

ENDOSCOPIC EAR SURGERY INSTRUMENTS



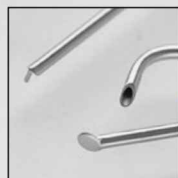
Endoscopes in Ear Surgery (ESS) allows enhanced surgical visualization and illumination. The distal part of the scopes can even be angled to allow a wider view of the operative area. Transcanal endoscopic techniques have transformed the external ear canal into an endoscopic approach.

The benefits of EES are wider views, enhanced imaging capabilities and increased magnification, and ways to see otherwise poorly visualisable portions of the middle ear.

Compared with microscope-assisted surgery, endoscopic tympanoplasty has been shown to require a shorter operating time in some instances (Emre et al. 2019)*. The major limitation of ESS has been the fact that it is a single-handed technique and that visualisation is often limited by bleedings.

The **EESy** instruments allows the surgeon to use the one-hand technique. The instruments are a suction – cutting – dissection combination. These gives you major benefits in ESS and reduce the limitations of the endoscopic approach.

With the **EESy** you have one hand for the scope and the other for the instrument. You avoid the constant change of instruments and suction devices.



Dissecting, cutting and suction in one working step



Silicone coating makes the instrument easy to handle

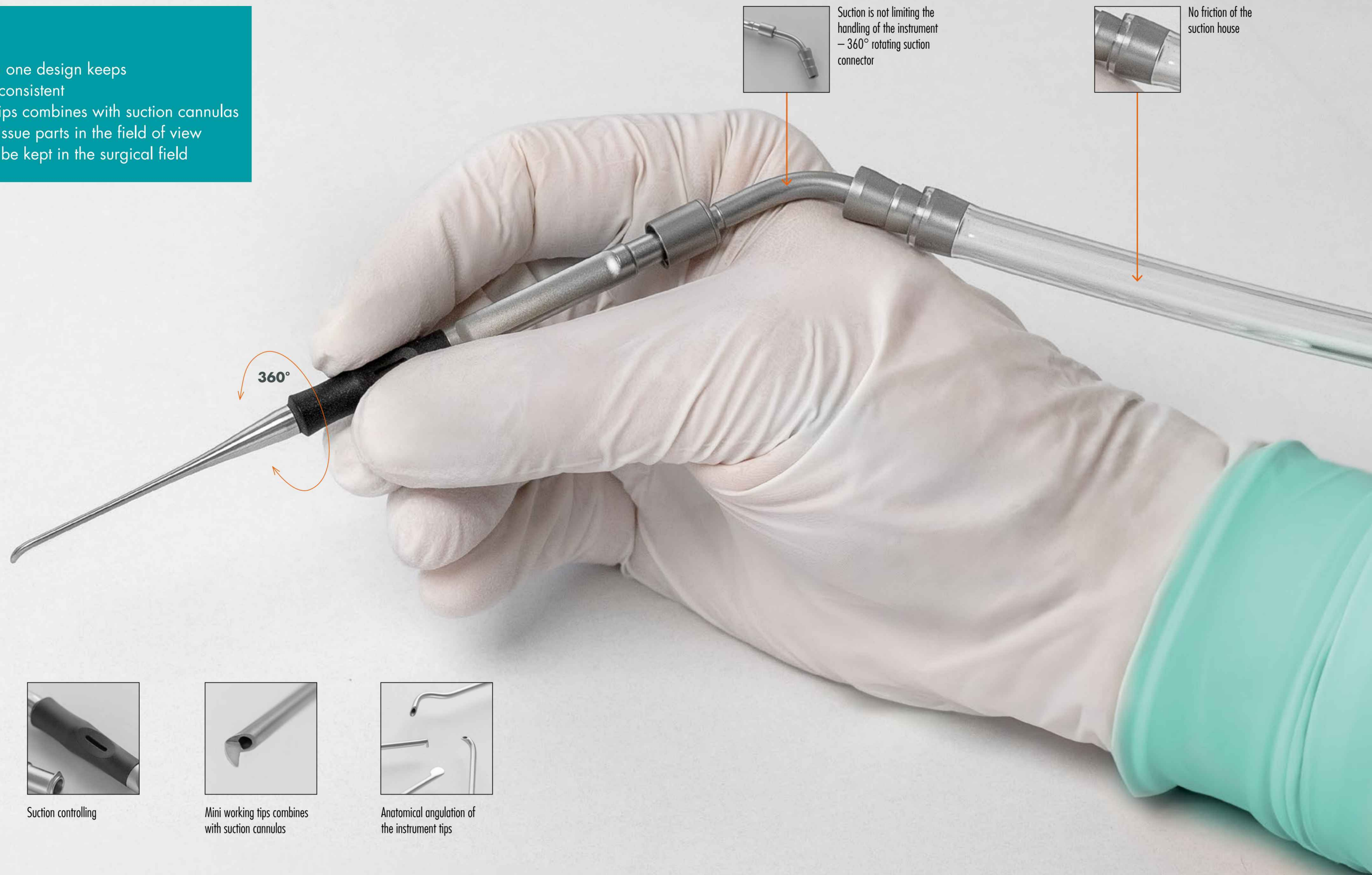
Watch the product video





Benefits:

- Different tips in one design keeps your handling consistent
- Mini working tips combines with suction cannulas
- Less blood or tissue parts in the field of view
- Instrument can be kept in the surgical field



Suction can be adjusted by the finger tip



Suction controlling



Mini working tips combines with suction cannulas



Anatomical angulation of the instrument tips



Suction is not limiting the handling of the instrument – 360° rotating suction connector



No friction of the suction house

ENDOSCOPIC EAR SURGERY INSTRUMENTS



Suction Dissector for Tympanum, single curved

	3.0mm / 6.2mm	left	410-880-001
	3.0mm / 6.2mm	right	410-880-002
	0.6mm, Ø 1.0mm suction channel	left	410-880-003
	0.6mm, Ø 1.0mm suction channel	right	410-880-004

Suction Dissector for Sinus Tympani, double curved, backward

	3.0mm / 6.2mm	left	410-880-005
	3.0mm / 6.2mm	right	410-880-006

Suction Dissector for Atticus

	3.0mm / 6.2mm	left	410-880-007
	3.0mm / 6.2mm	right	410-880-008

Suction Micro Hook

	1.0mm / 6.2mm	45°	410-880-011
	1.5mm / 6.2mm	45°	410-880-012
	2.0mm / 6.2mm	45°	410-880-013

Suction Round Knife

	Ø 2.5mm / 6.2mm	45°	410-880-014
	Ø 2.0mm / 6.2mm	45°	410-880-015
	Ø 2.5mm / 6.2mm	45°	410-880-016

Suction Knife, oval

	6.2mm	left	410-880-017
	6.2mm	right	410-880-018

Suction Sickle Knife

	2.0mm	35° curved	410-880-019
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ENDOSCOPIC EAR SURGERY INSTRUMENTS



Suction Curette

	1.5 x 2.5mm	curved	410-880-020
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Suction Dissector for Tympanum

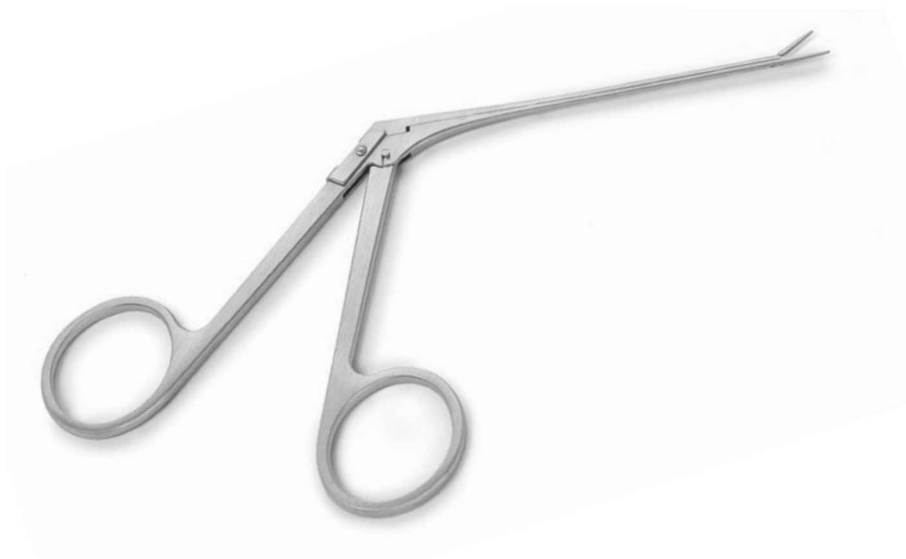
	extra fine	left	410-880-009
	extra fine	right	410-880-010

Suction Finder

	blunt		410-880-021
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410-880-000
Suction Adaptor, 55° curved, rotatable,
male, LuerLock



Micro Ear Forceps with sliding shaft, 80mm working length



0.6mm wide, 4.5mm jaw

Oval cup, straight

410-341-800



0.9mm wide, 4.5mm jaw

Oval cup, upwards curved

410-342-500



0.9mm wide, 4.5mm jaw

Oval cup, downwards curved

410-347-500



0.8 x 6.0mm jaw

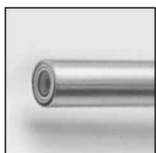
straight

410-345-080

ENDOSCOPIC EAR SURGERY INSTRUMENTS



RZ Sinuscopes, 110mm working length



Ø 2.7mm

0°

252-127-200



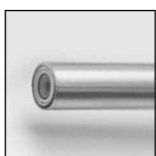
Ø 2.7mm

30°

252-127-230



RZ ,Otoscopes, 75mm working length



Ø 2.7mm

0°

410-027-000



Ø 2.7mm

30°

410-027-030



Ø 2.7mm

70°

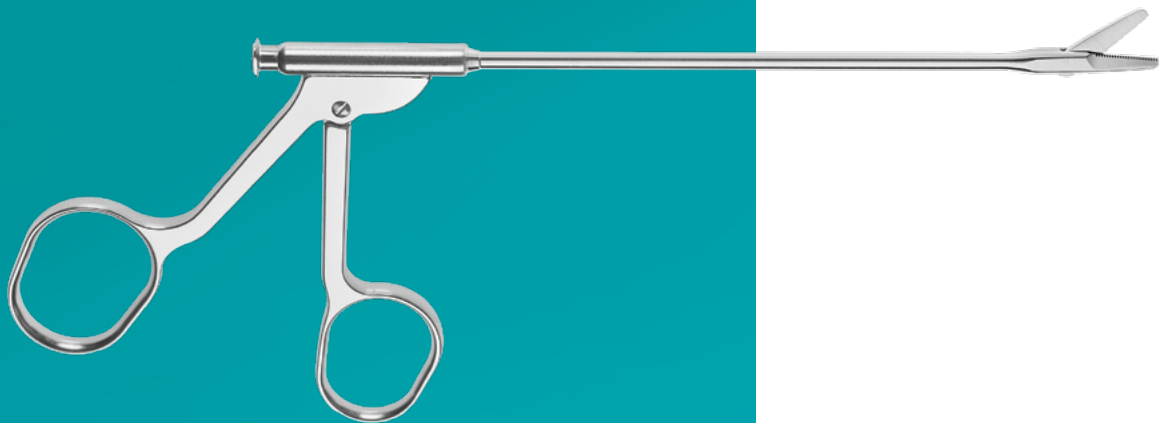
410-027-070

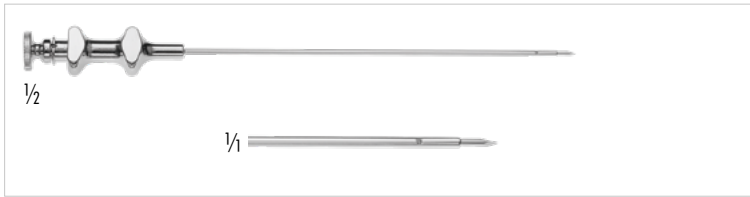
EESy

Endoscopic
Ear
Surgery
Instruments



SINUSCOPY

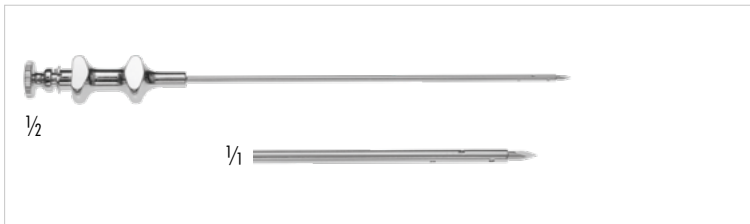




252-015-110 Ø 1,5 mm
252-020-110 Ø 2,0 mm

LICHTWITZ-BIER

Kieferhöhlenpunktionskanüle mit Luer-Ansatz, 100 mm
Antrum trocar needle, Luer attachment, 4 inch



252-115-110 Ø 1,5 mm
252-118-110 Ø 1,8 mm
252-120-110 Ø 2,0 mm
252-125-110 Ø 2,5 mm

EICKEN

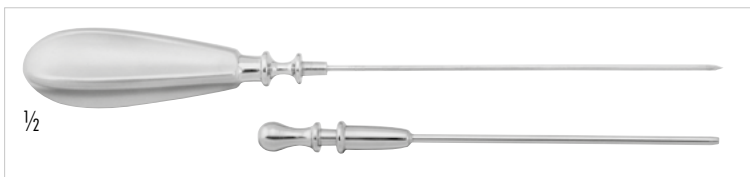
Kieferhöhlenpunktionskanüle mit Luer-Ansatz, 105 mm
Antrum trocar needle, Luer attachment, 4 inch



165-052-018

LICHTWITZ

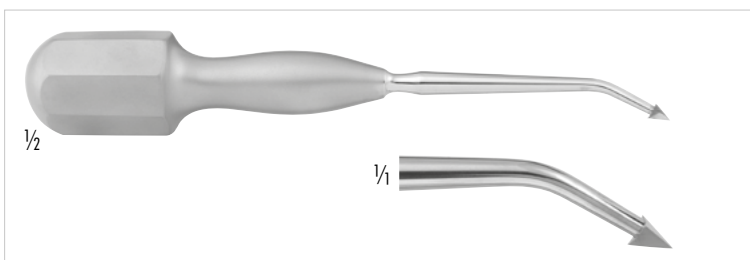
Kieferhöhlentrokar, Ø 1,8 mm, 180 mm, Arbeitslänge: 85 mm
Antrum trocar, Ø 1.8 mm, 7 inch, working length: 3 1/2 inch



165-152-017 Ø 1,7 mm 165-152-023 Ø 2,3 mm
165-152-020 Ø 2,0 mm 165-152-027 Ø 2,7 mm

TILLEY LICHTWITZ

Kieferhöhlentrokar, 185 mm
Antrum trocar, 7 1/4 inch



165-059-170 Ø 4 mm

TILLEY

Harpunentrokar, 170 mm
Harpoon trocar, 6 3/4 inch



252-025-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-025-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-025-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Kiefernhöhenspülröhrchen, leicht gebogen, mit zentraler Öffnung und Luer-Ansatz, 130 mm
 Irrigating antrum cannula with central opening, slightly curved, Luer attachment, 5 1/8 inch



252-125-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-125-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-125-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Kiefernhöhenspülröhrchen, stark gebogen, mit zentraler Öffnung und Luer-Ansatz, 140 mm
 Irrigating antrum cannula with central opening, strong curved, Luer attachment, 5 1/2 inch



252-225-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-225-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-225-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Antrum Kanüle, stark gebogen, mit Stoploch im Griff, Arbeitslänge: 150 mm
 Antrum Cannula, strong curved, with cut-off hole, working length: 6 inch



252-325-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-325-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-325-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Antrum Kanüle, leicht gebogen, mit Stoploch im Griff Arbeitslänge: 150 mm
 Antrum Cannula, slightly curved, with cut-off hole, working length: 6 inch



252-425-150 außen Ø 2,5 mm/outer Ø 2.5 mm
 252-425-151 außen Ø 3,0 mm/outer Ø 3.0 mm
 252-425-152 außen Ø 4,0 mm/outer Ø 4.0 mm

EICKEN

Antrum Kanüle, leicht gebogen, biegsam, Arbeitslänge: 150 mm
 Antrum Cannula, slightly curved, malleable, working length: 6 inch

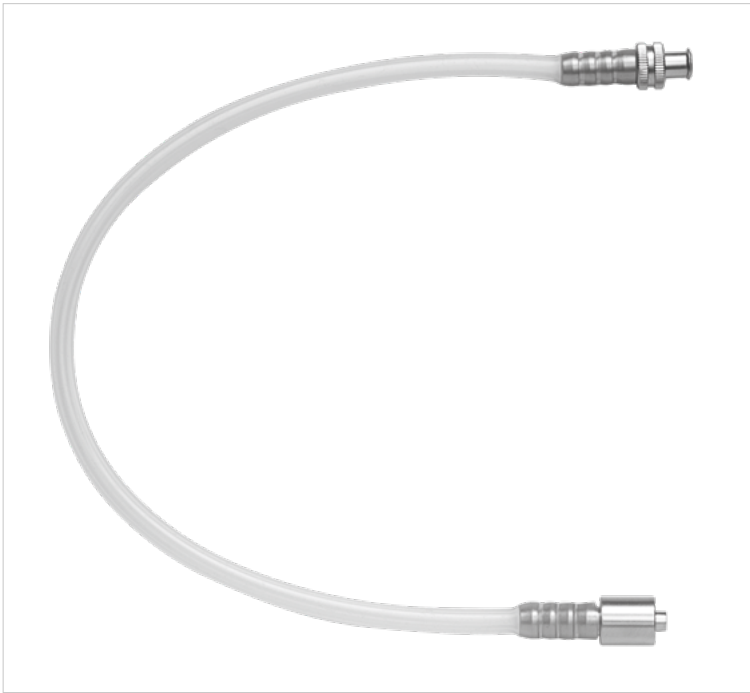


165-072-025 Ø 2,5 mm

SIEBENMANN

Kiefernhöhlenspülröhrchen, mit der Öffnung am äußeren Biegeradius, stumpf, 130 mm

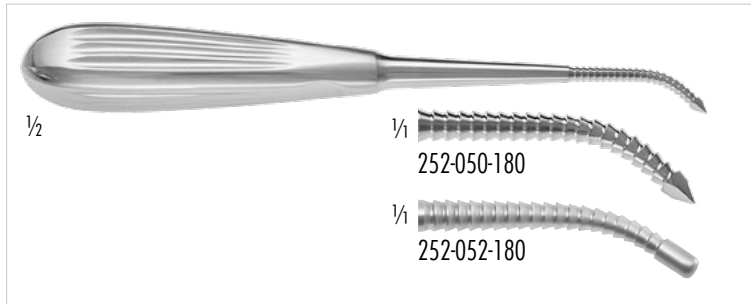
Irrigation antrum cannula, with outside opening, blunt, 5 1/8 inch



165-076-300

Spülschlauch, Silikon, autoklavierbar, komplett mit LUER-Lock Adapter, 300 mm

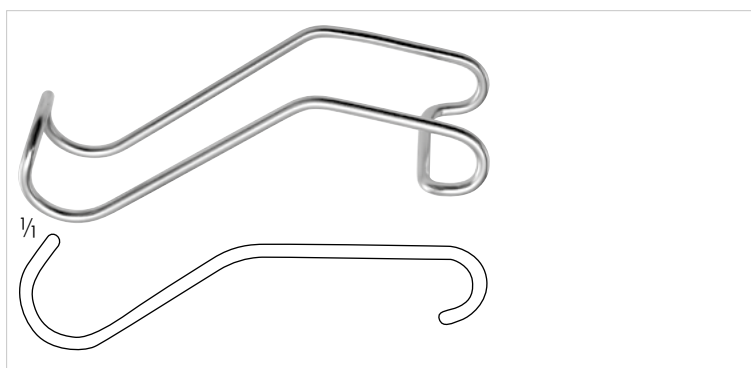
Irrigation tube, silicone, autoclavable, complete with LUER-Lock attachment, 12 inch



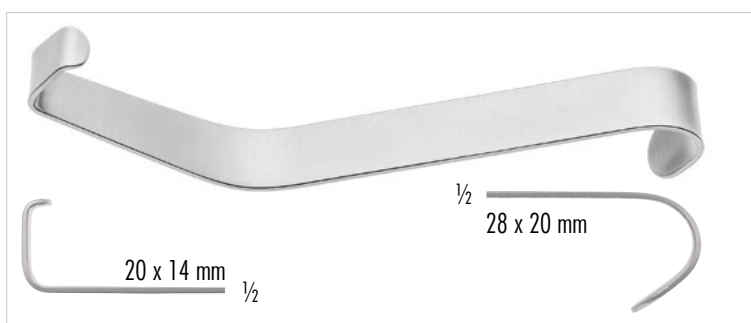
252-050-180 spitz / sharp
 252-052-180 stumpf / blunt
 Kieferhöhlen Trephine, amerikanisches Modell, 180 mm
 Antrum trephine, American pattern, 7 inch



252-053-170
FAULKNER
 Kieferhöhlenmeissel, 170 mm
 Antrum Chisel, 6 3/4 inch



430-301-120 120 mm, 4 3/4 inch
 430-301-130 140 mm, 5 1/2 inch
 430-301-135 160 mm, 6 1/4 inch
STERNBERG
 Wangenhalter
 Cheek retractor



170-285-165
HAJEK
 Wundhaken, 180 mm
 Wound retractor, 7 inch



170-293-001 30 x 11 mm
LANGENBECK
 Wundhaken, 220 mm
 Wound retractor, 8 3/4 inch



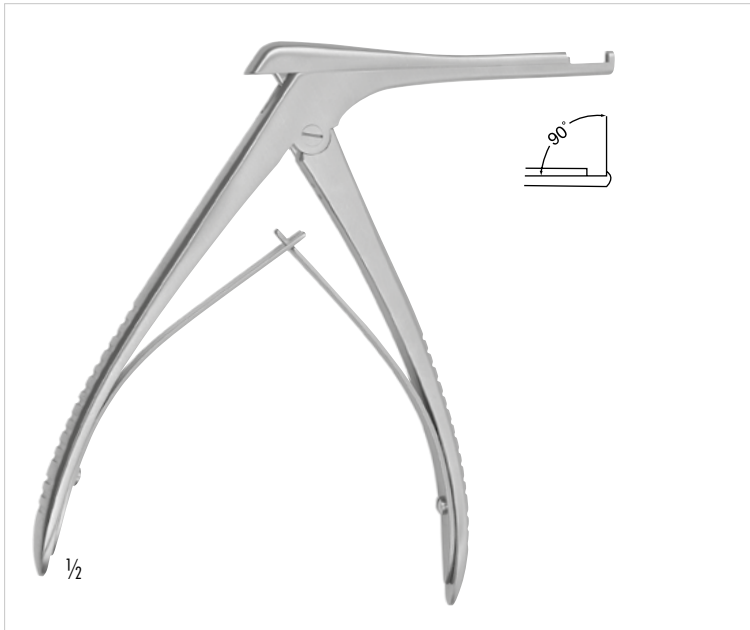
252-500-175 3mm Ausschnitt/bite
 252-499-175 2mm Ausschnitt/bite
 Stirnhöhlenstanze, 70° im Schaft aufgebogen,
 40° nach oben vorwärts schneidend, Arbeitslänge: 140mm
 Frontal Sinus Punch Forceps, sheath 70° upturned,
 40° upbiting forward, working length: 5½ inch



252-150-110
 Antrum Stanze, 65° vorwärts schneidend,
 3,5 x 3,7mm Schnitt
 Antrum Punch, 65° forward biting,
 3.5 x 3.7mm bite



252-151-110
 Antrum Stanze, 30° aufgebogen
 Antrum Punch, 30° upwards curved

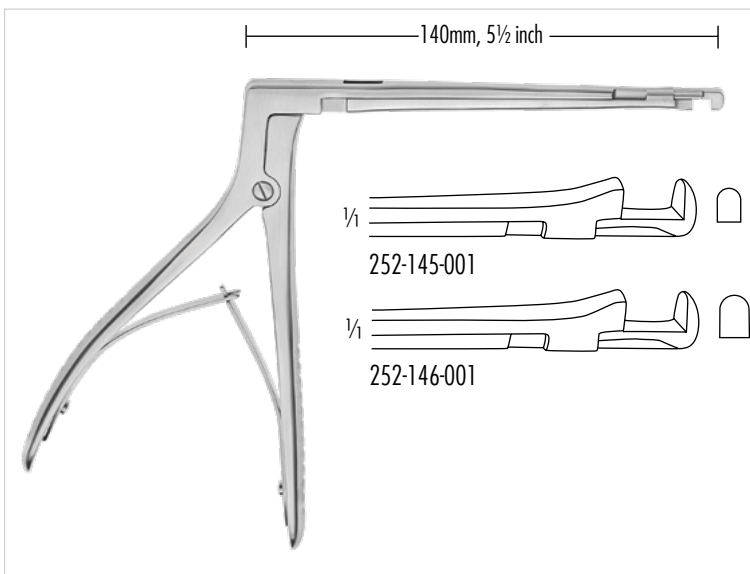


252-200-095 2 mm Schnitt / 2 mm bite
BEYER

Kieferhöhlenstanze, Arbeitslänge: 95 mm
Antrum Punch, working length: 3 3/4 inch

252-200-195

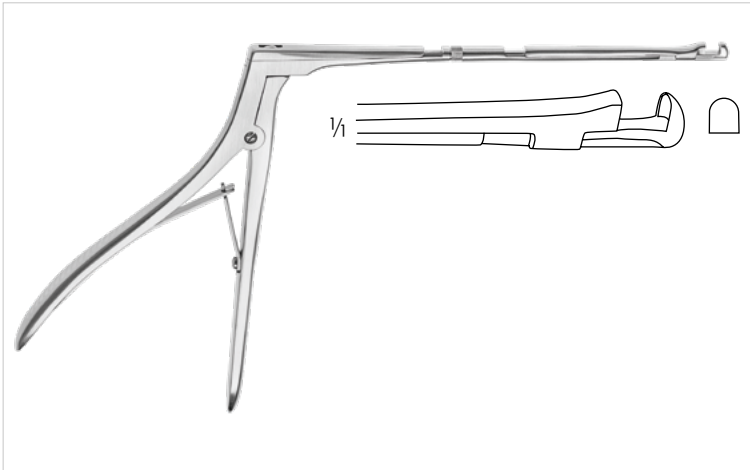
Dito, retrograd schneidend
Same, backward cutting



252-145-001 nach oben/upbiting
252-145-002 nach unten/downbiting
252-145-003 nach oben, rückwärts/upbiting, backward
252-145-004 nach unten, rückwärts/downbiting, backward
252-145-005 nach oben, vorwärts/upbiting, forward
252-146-001 nach oben/upbiting, 4.5 x 4.5 mm

HAJEK-KOFLER

Stanze, 3,5 x 3,5 mm, 140 mm
Punch, 3.5 x 3.5 mm, 5 1/2 inch



252-535-170 3,5 mm

HAJEK-KOFLER

Stanze, drehbar 360°, Arbeitslänge: 170 mm

Punch, rotating 360°, working length: 6 3/4 inch



252-147-170

CITELLI

Knochenstanze, 1,5 mm, durchschneidend, Arbeitslänge: 170 mm

Bone punch, 1.5 mm, through cutting, working length: 6 3/4 inch



252-148-170

BEYER

Knochenstanze, 2,0 mm, durchschneidend, Arbeitslänge: 170 mm

Bone punch, 2.0 mm, through cutting, working length: 6 3/4 inch



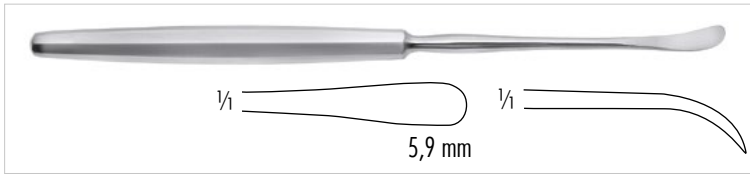
252-149-172 nach oben / upbiting

252-149-272 nach unten / downbiting

KERRISON

Knochenstanze, 2,0 mm, Arbeitslänge: 180 mm

Bone punch, 2.0 mm, working length: 7 inch



420-549-200 6 mm
SEWALL
 Kieferhöhlen Elevator, stumpf, 200 mm
 Antrum elevator blunt, 8 inch



252-009-000 4.5 mm Spitze / tip
 252-009-001 6.5 mm Spitze / tip
FREER
 Elevator, doppelendig, scharf/stumpf, 200 mm
 Elevator, double-ended, sharp/blunt, 7 3/4 inch



252-025-210
KUHN-BOLGER
 Doppelinstrument, rechts abgewinkelter Haken, 210 mm
 Double-instrument, hook angled to the right, 8 1/4 inch



252-025-190
 Doppelinstrument zum Sondieren d. Ostium, kugelförmige
 Enden 1,2 mm / 2,0 mm, 210 mm
 Ostium probe, double-ended ball probe: 1.2mm / 2.0 mm, 8 1/4 inch



252-205-190 spitz/sharp
 252-215-190 stumpf/blunt
 Sichelmesser, spitz, 200 mm
 Sickle knife, sharp, 7 3/4 inch



252-071-190 Gr. 1
 252-082-190 Gr. 2
 252-093-190 Gr. 3
 Kieferhöhlenlöffel, oval, 200 mm
 Antrum spoon, oval, 7 3/4 inch



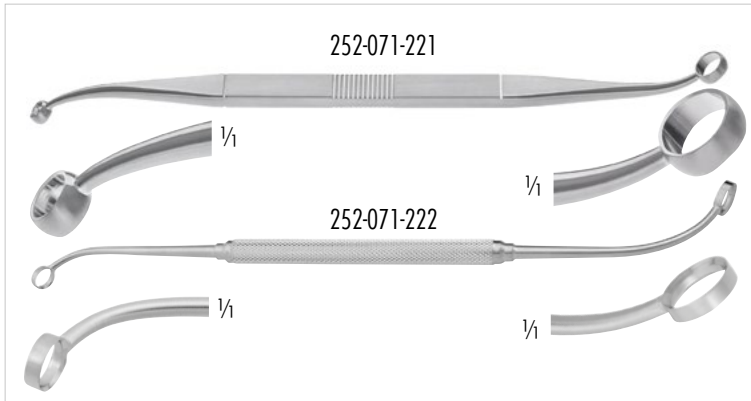
252-171-190 rund, 45° gebogen/round, 45° curved
 252-182-190 oval klein, gebogen/oval small, curved
 252-193-190 oval groß, 30° gebogen/oval large, 30° angled
 Kieferhöhlenlöffel, 200mm
 Antrum spoon, 7 3/4 inch



252-027-190
 Doppelkürette, oval, kurz gebogen 45°, halbscharf: 2,2 mm,
 andere Seite: 90° lang gebogen, 2,7 mm, 190 mm
 Curette, double-ended, oval, short curve 45°, semi-sharp: 2.2 mm
 Other side: 90° long curve: 2.7 mm, 7 1/2 inch



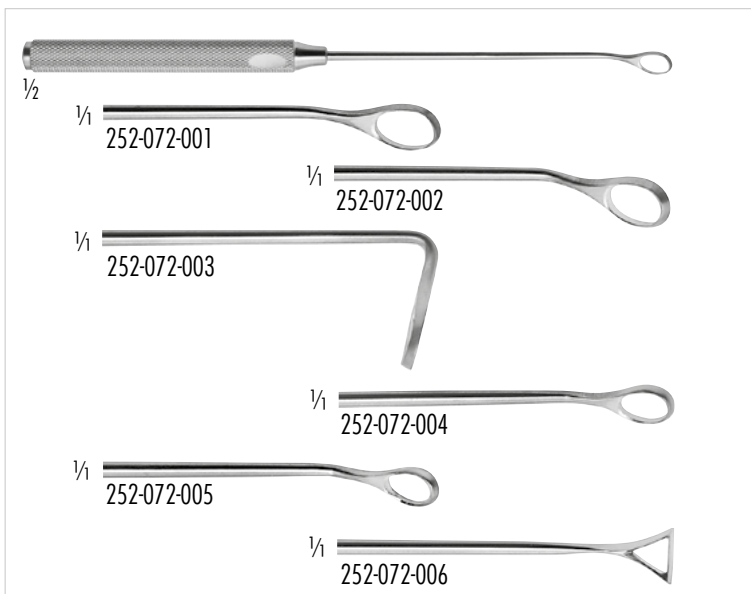
252-071-220
FAULKNER
 Kieferhöhlenkürette, 220 mm
 Antrum curette, 8 1/2 inch



