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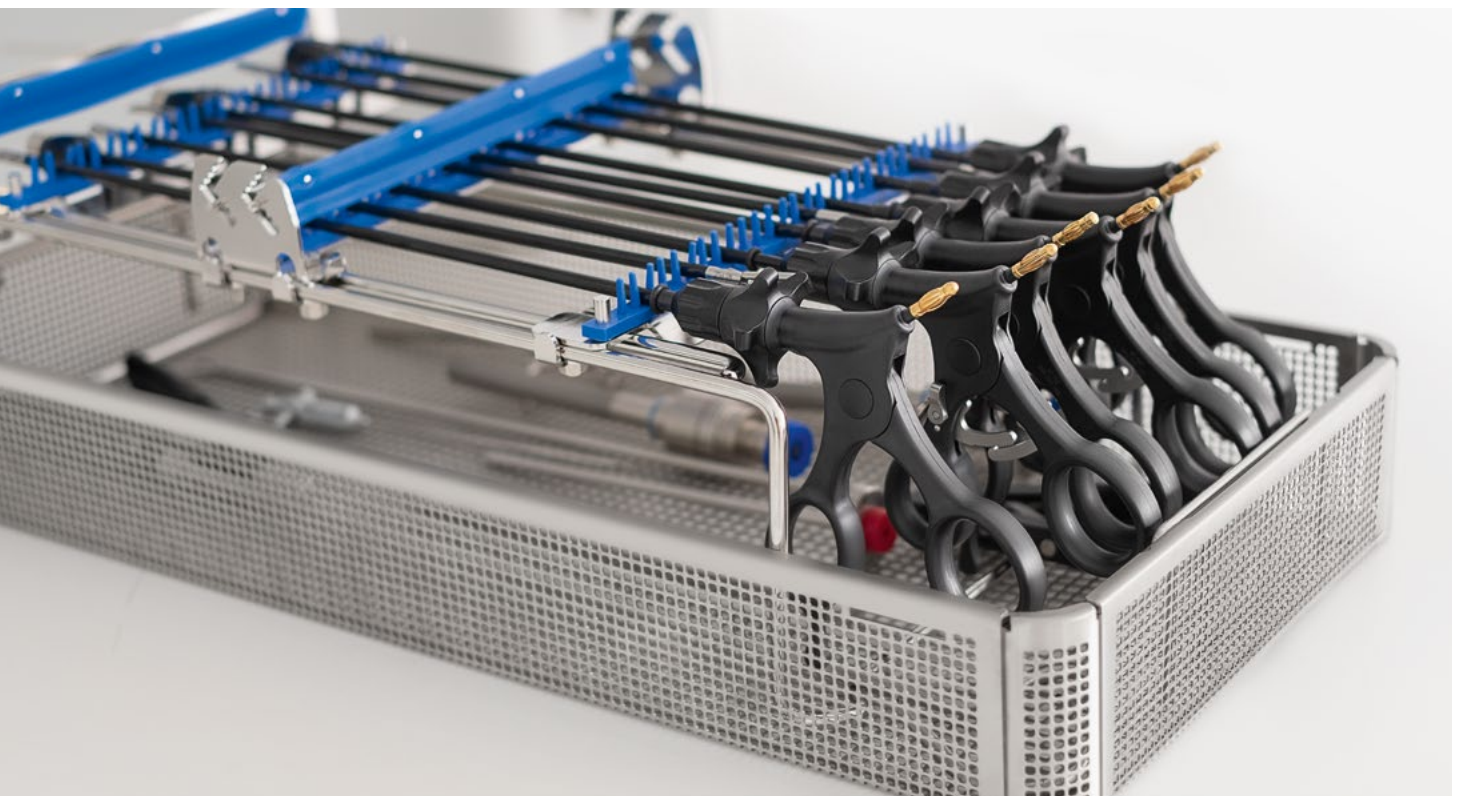
CONTAINER SETS

Small Incision, fast recovery.

Innovations in high-precision instrumentation or high class optical scopes we offer a broad spectrum of laparoscopic instruments and devices for your minimal invasive surgeries.

We work hand-in-hand with clinical partners and produce under high quality standards in Germany which makes our instrument your choice for minimally invasive surgery.

Our portfolio includes instruments and trocars as well as different specialties, endoscopes and advanced energy solutions. Together with our clinical partners we have defined a complete Laparoscopic Set which fulfill the requirements for minimal invasive surgery from the first cut till the last stitch.



CONTAINER SET #1

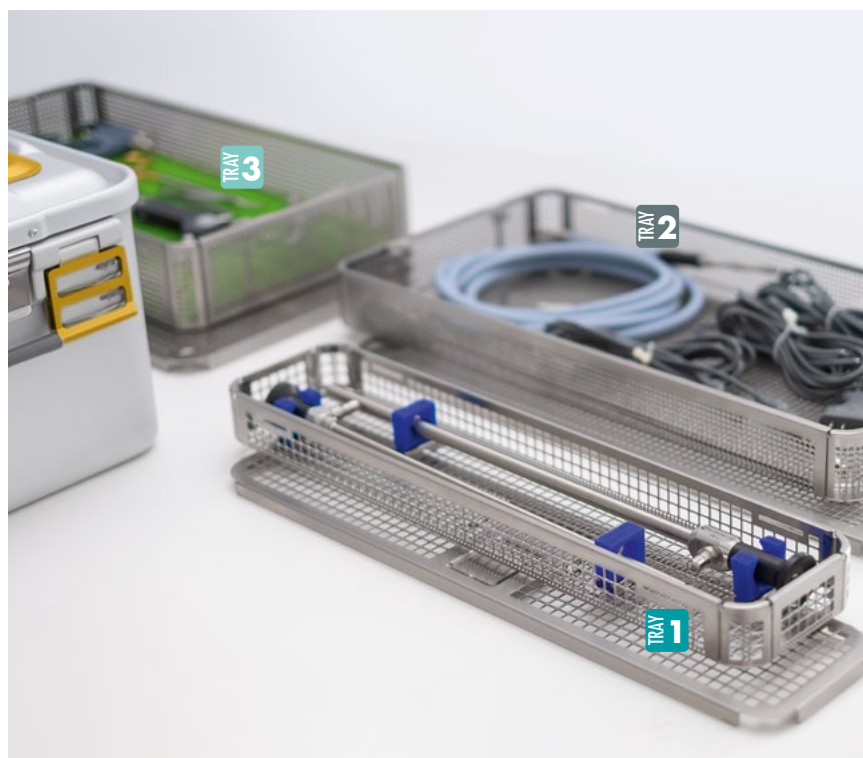
Grasping and Dissecting Forceps, Needle Holders, Scissors, Trocars and other specialities makes the first Container fully equipped with the instruments you need.
Open the tray and start working without missing your favorite instrument.

