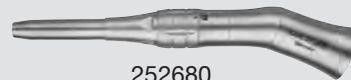
252680 High-Speed Handpiece

97

Spare Part



252610
Irrigation Tube



252680

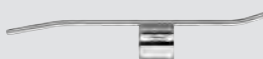
Components / Spare Parts

Catalog page

252681 High-Speed Handpiece

97, 231

Spare Part



252611
Irrigation Tube



252681

Components / Spare Parts

Catalog page

252682 High-Speed Handpiece

231

Spare Part



252612
Irrigation Tube



252682

Components / Spare Parts

Catalog page

252660 High-Speed Handpiece

98

252690 High-Speed Handpiece

98

Spare Part



252614
Irrigation Tube



252660

Components / Spare Parts

Catalog page

252661 High-Speed Handpiece

98, 232

252691 High-Speed Handpiece

98, 233

Spare Parts



252615
Irrigation Tube



252661

Components / Spare Parts

Catalog page

252662 High-Speed Handpiece

232

252692 High-Speed Handpiece

233

Spare Part



252616
Irrigation Tube



252662

Components / Spare Parts

Catalog page

252663 High-Speed Handpiece

232

Spare Part



252617
Irrigation Tube

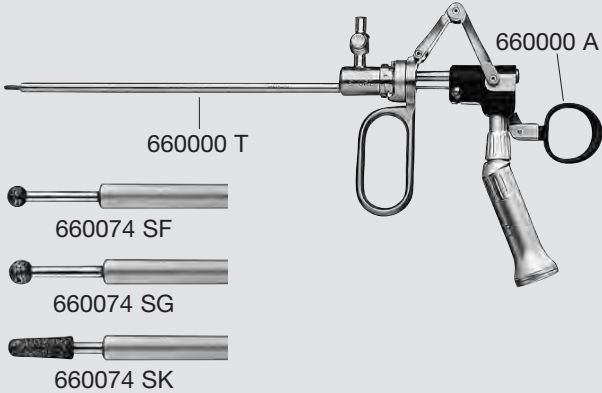



252663

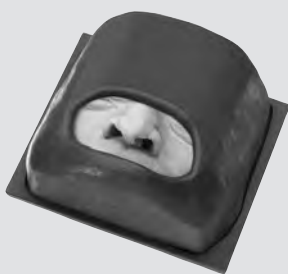
Miscellaneous

SCHMÄL **CARTCUT®** Cartilage Cutter,
 STAMMBERGER-SACHSE Intra-nasal Drill,
 BOWMAN Lachrymal Probe, Training Model

Components / Spare Parts		Catalog page
523950	SCHMÄL CARTCUT® Cartilage Cutter	150
523951	Holding Device	
523952	Cleaning Adaptor	
523954	Holding-down Clamp	
523956	Knife, 1 mm	
523958	Knife, 2 mm	

Components / Spare Parts		Catalog page
660000	STAMMBERGER-SACHSE Intra-nasal Drill	229, 317
660000 A	Double Ring Sliding Handle , for moving abrador forwards and backwards in the guiding sheath, with fixed INTRA drill handpiece	
660000 T	Guide Sheath , outer diameter 5 mm, with irrigation stopcock	
660074 SF	Diamond Abrador , delicate, spherical, diameter 2.5 mm	
660074 SG	Diamond Abrador , delicate, spherical, diameter 3 mm	
660074 SK	Diamond Abrador , delicate, conical, from diameter 2.5 mm to diameter 3 mm	

Components / Spare Parts		Catalog page
634840	BOWMAN Lachrymal Probe	311, 315
745830	Probe , size 0000 – 000	
745800	Probe , size 00 – 0	
745802	Probe , size 1 – 2	

Components / Spare Parts		Catalog page
723128	Training Model	318
723128 A	Section Plane 1: Front Plate	
723128 B	Section Plane 2: Turbinate/Septum	
723128 C	Section Plane 3: Maxillary Sinus	
723128 D	Section Plane 4: Ethmoidal Cells	
723128 E	Section Plane 5: Sphenoidal Sinus	
723128 F	Base Plate	
723128 G	Mask	
723128 H	Case	
723128 K	Documentation Atlas	