- 252-071-221 klein, Ringgröße 5 x 8 mm
small, ringsize 5 x 8 mm
- 252-071-222 groß, Ringgröße 6 x 9 mm
large, ringsize 6 x 9 mm

FAULKNER

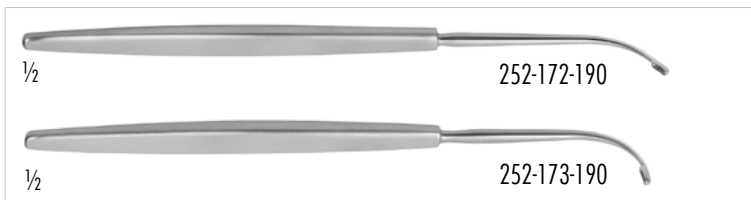
Kieferhöhlenkürette, biegsam, 220 mm
Antrum curette, malleable, 8 3/4 inch



- 252-072-001 Fig. 1
252-072-002 Fig. 2
252-072-003 Fig. 3
252-072-004 Fig. 4
252-072-005 Fig. 5
252-072-006 Fig. 6

COAKLEY

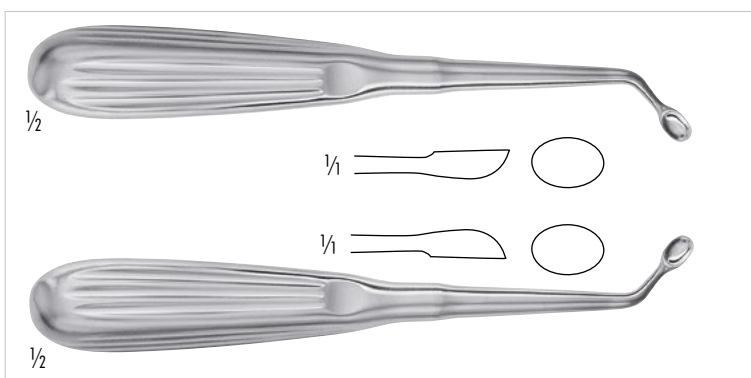
Kieferhöhlenkürette, 170 mm
Antrum curette, rigid shank, 6 3/4 inch



- 252-172-190 55° gebogen/curved
252-173-190 90° gebogen/curved

KUHN-BOLGER

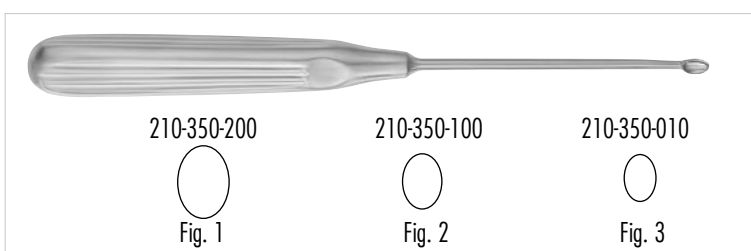
Kieferhöhlenlöffel, 190 mm
Antrum spoon, 7 1/2 inch



- 210-345-007 rechts gebogen/right curved
210-347-007 links gebogen/left curved

UFFENORDE

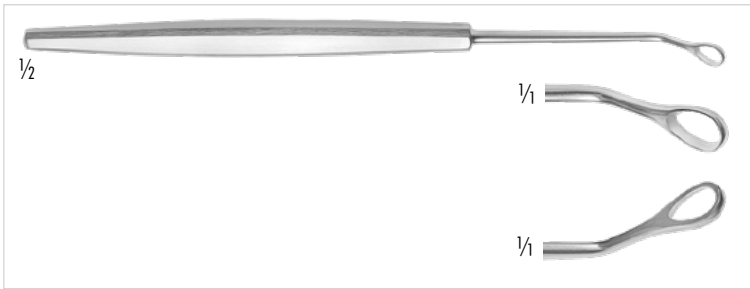
Kieferhöhlenlöffel, 170 mm
Antrum spoon, 6 3/4 inch



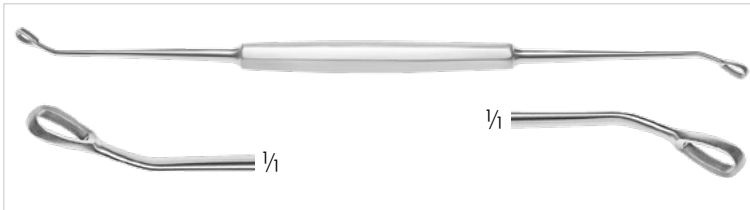
- 210-350-200 4,8 mm Fig. 1
210-350-100 5,8 mm Fig. 2
210-350-010 6,8 mm Fig. 3

HALLE

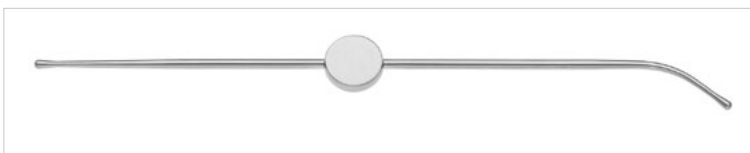
Scharfe Löffel, biegsam, 210 mm
Antrum spoon, malleable, sharp, 8 1/4 inch



252-113-190 vorwärts schneidend/forward cutting
 252-114-190 rückwärts schneidend/backward cutting
COAKLEY
 Kieferhöhlenkürette, klein, 200 mm
 Antrum curette, small, 7 3/4 inch



252-072-245
HALLE
 Kieferhöhlenkürette, 200 mm
 Antrum curette, 7 3/4 inch



252-073-200
 Kieferhöhlensonde, 200 mm
 Antrum probe, 7 3/4 inch



252-140-190 4 mm
WEST
 Hohlmeißel, 190 mm
 Gouge, 7 1/2 inch



252-040-190 4 mm
WEST
 Flachmeißel, 190 mm
 Chisel, 7 1/2 inch



252-041-012 12 mm
 252-041-017 17 mm
 Spatel, biegsam, 200 mm
 Spatula, malleable, 7 3/4 inch



252-042-235
 Orbitalschützer, 235 mm
 Orbital protector, 9 1/4 inch



252-043-025 Ø 2,5 mm
 252-043-030 Ø 3,0 mm
 252-043-040 Ø 4,0 mm
 252-043-050 Ø 5,0 mm

RITTER

Stirnhöhrendilatator, 160 mm
 Frontal sinus bougies, 6 1/4 inch



165-525-006 6 Charr./Fr.
 165-525-007 7 Charr./Fr.
 165-525-008 8 Charr./Fr.
 165-525-010 10 Charr./Fr.
 165-525-012 12 Charr./Fr.

FERGUSSON

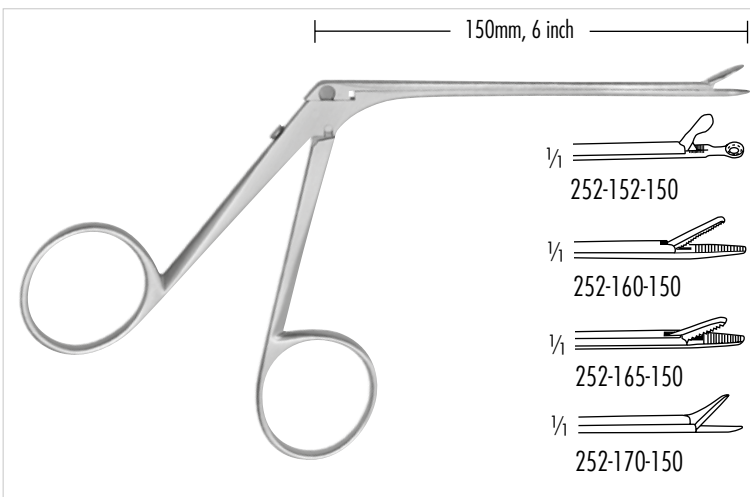
Saugkanüle, 180 mm
 Suction tube, 7 inch



252-025-180

FISCH

Saug-Spülrohr, 2,5 x 2,0 mm, 180 mm
 Suction-Irrigation tube, 2.5 x 2.0mm, 7 inch



252-152-150 Ø 2,0 mm
 Löffelzängchen, runder Löffel
 Cupped forceps, round cup

252-160-150
 Faßzängchen, fein gerieft
 Grasping forceps, fine serrations

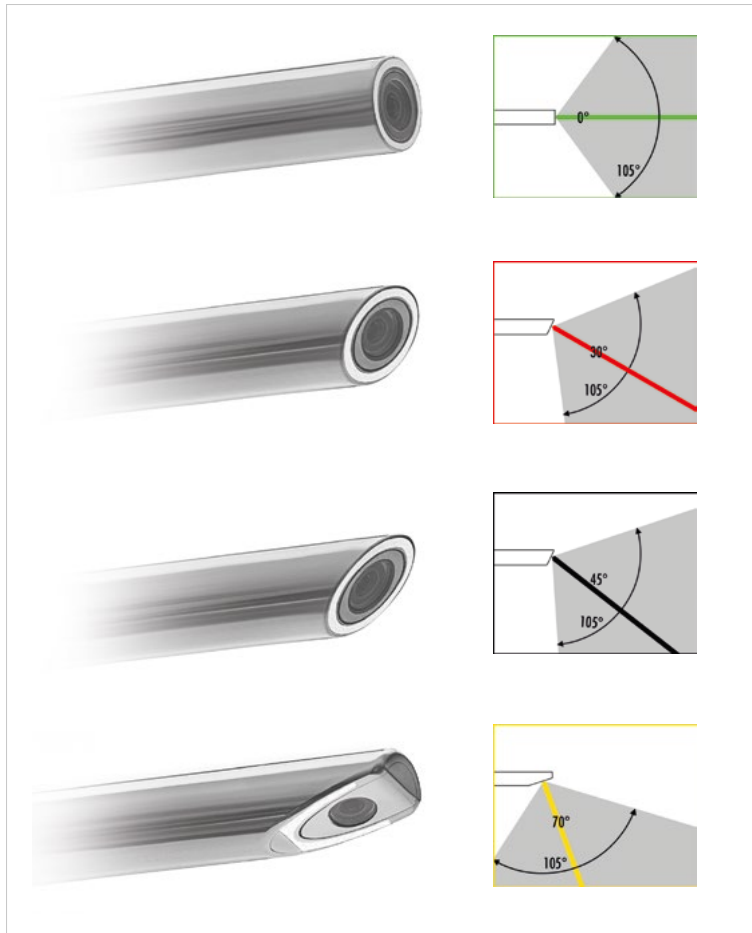
252-165-150
 Faßzängchen, grob gerieft
 Grasping forceps, coarse serrations

252-170-150
 Scherchen
 Scissors

FULL HD

Colour coding of degree:
Farbliche Kennzeichnung der Gradzahl:

0° 30° 45° 70°



- Removable eyepiece for C-mount connection or RZ QuickSnap locking
- 3-step light post adaptors to connect the most common light cables directly to the endoscope
- Sapphire glasses ensure highest stability against damages on the lens system
- Optimised glass fibre arrangements ensure an uniform image brightness of highest quality
- Full HD high definition pictures with increased detail-resolution through newest CAD-designed rod-lens systems
- Fully Autoclavable at 134°C and 2.3bar
- Abnehmbares Okular für C-Mount-Anschluss oder RZ QuickSnap-Verschluss
- 3-Stufen-Adapter zum Anschluss der gängigsten Lichtkabel, direkt am Endoskop anschließbar
- Saphirgläser sorgen für höchste Stabilität gegen Beschädigungen am Linsensystem
- Optimierte Glasfaseranordnungen sorgen für eine gleichmäßige Bildhelligkeit von höchster Qualität
- Full HD hochauflösende Bilder mit erhöhter Detailauflösung durch neueste CAD-konstruierte Stablinsensysteme
- Vollständig autoklavierbar bei 134°C und 2,3bar



252-104-200 0°
252-104-230 30°
252-104-270 70°
Sinuskopie-Optiken, Kinder, autoklavierbar, 4,0 mm, 110 mm
Sinuscopes, pediatric, autoclavable, 4.0 mm, 4 1/3 inch

252-127-200 0°
252-127-230 30°
Sinuskopie-Optiken, Kinder, autoklavierbar, 2,7 mm, 110 mm
Sinuscopes, pediatric, autoclavable, 2.7 mm, 4 1/3 inch



252-104-000 0°
252-104-030 30°
252-104-045 45°
252-104-070 70°
Sinuskopie-Optiken, autoklavierbar, 4,0 mm, 180 mm
Sinuscopes, autoclavable, 4.0 mm, 7 inch

252-127-000 0°
252-127-030 30°
252-127-070 70°
Sinuskopie-Optiken, autoklavierbar, 2,7 mm, 180 mm
Sinuscopes, autoclavable, 2.7 mm, 7 inch



300-090-100

Schutzhülse, für 2,7 mm und 4,0 mm Optiken, 190 mm

Bestelleinheit: PH=Packung á 10 Stück

Protection tube, for 2.7 mm and 4.0 mm telescopes, 7 1/2 inch

Sales unit: PH=Package of 10 pieces



251-104-001 für 4 mm Optik / for 4 mm telescopes

251-127-001 für 2,5 mm Optik / for 2.7 mm telescopes

Optik Handgriff, flach, 120 mm

Telescope handle, flat, 4 3/4 inch

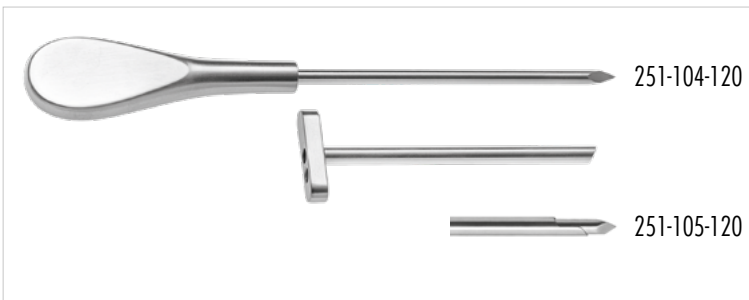


251-104-002 für 4 mm Optik / for 4 mm telescopes

251-127-002 für 2,5 mm Optik / for 2.7 mm telescopes

Optik Handgriff, rund, 120 mm

Telescope handle, round, 4 3/4 inch



251-104-120 schräges Schaftende/oblique sheath end

251-105-120 Duckbill Schaftende/Duckbill sheath end

251-127-120 für 2,7 mm Optik, 80 mm
for 2.7 mm telescope, 3 1/8 inch

Sinuskopie-Trokar und Trokarhülse für 4,0 mm Optik,

scharfer Trokar Ø 5,2 mm, 80 mm

Sinuscopy Trocar and Trocar sheath for 4.0 mm telescope,
sharp trocar Ø 5,2 mm, 3 1/8 inch

420-121-150 Fig. 1

420-122-150 Fig. 2

420-123-150 Fig. 3

HARTMANN-HALLE

Nasenspekulum, 155 mm

Nasal Specula, 6 inch



420-150-001 links/left 55mm, rechts/right 35mm

420-150-002 links/left 35mm, rechts/right 55mm

420-150-003 links/left 65mm, rechts/right 45mm

420-150-004 links/left 45mm, rechts/right 65mm

420-150-005 links/left 75mm, rechts/right 35mm

420-150-006 links/left 35mm, rechts/right 75mm

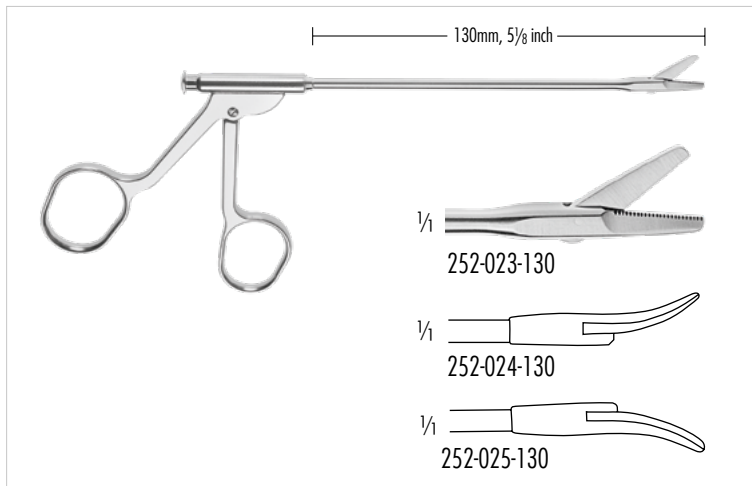
420-150-007 links/left 75mm, rechts/right 52mm

420-150-008 links/left 52mm, rechts/right 75mm

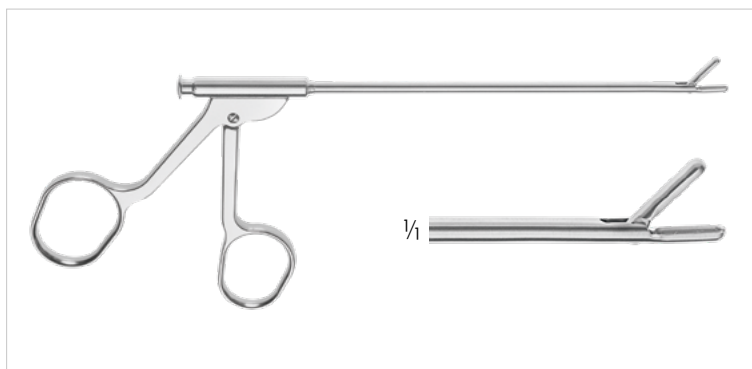
Sinus Spekula zur Verwendung mit flexiblen Spannarm,

mit Zähnen, mit Stellschraube

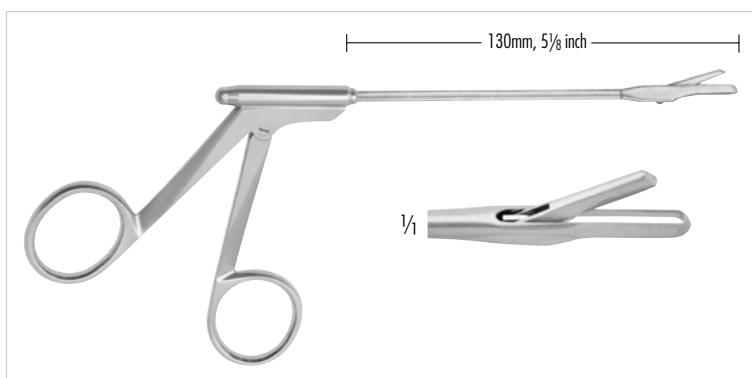
Sinus Specula for use with flexible arm, with teeth,
with set screw



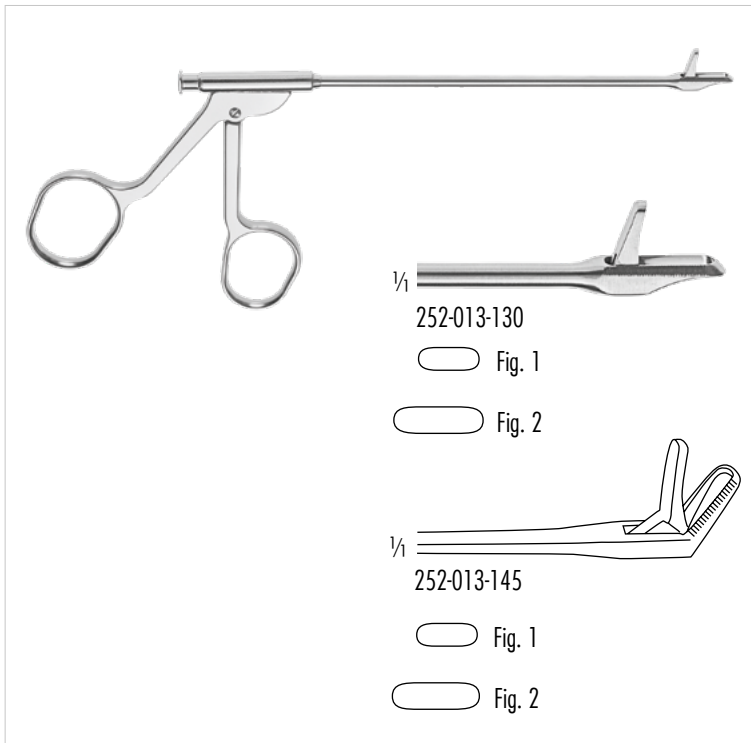
252-023-130 gerade/straight
 252-024-130 links gebogen/curved to left
 252-025-130 rechts gebogen/curved to right
 Nasenschere, 130 mm
 Nasal scissors, 5 1/8 inch



252-002-130
TAKAHASHI
 Siebbeinzange, 3x10 mm, 130 mm
 Ethmoidal forceps, 3x10 mm, 5 1/8 inch



252-003-130
STRUYCKEN
 Siebbeinzange, 130 mm
 Ethmoidal forceps, 5 1/8 inch



252-013-130 Fig. 1 8 x 3 mm
252-014-135 Fig. 2 11,5 x 3,5 mm

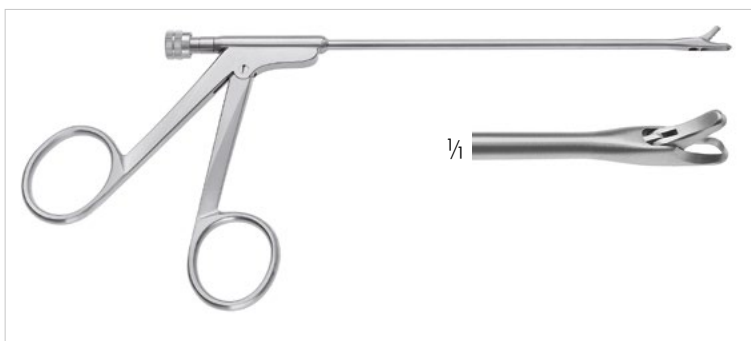
GRUENWALD-HENKE

Scharfe Nasenzange, durchschneidend, für glatten, gewebeschonenden Schnitt, extra zart, Arbeitslänge: 130 mm
Ethmoidal forceps, through cutting for clean soft tissue cut, straight, working length: 5 1/8 inch

252-013-145 Fig. 1 8 x 3 mm
252-014-145 Fig. 2 11,5 x 3,5 mm

GRUENWALD-HENKE

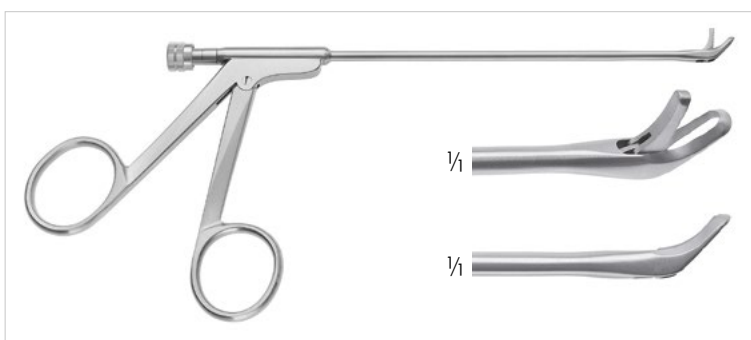
45° aufgebogen
45° upwards



252-206-000 Fig. 0 2 mm Schnitt/2 mm bite
252-206-001 Fig. 1 2,5 mm Schnitt/2.5 mm bite
252-206-002 Fig. 2 3 mm Schnitt/3 mm bite

DUCKBILL

Duckbill Punch, gerade, Arbeitslänge: 130 mm
Duckbill Punch, straight, working length: 5 1/8 inch



252-207-000 Fig. 0 2 mm Schnitt/2 mm bite
252-207-001 Fig. 1 2,5 mm Schnitt/2.5 mm bite
252-207-002 Fig. 2 3 mm Schnitt/3 mm bite

DUCKBILL

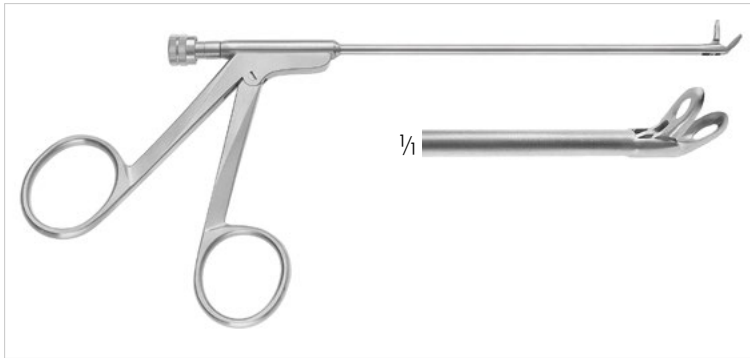
Duckbill Punch, aufwärts, Arbeitslänge: 130 mm
Duckbill Punch, upwards, working length: 5 1/8 inch



252-034-131 Größe 1/size 1 = 3 mm
252-034-132 Größe 2/size 2 = 3.5 mm
252-034-133 Größe 3/size 3 = 4 mm
252-034-134 Größe 4/size 4 = 5 mm
252-034-135 Größe 5/size 5 = 6 mm

BLAKESLEY

Nasenzange, gerade, 130 mm
Ethmoidal forceps, straight, 5 1/8 inch

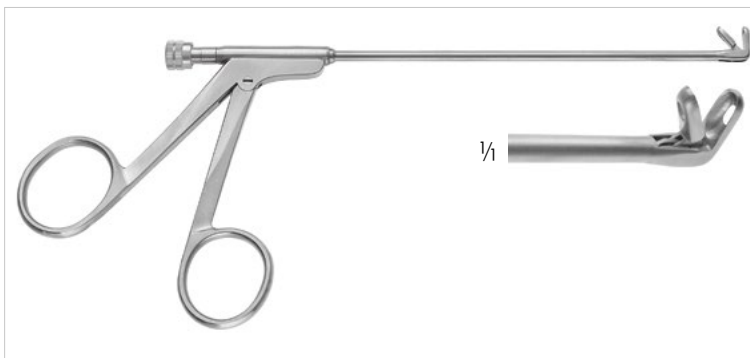


- 252-035-131 Größe 1/size 1 = 3 mm
 252-035-132 Größe 2/size 2 = 3.5 mm
 252-035-133 Größe 3/size 3 = 4 mm
 252-035-134 Größe 4/size 4 = 5 mm
 252-035-135 Größe 5/size 5 = 6 mm

BLAKESLEY-WILDE

Nasenzange, 45° aufgebogen, 130 mm

Ethmoidal forceps, 45° angled, 5 1/8 inch

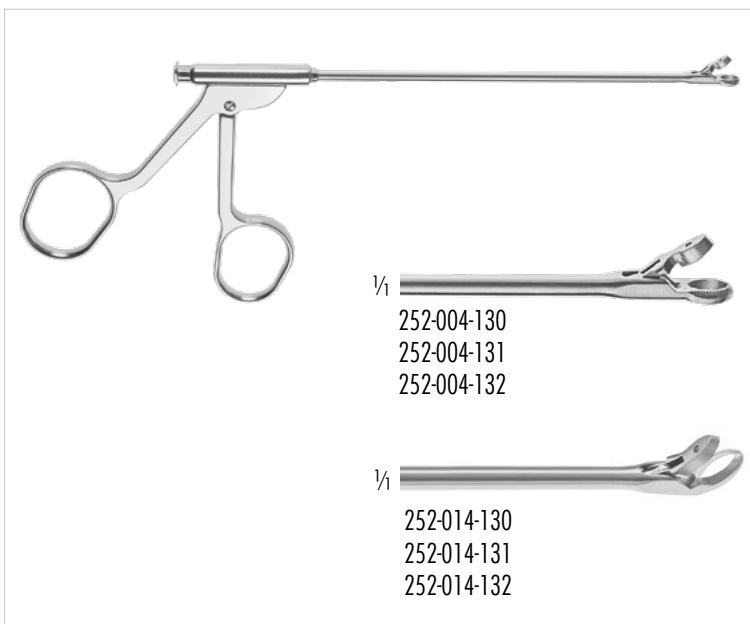


- 252-037-131 Größe 1/size 1 = 3 mm
 252-037-132 Größe 2/size 2 = 3.5 mm
 252-037-133 Größe 3/size 3 = 4 mm

BLAKESLEY-WILDE

Nasenzange, 90° aufgebogen, 130 mm

Ethmoidal forceps, 90° angled, 5 1/8 inch



- 252-004-130 Fig. 0 3 mm breit
 252-004-131 Fig. 1 3,5 mm breit
 252-004-132 Fig. 2 4,0 mm breit

BLAKESLEY

Scharfe Nasenzange, durchschneidend, für glatten, gewebeschonenden Schnitt, gerade, 130 mm

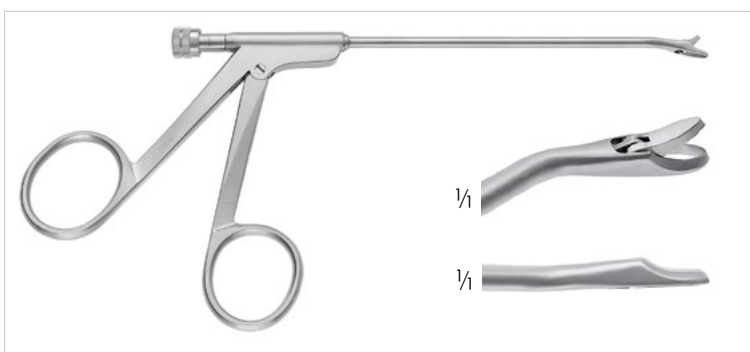
Ethmoidal forceps, through cutting for clean soft tissue cut, straight, 5 1/8 inch

- 252-014-130 Fig. 0 3 mm breit
 252-014-131 Fig. 1 3,5 mm breit
 252-014-132 Fig. 2 4,0 mm breit

BLAKESLEY

45° aufgebogen

45° upwards

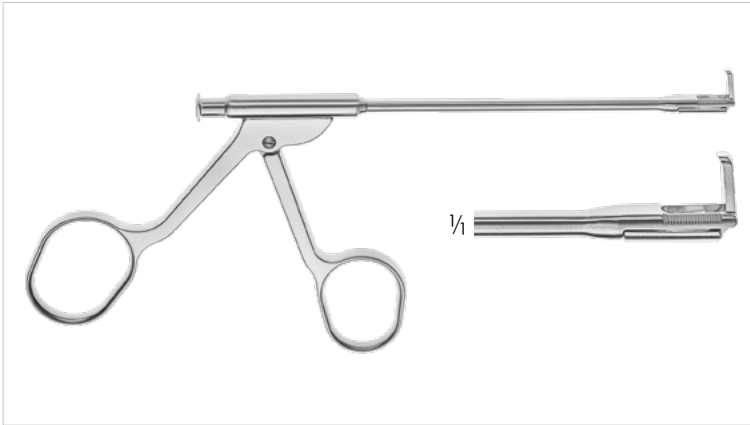


- 252-401-025 30° links gebogen/curved left
 252-403-025 30° rechts gebogen/curved right