300-900-902 (Set #1 + Set #2)



CONTAINER SET #2

The second container includes high class scopes, instruments, monopolar and bipolar solutions and many accessories.
Everything stored in trays for easy cleaning and reprocessing.
Your CSSD department will like it.



CONTAINER SET #1

	Reducer Sleeve $\varnothing$ 10 - 5mm, 190mm	300-012-455	1 pc.
	Reducer Sleeve $\varnothing$ 5 - 4mm, 175mm, red	300-012-405	1 pc.
	Reducer Clip, for all modular trocar sleeves, 11.0 / 5.5mm	300-021-011	1 pc.
	Veress Needle, $\varnothing$ 2mm, 120mm chrome, matt	300-195-120	1 pc.
	Multiport Multifunctional Trocar System $\varnothing$ 11mm, 105mm working length blue metal trocar sleeve, smooth, oblique	300-222-011	2 pcs.
	Multiport Multifunctional Trocar System $\varnothing$ 13mm, 102mm working length green metal trocar sleeve, smooth, oblique	300-222-013	1 pc.
	Multiport Multifunctional Trocar System $\varnothing$ 5.5mm, 103mm working length white metal trocar sleeve, smooth, oblique	300-222-055	3 pcs.
	Trocar, $\varnothing$ 11mm, pyramidal tip for 300-22X-011 & 300-23X-011	300-241-011	1 pc.
	Trocar, $\varnothing$ 13mm, triangular, for 300-22X-013 & 300-23X-013	300-241-013	1 pc.
	Trocar, $\varnothing$ 5.5mm, triangular, for 300-22X-055 & 300-23X-055	300-241-055	1 pc.
	Dick III Lightweight Needle Holder, TC, $\varnothing$ 5mm, straight handle, 330mm working length, left curved jaw	300-300-140	1 pc.
	Dick III Lightweight Needle Holder, TC, $\varnothing$ 5mm, straight handle, 330mm working length, right curved jaw	300-300-141	1 pc.

	Bullnose Grasping Forceps, heavy insert, deep serrated, double action Ø 5mm, 330mm working length, complete*	300-460-001	1 pc.
	Martin Grasping Forceps, multiple serrated, 4.8mm wide, single action Ø 5mm, 330mm working length, complete*	300-460-011	1 pc.
	Gripper #1 Grasping Forceps, fenestrated coarse serrated, double action Ø 5mm, 330mm working length, complete*	300-460-017	1 pc.
	Hook Scissors, round cutting blade, single action Ø 5mm, 330mm working length, complete*	300-420-060	1 pc.
	Metzenbaum Scissors, slightly curved 12mm short blade, double action Ø 5mm, 330mm working length, complete*	300-420-067	1 pc.
	Johans Grasping Forceps, 20mm fenestrated, double action Ø 5mm, 330mm working length, complete*	300-470-289	1 pc.
	Kelly Dissecting Forceps, cross-serrated slightly tapered, double action Ø 5mm, 330mm working length, complete*	300-420-732	1 pc.
	Dissecting & Grasping Forceps, right angled fine serrated, double action Ø 5mm, 330mm working length, complete*	300-420-735	1 pc.
	Articulating Triangular Retractor, straight, 60mm width, 330mm working length	300-069-000	1 pc.
	1/1 Sterilization Container, safety model, bottom non-perforated, yellow lid 580 x 280 x 200mm	600-580-205	1 pc.
	1/1 Stainless Steel Tray, perforated, 540 x 253 x 47mm	600-540-550	1 pc.
	Storage rack for MIS instruments	600-513-003	1 pc.