Miscellaneous

Holding Systems

Components / Spare Parts

Catalog page

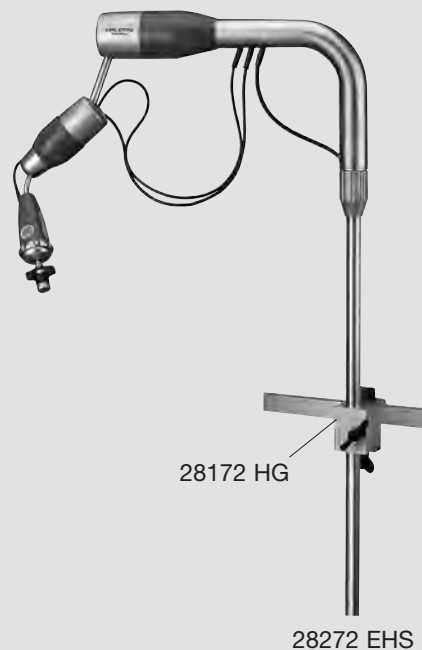
28272 RKB	Holding System, autoclavable , with quick release coupling KSLOCK	203
28172 HR	Rotation Socket , to clamp to the OR table, for European and US standard rails, with lateral clamp for height and angle adjustment of the articulated stand	
28272 HB	Articulated Stand , reinforced version, L-shaped, with one central clamp for all five joint functions, height 48 cm, swivel range 52 cm, with quick release coupling KSLOCK (female)	
28272 UKN	Clamping Jaw , metal, clamping range 4.8 up to 12.5 mm, with quick release coupling KSLOCK (male), for use with instrument and telescope sheaths	



Components / Spare Parts

Catalog page

28272 EC	ENDOCRANE® , piezoregulated holding arm	744
28272 ECS	ENDOCRANE® Arm , including stand	
28172 HG	Socket , to clamp to the OR table	
20780020	Control Unit	
040146-25*	Cover , sterile, package of 25	
28272 ECW	Spring Balance	
400 A	Mains Cord , length 300 cm	



Miscellaneous

Holding Systems – Accessories

Components / Spare Parts

Catalog page

- 20031002** **Air Compressor**, for POINT SETTER®
- 20031020 **Air Compressor**, 0 – 8 bar, power supply 230 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg
- 27630022 **Fabric Reinforced Tube**, for connecting CALCUSPLIT® SCB 27630020
- 28172 WC **Connecting Tube**, length 600 cm, for use with for POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar



20031002

750

Components / Spare Parts

Catalog page

- 20031002 C** **Air Compressor**, for POINT SETTER®
- 20031020 C **Air Compressor**, 0 – 8 bar, power supply 115 VAC, 50/60 Hz, dimensions (w x d x h): approx. 500 x 320 x 340 mm, weight approx. 22 kg
- 27630022 **Fabric Reinforced Tube**, for connecting CALCUSPLIT® SCB 27630020
- 28172 WC **Connecting Tube**, length 600 cm, for use with for POINT SETTER® holding system, required pressure setting min. 6 to max. 8 bar