BLAKESLEY

Nasenzange, durchschneidend, 2,5 mm Schnitt, Arbeitslänge: 115 mm

Nasal Forceps, through cutting, 2.5 mm bite, working length: 4 1/2 inch

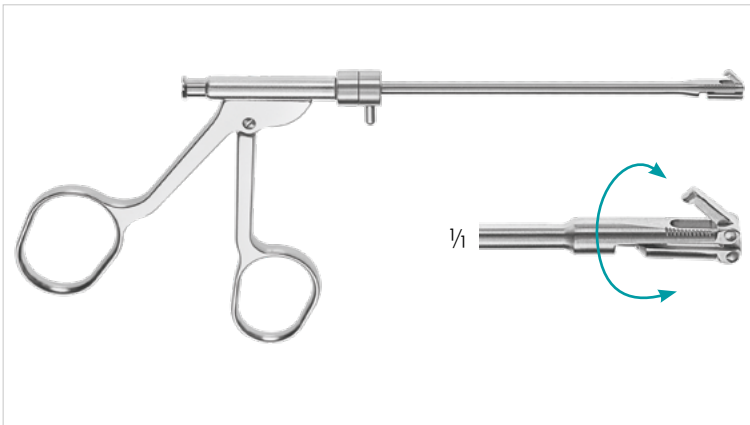


252-015-100 oben/upside
 252-115-100 rechts/right
 252-215-100 links/left

OSTROM

Kieferhöhlenstanze, 2,5 mm Schnitt, rückwärts schneidend,
 Arbeitslänge: 100 mm

Antrum punch, 2.5 mm cut, backward cutting,
 working length: 4 inch



252-315-100 drehbar, 360°/rotating, 360°

OSTROM

Kieferhöhlenstanze, rückwärts schneidend, 2,5 mm Schnitt,
 Arbeitslänge: 100 mm

Antrum punch, backward cutting, 2.5 mm cut,
 working length: 4 inch

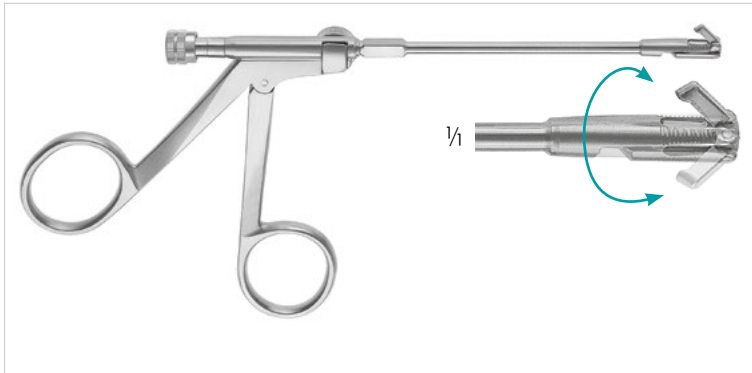


252-010-100 oben/upside
 252-110-100 rechts/right
 252-210-100 links/left

OSTROM

Kieferhöhlenstanze, kleines schlankes Modell, 1,5 mm Schnitt,
 rückwärts schneidend, Arbeitslänge: 100 mm

Antrum punch, small delicate pattern, 1.5 mm bite, backward cutting,
 working length: 4 inch

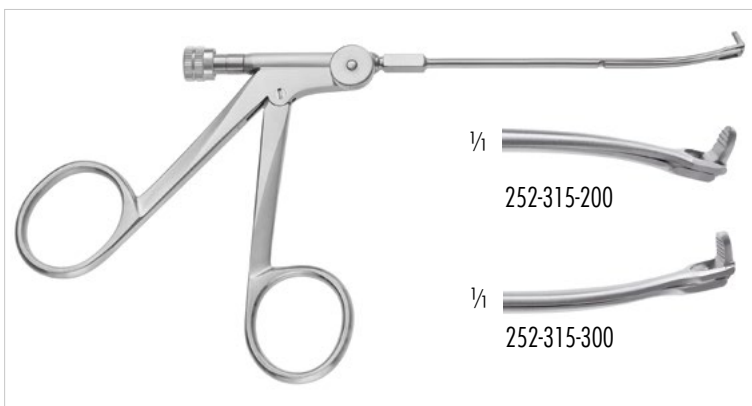


252-310-100 drehbar, 360°/rotating, 360°

OSTROM

Kieferhöhlenstanze, kleines schlankes Modell, 1,5 mm Schnitt
Arbeitslänge: 100 mm

Antrum punch, small delicate pattern, 1.5 mm bite,
working length: 4 inch



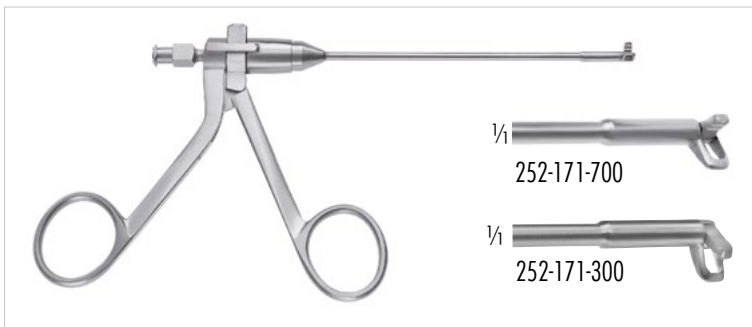
252-315-200 abgebogen/curved down

252-315-300 aufgebogen/curved up

OSTROM

Nasenzange, drehbar, kleiner Schnitt, Arbeitslänge: 100 mm

Ethmoidal forceps, rotating, micro bite, working length: 4 inch



252-173-700 links schneidend/left cutting

252-171-700 rechts schneidend/right cutting

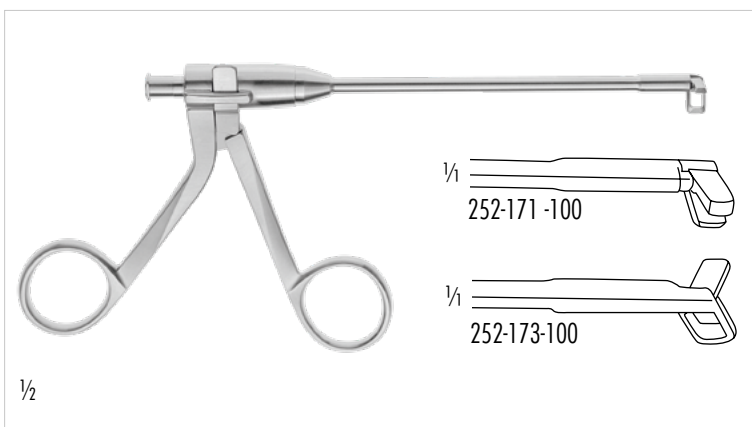
252-171-300 nach rechts unten schneidend/
downward right cutting

252-173-300 nach links unten schneidend/
downward left cutting

SIDECUTTER

Kieferhöhlenstanze, 2,5 mm Schnitt, Arbeitslänge: 100 mm

Antrum Punch, 2.5 mm bite, working length: 4 inch



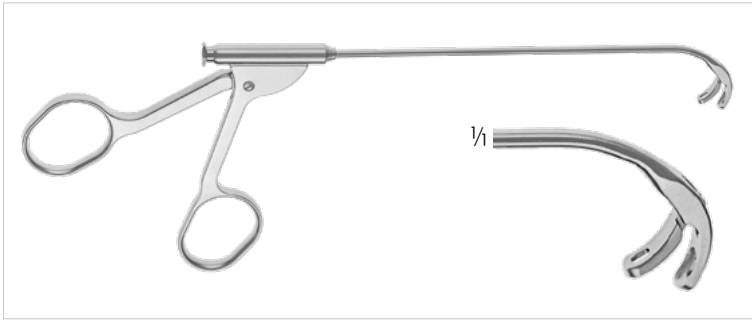
252-171-100 nach rechts unten schneidend
downward right cutting

252-173-100 nach links unten schneidend
downward left cutting

SIDECUTTER

Kieferhöhlenstanze, 3,5mm Schnitt, Arbeitslänge: 100 mm

Antrum punch, 3.5mm cut, working length: 4 inch

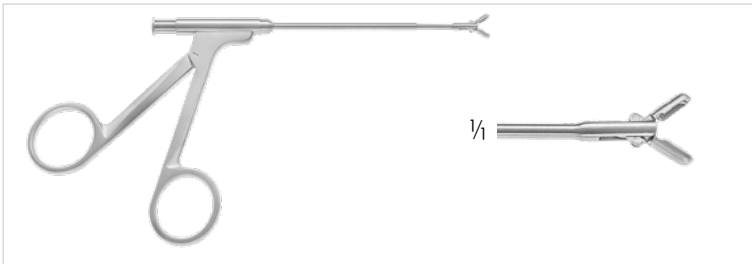


252-410-112

HEUWIESER

Kieferhöhlen-Faßzange, 90° gebogen, bis 120° rückwärts öffnend, Arbeitslänge: 130 mm

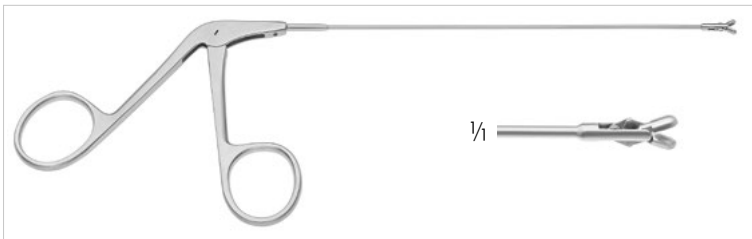
Antrum grasping forceps, 90° curved, 120° backward opening, working length: 5 inch



252-503-090

Biopsie- und Faßzange, ovaler Löffel, 3x6mm, 89mm Arbeitslänge

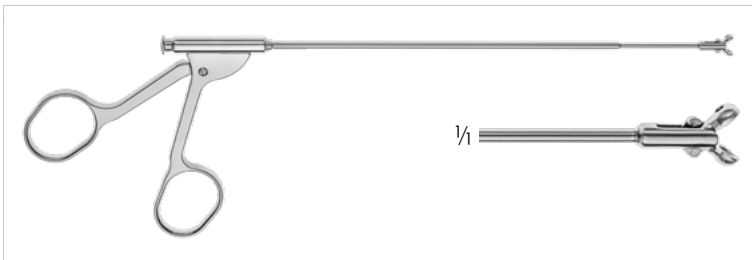
Biopsy and Grasping forceps, 3x6mm oval cup, 89mm working length



252-503-140

Probexcisions- und Faßzange, extra fein, mit ovalem Löffel 3 mm, 140 mm

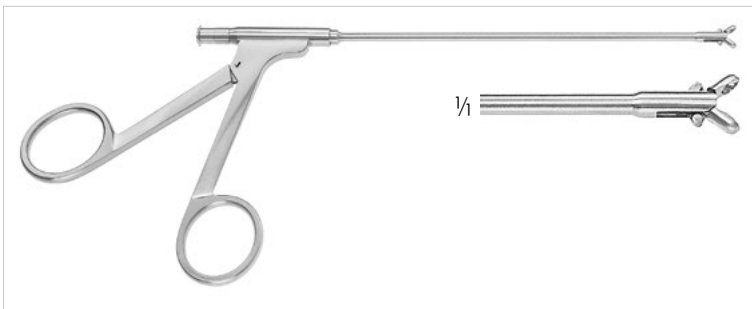
Biopsy and Grasping forceps, delicate pattern, 3 mm oval cup, 5 1/2 inch



252-174-180

Probexcisions- und Faßzange, Schaftende biegsam, 4 mm Löffel, vertikal öffnend, 180 mm

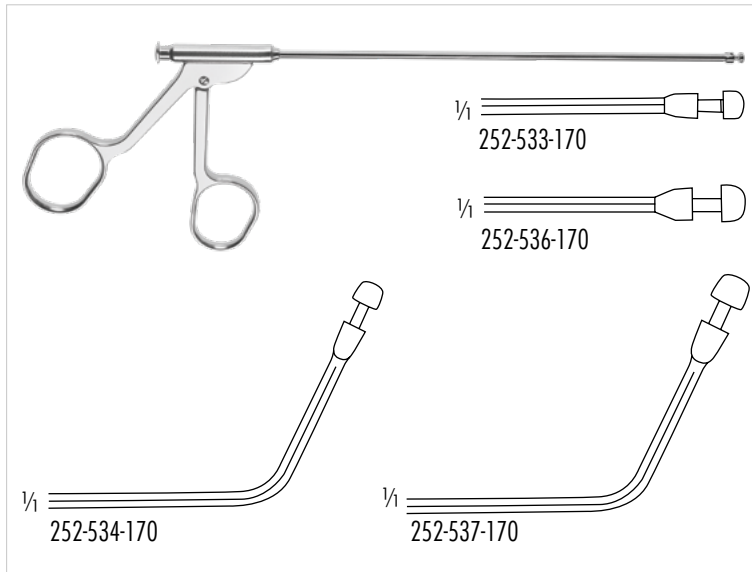
Biopsy and Grasping forceps, malleable shaft, 4 mm biopsy cup, vertical opening, 7 inch



252-503-150

Biopsie- und Faßzange, 3mm Löffel rund, gerade, mit Luer-Lock, 150mm Arbeitslänge

Biopsy and Grasping Forceps, 3mm round cup, straight, with luer-lock, 150mm working length



252-533-170 Ø 3,5 mm

252-536-170 Ø 4,5 mm

STAMMBERGER

Zirkular Stanze, gerade, 160 mm

Circular punch, straight, 6 1/4 inch

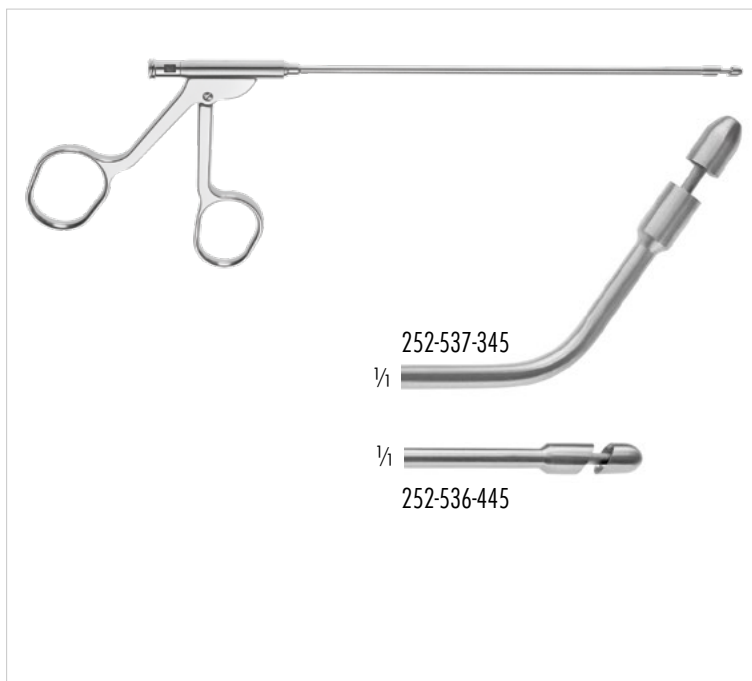
252-534-170 Ø 3,5 mm

252-537-170 Ø 4,5 mm

STAMMBERGER

Zirkular Stanze, 65° aufgebogen, 160 mm

Circular punch, 65° curved up, 6 1/4 inch



252-537-335 3.5mm Ø

252-537-345 4.5mm Ø

RZ

Circular Stanze, 60° aufgebogener Schaft,

eiförmiger Schnitt, Arbeitslänge: 160 mm

Circular Punch, 60° upturned shaft,

egg-shaped bite, working length: 6 1/4 inch

252-536-435 3.5mm Ø

252-536-445 4.5mm Ø

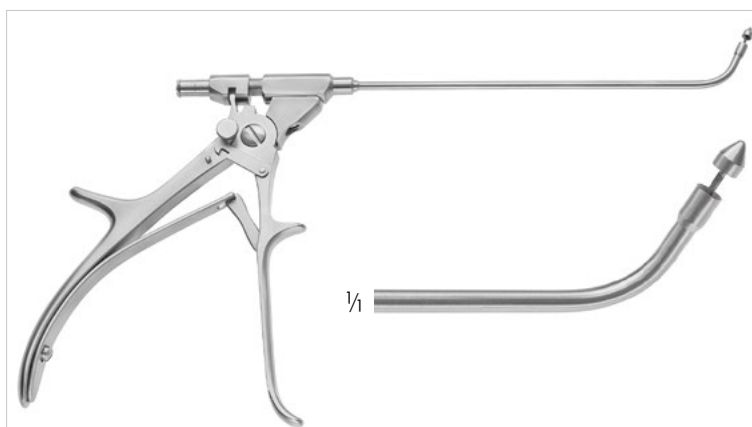
RZ

Circular Stanze, eiförmige Maulspitze,

60° schräger Schnitt, Arbeitslänge: 160 mm

Circular Punch, egg-shaped tip, 60° oblique bite,

working length: 6 1/4 inch



252-534-270 3.5mm Ø

252-537-270 4.5mm Ø

RZ

RZ-Circular Stanze, 70° aufwärts gebogen, mit Luer-Lock,

Arbeitslänge: 130 mm

Circular Punch, 70° upturned shaft, with Luer-Lock,

working length: 5 inch

- 252-470-120 70° aufgebogen
 252-570-120 110° rückwärts gebogen

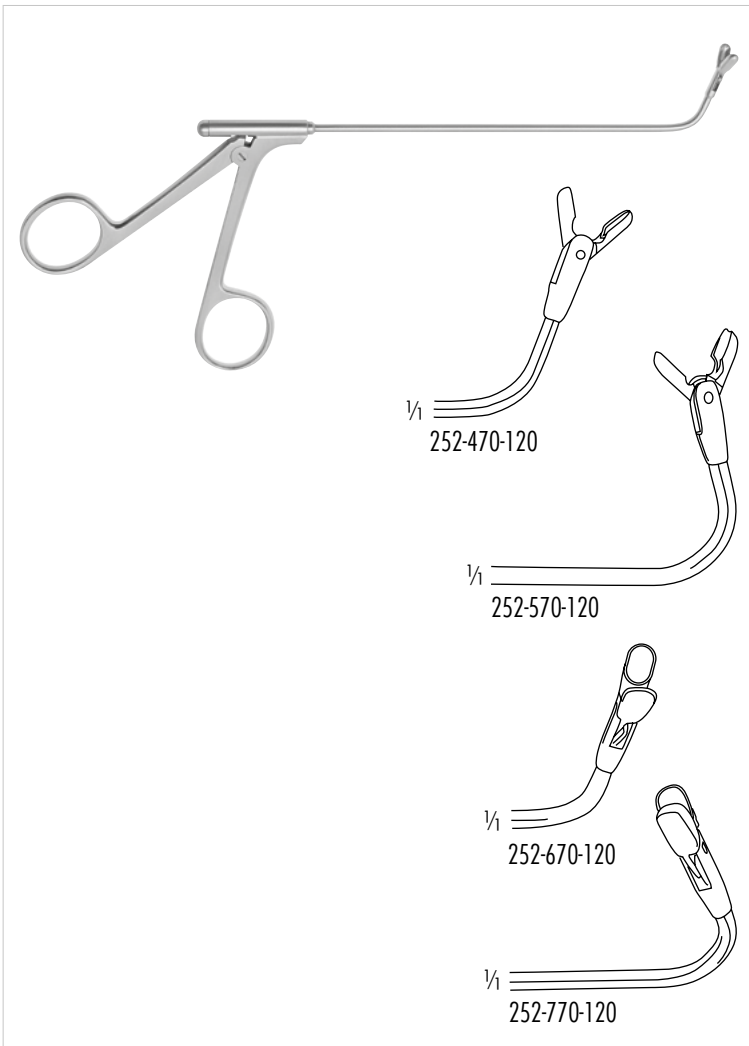
RZ-GIRAFFE

Doppellöffelzange, vertikal öffnend, Löffel Ø 4x8 mm, 130 mm
 Biopsy forceps, vertical action, Ø 4x8 mm, 5 1/8 inch

- 252-670-120 70° aufgebogen
 252-770-120 110° rückwärts gebogen

RZ-GIRAFFE

Doppellöffelzange, horizontal öffnend, Löffel Ø 4x8 mm, 130 mm
 Biopsy forceps, horizontal action, Ø 4x8 mm, 5 1/8 inch

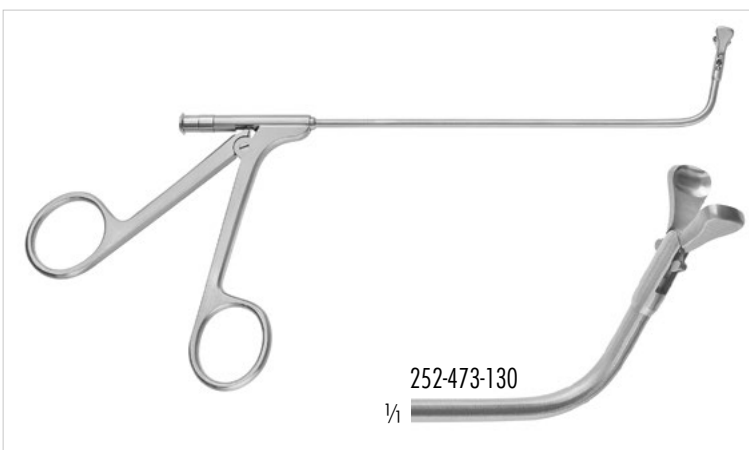


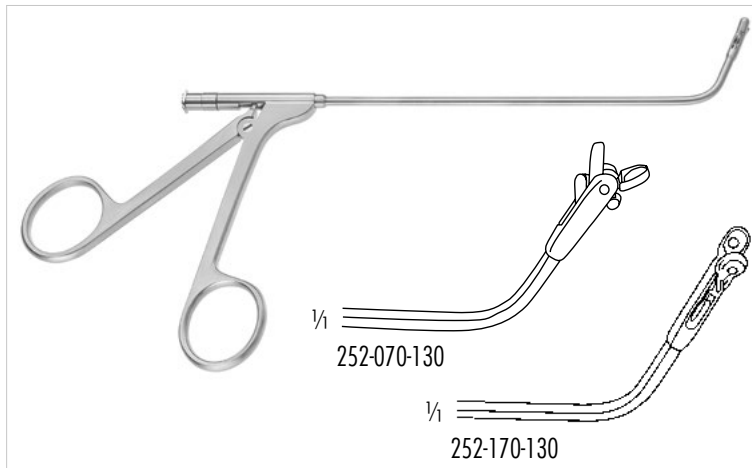
- 252-473-130 horizontal öffnend/horizontal opening

- 252-472-130 vertikal öffnend/vertical opening

Doppellöffelzange mit birnenförmigem Maulteil,
 80° aufgebogen, Arbeitslänge: 130 mm

Double action Biopsy Forceps, pear shaped jaws,
 80° angled up, working length: 5 1/8 inch



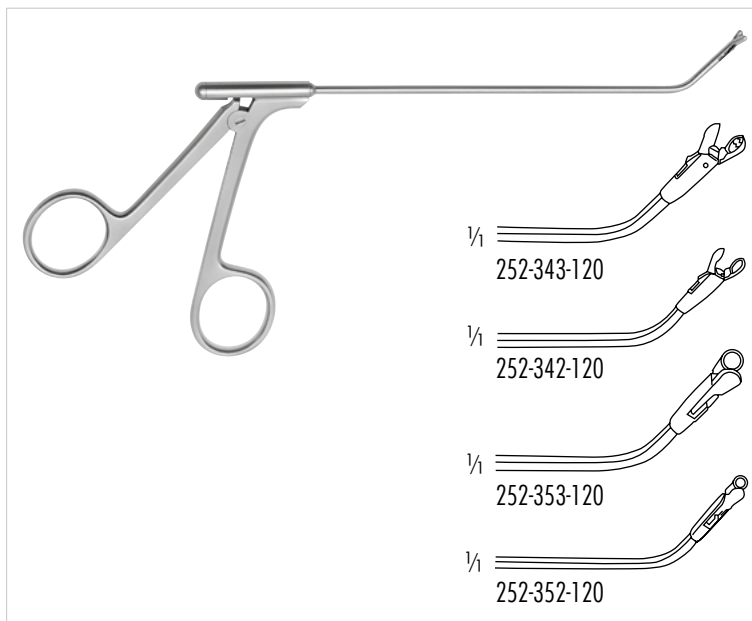


- 252-070-130 vertikal öffnend/vertical action
252-170-130 horizontal öffnend/horizontal action

RZ-GIRAFFE

Doppellöffelzange, 70° aufgebogen, Löffel Ø 3 mm,
Arbeitslänge: 130 mm

Biopsy forceps, 70° angled, cup Ø 3 mm,
working length 5 1/8 inch

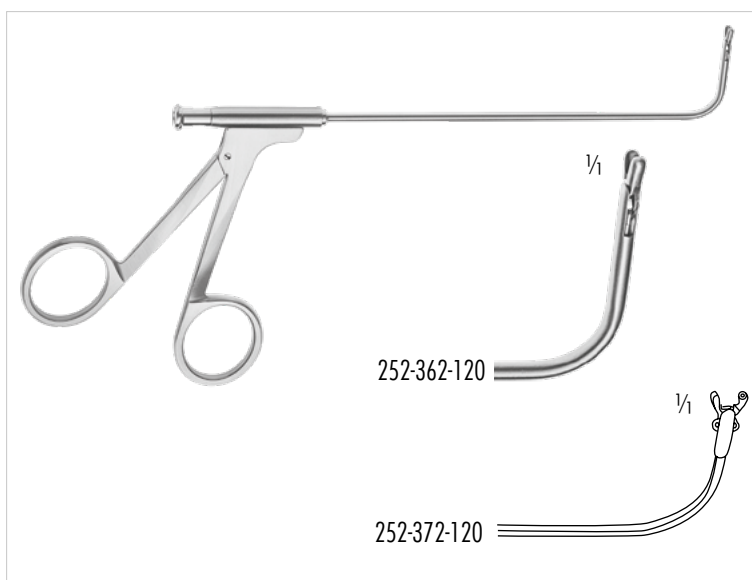


- 252-343-120 vertikal öffnend, 3x6 mm, 70° aufgebogen
vertical action, 3x6 mm, 70° angled up
252-342-120 vertikal öffnend, 2x4 mm, 55° aufgebogen
vertical action, 2x4 mm, 55° angled up
252-353-120 horizontal öffnend, 3x6 mm, 70° aufgebogen
horizontal action, 3x6 mm, 70° angled up
252-352-120 horizontal öffnend, 2x4 mm, 55° aufgebogen
horizontal action, 2x4 mm, 55° angled up

KUHN-BOLGER

Doppellöffelzange, 130 mm

Giraffe forceps, 5 1/8 inch

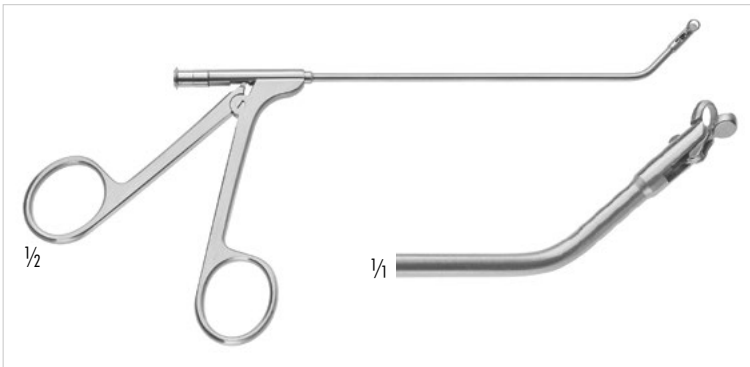


- 252-362-120 horizontal öffnend, 2x4 mm
horizontal action, 2x4 mm
252-372-120 vertikal öffnend, 2x4 mm
vertical action, 2x4 mm

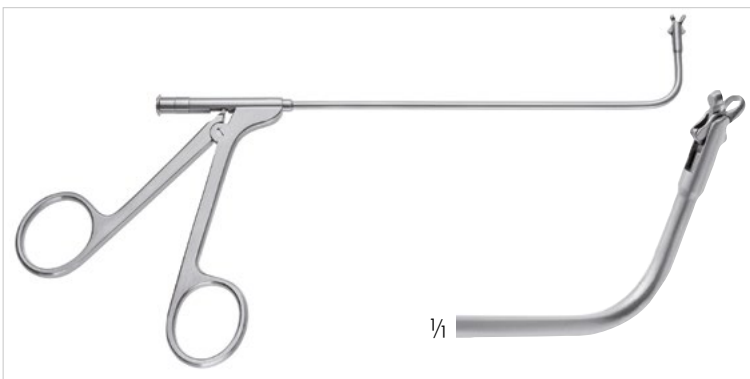
KUHN-BOLGER

Doppellöffelzange, 90° aufgebogen, 130 mm

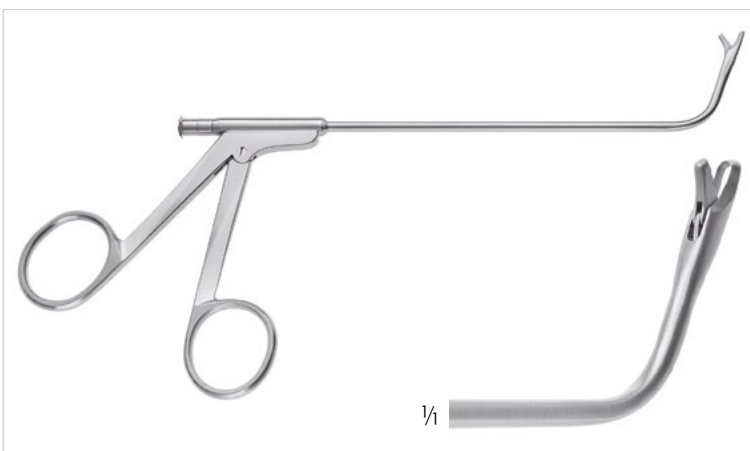
Giraffe forceps, 90° angled up, 5 1/8 inch



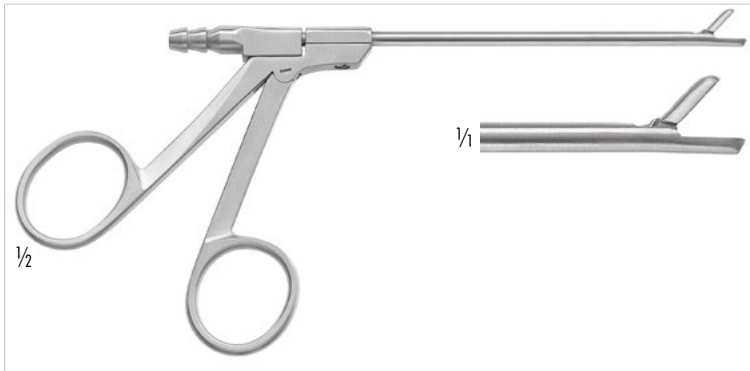
252-606-345 45° aufgebogen/45° upwards curved
 252-606-390 90° aufgebogen/90° upwards curved
 Sinuskopie Stanze, durchschneidend, 3mm runder Schnitt,
 horizontal öffnend, Arbeitslänge: 130 mm
 Sinuscopy Punch, through cutting, 3 mm round bite,
 horizontal opening, working length: 5 1/8 inch



252-605-090 Vertikal öffnend/vertical opening
 252-606-090 Horizontal öffnend/horizontal opening
 Sinuskopie Stanze, durchschneidend, 2 mm runder Schnitt,
 90° aufgebogen, Arbeitslänge: 130 mm
 Sinuscopy Punch, through cutting, 2 mm round bite,
 90° upwards curved, working length: 5 1/8 inch



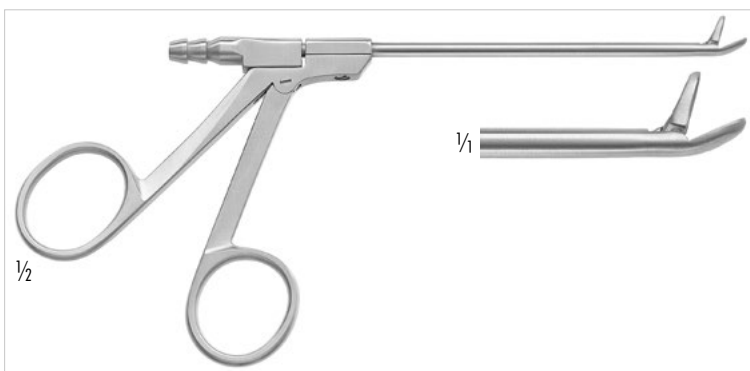
252-600-070 nach oben öffnend/backward opening
 252-601-070 nach rechts öffnend/right side opening
 252-602-070 nach links öffnend/left side opening
GRUENWALD
 Sinuskopie Zange, durchschneidend, 2 mm Schnitt, 70° aufgebogen,
 Arbeitslänge: 130 mm
 Sinuscopy Forceps, through cutting, 2 mm bite, 70° upwards curved,
 working length: 5 1/8 inch