* complete MIC Instrument, consists of insert, handle and shaft

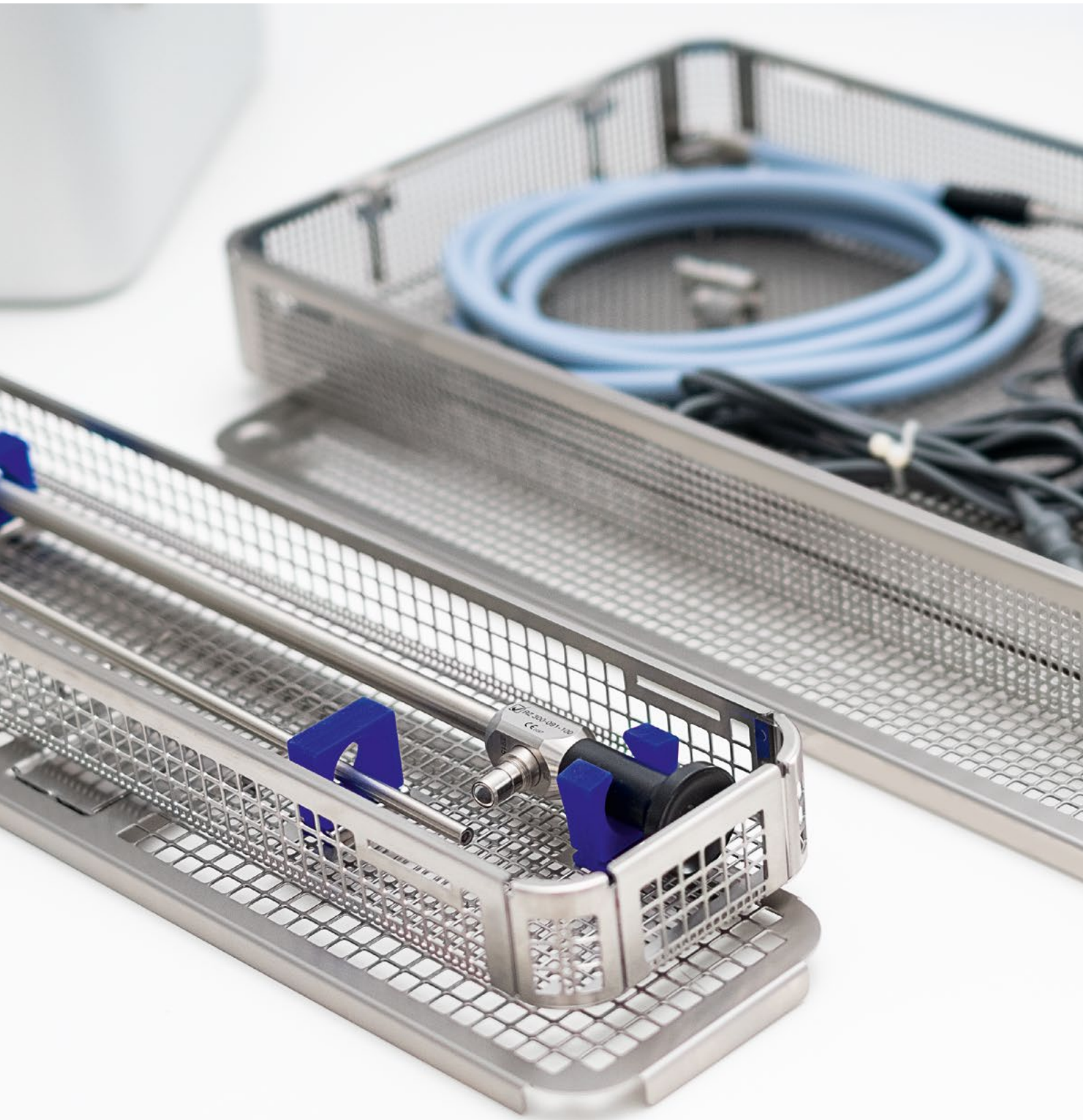
CONTAINER SET #2

	TRAY 1	Laparoscope, 0°, Ø 10mm, 330mm working length	300-091-100	1 pc.
	TRAY 1	Laparoscope, 30°, Ø 5mm, 302mm working length	300-092-130	1 pc.
	TRAY 2	Monopolar Electrode, ceramic tip Ø 5mm, 360mm, spatula shaped	300-144-002	1 pc.
	TRAY 2	Monopolar Electrode, ceramic tip Ø 5mm, 360mm, L-Hook	300-144-005	1 pc.
	TRAY 3	RZ Power Handle Bipolar Forceps, Ø 5mm, detachable, flat plug	300-860-134	1 pc.
	TRAY 3	Powergrip Bipolar Grasping Forceps Ø 5mm, 340mm	300-860-013	1 pc.
	TRAY 3	Powergrip Bipolar TC Metzenbaum Scissors Ø 5mm, 340mm	300-860-018	1 pc.
	TRAY 3	Powergrip Bipolar Maryland Forceps Ø 5mm, 340mm	300-860-019	1 pc.
	TRAY 2	HF Cable, monopolar Valleylab/Lamiday/EMC, 3m	700-360-031	3 pcs.
	TRAY 2	HF Cable, bipolar RZ/Valleylab/ Lamiday/EMC, 3m	700-351-131	1 pc.
	TRAY 2	Fibre Optic Light Guide Cable, Ø 4.8mm, 230cm	250-048-230	1 pc.

	TRAY 2	Adapter for fibre optic light guide RZ/Storz (unit)	250-039-000	1 pc.
	TRAY 2	Adapter for fibre optic light guide RZ/Storz (endoscope)	300-042-000	1 pc.
	TRAY 3	Knot Pusher with slit and eye, Ø 4mm, 330mm	300-030-001	1 pc.
	TRAY 3	Tobias Fascia Needle Holder, spring handle 2mm tip, 150mm	300-151-000	1 pc.
	TRAY 2	Suction/Irrigation Pistol Handle, 2-way-valve, 2x universal tube connector	300-166-100	1 pc.
	TRAY 2	Suction/Irrigation Tube Ø 5mm, 4x4 holes, 340mm working length	300-173-005	1 pc.
	TRAY 2	Suction/Irrigation Tube Ø 10mm, 4x4 holes, 340mm working length	300-173-010	1 pc.
	TRAY 3	Palpation Probe, graduated Ø 5mm, 330mm working length	300-193-335	1 pc.
	TRAY 3	Puncture and Injection Tube Ø 1.4mm tip, 20mm tip, Ø 5mm, 330mm working length	300-194-314	1 pc.
	TRAY 3	Scalpel Handle No. 3, 130mm	110-110-003	1 pc.
	TRAY 3	TC Metzenbaum Scissors, Fig. 1 curved, blunt/blunt, 145mm	120-511-145	1 pc.
	TRAY 3	Adson Tissue Forceps, 1x2 teeth, 120mm	130-140-120	1 pc.