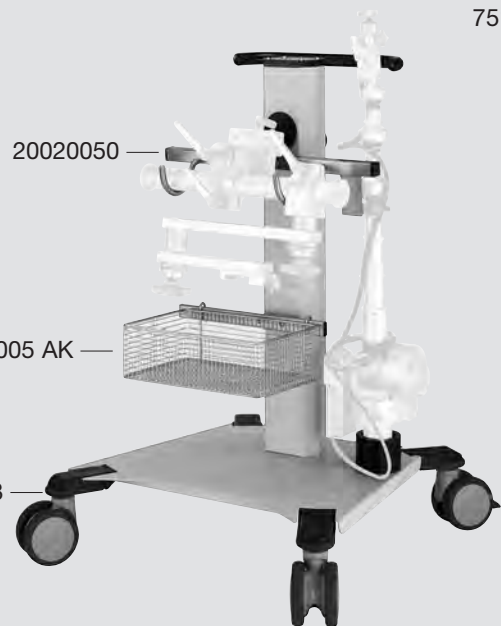
20031002 C

750

Components / Spare Parts

Catalog page

- 20020059** **STOR-E® Transport Cart**, for POINT SETTER®
- 20020053 **Mobile Stand**, for POINT SETTER®
- 20020050 **Attachment Set**, for POINT SETTER®
- 29005 AK **Wire Basket**



751

Miscellaneous

NAV1® PICO

Components / Spare Parts

Catalog page

40800001	NAV1® PICO
40800020	Panel PC , including installed ENT navigation software and passive touch pen
40800028	Optical Mouse
40800030	Camera
40800040	Electronic Box
40800050	Docking Adaptor , for panel PC, with CD-RW/DVD-ROM
40800060	Stand , mobile, with locking knob for camera
40800072	Data Cable
40800074	VGA Cable
40800076	Camera Cable
40800080	Headband with Plastic Holder
40800087	Patient Tracker II , with glass marker spheres, autoclavable
40800090	Case , for panel PC, camera, electronic box, mobile stand and connecting cables
40800110	Navigation Probe , with glass marker spheres, autoclavable
400 A	Mains Cord , length 300 cm

713



Suction and Irrigation Systems

CLEARVISION® II

Components / Spare Parts

Catalog page

- 40334101 **CLEARVISION® II**, lens irrigation system for endoscopes
- 40334120 **CLEARVISION® II**, power supply 100 – 240 VAC, 50/60 Hz
- 400 A **Mains Cord**
- 20014230 **One-Pedal Footswitch**
- 40334140 **Silicone Tubing Set**, sterilizable

200



40334120

Spare Part



2027390
Mains Fuse,
T 1.0 A (SB),
package of 10

Components / Spare Parts

Catalog page

- 40334140 **Silicone Tubing Set**, for irrigation

—



Spare Parts



20330088
Puncture Needle,
for irrigation bottle



2724190
**LUER-Lock Tube
Connector**, male,
tube diameter 2 mm



2723091
Connector, large tube
diameter



40334180
Pump Tube,
for CLEARVISION®II,
sterilizable, package of 25



2727291
Connector, small tube
diameter

High Frequency Surgery Units

AUTOCON® II 400 SCB, AUTOCON® 200

Components / Spare Parts

Catalog page

AUTOCON® II 400 SCB

418



20535220-111/20535220-112/20535220-113
20535220-114/20535220-115/20535220-116

AUTOCON® II 400 SCB, Set	20535201-111	20535201-112	20535201-113
AUTOCON® II 400 SCB, power supply 230 VAC, 50/60 Hz	20535220-111	20535220-112	20535220-113
Mains Cord, length 300 cm	400 A	400 A	400 A
SCB Connecting Cable, length 100 cm	20090170	20090170	20090170
AUTOCON® II 400 SCB, Set	20535201-114	20535201-115	20535201-116
AUTOCON® II 400 SCB, power supply 230 VAC, 50/60 Hz	20535220-114	20535220-115	20535220-116
Mains Cord, length 300 cm	400 A	400 A	400 A
SCB Connecting Cable, length 100 cm	20090170	20090170	20090170

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Components / Spare Parts

Catalog page

20522501 AUTOCON® 200

420

20522520 **AUTOCON® 200,**
power supply 200 – 240 VAC,
50/60 Hz

400 A **Mains Cord,** length 300 cm

27809 **Adaptor,** for unipolar HF output,
diameter 4/5 mm



20522520

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

High Frequency Surgery Units

AUTOCON® 200

Components / Spare Parts

Catalog page

20522501 C AUTOCON® 200

420

20522520 C **AUTOCON® 200**,
power supply 100 – 120 VAC,
50/60 Hz

400 A **Mains Cord**, length 300 cm

27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm



20522520 C

Spare Part



2028090
Mains Fuse,
T 8.0 AL (SB),
package of 10

Components / Spare Parts

Catalog page

20522501-010 AUTOCON® 200

420

20522520-010 **AUTOCON® 200**, with ENDOCUT
function, power supply 200 – 240 VAC,
50/60 Hz