252-021-100 Größe 1/Size 1, 2.5mm
 252-022-100 Größe 2/Size 2, 3.5mm
 252-023-100 Größe 3/Size 3, 4.0mm

BLAKESLEY

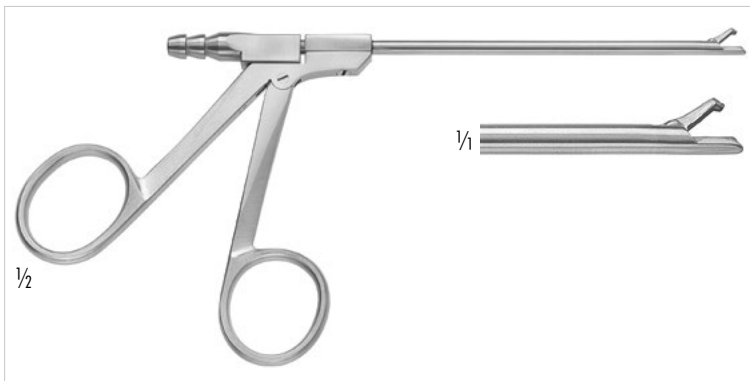
Saugstanze, gerade, 100 mm Arbeitslänge, Ø 4mm
 Suction Punch, straight, 4 inch working length, Ø 4mm



252-121-100 Größe 1/Size 1, 2.5mm
 252-122-100 Größe 2/Size 2, 3.5mm
 252-123-100 Größe 3/Size 3, 4.0mm

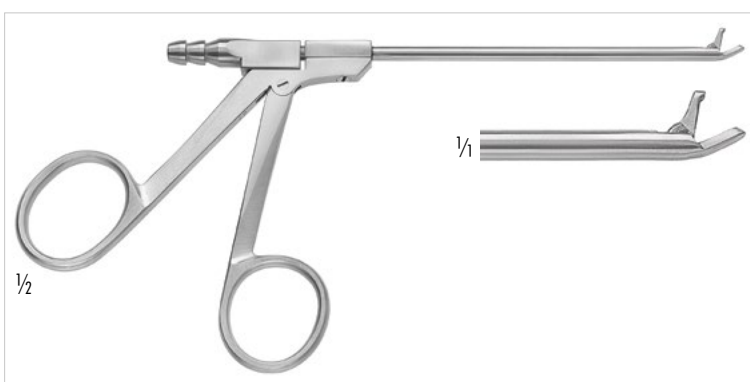
BLAKESLEY

Saugstanze, 45° aufgebogen, 100 mm Arbeitslänge, Ø 4mm
 Suction Punch, 45° upcurved, 4 inch working length, Ø 4mm

**252-502-100**

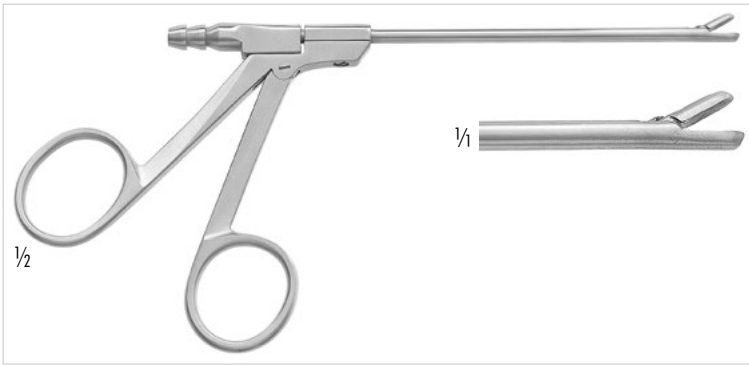
Biopsie Zange mit Absaugung, 2mm breit, durchschneidend,
 Arbeitslänge: 100mm

Biopsy Forceps with suction, 2mm wide, thru-cutting,
 working length: 4 mm

**252-502-145**

Biopsie Zange mit Absaugung, 2mm breit, durchschneidend,
 45° aufwärts gebogen, Arbeitslänge: 100mm

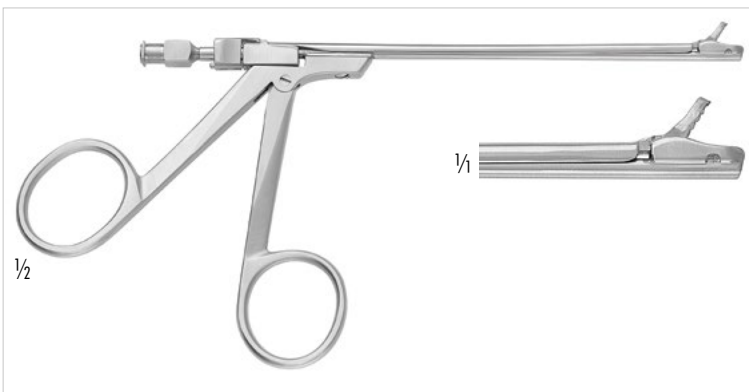
Biopsy Forceps with suction, 2mm wide, through-cutting,
 45° upcurved, working length: 4 inch



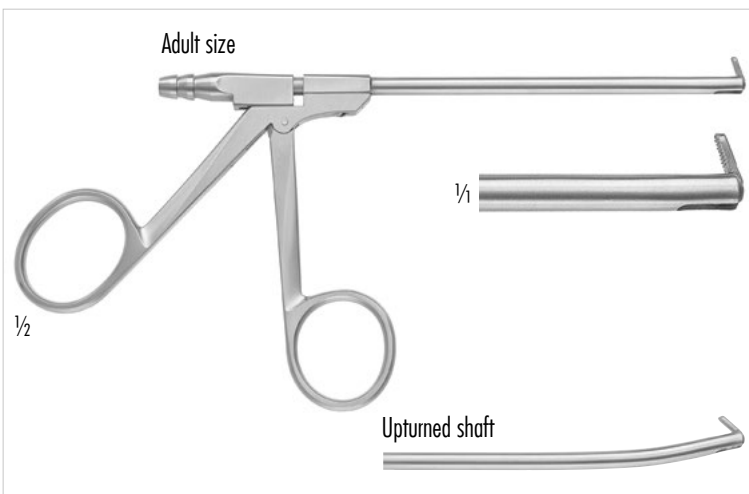
- 252-010-025 2.5mm, gerade/straight
 252-010-035 3.5mm, gerade/straight
 252-011-025 2.5mm, 30° aufgebogen/30° upcurved
 252-011-035 3.5mm, 30° aufgebogen/30° upcurved

TAKAHASHI

Saugstanze für Biopsie und Greifen, Ø 4mm,
 Arbeitslänge: 100 mm
 Suction Punch for biopsy and grasping, Ø 4mm,
 working length: 4 inch

**252-504-100****BLAKESLEY**

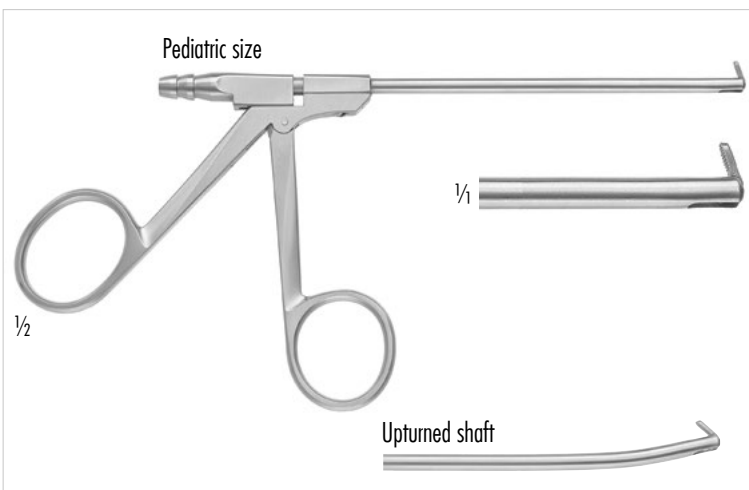
Biopsie Zange mit frontaler Absaugung, 2,5mm breit,
 durchschneidend, gerade, zerlegbar, Arbeitslänge: 100 mm
 Biopsy Forceps with frontal suction channel, 2.5mm wide,
 through-cutting, straight, detachable, working length: 4 inch



- 252-015-500 Aufwärts/upside
 252-015-510 Links/left
 252-015-520 Rechts/right

OSTROM

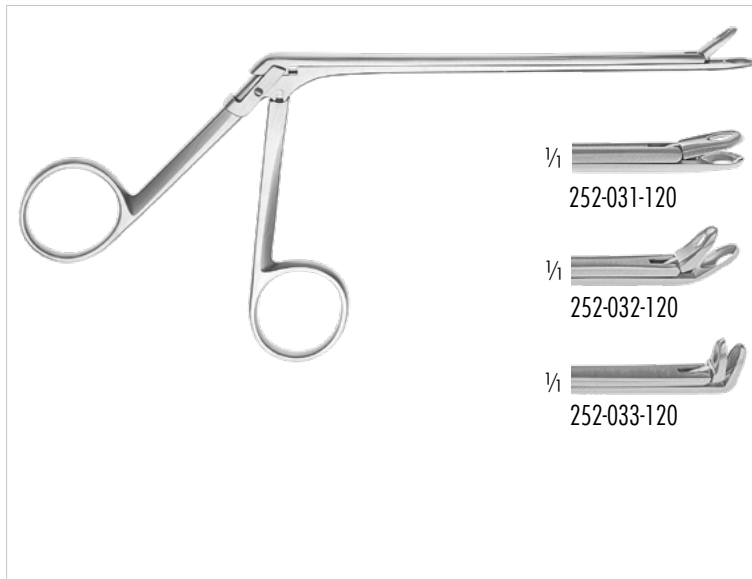
Saugstanze, gerade, Ø 4mm, rückwärts schneidend, 2,5mm Schnitt,
 Arbeitslänge: 100 mm
 Suction Punch, straight, backward cutting, Ø 4mm, 2.5mm bite,
 working length: 4 inch



- 252-015-300 Aufwärts/upside
 252-015-310 Links/left
 252-015-320 Rechts/right
 252-015-400 Aufgewinkelter Schaft, aufwärts
 Upturned shaft, upside

OSTROM

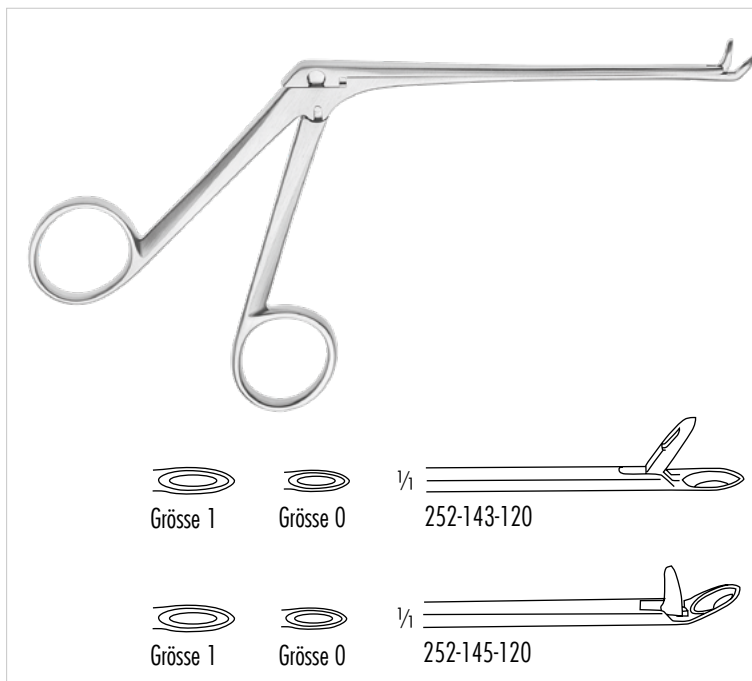
Saugstanze, Ø 4mm, rückwärts schneidend, 2,0mm Schnitt,
 Arbeitslänge: 100 mm
 Suction Punch, Ø 4mm, backward cutting, 2.0mm bite,
 working length: 4 inch



- 252-031-120 gerade/straight
 252-032-120 45° aufgebogen/45° angled up
 252-033-120 90° aufgebogen/90° angled up

STRUEMPEL

Nasenzängchen, mit ovalem, gefensterterem Löffelmaul, 100 mm
 Nasal forceps with oval fenestrated cupped jaws, 4 inch



- 252-143-120 Grösse/size 0, 2 mm
 252-144-121 Grösse/size 1, 2.5 mm

STRUEMPEL-VOSS

Blakesley Zange, gerade, 120 mm
 Blakesley forceps, straight, 4 3/4 inch

- 252-145-120 Grösse/size 0
 252-146-121 Grösse/size 1

STRUEMPEL-VOSS

Nasenzange, fein, 45° aufgebogen, 120 mm
 Nasal forceps, delicate, 45° angled up, 4 3/4 inch

FULL HD CAMERA SYSTEM



- 300-001-800 3 Chip HD-Camera F3
 300-001-804 3 Chip HD-Camera F4 (with recording function)

Full HD

Technical data

Line voltage	100-240 VAC
Power input	20W
Image sensor	3 MOS
Resolution	1920 x 1080 pixels (FullHD)
Image resolution	>1000 TV lines, horizontal
Index ratio	16:9
Min. sensitivity	< 3lx (1/1.4)
Shutter speed	1/50 (1/60) to 1/100.000sec

Accessories



300-001-802
 High-End 3-MOS Camera Head
 FullHD (included in the set)



300-001-615
 Title generator keyboard, waterproof IP68
 US-Layout, cable 1.8m, color: grey,
 305x140x15mm, 600gr.

Features:

- Full HD camera with 3-chip MOS technology
- Pure Natural Colors technology
- Full HD video recording (F4 only)
- Full HD image saving (F4 only)
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- Different digital video outputs
- Text generator (optional with keyboard)

DELIVERY CONTAINS:

- Main Unit
- Camera head
- 2x BNC cable
- HDMI - DVI cable
- HDMI cable
- S-Video cable (F3 only)
- USB Pen Drive (F4 only)
- Mains cable
- Operating manual

Video outputs (F4)	2 x HD SDI 1x HDMI / DVI 2x CVBS 1 x YPbPr / RGB 1 x Y/C (Pal/NTSC) 1x CVBS (Pal/NTSC)
Video outputs (F3)	1 x HDMI / DVI 1 x YPbPr (Component) 1 x Y/C (Pal/NTSC) 1x CVBS (Pal/NTSC)
Dimensions	Control unit: 380 x 120 x 360mm (WxHxD) Weight control unit: 11kg Weight camera head: 145g



300-001-610
 Footswitch for HD Cameras
 cable length: 2m

FULL HD CAMERA SYSTEM



Features:

- Full HD camera with 1-chip MOS technology
- Natural color technology
- Full HD video recording (F2 Pro only)
- Full HD image saving (F2 Pro only)
- Camera head with 3 programmable buttons
- Boost function
- Freeze function
- 2.5x digital zoom
- 3 USER mode configurations
- Multilingual on screen menu
- HDMI video outputs
- Text generator (optional with keyboard)

300-001-600 HD-Camera F1
300-001-601 HD-Camera F2 Pro (with recording function)

FULL HD

Technical data

Line voltage	100-240 VAC
Power input	F2 Pro: 30W / F1: 20W
Image sensor	1/3" MOS
Resolution	1920 x 1080 pixels (FullHD)
Image resolution	>1000 TV lines, horizontal
Index ratio	16:9
Min. sensitivity	< 3lx (1/1.4)

DELIVERY CONTAINS:

- Main Unit
- Camera head
- 2x BNC cable
- HDMI - DVI cable
- HDMI cable
- S-Video cable
- USB Pen Drive (F2 Pro only)
- Operating manual
- Mains cable

Video outputs (F2 Pro)	2 x HD SDI (optional) 1 x HDMI / DVI 1 x Y-Pb-Pr (Component) 1 x Video (PAL/NTSC) 1x S-Video (PAL/NTSC)
Video outputs (F1)	1 x HDMI 1 x YPbPr / RGB 1 x S-Video (Y/C; Pal / NTSC) 1 x Video (CVBS; Pal / NTSC)
Dimensions	Control unit: 380 x 120 x 360mm (WxHxD) Weight control unit: 11kg Weight camera head: 105g

Accessories



300-001-602
High-End 1/3" MOS Camera Head
Full HD (included in the set)



300-001-615
Title generator keyboard, waterproof IP68
US-Layout, cable 1.8m, color: grey,
305x140x15mm, 600gr.



300-001-610
Footswitch for HD Cameras
cable length: 2m

C2 CAMERA & LIGHT SOURCE COMBINATION



FULL HD

300-002-200 C2 Camera and Light Source Combination

Features:

- Compact and integrated 2-in-1 design
- Versatile use for rigid scopes and fiberoptics
- LED lamp – exceptionally long lifespan
- Low noise ventilation system
- Easy storage and documentation of videos and pictures
- Optional TV couplers with fixed focal length or with zoom available

DELIVERY CONTAINS:

- Main Unit
- Camera head
- HDMI cable
- Mains cable
- Operating manual

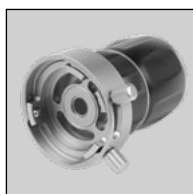
Technical data

Line voltage	100-240 VAC
Power consumption	60VA
Image sensor	1/2" MOS
Resolution	1920 x 1080 pixels (FullHD)
Index ratio	16:9
Lamp	LED (50W comparable)

Video outputs	1x HDMI	1x USB (A)
	1x DVI	1x Remote IN (Footswitch)
	1x SDI	1x RJ45 (Service)
	1x VIDEO	
Dimensions	Control unit: 295 x 128 x 279mm (WxHxD)	
	Weight control unit: approx. 3kg	
	Weight camera head: 180g	

TV Coupler, Endoscope and Light Guide cable not included and can be ordered separately.

NOTE: Endoscopes smaller than Ø 2.9mm require 250-015-030 Zoom TV Adapter.



250-015-030
Zoom TV Adapter

TV COUPLER



4K
FULL HD

300-001-823 f=14mm
300-001-824 f=25mm
300-001-825 f=28mm
c-mount, soakable



4K
FULL HD

250-015-030
Zoom-TV-Adapter
f=15 - 30mm
c-mount, soakable



4K
FULL HD

250-015-036
Zoom-TV-Adapter
f=15 - 36mm
c-mount, soakable



FULL HD

300-001-813 f=14mm
300-001-814 f=25mm
300-001-815 f=28mm
c-mount, soakable



FULL HD

250-022-018 f=18mm
250-022-025 f=25mm
90°, c-mount, soakable



300-001-168
Endovue 32" HD Monitor

300-001-158
Endovue 24" HD Monitor

Technical data

Screen size	31.5" / 24" diagonal
Resolution	1920 x 1080
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	16.7 Million (8-bit)
Video Inputs	DVI-D, RGBS/VGA/YPbPr (HD-15 or DVI-I via adapter), S-Video, Composite
Video Outputs	DVI-D
Weight	8.8kg (300-001-168) 6.7kg (300-001-158)



300-001-232
Radiance 32" HD Monitor

300-010-226
Radiance 27" HD Monitor

Technical data

Screen size	32" / 27" diagonal
Resolution	1920 x 1080
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	1.07 Billion (10-bit)
Video Inputs	DVI-I and 3G-SDI Input/Output
Video Outputs	DVI-D
Weight	11.0kg (300-001-232) 8.9kg (300-010-226)



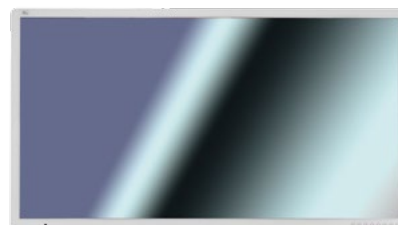
300-001-028
Monitor Table Stand



300-001-031
UHD 4K Monitor, 31"

Technical data

Screen size	31" diagonal
Resolution	4096 x 2160
Aspect ratio	17:9
Viewing angle	178°
Number of colors	1.08 Billion (10-bit)
Video Inputs	1 x HDMI 2.0 1 x DP 1.2 (SST) & 1 x DP 1.2 (MST) 1 x DVI (single link), 4 x SDI (3G)
Video Outputs	1 x DP 1.2 (SST) 1 x DVI (single link), 4 x SDI (3G)
Weight	10.5kg



300-001-055
UHD 4K Monitor, 55"

Technical data

Screen size	55" diagonal
Resolution	3840 x 2160
Aspect ratio	16:9
Viewing angle	178°
Numbers of colors	1.08 Billion (10-bit)
Video Inputs	1 x HDMI 2.0, 2 x DP 1.2 (55T) 1 x DVI (single link), 2 x DVI (dual link) 4 x SDI (3G), 2 x SDI (12G)
Video Outputs	1 x DVI (single link), 1 x DP 1.2 (SST) 4 x SDI (3G), 2x SDI (12G)
Weight	37.35kg

All monitors will be delivered without table stand - need to be ordered separately.

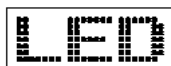
LED LIGHT SOURCE



Features:

- 6500K daylight color temperature
- 375 Watt equivalent output power
- > 20.000 hours lifetime
- Turret connector for the most common light cables (Olympus, Wolf, Gyrus ACMI, Storz)
- Manual or automatic light control
- Waterproof touch control panel
- Low heat conduction by improved LED technology
- Boost function: light increase of 20%

300-900-300 LUMEN LED 3 PRO Light Source, 110 - 230V



Technical data

Line voltage	100-240 VAC
Video input	1x Video, BNC
Protection class	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
Safety class	BF
Standard	IEC 60601-1-2
Dimensions	380 x 120 x 360mm (WxHxD)
Weight	approx. 11kg

DELIVERY CONTAINS:

- Main Unit (300-900-300)
- BNC cable (optional)
- Mains cable
- Operating manual



A OLYMPUS

B WOLF

C GYRUS ACMI

D STORZ
KARL STORZ ENDOSKOP

Turret, multi connector

LED LIGHT SOURCE



Features:

- More than 20.000h lamp lifetime
- 180 Watt equivalent power output
- Manual or automatic light control
- Waterproof touch control panel
- Low heat conduction by improved LED technology
- Daylight color temperature 6000 – 6500° K for accurate color representation
- Boost function: light increase of 20%

300-900-180 LUMEN LED 1 Light Source



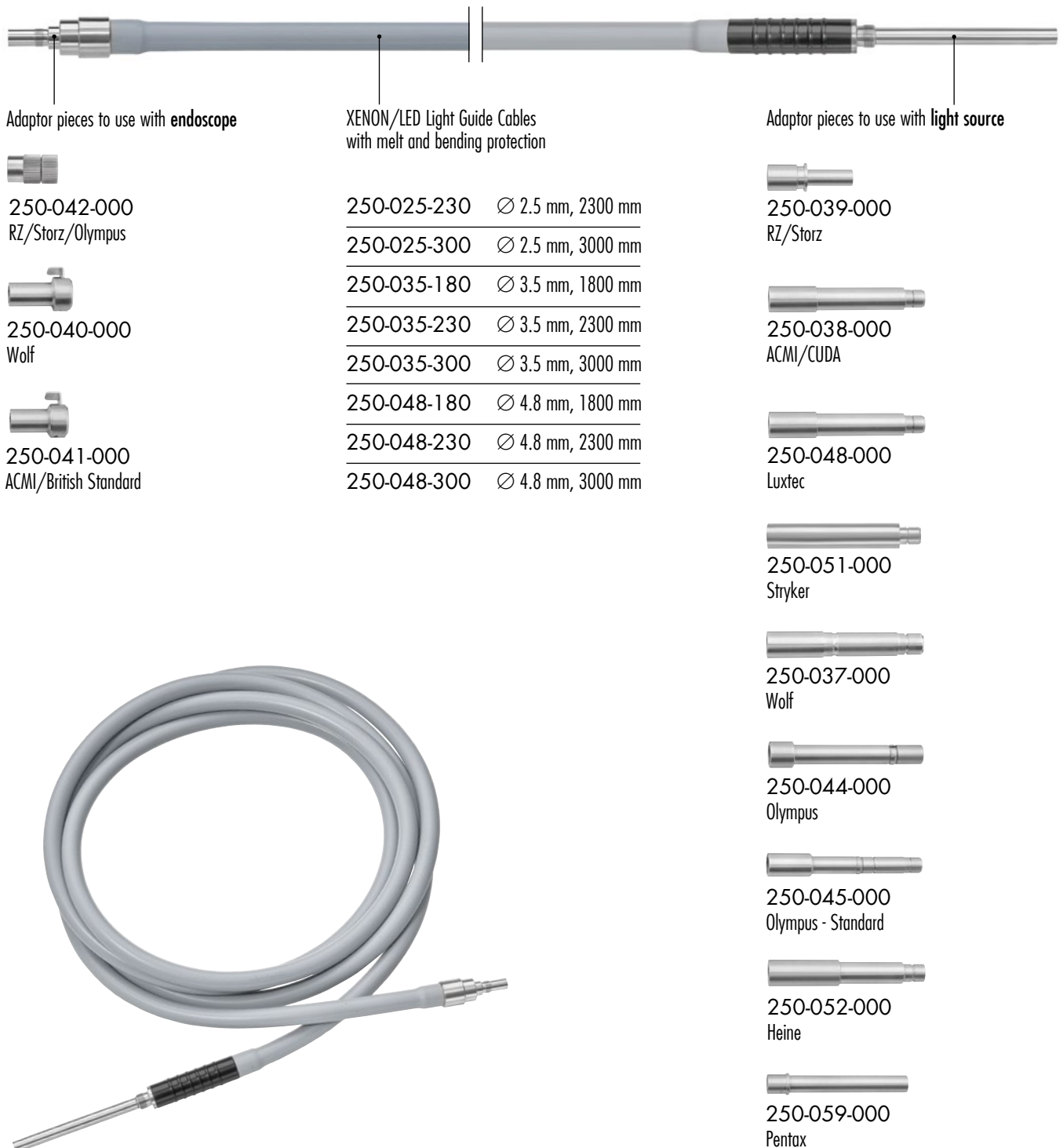
DELIVERY CONTAINS:

- Main Unit (300-900-180)
- BNC cable
- Mains cable
- Operating manual

Technical data

Line voltage	100-240 VAC
Power consumption	130VA
Video input	1x Video, 1x S-Video (Y/C) (automatic version only)
Protection class	1 (acc. IEC 60601-1) 1 (acc. MDD 93/42/EEC)
Safety class	BF
Dimensions	380 x 120 x 360mm (WxHxD)
Weight	approx. 11kg

HIGH TEMPERATURE LED/XENON LIGHT CABLES



Adaptor pieces to use with **endoscope**



250-042-000
RZ/Storz/Olympus



250-040-000
Wolf



250-041-000
ACMI/British Standard

XENON/LED Light Guide Cables
with melt and bending protection

250-025-230 Ø 2.5 mm, 2300 mm

250-025-300 Ø 2.5 mm, 3000 mm

250-035-180 Ø 3.5 mm, 1800 mm

250-035-230 Ø 3.5 mm, 2300 mm

250-035-300 Ø 3.5 mm, 3000 mm

250-048-180 Ø 4.8 mm, 1800 mm

250-048-230 Ø 4.8 mm, 2300 mm

250-048-300 Ø 4.8 mm, 3000 mm

Adaptor pieces to use with **light source**



250-039-000
RZ/Storz



250-038-000
ACMI/CUDA



250-048-000
Luxtec



250-051-000
Stryker



250-037-000
Wolf



250-044-000
Olympus



250-045-000
Olympus - Standard



250-052-000
Heine



250-059-000
Pentax

COMPATIBILITY NOTE:

A fiber optic cable with a large diameter should not be connected to a smaller diameter scope.
For example: Ø 4.8mm fiber optic cables connected to a Ø 2.9mm may risk
high temperature at the light entry of the endoscope and may risk patient safety.