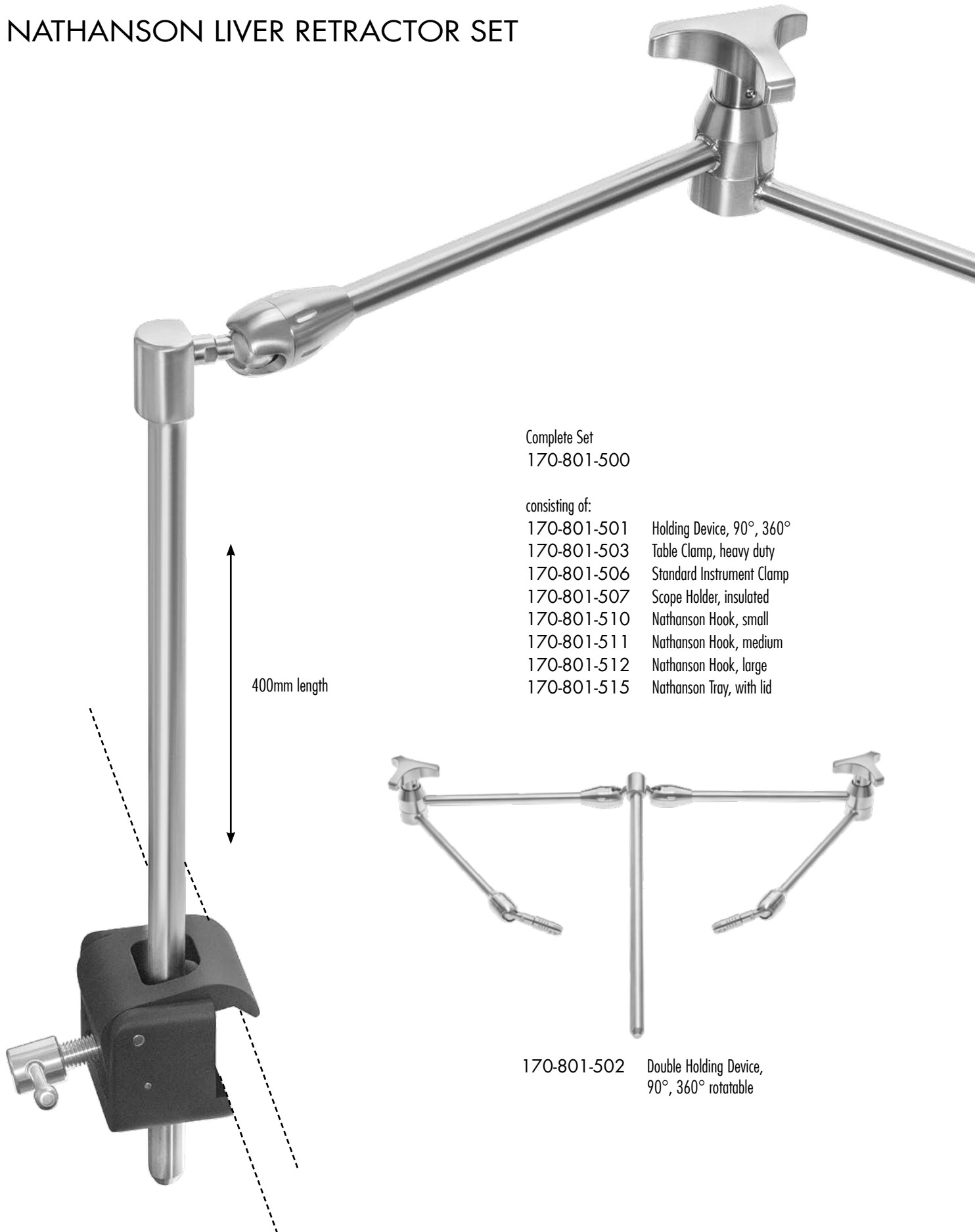
CONTAINER SET #2

		Halsted-Mosquito Hemostatic Forceps, straight, 125mm	140-254-125	2 pcs.
		TC Ligature Scissors, curved, serrated, 180mm	120-611-180	1 pc.
		Backhaus Towel Forceps, 130mm	140-573-130	4 pcs.
		Foerster Swab Forceps, straight, smooth jaw, 180mm	150-050-180	2 pcs.
		TC Mayo Hegar Needle Holder, straight, serrated, 160mm	180-550-160	1 pc.
		1/1 Sterilization Container, safety model, bottom non-perforated, yellow lid 580 x 280 x 200mm	600-580-205	1 pc.
		1/1 Stainless Steel Tray, perforated, 540 x 254 x 35mm	600-540-535	1 pc.
		1/1 Stainless Steel Tray, perforated, 540 x 254 x 55mm	600-540-555	1 pc.
		Silicone Mat, green 440 x 230mm	600-281-003	1 pc.
		Tray for 2 Endoscopes until 340mm	600-460-056	1 pc.



All you need in two containers
stored in different trays.

NATHANSON LIVER RETRACTOR SET



400mm length

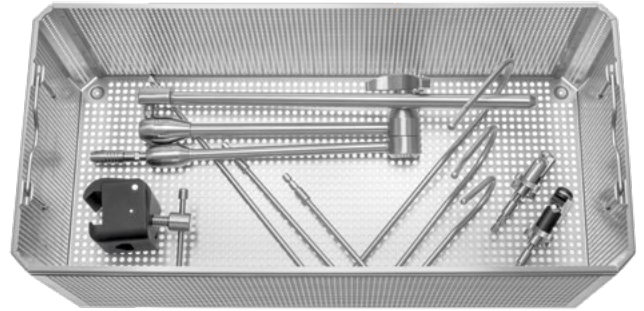
Complete Set
170-801-500

consisting of:

- | | |
|-------------|---------------------------|
| 170-801-501 | Holding Device, 90°, 360° |
| 170-801-503 | Table Clamp, heavy duty |
| 170-801-506 | Standard Instrument Clamp |
| 170-801-507 | Scope Holder, insulated |
| 170-801-510 | Nathanson Hook, small |
| 170-801-511 | Nathanson Hook, medium |
| 170-801-512 | Nathanson Hook, large |
| 170-801-515 | Nathanson Tray, with lid |