400 A **Mains Cord**, length 300 cm

27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm



20522520-010

Spare Part



2027690
Mains Fuse,
T 4.0 AL (SB),
package of 10

Components / Spare Parts

Catalog page

20522501C010 AUTOCON® 200

420

20522520C010 **AUTOCON® 200**, with ENDOCUT function,
power supply 100 – 120 VAC, 50/60 Hz

400 A **Mains Cord**, length 300 cm

27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm



20522520C010

Spare Part



2028090
Mains Fuse,
T 8.0 AL (SB),
package of 10

High Frequency Surgery Units

AUTOCON® 50

Components / Spare Parts

Catalog page

- 20520501** **AUTOCON® 50**
- 20520520 **AUTOCON® 50**,
power supply 100/120/230/240 VAC,
50/60 Hz
- 400 A **Mains Cord**, length 300 cm
- 27809 **Adaptor**, for unipolar HF output,
diameter 4/5 mm

422



20520520

Spare Part



2027590
Mains Fuse,
T 2.0 AL (SB),
package of 10

Surgery Electrodes Set

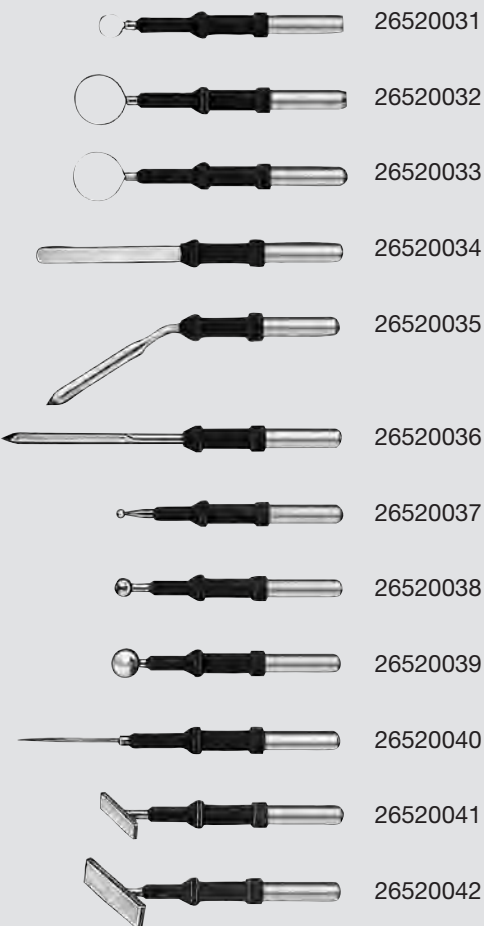
Components / Spare Parts

Catalog page

20530008 Surgery Electrodes Set

425

- 20530031 **Container with Lid and Sterilizing Insert,**
for 16 electrodes with diameter 4 mm
- 26520031 **Wire Snare, 5 mm**
- 26520032 **Wire Snare, 10 mm**
- 26520033 **Ribbon Snare, 10 mm**
- 26520034 **KIRSCHNER Spatula Electrode, straight**
- 26520035 **MAGENAU Knife Electrode, angled**
- 26520036 **MAGENAU Knife Electrode, lancet-shaped**
- 26520037 **Ball Electrode, 2 mm**
- 26520038 **Ball Electrode, 4 mm**
- 26520039 **Ball Electrode, 6 mm**
- 26520040 **Needle Electrode**
- 26520041 **Flat Electrode, 8 x 10 mm**
- 26520042 **Flat Electrode, 10 x 15 mm**





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