ELECTROSURGICAL GENERATOR



700-350-400 230V
700-350-410 110V
G400 Electrosurgical Generator

Technical data

Line voltage	110-230 VAC
Power consumption	500W
Generator operation frequency	333kHz
Display	TFT 10"
Defibrillation impulse resistance	acc. to EN 60601-1
NEM system	neutral electrode control optical indication 7 levels required resistance < 240 Ω
Gas type	pure argon 4.8 (99,998%) or higher
Inlet gas pressure	0.25-0.4 [MPa]
Monopolar coagulation / cutting	200W / 400W
Bipolar coagulation / cutting	400W / 400W

Gas outflow	0.1-10 l/min, regulated 0.1 l/min in whole range
Pressure range	reducer (0.4 MPa) on argon cylinder
Vessel sealing system	9 effects/300W
AutoStop	automatic stop of sealing process after achieving the optimal effect
Dimensions	495 x 415 x 225mm (LxWxH)
Weight	12.2kg

Features:

- Monopolar/bipolar cutting and coagulation
- Automatic identification of connected instruments
- Powerstart System simplifies the beginning of cutting process
- Automatic power regulation
- 105 different memory locations in 7 groups
- Various output configuration of the sockets available
- 10" Touchscreen
- Tilttable display
- Footswitch (optional)
- Available with Argon and / or the RZeal
- Real-time output monitoring

DELIVERY CONTAINS:

- Main Unit
 - Mains Cable
- (Footswitch not included)

Accessories



700-350-405
2-Button-Footswitch, length: 5m
700-350-402
3-Button-Footswitch, length: 5m, quick access key



Disposable Neutral Electrode
hydrogel, split, for adults or children
10x5 pcs. per package
700-503-000 Adults
700-503-001 Children



Cable for Disposable Neutral Electrode
5m, RZ compatible only
700-503-003

ELECTROSURGICAL GENERATOR



700-340-400 230V

700-340-410 110V

G44 Electrosurgical Generator

Technical data

Line voltage	110-240 VAC
Power consumption	1100VA
Generator operation frequency	333kHz
Display	TFT 7" WVGA
Spectrum result system	automatic power regulation
Monopolar coagulation	max. 200W (200Ω)
Monopolar cutting	max. 400W (100Ω)
Bipolar coagulation	max. 400W (25Ω)
Bipolar cutting	max. 330W (150Ω)

Features:

- Monopolar/bipolar cutting and coagulation
- Automatic instrument detection system
- Intuitive Touchscreen
- Automatic power regulation
- Configurable working modes
- Real-time parameter control
- Special endoscopic modes
- Bipolar resection
- Easy software update

DELIVERY CONTAINS:

- Main Unit
 - Mains Cable
- (Footswitch not included)

NEM system	neutral electrode control, optical indication, required resistance < 240 Ω
Dimensions	385 x 305 x 141mm (LxWxH)
Weight	7kg

Accessories



700-350-405
2-Button-Footswitch, length: 5m

700-350-402
3-Button-Footswitch, length: 5m, quick access key



Disposable Neutral Electrode
hydrogel, split, for adults or children
10x5 pcs. per package
700-503-000 Adults
700-503-001 Children



Cable for Disposable Neutral Electrode
5m, RZ compatible only
700-503-003

LARYNGOSCOPY

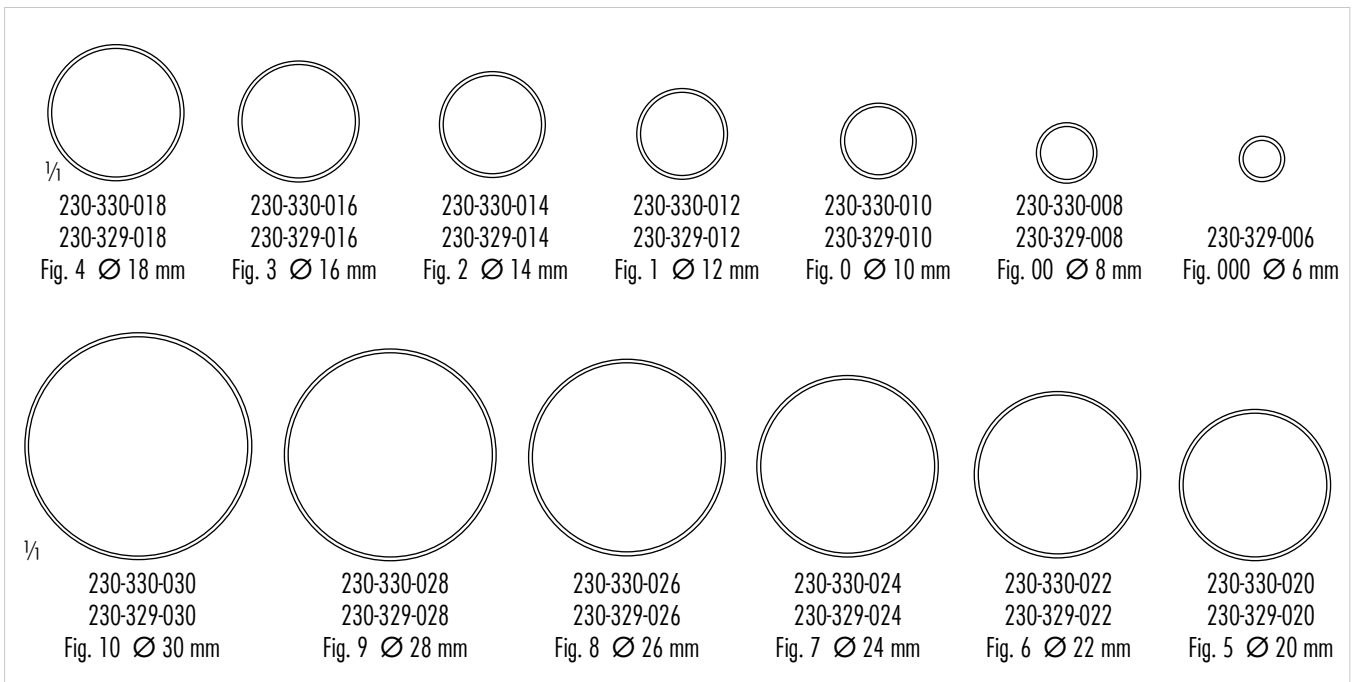




230-329-006 - 230-329-030
Kehlkopfspiegel, 120 mm
Laryngeal mirror, 4 1/2 inch



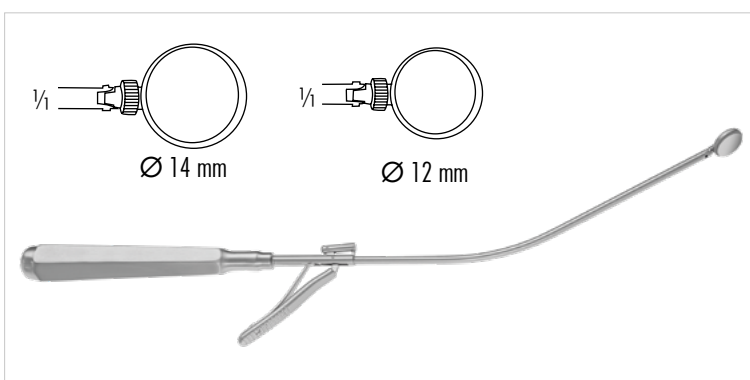
230-330-006 - 230-330-030
Kehlkopfspiegel mit Sechskantgriff, 180 mm
Laryngeal mirror with hexagonal handle, 7 inch



230-332-105
Spiegelgriff, 110 mm
Mirror handle, 4 3/8 inch



230-331-110
Spiegelgriff mit Feststellschraube, 110 mm
Mirror handle with set screw, 4 3/8 inch



430-788-012 Ø 12 mm 430-788-016 Ø 16 mm
430-788-014 Ø 14 mm 430-788-018 Ø 18 mm
MICHEL
Nasenspiegel mit austauschbaren Spiegelaufsätzen, 250 mm
Rhinoscopic mirror with interchangeable mirror inserts, 10 inch



430-800-100

Kehlkopf-Zerstäuber mit Glaszylinder, 12 ml
Laryngeal-Atomizer with glass barrel, 12 ml



430-803-230

REICHERT

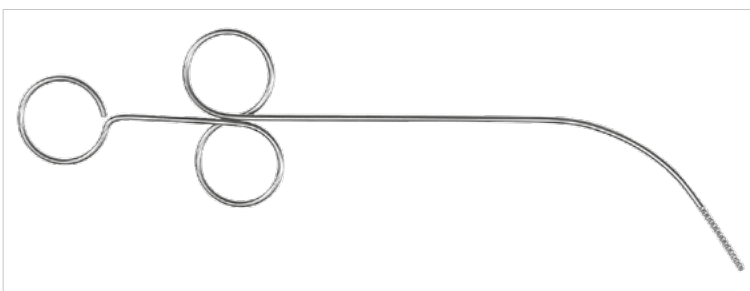
Kehldeckelhalter, 240 mm
Epiglottis retractor, 9 1/2 inch



430-805-250

KILLIAN

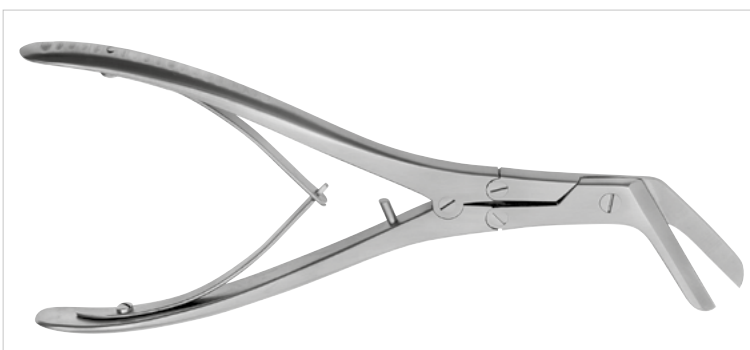
Watteträger, 250 mm
Laryngeal applicator, 10 inch



160-495-280

FEIN

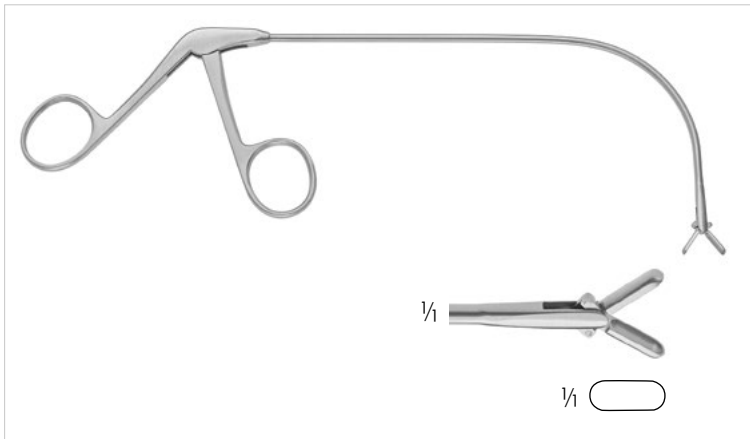
Watteträger, 280 mm
Laryngeal applicator, 11 inch



430-813-060

KILLIAN

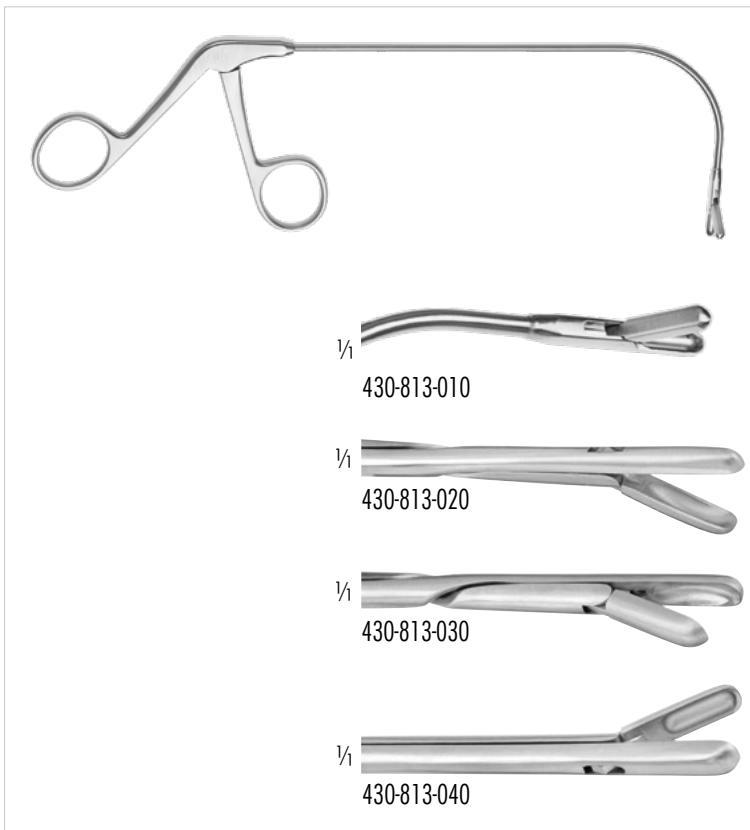
Laryngo-Fissuren-Schere, 220 mm
Laryngectomy scissors, double action, 8 inch



430-813-050

FRAENKEL

Kehlkopfzange, doppelseitig öffnend, länglich ovales Maul, 170 mm
 Laryngeal forceps, both sides opening, longitudinal oval jaws, 6 $\frac{3}{4}$ inch



430-813-010 nach rechts öffnend/opening to the right

430-813-020 nach links öffnend/opening to the left

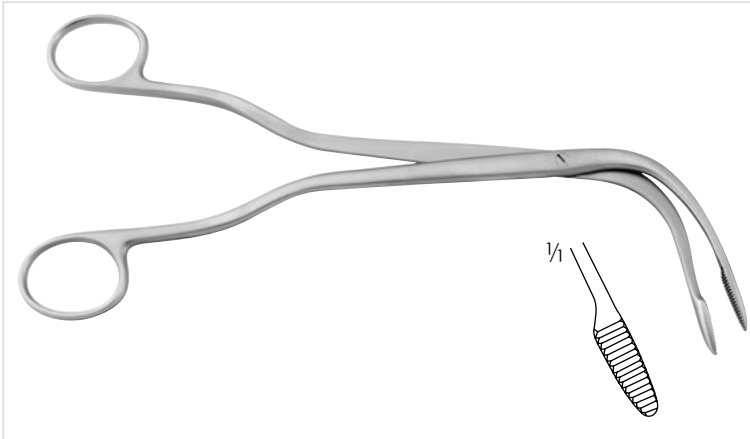
430-813-030 nach unten öffnend/opening downwards

430-813-040 nach oben öffnend/opening upwards

JURASZ

Kehlkopfpolypenzange, 220 mm

Laryngeal polypus forceps, 8 $\frac{1}{2}$ inch



430-815-220

FRAENKEL

Kehlkopfpolypenzange, 220 mm

Laryngeal polypus forceps, 8 ¾ inch



440-120-120

TROUSSEAU

Trachealdilatator, 120 mm

Tracheal dilator, 4 ¾ inch



440-130-140

LABORDE

Trachealdilatator, 140 mm

Tracheal dilator, 5 ½ inch



170-002-165

BOSE

Trachealhäkchen, rechts, für die linke Hand, 160 mm

Tracheal ligature hook, right, for the left hand, 6 ¼ inch

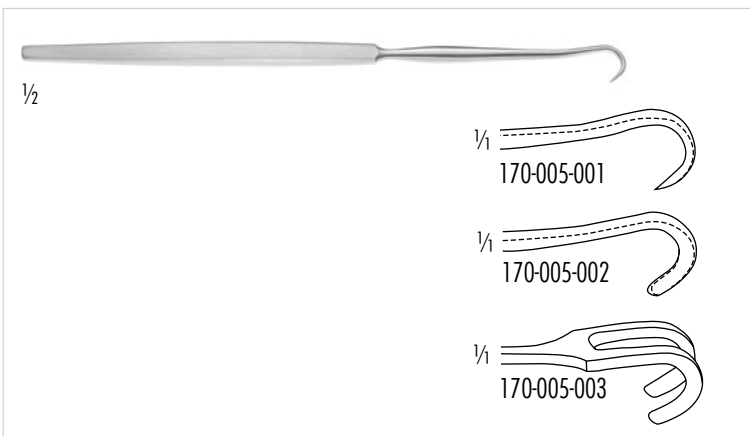


170-003-165

BOSE

Trachealhäkchen, links, für die rechte Hand, 160 mm

Tracheal ligature hook, left, for the right hand, 6 ¼ inch



170-005-001

Trachealhaken, scharf, 160 mm

Tracheal retractor, sharp, 6 ¼ inch

170-005-002

Trachealhaken, stumpf, 160 mm

Tracheal hook, blunt, 6 ¼ inch

170-005-003

Trachealhaken, 2 Zähne, stumpf, 160 mm

Tracheal hook, 2 prongs, blunt, 6 ¼ inch



440-221-160

KOCHER

Kropf Sonde, mit Loch, 160 mm
Goitre director, with hole, 6 inch



440-020-130 Ø 9,0 mm

440-021-130 Ø 7,5 mm

UCKERMANN

Trachealtrokar, 130 mm
Tracheal trocar, 5 inch



170-700-060

BOSE

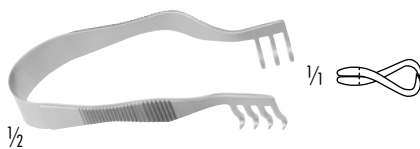
Wundspreizer, 60 mm
Tracheal retractor, 2 3/8 inch



170-701-050

FINSEN

Wundspreizer, 2 x 3 Zähne, stumpf, 50 mm
Tracheal retractor, 2 x 3 teeth, blunt, 2 inch

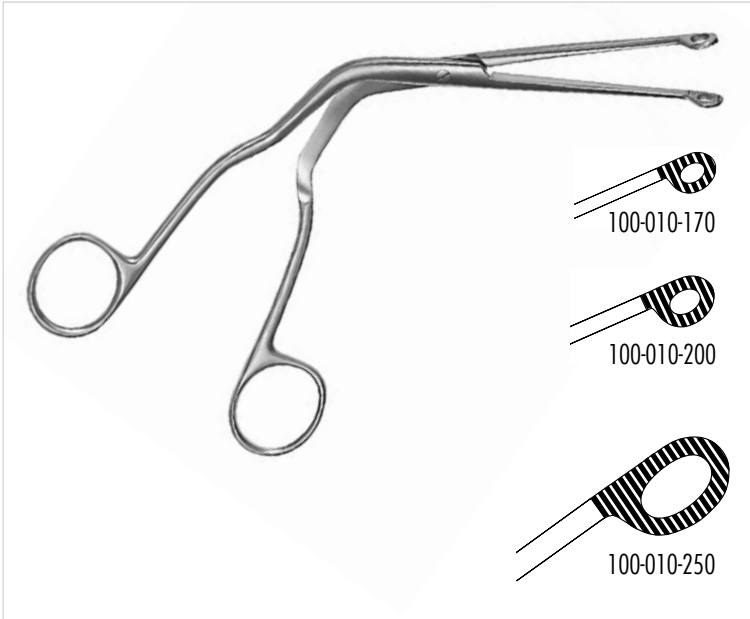


170-702-070 scharf/sharp

170-703-070 stumpf/blunt

FINSEN

Wundspreizer, 3 x 4 Zähne, scharf, 70 mm
Tracheal retractor, 3 x 4 teeth, sharp, 2 3/4 inch



100-010-170

MAGILL

Kleinkinder, 170 cm
Small children, 6 ¼ inch

100-010-200

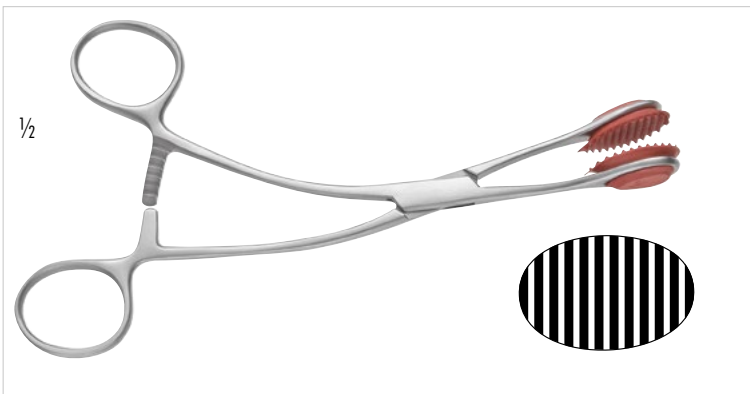
MAGILL

Kinder, 200 cm
Children, 8 inch

100-010-250

MAGILL

Erwachsene, 250 cm
Adult, 10 inch



430-467-170

YOUNG

170 cm
6 ¼ inch

430-468-000

Ersatz-Gummi Einsatz, 1 Paar
Spare rubber inserts, 1 pair



430-465-160 160 mm/6 ½ inch

430-465-170 170 mm/6 ¾ inch

430-465-190 190 mm/7 ½ inch

COLLIN

Zungenzange
Tongue holding forceps



100-210-000	67 mm, Fig. 00
100-210-001	75 mm, Fig. 0
100-210-002	90 mm, Fig. 1
100-210-003	110 mm, Fig. 2
100-210-004	130 mm, Fig. 3
100-210-005	150 mm, Fig. 4
100-210-006	170 mm, Fig. 5

MC INTOSH (English Model)

Warmlicht Layngoskopspatel

Warm-light laryngoscope blade



100-212-000	67 mm, Fig. 00
100-212-001	75 mm, Fig. 0
100-212-002	100 mm, Fig. 1
100-212-003	155 mm, Fig. 2
100-212-004	195 mm, Fig. 3
100-212-005	205 mm, Fig. 4

MILLER

Warmlicht Layngoskopspatel

Warm-light laryngoscope blade



100-214-000	75 mm, Fig. 00
100-214-001	92 mm, Fig. 0
100-214-002	115 mm, Fig. 1
100-214-003	130 mm, Fig. 2
100-214-004	160 mm, Fig. 3
100-214-005	190 mm, Fig. 4

FOREGGER

Warmlicht Layngoskopspatel

Warm-light laryngoscope blade



100-300-002



100-300-001

100-300-002 Für/for Fig. 00 bis 0

100-300-001 Für/for Fig. 1 bis 5

Ersatzlampchen für Spatel

Spare Lamps for blades



100-260-000

Halogen Ersatzlampe für Kaltlichtgriff

Halogen-Lamp for Cold-Light Handle



100-250-000



100-251-000



100-250-002

100-250-000

Warmlichtgriff, groß, mit Glühbirne, ohne Batterien

Warm-light handle, large, with bulb, without batteries

100-251-000

Warmlichtgriff, klein mit Glühbirne, ohne Batterien

Warm-light handle, small, with bulb, without batteries

100-250-002

Warmlichtgriff, groß, mit Glühbirne, ohne Batterien,

Trafo-Anschluss für aufladbare Batterien

Warm-light handle, large, with bulb, without batteries

Trafo-connection for rechargeable battery



100-211-010



100-211-011



100-211-012



100-211-014

100-211-010

Kaltlichtgriff, groß, mit Xenon Lampe, ohne Batterien,

Trafo-Anschluss für aufladbare Batterien

Cold-Light handle, large, with Xenon bulb, without batteries

Trafo-connection for rechargeable battery

100-211-011

Kaltlichtgriff, Ø18mm, mit Xenon Lampe, ohne Batterien

Cold-Light handle, Ø18mm, with Xenon bulb, without batteries

100-211-012

Kaltlichtgriff, Ø30mm, mit Xenon Lampe, ohne Batterien

Cold-Light handle, Ø30mm, with Xenon bulb, without batteries

100-211-014

Kaltlichtgriff, Ø 30mm, 2,5V LED-Beleuchtung,

ohne Trafoanschluss

Cold-light handle, Ø 30mm, 2.5V LED illumination,
without trafo connection



- | | |
|-------------|----------------|
| 100-211-000 | 50 mm, Fig. 00 |
| 100-211-001 | 75 mm, Fig. 0 |
| 100-211-002 | 90 mm, Fig. 1 |
| 100-211-003 | 110 mm, Fig. 2 |
| 100-211-004 | 130 mm, Fig. 3 |
| 100-211-005 | 150 mm, Fig. 4 |

MC INTOSH

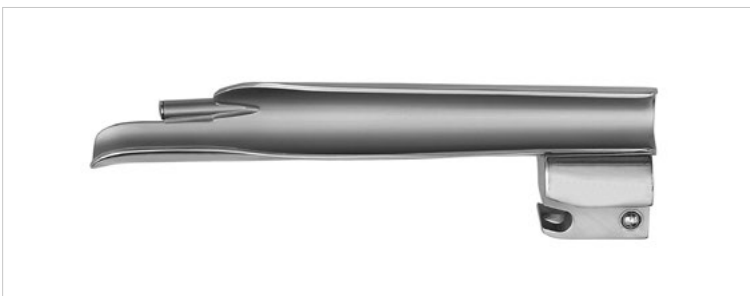
Fiberoptik Kaltlicht Laryngoskopspatel
Fiberoptic cold-light laryngoscope blade



- | | |
|-------------|----------------|
| 100-213-000 | 67 mm, Fig. 00 |
| 100-213-001 | 75 mm, Fig. 0 |
| 100-213-002 | 100 mm, Fig. 1 |
| 100-213-003 | 155 mm, Fig. 2 |
| 100-213-004 | 195 mm, Fig. 3 |
| 100-213-005 | 205 mm, Fig. 4 |

MILLER

Fiberoptik Kaltlicht Laryngoskopspatel
Fiberoptic cold-light laryngoscope blade



- | | |
|-------------|----------------|
| 100-215-001 | 92 mm, Fig. 0 |
| 100-215-002 | 115 mm, Fig. 1 |
| 100-215-003 | 130 mm, Fig. 2 |
| 100-215-004 | 160 mm, Fig. 3 |
| 100-215-005 | 190 mm, Fig. 4 |

FOREGGER

Kaltlicht Laryngoskopspatel
Cold-light laryngoscope blade



- | | |
|-------------|----------------|
| 100-218-003 | 170 mm, Fig. 3 |
| 100-218-004 | 190 mm, Fig. 4 |

MC INTOSH

Kaltlicht Laryngoskopspatel mit flexibler Spitze
Cold-light laryngoscope blade with flexible tip



A Warmicht Laryngoskop Set im Etui, mit Griff 100-250-000
Warm-light laryngoscope set in Case, with Handle 100-250-000

MC INTOSH (English Model)

100-210-300	5 Spatel/blades, Fig. 0 - 4
100-210-200	4 Spatel/blades, Fig. 1 - 4
100-210-100	3 Spatel/blades, Fig. 1 - 3

MILLER

100-212-300	5 Spatel/blades, Fig. 0 - 4
100-212-200	4 Spatel/blades, Fig. 1 - 4
100-212-100	3 Spatel/blades, Fig. 2 - 4

FOREGGER

100-214-200	5 Spatel/blades, Fig. 0 - 4
100-214-100	4 Spatel/blades, Fig. 1 - 4

B Kaltlicht Laryngoskop Set im Etui, mit Griff 100-211-010
Cold-light laryngoscope set in Case, with Handle 100-211-010

MC INTOSH (English Model)

100-211-300	5 Spatel/blades, Fig. 0 - 4
100-211-200	4 Spatel/blades, Fig. 1 - 4
100-211-100	3 Spatel/blades, Fig. 1 - 3

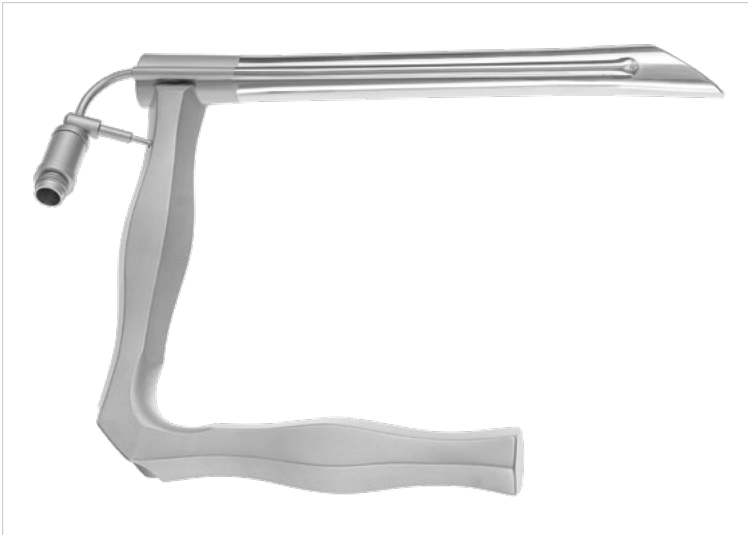
MILLER

100-213-300	5 Spatel/blades, Fig. 0 - 4
100-213-200	4 Spatel/blades, Fig. 1 - 4
100-213-100	3 Spatel/blades, Fig. 2 - 4

FOREGGER

100-215-200	5 Spatel/blades, Fig. 0 - 4
100-215-100	4 Spatel/blades, Fig. 1 - 4



**HOLINGER**

Complete with light carrier

90mm, 3"	Newborn	small	100-510-000
120mm, 5"	Babies	small	100-510-001
170mm, 6 ³ / ₄ "	Children	large	100-510-002
180mm, 7"	Adult	large	100-510-003

HOLINGER

Spare light carrier

Newborn	100-510-100
Babies	100-510-101
Children	100-510-102
Adult	100-510-103

**JACKSON**

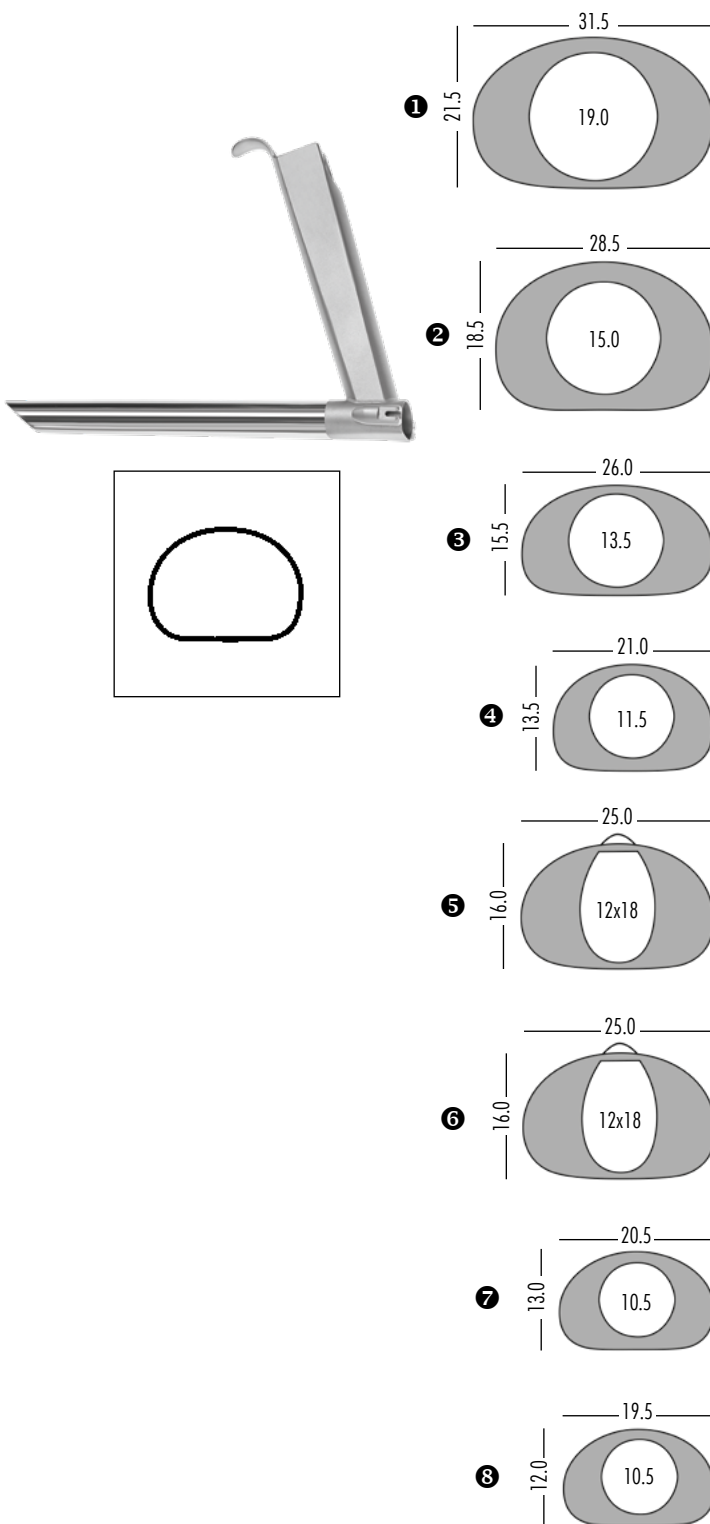
Complete with light carrier

90mm, 3"	Newborn	small	100-505-000
125mm, 5"	Babies	small	100-505-001
170mm, 6 ³ / ₄ "	Children	large	100-505-002
180mm, 7"	Adult	large	100-505-003

JACKSON

Spare light carrier

Newborn	100-505-100
Babies	100-505-101
Children	100-505-102
Adult	100-505-103



1 Adults, extra large

170mm, 6³/₄" 100-500-008

2 Adults, extra large

170mm, 6³/₄" 100-500-005

3 Adults, medium

170mm, 6³/₄" 100-500-004

4 Adults, small

180mm, 7" 100-500-003

5 Adults, medium, anterior

180mm, 7" 100-500-006

6 Adults, medium, long neck

220mm, 9³/₄" 100-500-007

7 Children, small

150mm, 6" 100-500-002

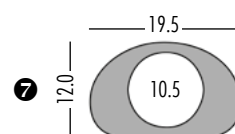
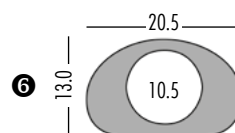
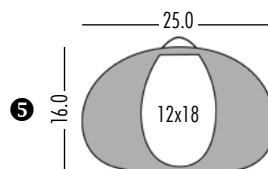
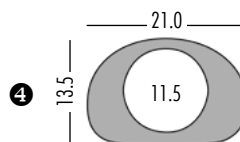
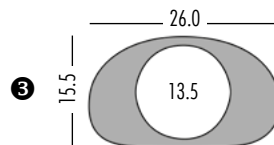
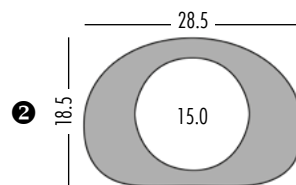
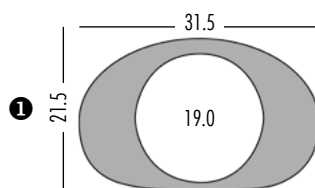
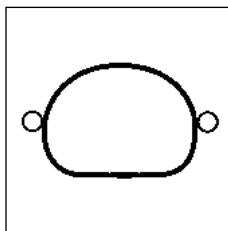
8 Infant, small