170-801-502 Double Holding Device,
90°, 360° rotatable



170-801-515
Tray, with lid, 540 x 253 x 197mm

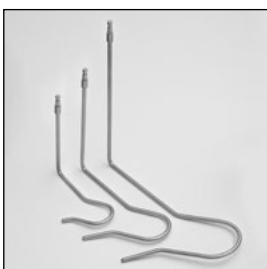


Quick lock mechanism



Hook, $\varnothing$ 6.5mm
170-801-510 Small
170-801-511 Medium
170-801-512 Large

Hook, $\varnothing$ 3.0mm
170-802-520 Small
170-802-521 Medium
170-802-522 Large





170-801-503 Table Clamp, heavy duty



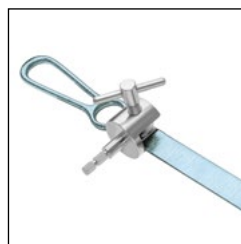
170-801-507 Scope Holder, insulated



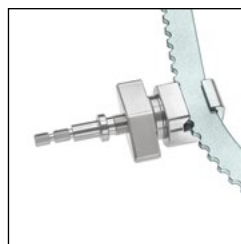
170-801-506 Standard Instrument Clamp



170-801-504 Universal Retractor Holder



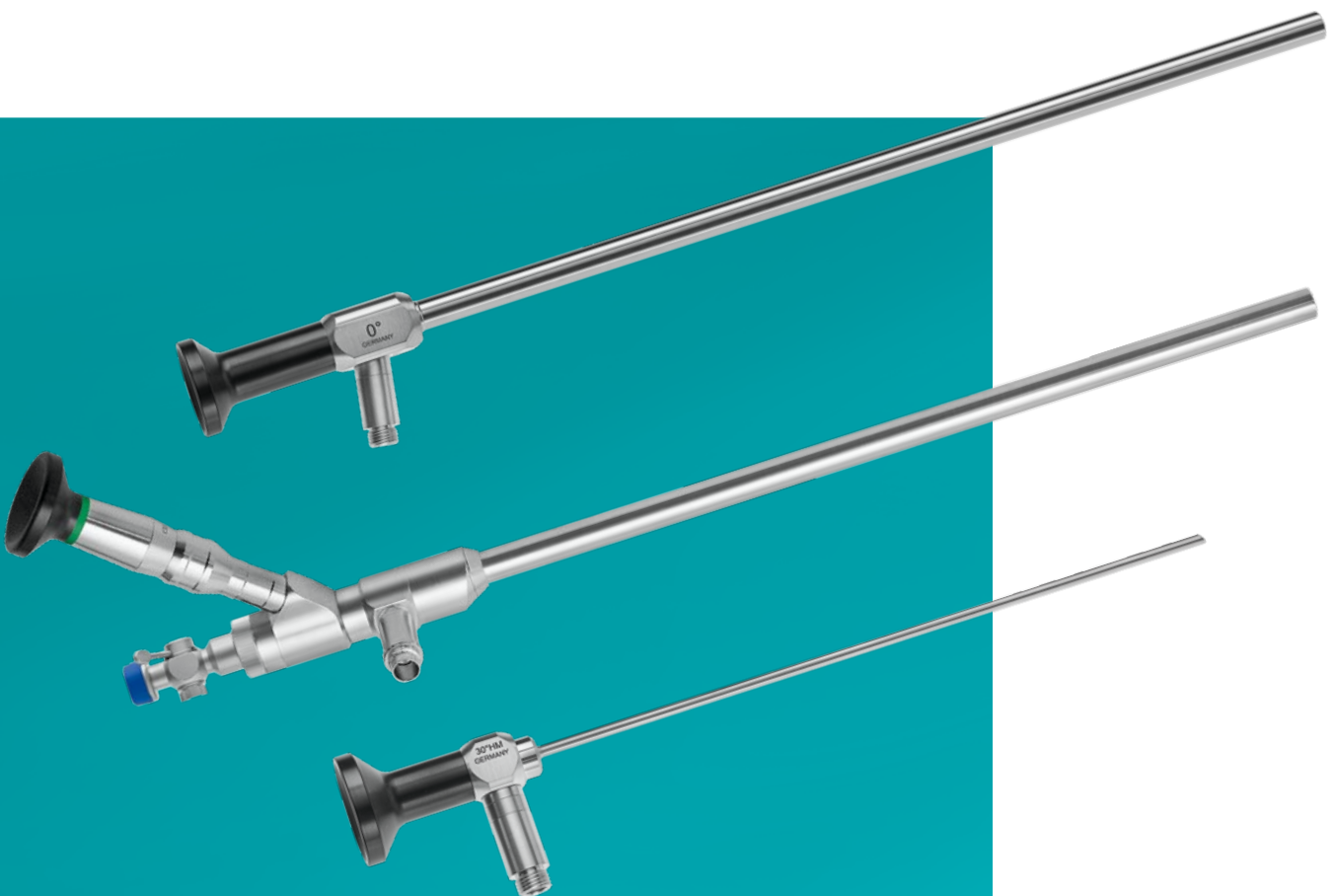
170-801-505 Frame Clamp for Retractor Frames



170-801-508 Ratchet mechanism



LAPAROSCOPES



4K LAPAROSCOPES

State-of-the-art Laparoscopes to achieve excellent image quality and finest details in Ultra High Definition.

4K



Ø
10 mm



0° DIRECTION OF VIEW

330mm working length	300-100-400*
405mm overall length	
450mm working length	300-200-400
532mm overall length	



30° DIRECTION OF VIEW

330mm working length	300-100-430*
405mm overall length	
450mm working length	300-200-430
532mm overall length	



Ø
5.5mm

0° DIRECTION OF VIEW

300mm working length	300-155-400*
356mm overall length	
424mm working length	300-255-400
480mm overall length	

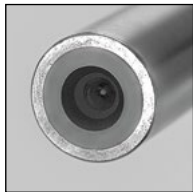
30° DIRECTION OF VIEW

300mm working length	300-155-430*
356mm overall length	
424mm working length	300-255-430
480mm overall length	

ICG/NIR 4K LAPAROSCOPES

Endoscopes for Indocyanine Green (ICG) and Near Infrared (NIR) Laparoscopy procedures in 4K Ultra High Definition.

4K



0° DIRECTION OF VIEW 300mm working length

Ø 10mm	300-700-400
Ø 5mm	300-755-400

30° DIRECTION OF VIEW 300mm working length

Ø 10mm	300-700-430
Ø 5mm	300-755-430

FULL HD LAPAROSCOPES

High definition pictures with significant detail-resolution through newest CAD - designed rod - lens systems.

FULL HD



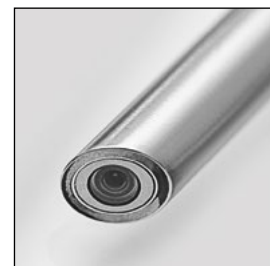
0° DIRECTION OF VIEW

330mm working length 405mm overall length	300-091-100*
450mm working length 532mm overall length	300-091-430



30° DIRECTION OF VIEW

330mm working length 405mm overall length	300-091-130*
450mm working length 532mm overall length	300-091-433



45° DIRECTION OF VIEW

330mm working length 405mm overall length	300-091-145
450mm working length 532mm overall length	300-091-445

FULL HD LAPAROSCOPES

High definition pictures with significant detail-resolution through newest CAD - designed rod - lens systems.

FULL HD



Ø
5.5mm



0° DIRECTION OF VIEW

300mm working length 356mm overall length	300-092-100*
424mm working length 480mm overall length	300-096-455



30° DIRECTION OF VIEW

300mm working length 356mm overall length	300-092-130*
424mm working length 480mm overall length	300-096-453

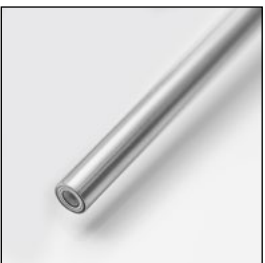


45° DIRECTION OF VIEW

300mm working length 356mm overall length	300-092-145
424mm working length 480mm overall length	300-096-450



Ø
2.9 mm



0° DIRECTION OF VIEW

207mm working length 270mm overall length	300-097-100
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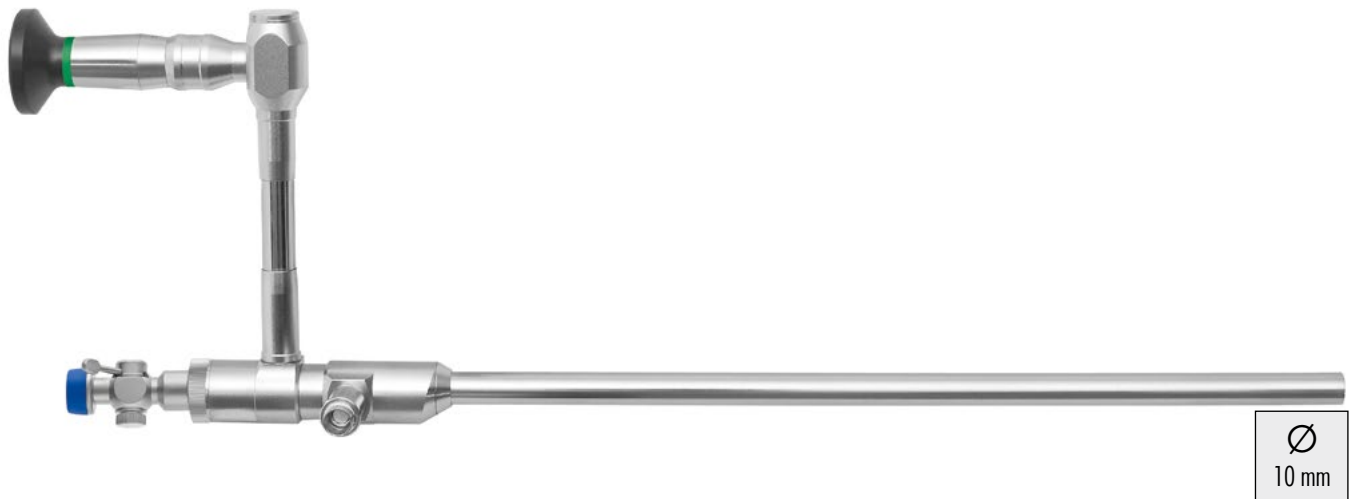
30° DIRECTION OF VIEW

207mm working length 270mm overall length	300-097-130
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FULL HD OPERATING LAPAROSCOPES

For 11 mm trocar systems and single puncture,
6mm instrument channel

FULL HD



0° DIRECTION OF VIEW

Parallel eye piece
270mm length

300-099-006



Stopcock with 6mm instrument channel

for 300-099-006
and 300-099-106
(included)