130mm, 5" 100-500-001

KLEINSASSER

Operationslaryngoskop

Operation Laryngoscope



① Adults, extra large

170mm, 6³/₄" 100-500-537

② Adults, extra large

170mm, 6³/₄" 100-500-536

③ Adults, medium

170mm, 6³/₄" 100-500-535

④ Adults, small

180mm, 7" 100-500-534

⑤ Adults, medium, anterior

180mm, 7" 100-500-533

⑥ Children, small

150mm, 6" 100-500-532

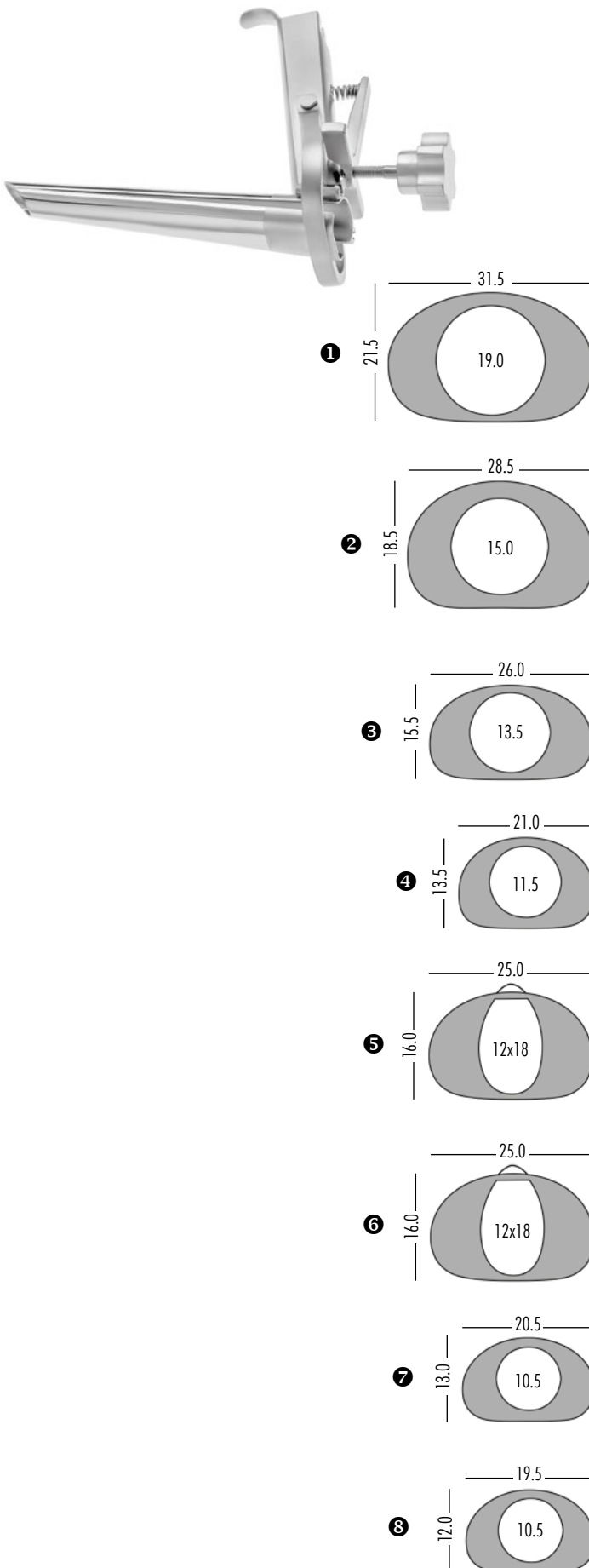
⑦ Infant, small

130mm, 5" 100-500-531

KLEINSASSER-LASER

Operationslaryngoskop

Operation Laryngoscope



1 Adults, extra large

170mm, 6³/₄" 100-500-208

2 Adults, extra large

170mm, 6³/₄" 100-500-205

2 Adults, medium

170mm, 6³/₄" 100-500-204

4 Adults, small

180mm, 7" 100-500-203

5 Adults, medium, anterior

180mm, 7" 100-500-206

6 Adults, medium, long neck

220mm, 9³/₄" 100-500-207

7 Children, small

150mm, 6" 100-500-202

8 Infant, small

130mm, 5" 100-500-201

Operationslaryngoskop, spreizbar
Operation Laryngoscope, spreadable



① Adults, extra large

180mm, 7" 100-500-583

② Adolescent/adults

180mm, 7" 100-500-582

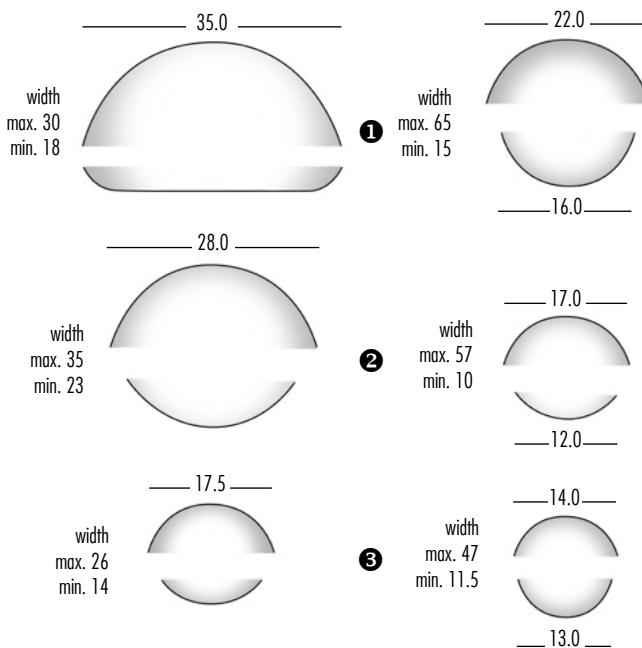
③ Children, small

135mm, 5 1/3" 100-500-581

Operationslaryngoskop, spreizbar
Operation Laryngoscope, spreadable

PROXIMAL

DISTAL




❶ Adults, large

150mm, 6" 100-500-555

❷ Adults, large

170mm, 6³/₄" 100-500-554

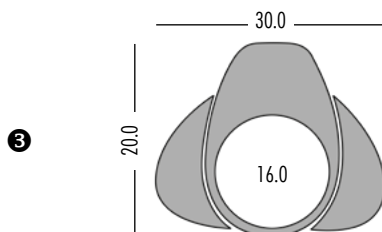
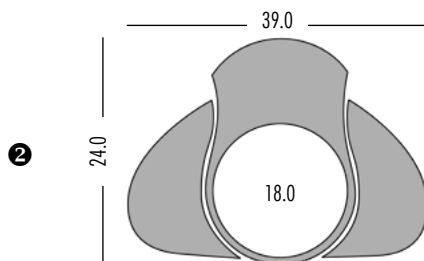
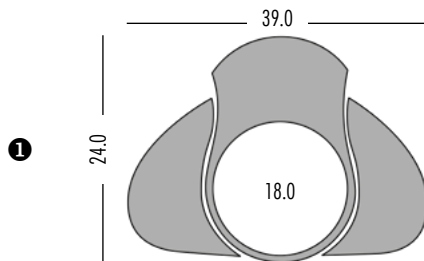
❸ Children, small

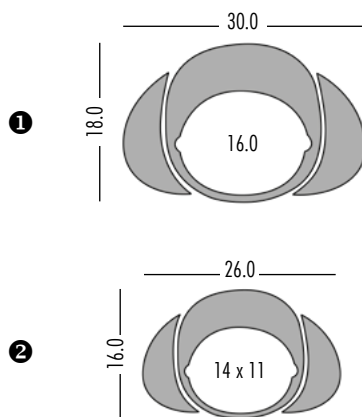
110mm, 4¹/₄" 100-500-553

KLEINSASSER, L.

Operationslaryngoskop

Operation Laryngoscope





① Children

115mm, 4¹/₂" 100-500-552

② Infant

95mm, 3³/₄" 100-500-551

KLEINSASSER, B-L.

Operationslaryngoskop
Operation Laryngoscope

KLEINSASSER, B.



KLEINSASSER, B.-P.

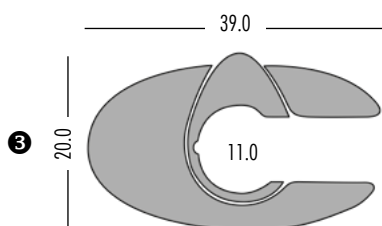
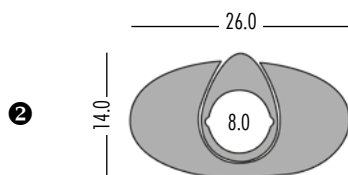
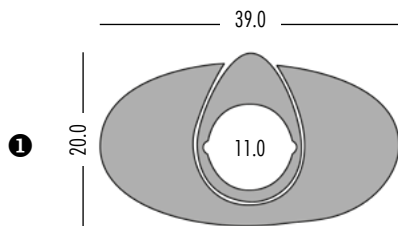


❶ Kleinsasser, B., children, medium
150mm, 6" 100-500-564

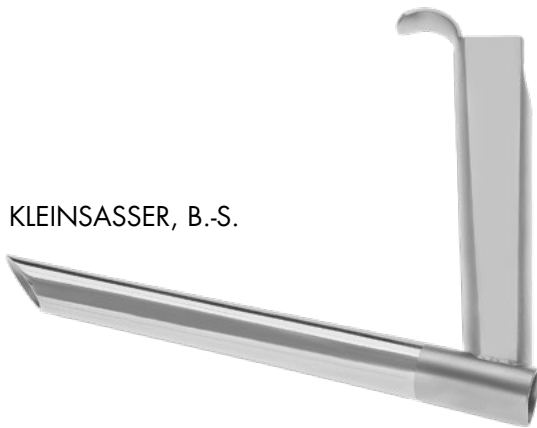
❷ Kleinsasser, B., children, small
115mm, 4 1/2" 100-500-563

❸ Kleinsasser, B.-P., children, medium
150mm, 6" 100-500-562

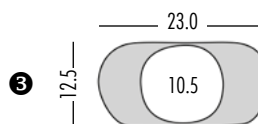
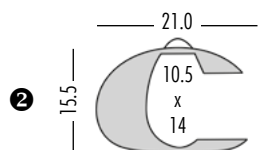
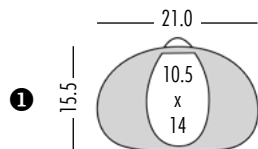
KLEINSASSER, B.
KLEINSASSER, B.-P.
Operationslaryngoskop
Operation Laryngoscope



KLEINSASSER, B.-S.



KLEINSASSER, B.-P.-S.



① Kleinsasser, B.-S., adult, slender
170mm, 6³/₄" 100-500-573

② Kleinsasser, B.-P.-S., adult, slender
170mm, 6³/₄" 100-500-572

③ Kleinsasser, B.-S., adult, extra-slim
170mm, 6³/₄" 100-500-571

KLEINSASSER, B.-S.
KLEINSASSER, B.-P.-S.
Operationslaryngoskop
Operation Laryngoscope



75mm/3" working length for 100-500-001/100-500-002 100-500-201/100-500-202	100-500-019
140mm/5 1/2" working length for 100-500-003 - 100-500-008 100-500-203 - 100-500-208	100-500-020

Lichtträger
Fiber Optic Light Carrier



120mm/4 3/4" working length for 100-500-531	100-500-538
140mm/5 1/2" working length for 100-500-532	100-500-539
160mm/6 1/4" working length for 100-500-533 - 100-500-537	100-500-540

Lichtträger
Fiber Optic Light Carrier



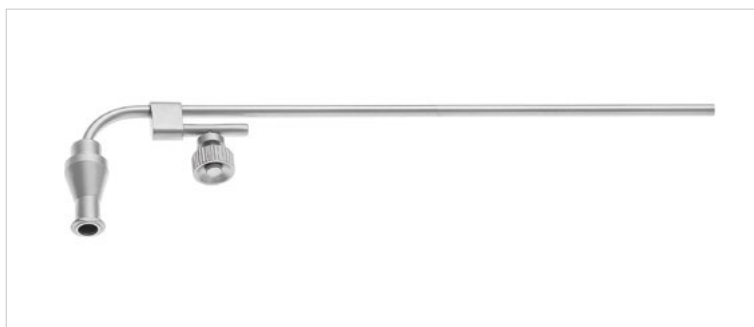
120mm/4 3/4" working length for 100-500-583 / 100-500-582	100-500-584
100mm/4" working length for 100-500-581	100-500-585

Lichtträger
Fiber Optic Light Carrier



65mm/2 1/2" working length for 100-500-563	100-500-556
75mm/3" working length for 100-500-553 - 100-500-555	100-500-557
120mm/4 3/4" working length for 100-500-562 / 100-500-564	100-500-538

Lichtträger
Fiber Optic Light Carrier



90mm/3 ¹ / ₂ " working length for 100-500-001/100-500-002	100-500-080
125mm/5" working length for 100-500-003/100-500-008	100-500-075

Saugrohr, Ø 3mm
Suction Tube Ø 3mm



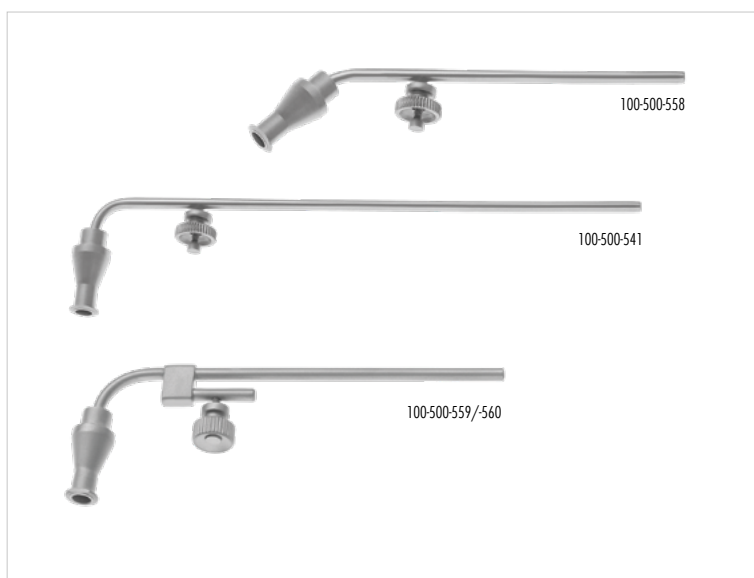
120mm/4 ³ / ₄ " working length for 100-500-531	100-500-541
140mm/5 ¹ / ₂ " working length for 100-500-532	100-500-542
160mm/6 ¹ / ₄ " working length for 100-500-533 - 100-500-537	100-500-543

Saugrohr
Suction Tube



100mm/4" working length for 100-500-583 / 100-500-582	100-500-586
120mm/4 ³ / ₄ " working length for 100-500-581	100-500-587

Saugrohr
Suction Tube



65mm/2 ¹ / ₂ " working length for 100-500-552 / 100-500-551	100-500-558
70mm/2 ³ / ₄ " working length for 100-500-553	100-500-559
85mm/3 ¹ / ₄ " working length for 100-500-555 / 100-500-554	100-500-560
120mm/4 ³ / ₄ " working length for 100-500-562 / 100-500-564	100-500-541

Saugrohr
Suction Tube



85mm/ $3\frac{1}{4}$ " working length for
100-500-001 - 100-500-008
100-500-201 - 100-500-208

100-500-050

Injektionskanüle
Injection Cannula



70mm/ $2\frac{3}{4}$ " working length
100-500-583 / 100-500-582

100-500-588

Injektionskanüle
Injection Cannula



85mm/ $3\frac{1}{4}$ " working length for
100-500-553 - 100-500-555

100-500-561

Injektionskanüle
Injection Cannula



135mm/ $5\frac{1}{4}$ " working length
Ø 2mm

100-500-574

135mm/ $5\frac{1}{4}$ " working length
Ø 3mm

100-500-575

Injektionskanüle, biegsam
Injection Cannula, malleable



100-500-576

Licht Clip
Light Clip



Chest Support, complete, for Operating Laryngoscopes

240mm, 9 ¹ / ₂ "	Ø95mm	Children	100-500-101
340mm, 13 ¹ / ₂ "	Ø95mm	Adult	100-500-100



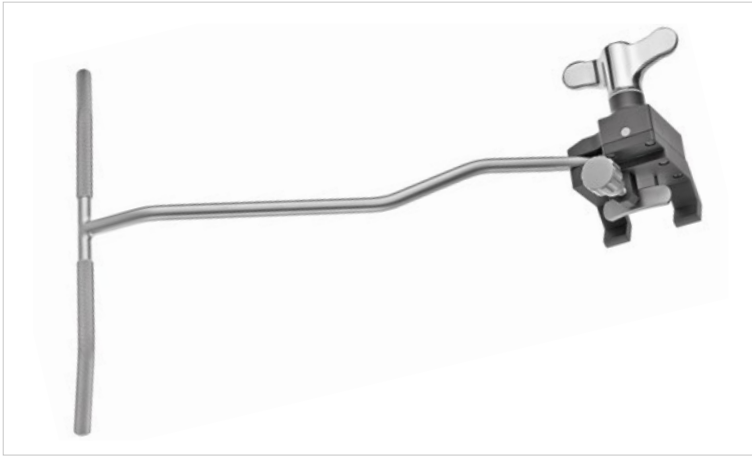
Support Rod, with ring

240mm, 9 ¹ / ₂ "	Ø95mm	Children	100-500-111
340mm, 13 ¹ / ₂ "	Ø95mm	Adult	100-500-113



Joint for Chest Support

100-500-110

**LEWY**

Chest Support, for Operating Laryngoscopes

340mm, 13 $\frac{1}{2}$ "

Adult

100-500-102



Supporting Table for Chest Support, complete set

100-500-150



Laryngoscope Handle, detachable, for LEWY Chest Support and Operating Laryngoscopes

100-512-000



Chest Support, complete, for Operating Laryngoscopes

340mm, 13¹/₂" Ø90mm

100-500-200



Support rod only, for Operating Laryngoscopes

340mm, 13¹/₂" Ø90mm

100-500-210



Chest Support, complete with 2 lateral screws,
for Operating Laryngoscopes

340mm, 13¹/₂" Ø120mm

100-500-400



Support rod

340mm, 13¹/₂" Ø120mm

100-500-410



Joint for Breast Support

100-500-420



100-500-310

Rhino-Pharyngoskop
mit Quarzglasbildbündelsystem,
ca 2-3 µm Pixelgröße, 18000 Pixel

Parameter/Technische Daten:

- hohe Auflösung
- hervorragende Bedienungseigenschaften
- größere Helligkeit

Arbeitslänge

Ø im Bereich der Arbeitslänge

2-fach abgewinkelbare Spitze

Länge der abwinkelbaren Spitze

minimaler Biegeradius

Blickrichtung

Bildwinkel

Fokussierung

im Koffer mit Zubehör, u.a. Manometer

max. 300 mm

3,8 mm

auf 160° ab 160°

20 mm

30 mm

0°

85°

3 - 60 mm



100-500-380

Rhino-Pharyngoskop
mit konventionellem Bildbündelsystem
12.000 Pixel, 10 µm-Fasern

Parameter/Technische Daten:

- kontrastreiches Bild
- hohe Flexibilität
- einfache Fokussierung

Arbeitslänge

Ø im Bereich der Arbeitslänge

2-fach abwinkelbare Spitze

Länge der abwinkelbaren Spitze

minimaler Biegeradius

Blickrichtung

Bildwinkel

Fokussierung

im Koffer mit Zubehör, u.a. Manometer

max. 300 mm

3,4 mm

auf 125° ab 125°

25 mm

30 mm

0°

Weitwinkel

3 mm bis unendlich

Rhino-Pharyngoscope
with fused silica image guide system,
ca. 2-3 µm pixel size, 18000 pixels

Parameter/Technical Data:

- high resolution
- excellent pushing characteristics
- higher illumination

working length

outer Ø

2-way tip-deflection

length of movable tip-section

minimal bending radius

viewing direction

field of view

focussion

in case with accessories a.o. Manometer

max. 300 mm

3.7 mm

up 160°, down 160°

20 mm

30 mm

0°

85°

3 - 60 mm

Rhino-Pharyngoscope
with conventional image guide system,
12.000 pixels, 10 µm-fibres

Parameter/Technical Data:

- high-contrast image
- high flexibility
- easy to focus

working length

outer Ø

2-way tip-deflection

length of movable tip-section

minimal bending radius

viewing direction

field of view

focussion

in case with accessories a.o. Manometer

max. 300 mm

3.4 mm

up 125°, down 125°

25 mm

30 mm

0°

wide angle

3 mm to infinity

Vollständig gassterilisierbar (ETO/Formaldehyd) und in Desinfektionsmittel einlegbar.
Fully soakable, ETO, gas sterilizable



100-500-385

Die Rhino-Pharyngoskope der neuen Generation sind intuitiv bedienbar und ergonomisch optimal geformt, entwickelt für die notwendige Feinfühligkeit im täglichen Routineeinsatz und ein ermüdungsfreies Handling. Hochwertige Bildleiter und ein leistungsfähiges optisches System liefern große und helle Bilder bester Auflösung – die Voraussetzung für eine sichere Diagnose und Therapie.

Dank solider Verarbeitung und konsequenter Verwendung moderner Hochleistungswerkstoffe sind Rhino-Pharyngoskope robuster und langlebiger – trotz steigender Belastung durch moderne Aufbereitungsverfahren. Funktionelles Design für ein entspanntes, angenehmes Handling, feinfühlig aber robuste Steuerung.

Optimale Flexibilität und Torsionssteifigkeit des Einführschlauchs, leistungsfähiges optisches System, größere, hellere, schärfere Bilder.

Geeignete Wiederaufbereitungsverfahren:

- einlegbar in Reinigungs- und Desinfektionslösung
- STERRAD®
- STERIS®
- ETO
- maschinelle Aufbereitung (RDG-E)

Rhino-Pharyngoskop **mit Arbeitskanal** und ETO-Ventil
14000 pixel

Einführschlauch:	3,8 mm
Arbeitslänge:	300 mm
Abwinklung:	auf/ab 160°
Blickfeld:	85°
Tiefenschärfe:	1-50 mm

Zubehör:

ETO-Kappe
Dichtigkeitstester
Adapter Storz/Olympus
Adapter Wolf

The Rhino-Pharyngoscopes of the new generation allow an intuitive handling: They have been developed in order to meet the required sensitivity in the daily use.

High-quality fibres and a powerful optical system provide great and bright pictures of best resolution – the main condition for a save diagnosis and therapy.

Thanks to the stable manufacture out of modern high-standard material, our Rhino-Pharyngoscopes are very robust and durable – despite growing imposition through modern preparation methods. The functional design offers a relaxed, comfortable handling due to its ergonomic shape under a sensitive but robust control.

Optimal flexibility and torsion rigidity of the sheath.

Suitable preparation methods:

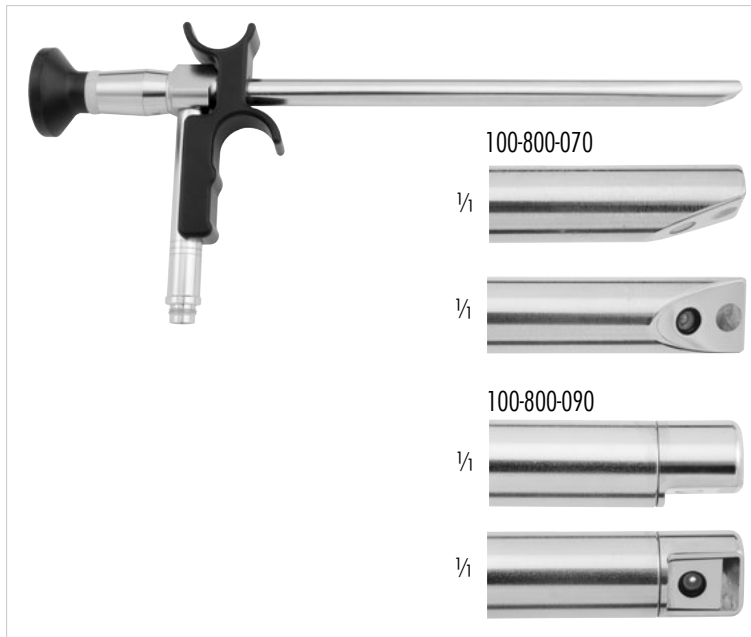
- Solution for cleaning or disinfection
- STERRAD®
- STERIS®
- ETO
- Automatic preparation (RDG-E)

Rhino-Pharyngoscope **with working channel** and ETO valve
14000 pixel

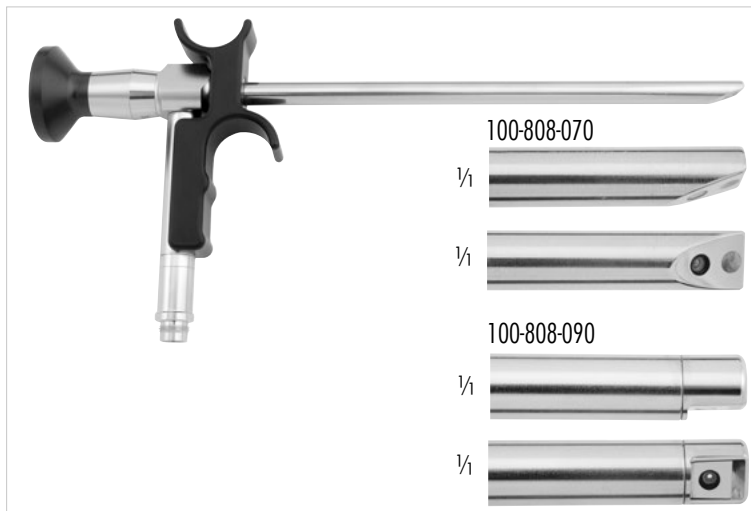
Insertion tube:	3.8 mm
Working length:	11 7/8"
Max bending:	up/down 160°
Field of view:	85°
Depth of field:	1-50 mm

Accessories:

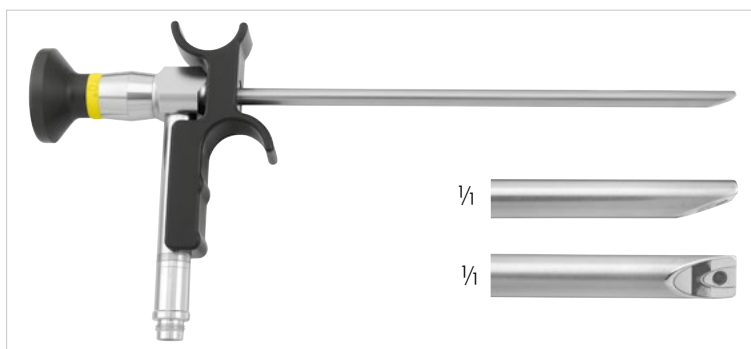
ETO valve
Leakage tester
Adaptor Storz/Olympus
Adaptor Wolf



100-800-070 70°
 100-800-090 90°
 Laryngo-Pharyngoskop, autoklavierbar, Ø 10 mm,
 190 mm Arbeitslänge, 270mm Gesamtlänge
 Laryngo-Pharyngoscope, autoclavable, Ø 10 mm,
 7 1/2 inch working length, 10 2/3 inch overall length



100-808-070 70°
 100-808-090 90°
 Laryngo-Pharyngoskop, autoklavierbar, Ø 8 mm, 190 mm
 Laryngo-Pharyngoscope, autoclavable, Ø 8 mm, 7 1/2 inch



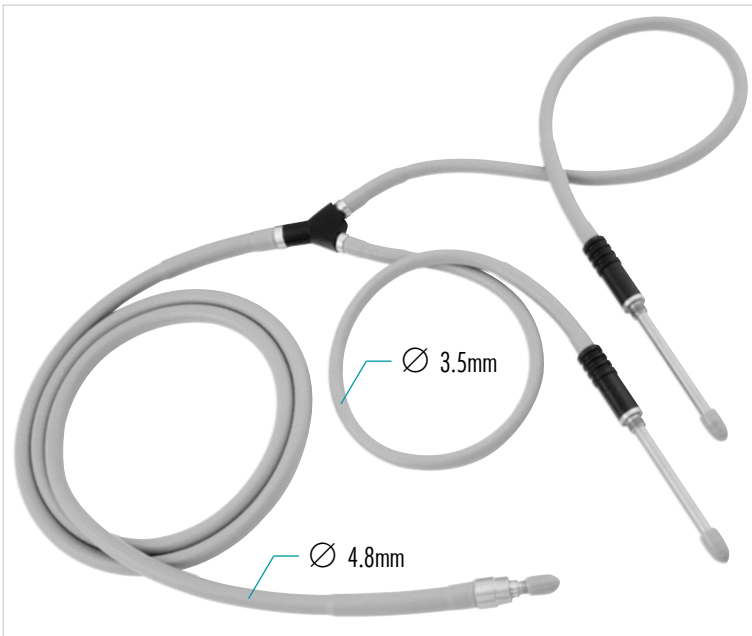
100-805-070 Ø 5 mm
 100-806-070 Ø 6 mm
 Zoom-Laryngo-Pharyngoskop, autoklavierbar, 70°, 190 mm
 Zoom-Laryngo-Pharyngoscope, autoclavable, 70°, 7 1/2 inch



250-025-230	Ø 2.5 mm, 2300 mm
250-025-300	Ø 2.5 mm, 3000 mm
250-035-180	Ø 3.5 mm, 1800 mm
250-035-230	Ø 3.5 mm, 2300 mm
250-035-300	Ø 3.5 mm, 3000 mm
250-048-180	Ø 4.8 mm, 1800 mm
250-048-230	Ø 4.8 mm, 2300 mm
250-048-300	Ø 4.8 mm, 3000 mm

RZ

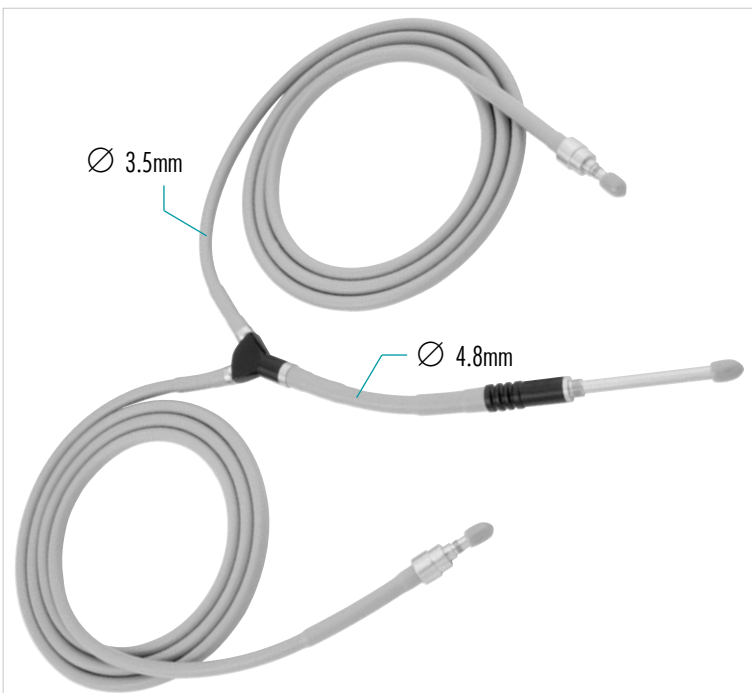
Hochentwickeltes Xenon Lichtleiterkabel mit eingebautem Glasstab für hohe Temperaturwiderstandsfähigkeit
Advanced High Temperature Xenon Light cable with built-in glass rod



250-053-180	Ø 3.5 mm, 1800 mm
250-053-230	Ø 3.5 mm, 2300 mm

RZ

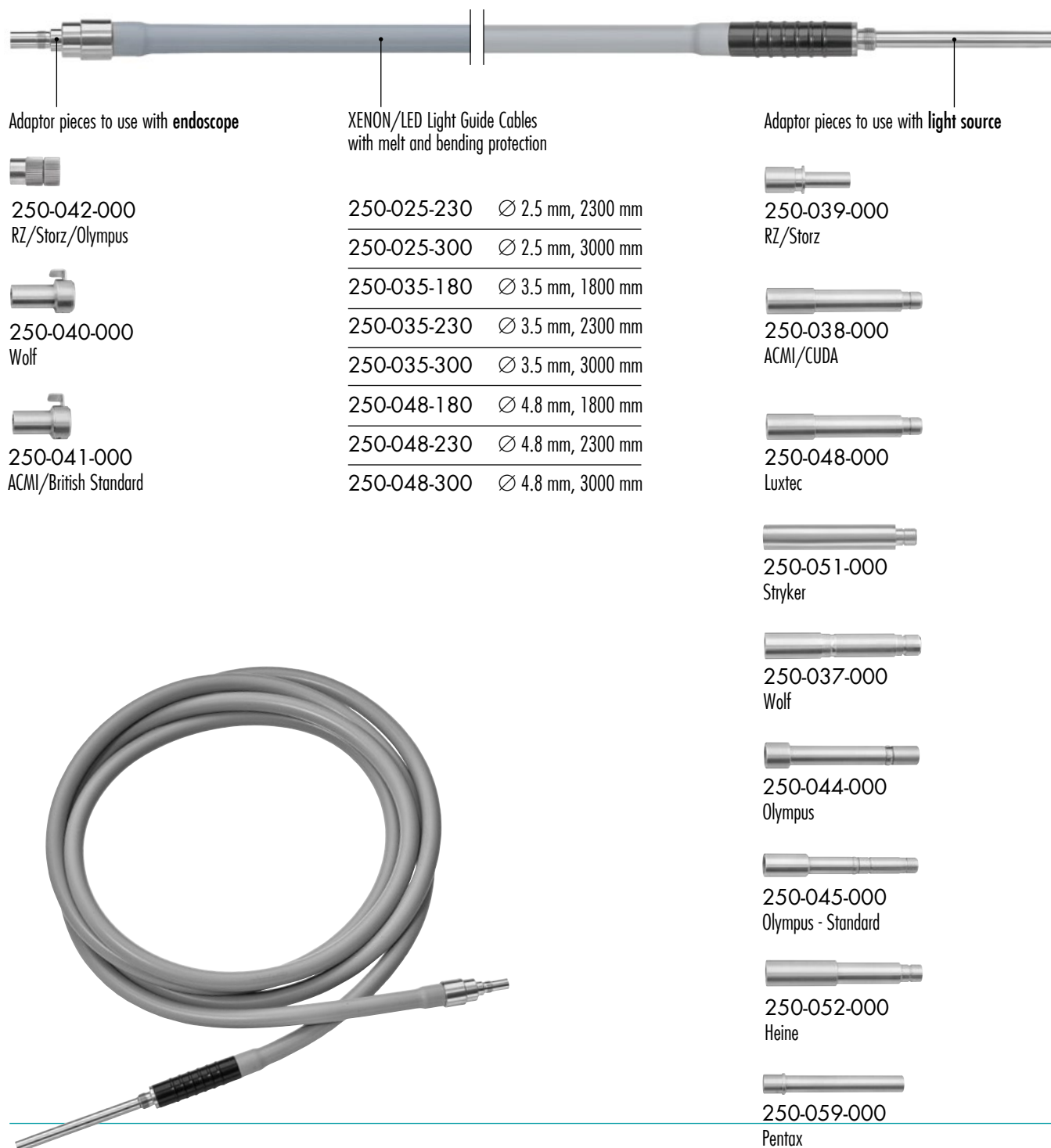
Kaltlichtleitkabel, mit 2 Lichteingängen und 1 Lichtausgang, ohne Adapter (Seite 30)
Cold light cable, with 2 light inputs and 1 light output, without adaptor pieces (page 30)



250-054-180	Ø 3.5 mm, 1800 mm
250-054-230	Ø 3.5 mm, 2300 mm

RZ

Kaltlichtleitkabel, mit 1 Lichteingang und 2 Lichtausgängen, ohne Adapter (Seite 30)
Cold light cable, with 1 light input and 2 light outputs, without adaptor pieces (page 30)



Adaptor pieces to use with **endoscope**



250-042-000
RZ/Storz/Olympus



250-040-000
Wolf



250-041-000
ACMI/British Standard

XENON/LED Light Guide Cables
with melt and bending protection

250-025-230 Ø 2.5 mm, 2300 mm

250-025-300 Ø 2.5 mm, 3000 mm

250-035-180 Ø 3.5 mm, 1800 mm

250-035-230 Ø 3.5 mm, 2300 mm

250-035-300 Ø 3.5 mm, 3000 mm

250-048-180 Ø 4.8 mm, 1800 mm

250-048-230 Ø 4.8 mm, 2300 mm

250-048-300 Ø 4.8 mm, 3000 mm

Adaptor pieces to use with **light source**



250-039-000
RZ/Storz



250-038-000
ACMI/CUDA



250-048-000
Luxtec



250-051-000
Stryker



250-037-000
Wolf



250-044-000
Olympus



250-045-000
Olympus - Standard



250-052-000
Heine



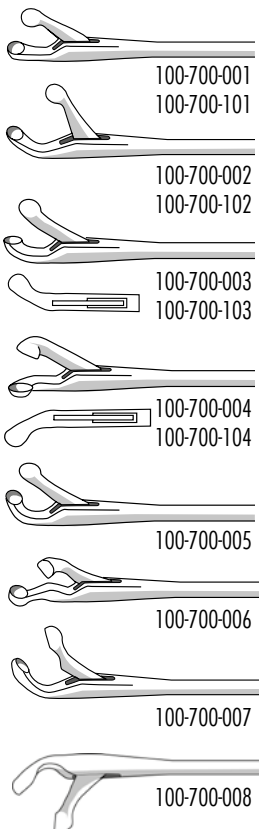
250-059-000
Pentax

COMPATIBILITY NOTE:

A fiber optic cable with a large diameter should not be connected to a smaller diameter scope.
For example: Ø 4.8mm fiber optic cables connected to a Ø 2.9mm may risk
high temperature at the light entry of the endoscope and may risk patient safety.