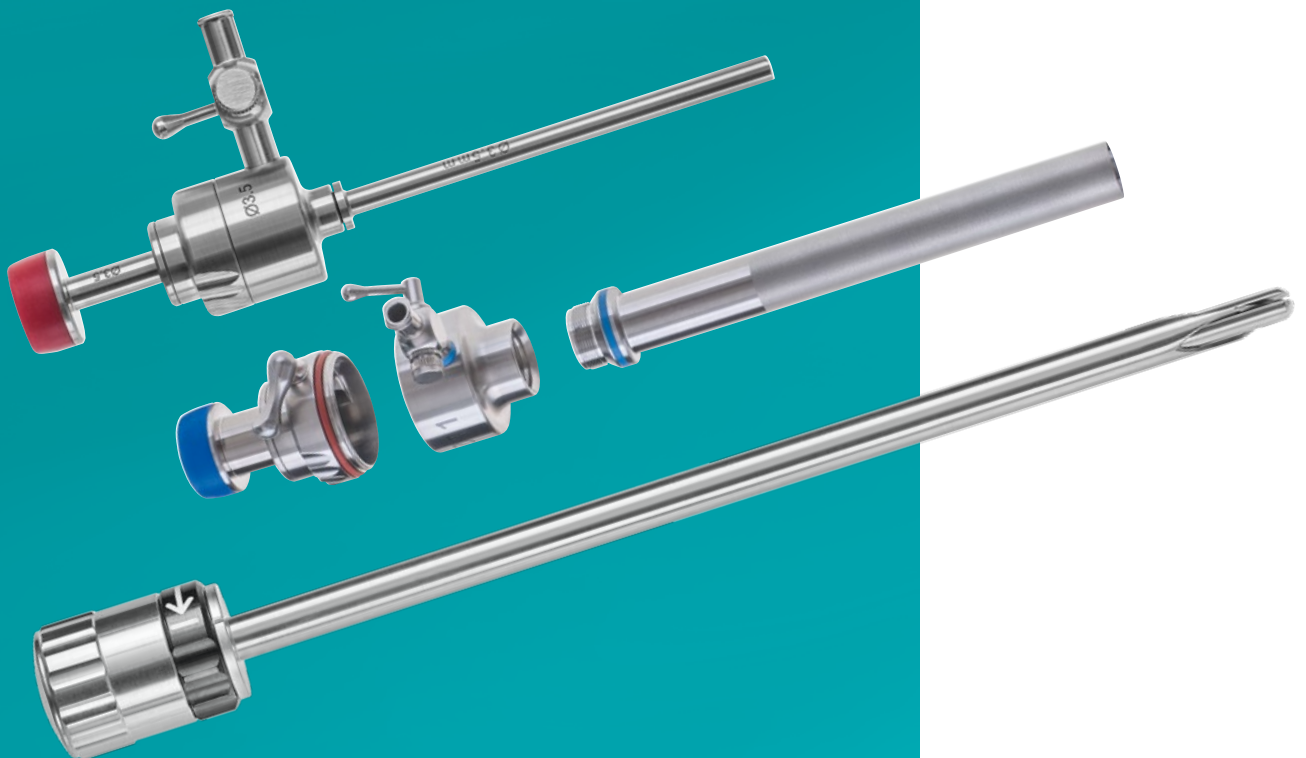
300-099-500



RECOMMENDATIONS FOR RZ LAPAROSCOPES

- Sterilization Containers and Trays for safe usage and storage:
pages 157-167
- Ø 3.5mm, Ø 4.8mm light cables and adapter pieces
to be used with all RZ Laparoscopes:
page 179

ADVANCED TROCAR SYSTEMS





- 1 Reusable and autoclavable seals
- 2 Easy opening by pushing the lever
- 3 Stainless steel stopcock
- 4 Ergonomic stainless steel housing
- 5 Self-centering conical sleeve
- 6 Smooth stainless steel sleeve



Easy opening MultiPort
System



Improved trap-door valves

SILIPORT TROCAR SYSTEM



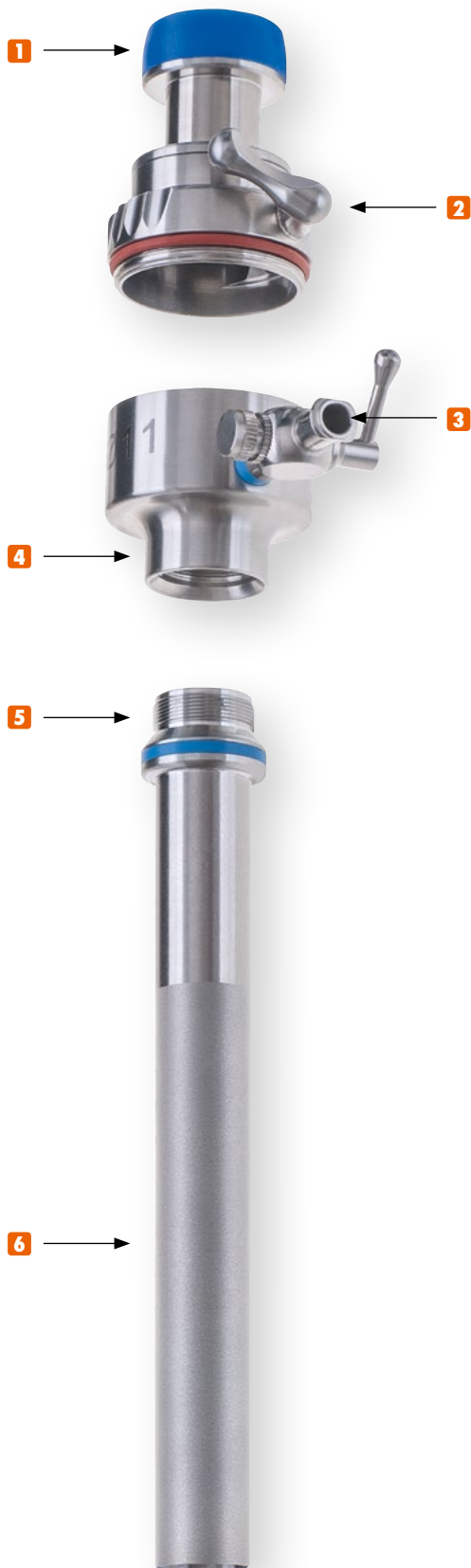
- 1 Reusable and autoclavable seals
- 2 Reusable and autoclavable silicon valve
- 3 Stainless steel stopcock
- 4 Lightweight synthetic housing
- 5 Self-centering conical sleeve
- 6 Synthetic threaded lightweight sleeve