Löffelzängchen, 2 mm und 4 mm, Standardmodell, konischer Rohrschaft, Arbeitslänge: 230 mm
Cupped forceps with round 2 mm and 4 mm cupped, jaws, conical tubular shaft, working length: 9 inch

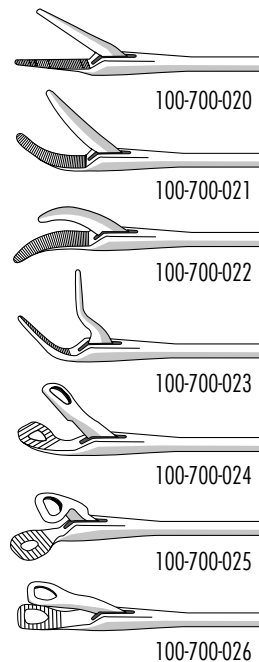


2 mm

- | | |
|-------------|---|
| 100-700-001 | gerade/straight |
| 100-700-002 | aufgebogen/curved upwards |
| 100-700-003 | rechts gebogen/curved right |
| 100-700-004 | links gebogen/curved left |
| 100-700-005 | rechts aufgebogen/curved upwards right |
| 100-700-006 | links aufgebogen/curved upwards left |
| 100-700-007 | horizontal, nach rechts öffnend/horizontal curved right opening |
| 100-700-008 | horizontal, nach links öffnend/horizontal curved left opening |

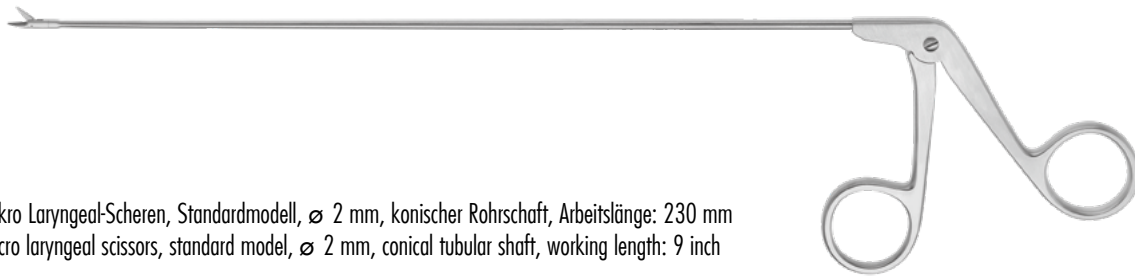
4 mm

- | | |
|-------------|-----------------------------|
| 100-700-101 | gerade, straight |
| 100-700-102 | aufgebogen/curved upwards |
| 100-700-103 | rechts gebogen/curved right |
| 100-700-104 | links gebogen/curved left |



Faßzängchen, Standardmodell, konischer Rohrschaft 2 mm, Nutzlänge 230mm
Alligator forceps, standard model, conical tubular shaft 2 mm, working length 9 inch

- | | |
|-------------|---|
| 100-700-020 | gerieft, gerade/serrated, straight |
| 100-700-021 | nach rechts gebogen/curved right |
| 100-700-022 | nach links gebogen/curved left |
| 100-700-023 | aufgebogen/curved upwards |
| 100-700-024 | mit dreieckigem Maul, nach rechts aufgebogen/with triangular jaws, curved upwards right |
| 100-700-025 | mit dreieckigem Maul, nach links aufgebogen/with triangular jaws, curved upwards left |
| 100-700-026 | mit dreieckigem Maul, gerade/with triangular jaws, straight |



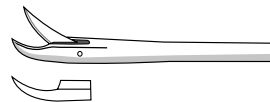
Mikro Laryngeal-Scheren, Standardmodell, $\varnothing$ 2 mm, konischer Rohrschaft, Arbeitslänge: 230 mm
Micro laryngeal scissors, standard model, $\varnothing$ 2 mm, conical tubular shaft, working length: 9 inch



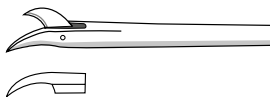
100-700-050 gerade/straight



100-700-051 45° aufgebogen/upcurved



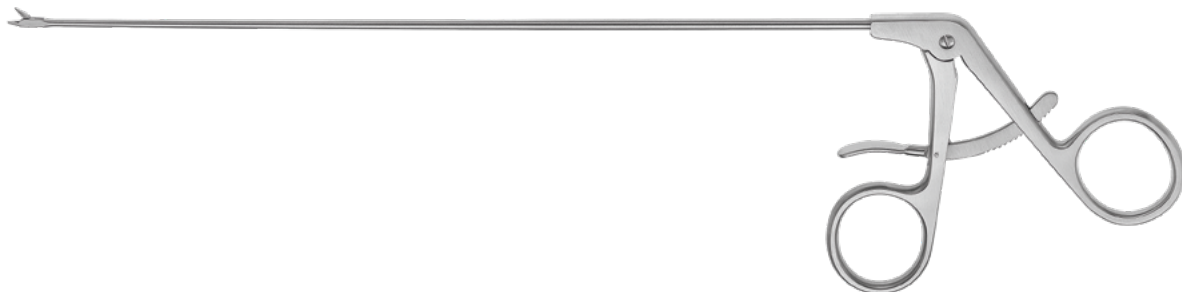
100-700-052 rechts gebogen/curved right



100-700-053 links gebogen/curved left



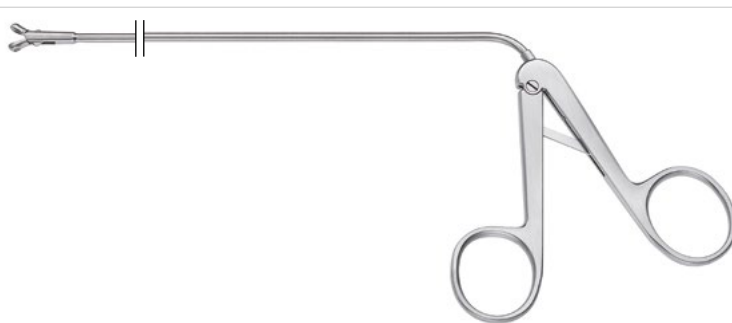
100-700-054 gerade, horizontal schneidend/straight, horizontal cutting



100-700-200 Nadelhalter mit Sperre, konischer Rohrschaft, Nutzlänge 230 mm
Needle holder with ratchet, conical tubular shaft, working length 9 inch



100-700-210 Nadelhalter mit Sperre, konischer Rohrschaft, mit diamantiertem Maulteil, Nutzlänge 230 mm
Needle holder with ratchet, conical tubular shaft, with diamond dusted jaw, working length 9 inch



100-700-030

Laryngoskopie-Biopsiezange, schweres Modell, 5mm Löffelmaul, gerade, doppelbeweglich, 230mm
Laryngoscopic-Biopsyforceps heavy, with round 5mm cupped jaws, double action, 9 inch

100-704-230

Laryngoskopie-Biopsiezange, schweres Modell, 3x4mm Löffelmaul, gerade, einfach beweglich, 230mm
Laryngoscopic-Biopsyforceps heavy, with 3x4mm cupped jaws, single action, 9 inch

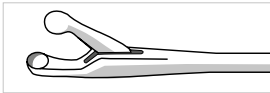


Paediatric Laryngeal Zangen nach Kleinsasser, konischer Rohrschaft, Arbeitslänge: 180 mm
 Pediatric laryngeal forceps, Kleinsasser design, conical tubular shaft, working length: 7 inch

Löffelzängchen/Cupped Forceps



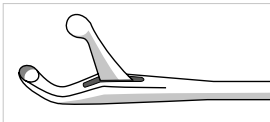
100-712-001 2 mm, gerade/straight



100-712-002 3 mm, gerade/straight

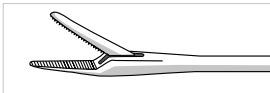


100-712-003 2 mm, aufgebogen/curved upwards



100-712-004 3 mm, aufgebogen/curved upwards

Alligator Zange, gerieft/Alligator Forceps, serrated

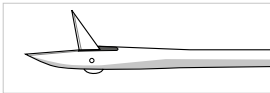


100-712-005 gerade/straight

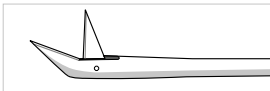


100-712-013 aufgebogen/curved upwards

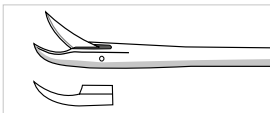
Schere/Scissors



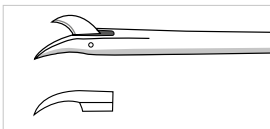
100-712-006 gerade/straight



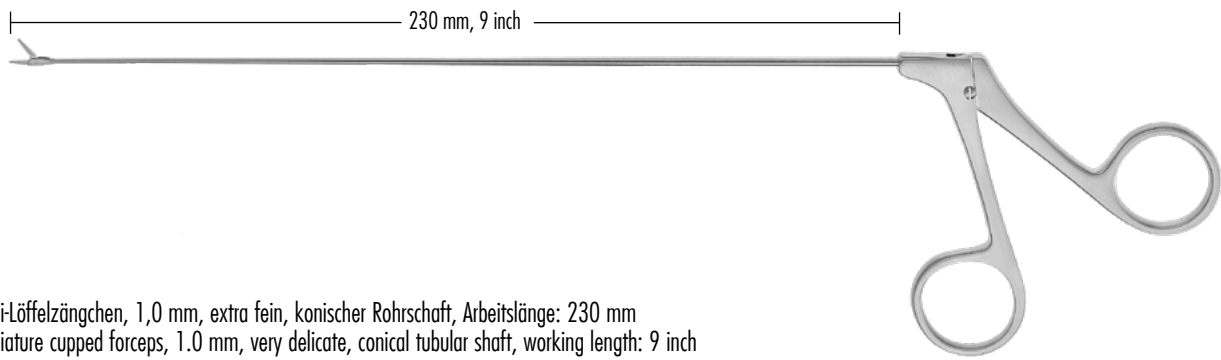
100-712-007 45° abgewinkelt/45° angled



100-712-008 rechts gebogen/curved right



100-712-009 links gebogen/curved left



Mini-Löffelzängchen, 1,0 mm, extra fein, konischer Rohrschaft, Arbeitslänge: 230 mm
Miniature cupped forceps, 1.0 mm, very delicate, conical tubular shaft, working length: 9 inch



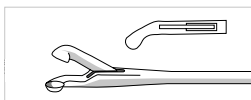
100-710-001 gerade/straight



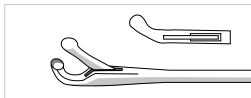
100-710-002 aufgebogen/curved upwards



100-710-003 nach rechts gebogen/curved right



100-710-004 nach links gebogen/curved left



100-710-005 nach rechts aufgebogen/curved upwards right

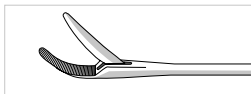


100-710-006 nach links aufgebogen/curved upwards left

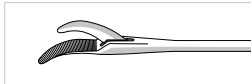
Mini-Faßzängchen, gerieft, extra fein, konischer Rohrschaft, Arbeitslänge: 230 mm
Miniature forceps, serrated, very delicate, conical tubular shaft, working length: 9 inch



100-710-020 gerade/straight



100-710-021 nach rechts gebogen/curved right



100-710-022 nach links gebogen/curved left

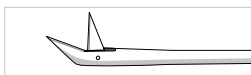


100-710-023 aufgebogen/curved upwards

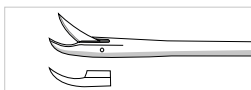
Mini-Scherchen, extra fein, konischer Rohrschaft, Nutzlänge 230 mm
Miniature Scissors, very delicate, conical tubular shaft, working length 9 inch



100-710-050 gerade/straight



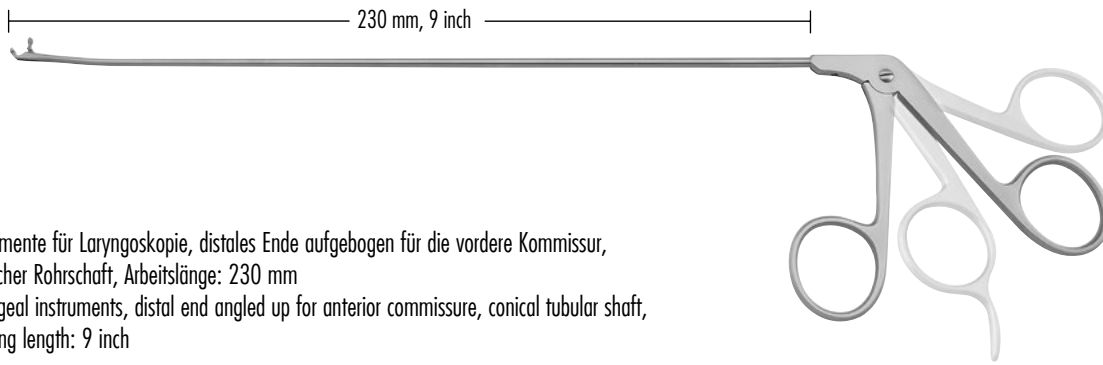
100-710-051 45° aufgebogen/angled 45°



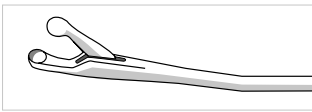
100-710-052 nach rechts gebogen/curved right



100-710-053 nach links gebogen/curved left



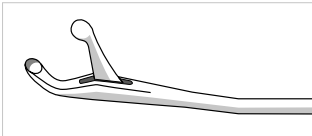
Instrumente für Laryngoskopie, distales Ende aufgebogen für die vordere Kommissur, konischer Rohrschaft, Arbeitslänge: 230 mm
Laryngeal instruments, distal end angled up for anterior commissure, conical tubular shaft, working length: 9 inch



Löffelzängchen/cupped forceps, $\varnothing$ 2.0 mm

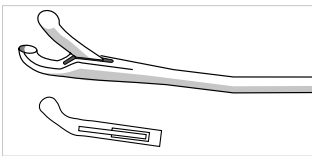
100-715-001 gerade/straight

100-725-001 gerade, Daumenkontrolle/straight, thumb control



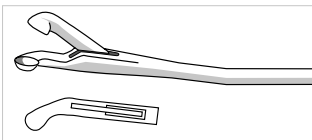
100-715-002 aufgebogen/curved upwards

100-725-002 aufgebogen, Daumenkontrolle/curved upwards, thumb control



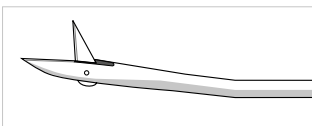
100-715-003 nach rechts gebogen/curved right

100-725-003 nach rechts gebogen, Daumenkontrolle/curved right, thumb control



100-715-004 nach links gebogen/curved left

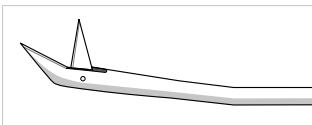
100-725-004 nach links gebogen, Daumenkontrolle/curved left, thumb control



Schere/Scissors

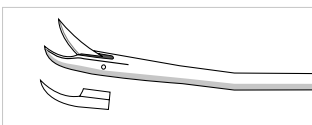
100-715-005 gerade/straight

100-725-005 gerade, Daumenkontrolle/straight, thumb control



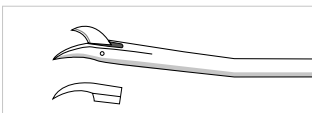
100-715-006 45° aufgebogen/45° angled upwards

100-725-006 45° aufgebogen, Daumenkontrolle/45° angled upwards, thumb control



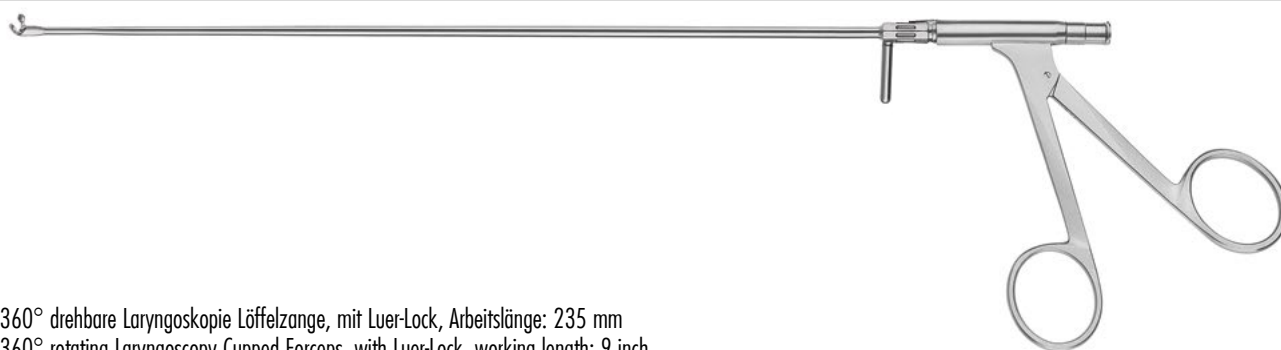
100-715-007 nach rechts gebogen/curved right

100-725-007 nach rechts gebogen, Daumenkontrolle/curved right, thumb control



100-715-008 nach links gebogen/curved left

100-725-008 nach links gebogen, Daumenkontrolle/curved left, thumb control



360° drehbare Laryngoskopie Löffelzange, mit Luer-Lock, Arbeitslänge: 235 mm
360° rotating Laryngoscopy Cupped Forceps, with Luer-Lock, working length: 9 inch



100-700-501 2mm
gerade/straight



100-700-503 2mm
rechts gebogen/curved right



100-700-502 2mm
aufgebogen/curved upwards



100-700-504 2mm
links gebogen/curved left

100-700-511 1mm
gerade/straight

100-700-513 1mm
rechts gebogen/curved right

100-700-512 1mm
aufgebogen/curved upwards

100-700-514 1mm
links gebogen/curved left

360° drehbare Laryngoskopie Fasszange, mit Luer-Lock, Arbeitslänge: 235 mm
360° rotating Laryngoscopy Grasping Forceps, with Luer-Lock, working length: 9 inch



100-700-520
gerade/straight



100-700-521
rechts gebogen/curved right



100-700-522
links gebogen/curved left



100-700-523
aufgebogen/curved upwards



100-700-524
aufgebogen/curved upwards

360° drehbare Laryngoskopie Schere, mit Luer-Lock, Arbeitslänge: 235 mm
360° rotating Laryngoscopy Scissors, with Luer-Lock, working length: 9 inch



100-700-550
gerade/straight



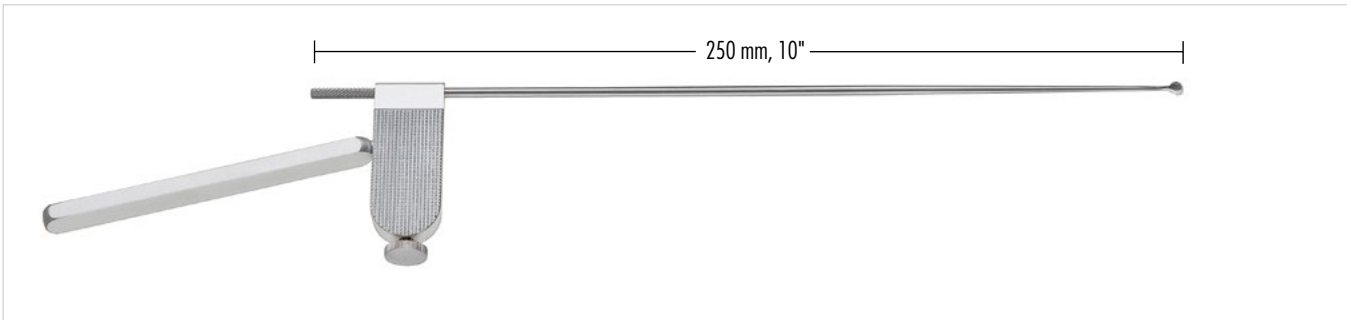
100-700-552
rechts gebogen/curved right



100-700-551
aufgebogen/curved upwards



100-700-553
links gebogen/curved left



100-850-001 - 100-850-012

Instrumente zur endolaryngealen Mikrochirurgie, Gesamtlänge: 250 mm

Laryngeal Instruments for Microsurgery, total length: 10"



100-850-000

Handgriff, alleine
Handle, only



100-850-001 Messer, rund, $\varnothing$ 2,5 mm, 45° abgewinkelt
Knife, round, $\varnothing$ 2.5 mm, 45° angled



100-850-002 Messer, rund, vertikal schneidend
Knife, round, vertical cutting



100-850-003 Messer, oval, gerade
Knife, oval, straight



100-850-004 Messer, sichelförmig
Knife, sickle shaped



100-850-005 Messer, golfstockförmig
Knife, golfstick shaped



100-850-006 Häkchen, stumpf, mit Sondenknopf
Hook, blunt, with probe end



100-850-007 Häkchen, scharf
Hook, sharp



100-850-008 Unterbindungsnaedel, nach rechts gebogen
Ligature Needle, curved to right



100-850-009 Unterbindungsnaedel, nach links gebogen
Ligature Needle, curved to left



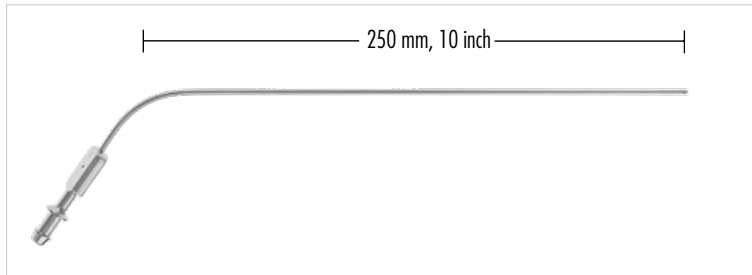
100-850-010 Saugelevator
Elevator with suction channel



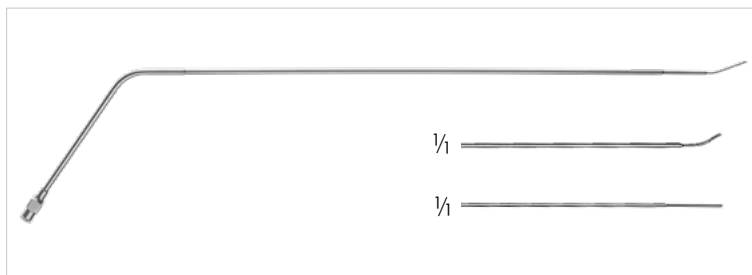
100-850-011 Knotenführer
Knot guide



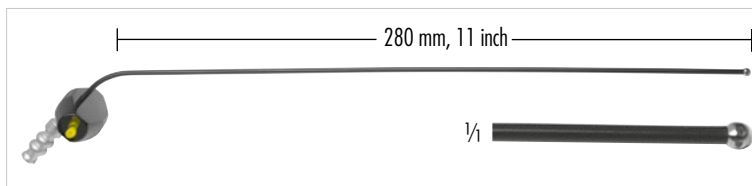
100-850-012 Häkchen, 90°, mit Sondenknopf
Hook with probe end, 90° angled



100-860-020 ø 2.0 mm
 100-860-025 ø 2.5 mm
 100-860-030 ø 3.0 mm
 Saugrohr, Arbeitslänge: 250 mm
 Suction tube, working length: 10 inch



100-861-001 gebogene Spitze/curved tip
 100-861-002 gerade Spitze/straight tip
 Injektionsnadel, mit Luer-Lock
 Injection needle, with Luer-Lock



100-862-030 2,5 mm, 280 mm, 11 inch
 100-864-030 5,0 mm, 270 mm, 10 1/2 inch

Saug- und Koagulationsrohr, **isoliert**, mit monopolarer Anschluß, abgewinkelt

Insulated cannula for suction and coagulation, **insulated**, with monopolar connection, angled



100-870-000 Fig. 0, für Kinder/ for children
 100-870-001 Fig. 1
 100-870-002 Fig. 2
 100-870-003 Fig. 3

Zahnschutz aus Metall
 Teeth protector, metal



100-870-100
 Zahnschutz aus Silikon, autoklavierbar
 Teeth protector, silicone, autoclavable

BIPOLAR CABLES



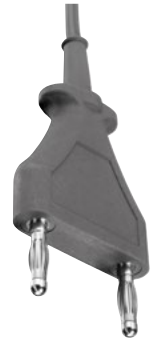
2-banana-pin *



Erbe



Martin, Berchtold,
Aesculap GK55 + sGK60



Valleylab, Lamidey, EMC



3m	700-350-030	700-101-001	700-287-030	700-351-031
5m	700-350-050	700-101-000	700-287-050	700-351-051

3m	700-350-130	700-101-130	700-287-130	700-351-131
5m	700-350-150	700-101-150	700-287-150	700-351-151

MONOPOLAR CABLES



1 banana pin 4mm



Martin, Berchtold,
Aesculap GK55 + sGK60



Erbe



Valleylab, Lamidey,
EMC



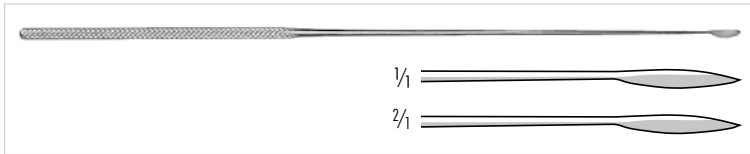
RZ HF Unit
Standard Plug



round-plug 4mm (instrument side)

3m	700-280-030	700-285-030	700-101-030	700-360-031	700-501-303
5m	700-280-050	700-285-050	700-101-050	700-360-051	700-501-503

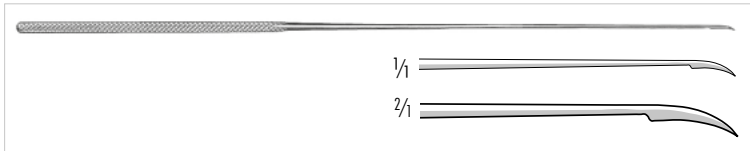
* Innerhalb Europas nicht mit CE-Markierung erhältlich
Not available with CE marking within Europe



100-853-295

JAKO-TYPE

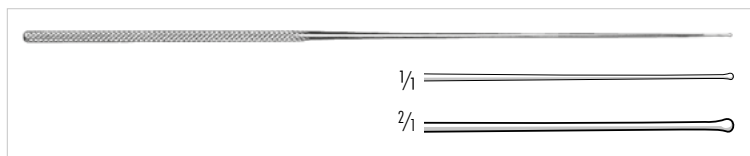
Laryngeal Messer, gerades Blatt, Klingenlänge: 8 mm, 295 mm
 Laryngeal knife, straight blade, blade length: 8 mm, 11 3/4 inch



100-854-295

JAKO-TYPE

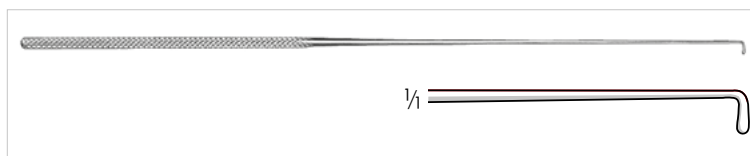
Laryngeal Sichelmesser, Klingenlänge: 8 mm, 295 mm
 Laryngeal sickle knife, blade length: 8 mm, 11 3/4 inch



100-855-300

JAKO-TYPE

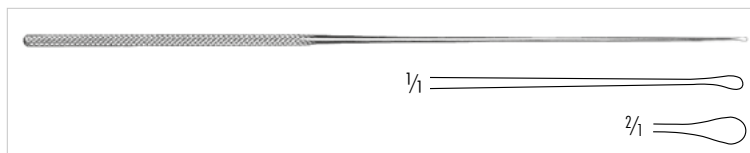
Laryngeal Sonde, gerade, Arbeitslänge: 220 mm, 295 mm
 Laryngeal probe, straight, working length: 8 1/2 inch, 11 3/4 inch



100-856-300

JAKO-TYPE

Laryngeal Sonde, 90° abgewinkelt, Arbeitslänge: 220 mm, 295 mm
 Laryngeal probe, 90° angled, working length: 8 1/2 inch, 11 3/4 inch



100-857-300

JAKO-TYPE

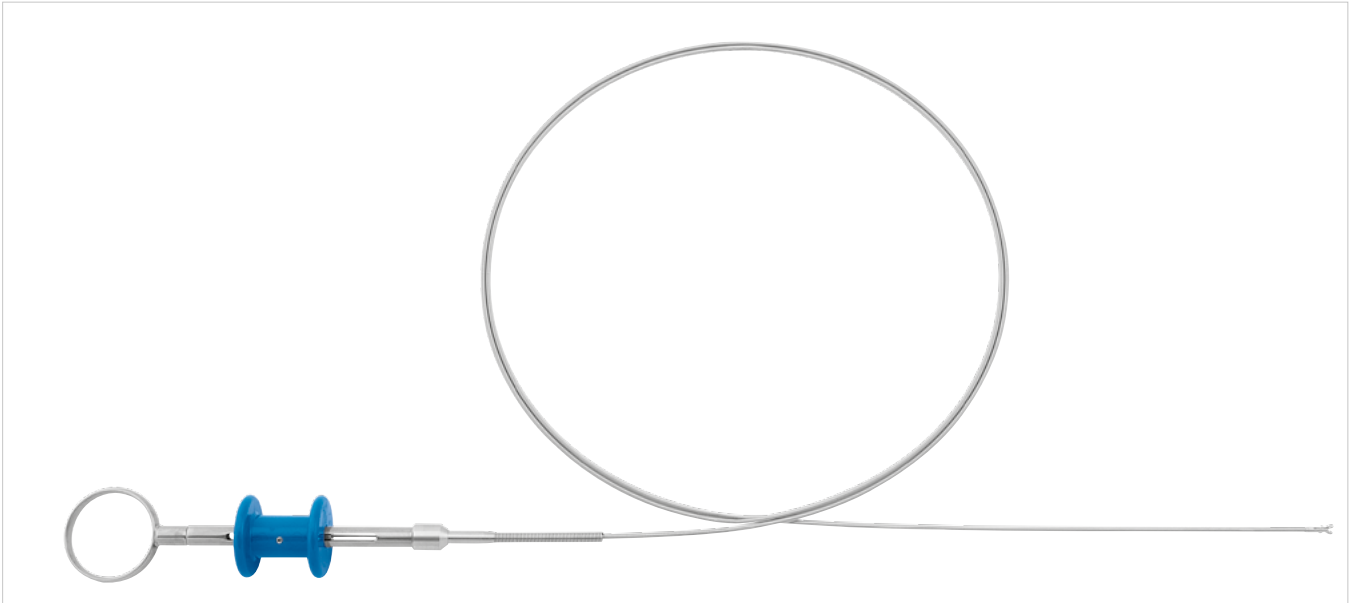
Mikro Dissektor, stumpf, 4 mm breit, Gesamtlänge: 295 mm
 Micro dissector, blunt, 4 mm wide, 11 3/4 inch



100-860-300

JAKO-TYPE

Mikro Laryngeal Haken mit Daumengriff,
 90° abgewinkelt, 4 mm lang, 295 mm
 Micro laryngeal probe with thumbhandle,
 90° angled, 4 mm long, 11 3/4 inch



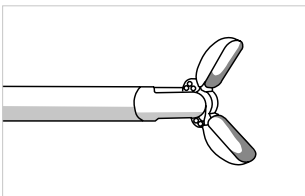
100-518-090 - 100-723-090

Flexible Biopsie- und Faßzangen, für flexible Endoskope,
doppelbewegliche Maulteile, voll sterilisierbar

Flexible Biopsy- and Grasping forceps, for flexible Endoscopes,
double-action jaws, totally autoclavable

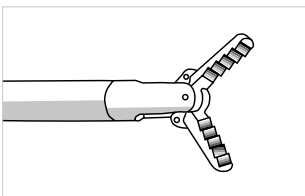
Biopsiezange, runder Löffel/Biopsy forceps, round cup

Biopsiezange, ovaler Löffel/Biopsy forceps, oval cup

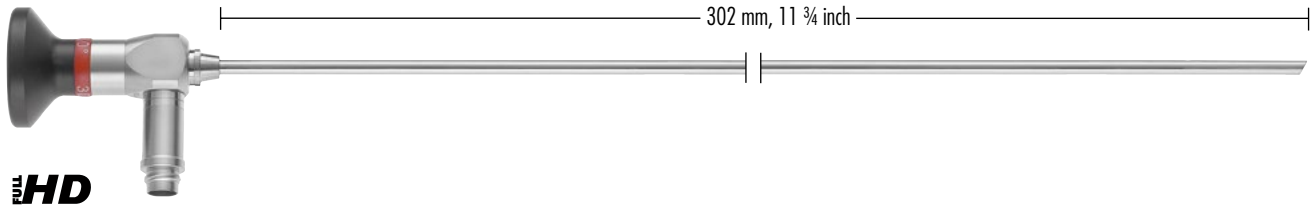


100-601-075	750 mm, 1,0 mm Ø
100-618-090	900 mm, 1,8 mm Ø
100-623-090	900 mm, 2,3 mm Ø
100-618-120	1200 mm, 1,8 mm Ø
100-623-120	1200 mm, 2,3 mm Ø

Faßzange mit Hechtnmaul/Alligator grasping forceps



100-701-075	750 mm, 1,0 mm Ø
100-718-090	900 mm, 1,8 mm Ø
100-723-090	900 mm, 2,3 mm Ø
100-718-120	1200 mm, 1,8 mm Ø
100-723-120	1200 mm, 2,3 mm Ø

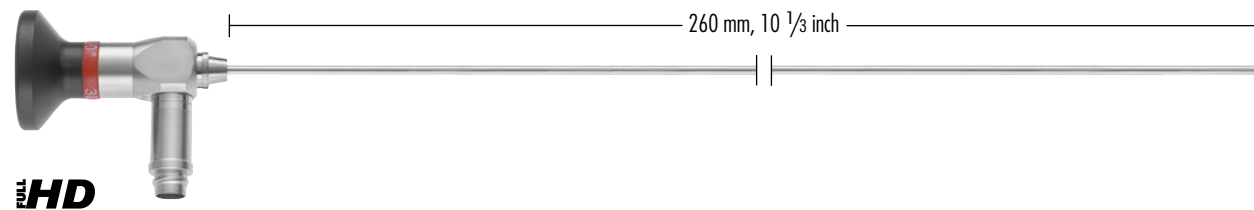


100-604-000

Bronchoskop, starr, 0°, ø 4 mm, autoklavierbar, Nutzlänge 302 mm
 Bronchoscope, rigid, 0°, ø 4 mm, autoclavable, working length 11 3/4 inch

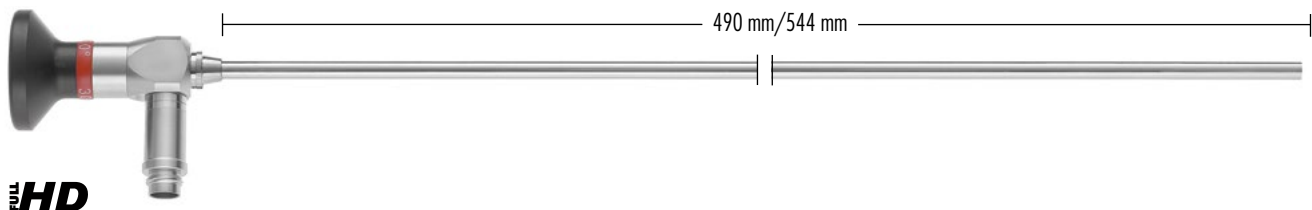
100-604-030

Bronchoskop, starr, 30°, 4 mm ø, autoklavierbar, Nutzlänge 302 mm
 Bronchoscope, rigid, 30°, 4 mm ø, autoclavable, working length 11 3/4 inch



100-627-000

Bronchoskop, starr, 0°, ø 2,7 mm, autoklavierbar, Nutzlänge 260 mm
 Bronchoscope, rigid, 0°, ø 2.7 mm, autoclavable, working length 10 1/3 inch



100-655-000 Nutzlänge 490 mm/working length 19 1/3 inch

Bronchoskop, starr, 0°, ø 5,5 mm, autoklavierbar

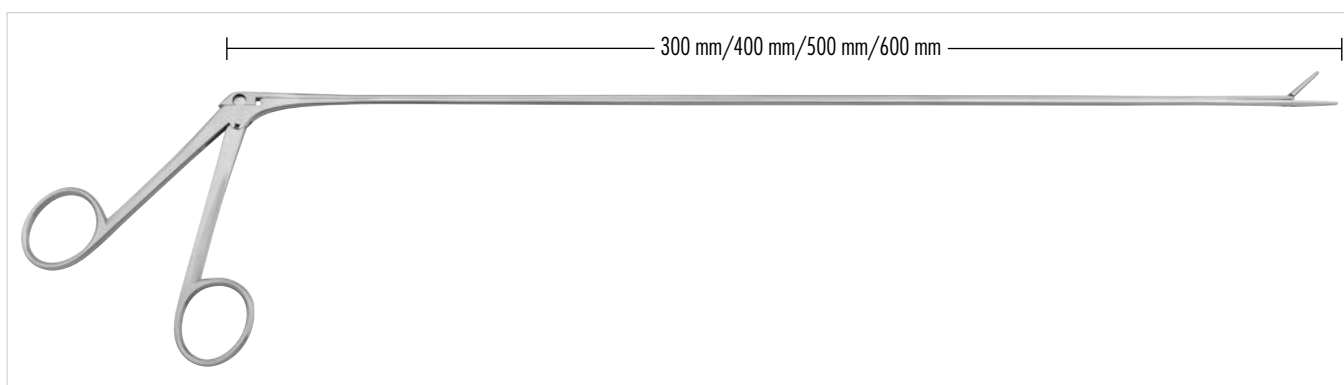
Bronchoscope, rigid, 0°, ø 5.5 mm, autoclavable

100-655-030 Nutzlänge 490 mm/working length 19 1/3 inch

100-655-130 Nutzlänge 544 mm/working length 21 1/3 inch

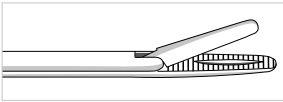
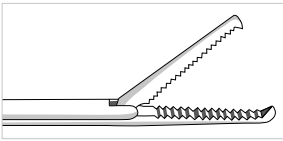
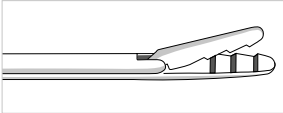
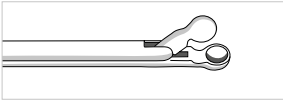
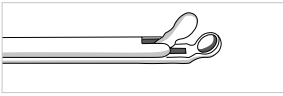
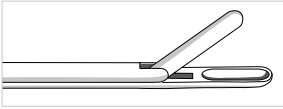
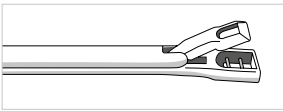
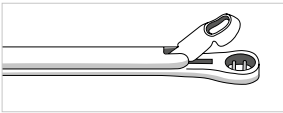
Bronchoskop, starr, 30°, ø 5,5 mm, autoklavierbar

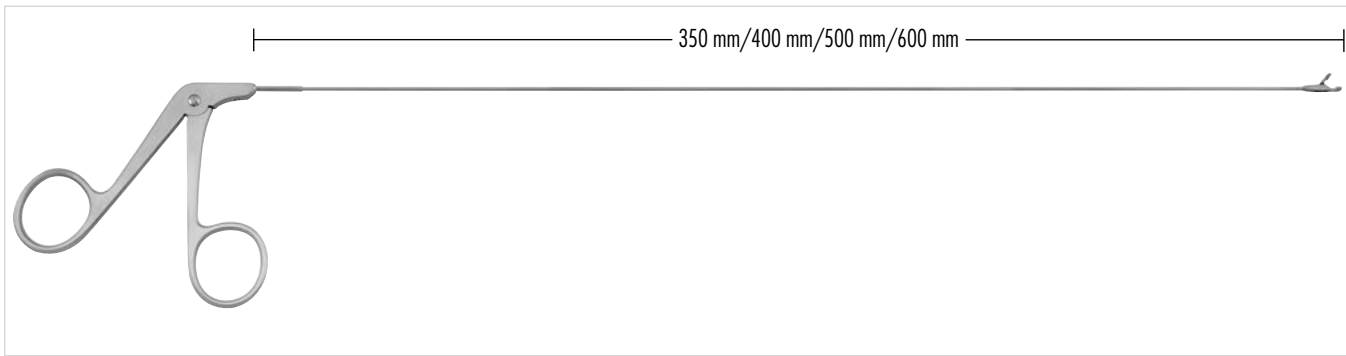
Bronchoscope, rigid, 30°, ø 5.5 mm, autoclavable

**JACKSON**

Broncho-Oesophagoskopie-Zangen und Biopsiezangen mit **Schieberschaft**, obere Maulteile beweglich

Broncho-oesophagoscopic forceps and Biopsy forceps with **sliding-shaft**, upper jaws moveable

		Schaftlänge/shaft-length			
		300 mm/12 inch	400 mm/15 ¾ inch	500 mm/19 ½ inch	600 mm/23 ½ inch
	gerieft/ serrated	100-750-301	100-750-401	100-750-501	100-750-601
	1x2 Zähne 1x2 teeth	100-750-302	100-750-402	100-750-502	100-750-602
	Alligator Zähne Alligator teeth	100-750-303	100-750-403	100-750-503	100-750-603
	Löffelmaul gerade Cupped jaws, straight	Ø 2 mm 100-750-304 Ø 4 mm 100-750-305	100-750-404 100-750-405	100-750-504 100-750-505	100-750-604 100-750-605
	Löffelmaul aufgebogen Cupped jaws, upcurved	Ø 2 mm 100-750-306 Ø 4 mm 100-750-307	100-750-406 100-750-407	100-750-506 100-750-507	100-750-606 100-750-607
	Löffelmaul, länglich, gerade Löffelmaul, oblong, straight	100-750-308	100-750-408	100-750-508	100-750-608
	Stanzenmaul, eckig Punch jaw, angular	100-750-309	100-750-409	100-750-509	100-750-609
	Stanzenmaul, rund Punch jaw, round	100-750-310	100-750-410	100-750-510	100-750-610



Laryngo-Broncho-Oesophagoskopiezangen, mit **Rohrschaft**
Broncho-Oesophagoscopic forceps, with **tubular shaft**

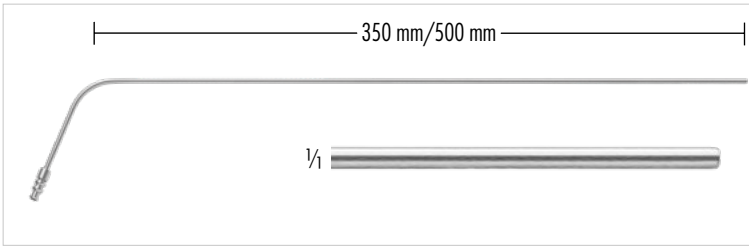
		Schaftstärke/shaft ø 2.5 mm			Kinder/children ø 1.5 mm
	Schaftlänge/shaft-length	400 mm/15 ¾ inch	500 mm/19 ½ inch	600 mm/23 ½ inch	350 mm/13 ¾ inch
	Stanzmaul/Punch jaw	100-720-401	100-720-501	100-720-601	100-720-301
	Fasszange, gerieft Grasping Forceps, serrated	100-720-402	100-720-502	100-720-602	100-720-302
	Fasszange, gerieft, gefenestert Grasping Forceps, serrated, fenestrated	100-720-403	100-720-503	100-720-603	100-720-303
	Alligator Zähne Alligator teeth	100-720-404	100-720-504	100-720-604	100-720-304
	Löffelmaul, gerade Cupped Forceps, straight	100-720-405	100-720-505	100-720-605	100-720-305
	Löffelmaul, horizontal aufgebogen Cupped Forceps, horizontal upcurved	100-720-406	100-720-506	100-720-606	100-720-306
	Löffelmaul, vertikal aufgebogen Cupped Forceps, vertical upcurved	100-720-407	100-720-507	100-720-607	100-720-307
	Löffelmaul, rechts gebogen Cupped Forceps, right curved	100-720-408	100-720-508	100-720-608	100-720-308
	Löffelmaul, links gebogen Cupped Forceps, left curved	100-720-409	100-720-509	100-720-609	100-720-309
	Löffelmaul, länglich, gerade Cupped Forceps, oblong, straight	100-720-410	100-720-510	100-720-610	
	Löffelmaul, oval, gerade Cupped Forceps, oval, straight	100-720-411	100-720-511	100-720-611	
	Löffelmaul, oval, gerade Cupped Forceps, oval, straight	100-720-412	100-720-512	100-720-612	100-720-312
	Löffelmaul, oval, gezahnt gerade Cupped Forceps, oval, serrated, straight	100-720-413	100-720-513	100-720-613	100-720-313



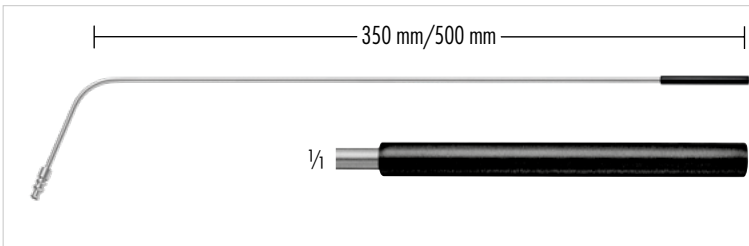
100-720-001 - 100-720-034

Bronchoskopiezangen, **Rohrschaft**, beide Maulteile beweglichBronchoscopy forceps, **tubular shaft**, double-action jaws

		Schacht Ø / shaft Ø		Schachtlänge/shaft-length	
		250 mm/10 inch		350 mm/13¾ inch	500 mm/19¾ inch
	Fremdkörperzange mit Hechtmaul Foreign body forceps alligator jaws	2,0 mm	100-720-001	100-720-011	—
	Universal Biopsie- und Faßzange Universal biopsy and grasping forceps	2,0 mm	100-720-002	100-720-012	—
	Löffelzange, rund, gerade Biopsy cup forceps, straight, round cup	2,0 mm	100-720-003	100-720-013	—
	Faßzange mit gefensterter Maul Grasping forceps with fenestrated jaws	2,0 mm	100-720-004	100-720-014	—
	Fremdkörperzange mit Hechtmaul Foreign body forceps alligator jaws	2,5 mm	—	100-720-021	100-720-031
	Universal Biopsie- und Faßzange Universal biopsy and grasping forceps	2,5 mm	—	100-720-022	100-720-032
	Löffelzange, rund, gerade Biopsy cup forceps, straight, round cup	2,5 mm	—	100-720-023	100-720-033
	Faßzange mit gefensterter Maul Grasping forceps with fenestrated jaws	2,5 mm	—	100-720-024	100-720-034

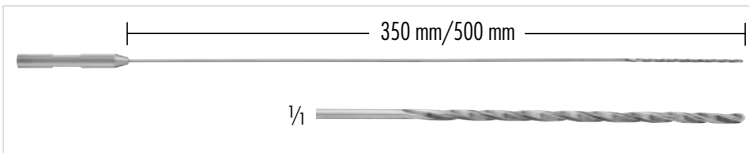


100-850-350 350mm/13 ¾ inch
100-850-500 500mm/19 ¾ inch
 Saugrohr
 Rigid suction tube



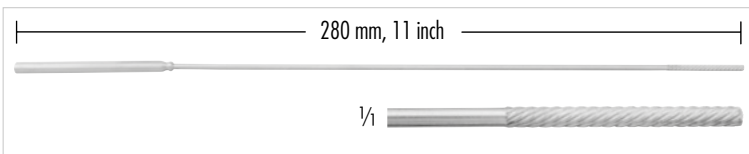
100-852-350
 Saugrohr, mit flexibler Gummispitze, 350 mm lang
 Rigid suction tube, with flexible rubber tip, 13 ¾ inch long

100-852-500
 Saugrohr, mit flexibler Gummispitze, 500 mm lang
 Rigid suction tube, with flexible rubber tip, 19 ¾ inch long

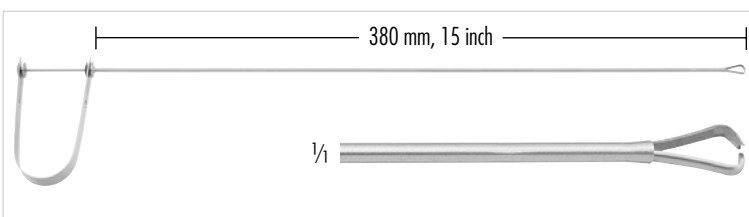


100-854-350
 Watteträger, Nutzlänge 350 mm
 Cotton carrier, working length 13 ¾ inch

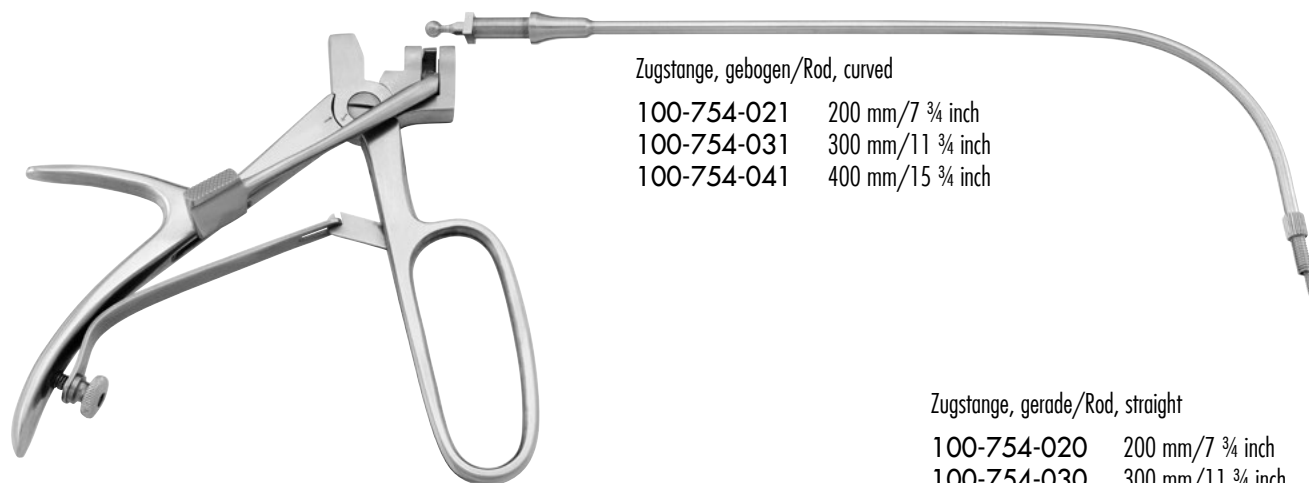
100-854-500
 Watteträger, Nutzlänge 500 mm
 Cotton carrier, working length 19 ¾ inch



100-864-280
 Watteträger, spiralförmig gerieft, ø 2,5 mm, Länge 280 mm
 Cotton applicator, twist end serrated, ø 2.5 mm, length 11 inch



100-856-380
 Tupferhalter, 1 x 2 Zähne, Arbeitslänge: 380 mm
 Sponge holder, 1 x 2 treeth, working length: 15 inch



Zugstange, gebogen/Rod, curved

100-754-021	200 mm/7 ¾ inch
100-754-031	300 mm/11 ¾ inch
100-754-041	400 mm/15 ¾ inch

HUBER Griff/Handle 100-754-000

Zugstange, gerade/Rod, straight

100-754-020	200 mm/7 ¾ inch
100-754-030	300 mm/11 ¾ inch
100-754-040	400 mm/15 ¾ inch



Aufsätze/Jaw tip



BARICANI
100-754-016 Faßzange/Grasping Forceps



LANGE Löffelzange/Cupped Forceps
100-754-009 Size 1
100-754-018 Size 2
100-754-005 Size 3



100-754-003 Faßzange mit Alligator Zähnen
Grasping Forceps with alligator teeth



FRAENKEL
100-754-017 Löffelzange, länglicher Löffel
Cupped Forceps, long cups



BRUENINGS Löffelzange, rund
Cupped Forceps, round
100-754-014 Size 1
100-754-004 Size 2
100-754-024 Size 3



SCHEINMANN
100-754-019 Löffelzange, abgewinkelt
Cupped Forceps, angled



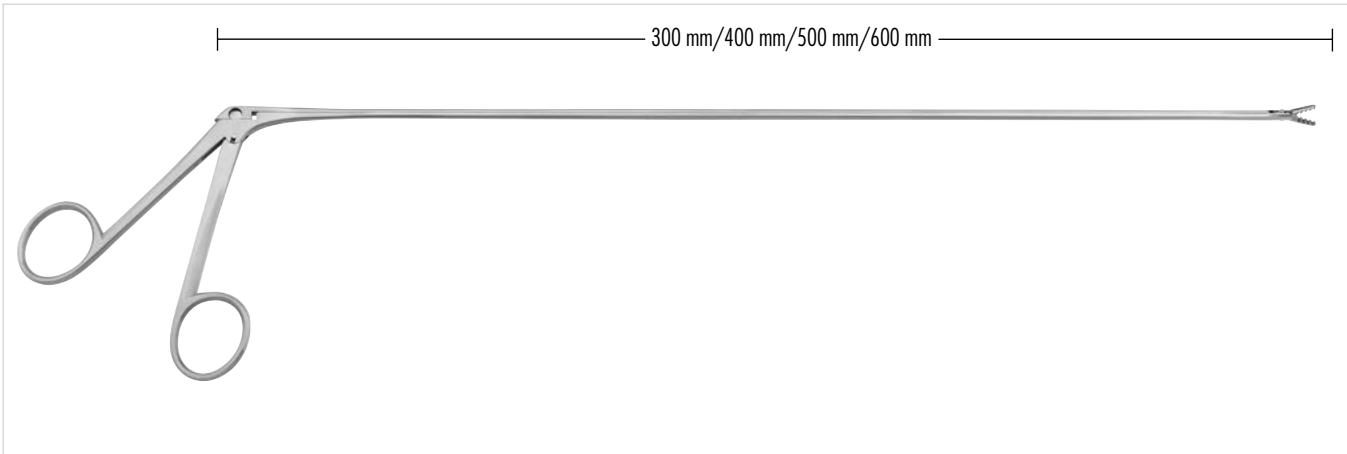
KRAUSE Biopsie Stanze, oval, durchschneidend
Biopsy punch, oval, through cutting
100-754-008 Size 1
100-754-026 Size 2
100-754-027 eckig/angular, Size 1
100-754-007 eckig/angular, Size 2



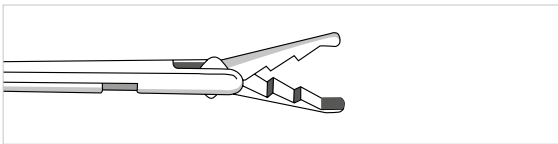
SCHUHMACHER
100-754-028 Biopsie Stanze, dreieckig,
mit ziehendem Schnitt
Biopsy punch, triangular,
with pull cutting



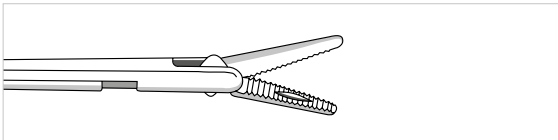
CORDES Stanze/Punch
100-754-029 rund/round
100-754-032 eckig/angular

**CHEVALIER-JACKSON**

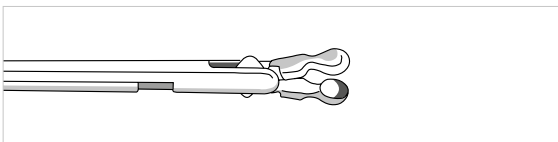
Bronchoskopie Zangen, **Schieberschaft**, doppelbewegliche Maulteile
 Bronchoscopy forceps, **sliding-shaft**, double-moving jaws

**Hechtnmaul/Alligator jaw****Länge/Length**

100-755-305	300 mm/11 ³ / ₄ inch
100-755-405	400 mm/15 ³ / ₄ inch
100-755-505	500 mm/19 ³ / ₄ inch
100-755-605	600 mm/23 ² / ₃ inch

**Faßzange, gerieftes Maul/Grasping forceps, serrated jaw**

100-755-304	300 mm/11 ³ / ₄ inch
100-755-404	400 mm/15 ³ / ₄ inch
100-755-504	500 mm/19 ³ / ₄ inch
100-755-604	600 mm/23 ² / ₃ inch

**Löffelzange/Cupped forceps**

100-755-310	300 mm/11 ³ / ₄ inch
100-755-410	400 mm/15 ³ / ₄ inch
100-755-510	500 mm/19 ³ / ₄ inch
100-755-610	600 mm/23 ² / ₃ inch



Erwachsene / Adult

Optische Bronchoskopie Zangen für Bronchoskope 8,5 - 7,5mm
Optical Bronchoscopy forceps for Bronchoscopes 8.5 - 7.5mm

**HD**

100-655-100 Nutzlänge 540 mm/working length 21 1/3 inch
Bronchoskop, starr, 0°, ø 5,5 mm, autoklavierbar
Bronchoscope, rigid, 0°, ø 5.5 mm, autoclavable

100-655-130 Nutzlänge 540 mm/working length 21 1/3 inch
Bronchoskop, starr, 30°, ø 5,5 mm, autoklavierbar
Bronchoscope, rigid, 30°, ø 5.5 mm, autoclavable

100-655-000 Nutzlänge 490 mm/working length 19 1/3 inch
Bronchoskop, starr, 0°, ø 5,5 mm, autoklavierbar
Bronchoscope, rigid, 0°, ø 5.5 mm, autoclavable

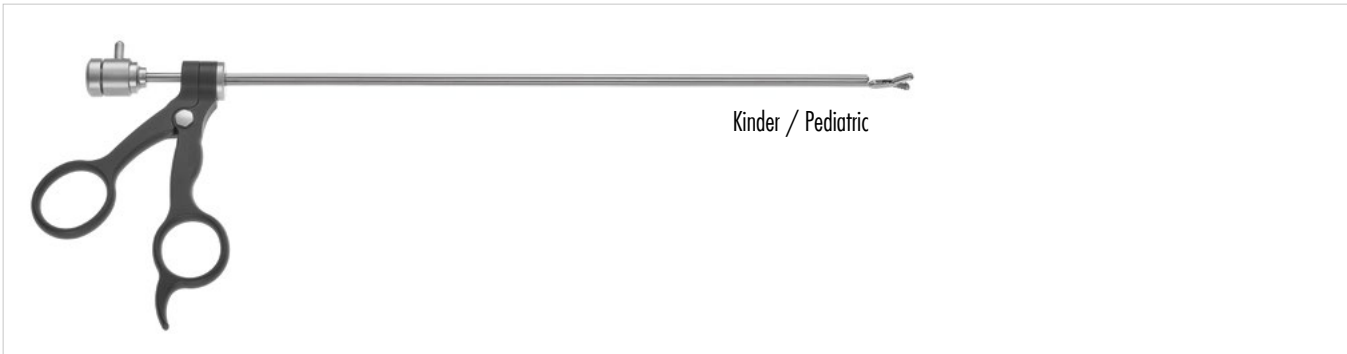
100-655-030 Nutzlänge 490 mm/working length 19 1/3 inch
Bronchoskop, starr, 30°, ø 5,5 mm, autoklavierbar
Bronchoscope, rigid, 30°, ø 5.5 mm, autoclavable



100-900-228 Fasszange
Grasping Forceps



100-900-207 Fremdkörperzange
Foreignbody Forceps



Optische Bronchoskopie Zangen für Bronchoskope 6 - 3,5 mm
Optical Bronchoscopy forceps for Bronchoscopes 6 - 3.5 mm



100-629-000 Nutzlänge 300 mm/working length 12 inch
Bronchoskop, starr, 0°, ø 2,9 mm, autoklavierbar
Bronchoscope, rigid, 0°, ø 2.9 mm, autoclavable



100-900-215 Schere, doppelbeweglich
Scissors, double action