Highest safety due to
stainless steel connections

Color code	Ø
	5.5mm
	11.0mm
	13.0mm

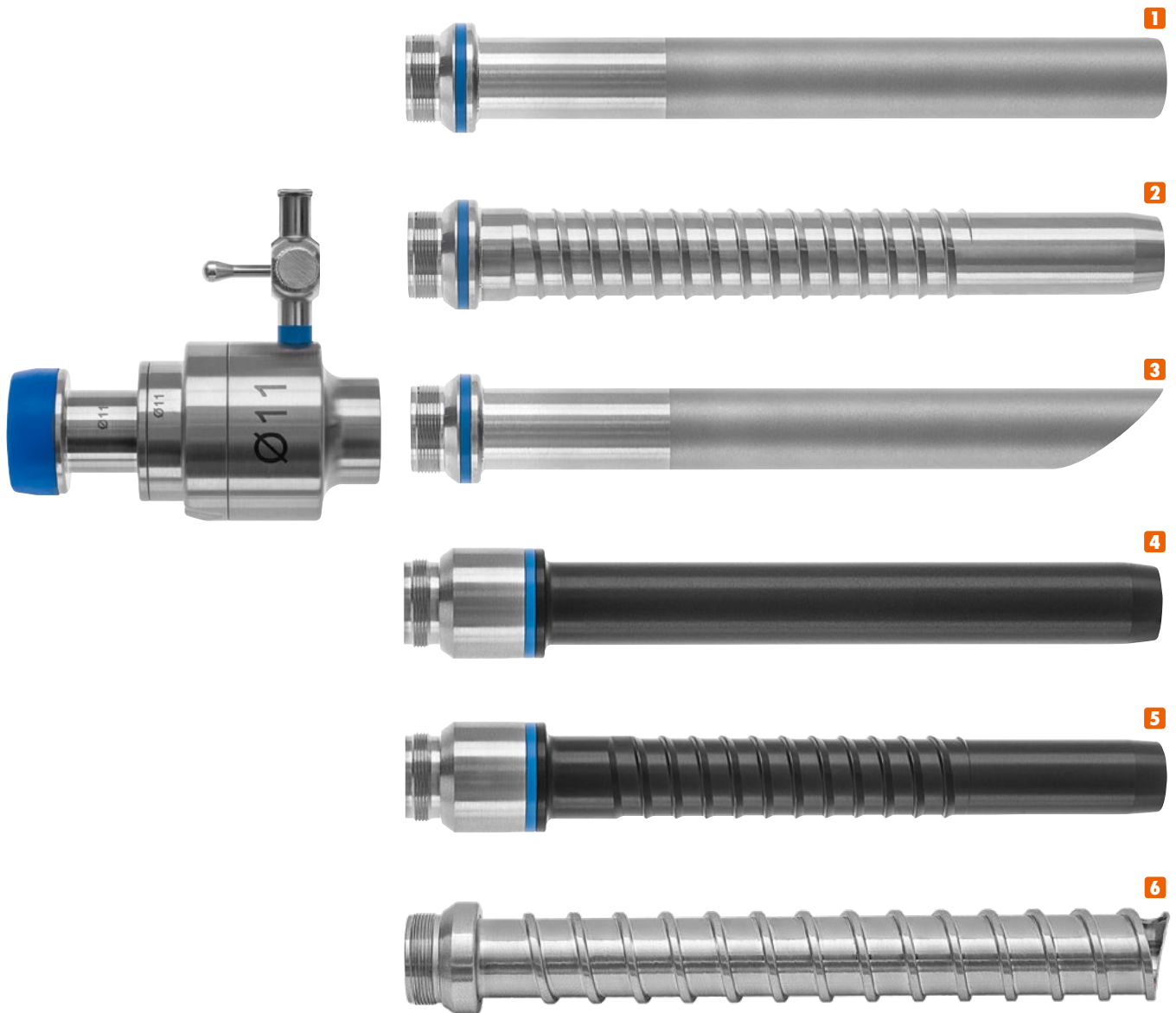
MultiPort Trocar System



SiliPort Trocar System

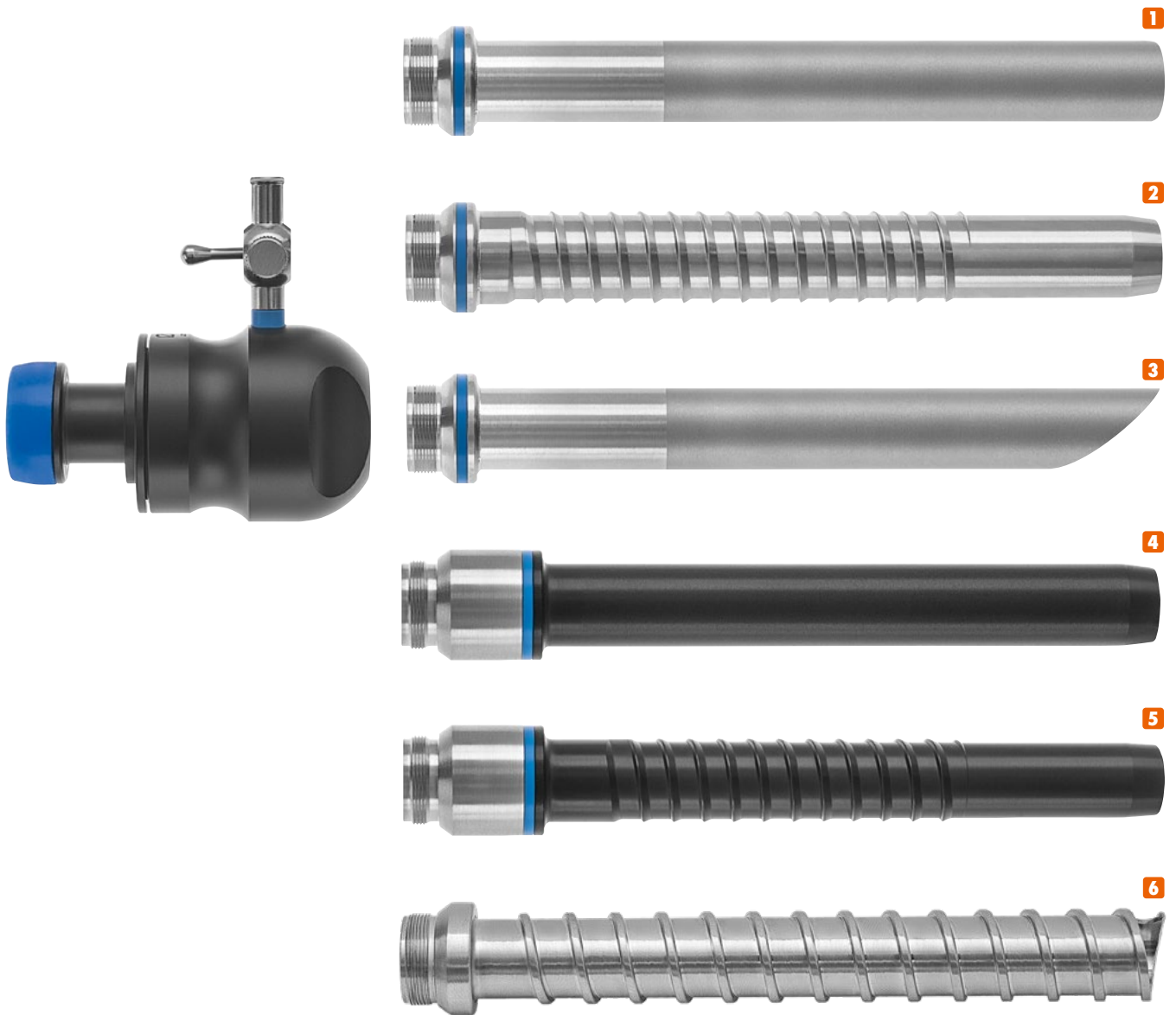


Multiport Trocar Sleeves, 100mm working length



	Ø 5.5mm	Ø 11mm	Ø 13mm
1 Stainless steel sleeve, smooth	300-220-055*	300-220-011*	300-220-013*
2 Stainless steel sleeve, thread	300-221-055	300-221-011	300-221-013
3 Stainless steel sleeve, oblique	300-222-055*	300-222-011*	300-222-013*
4 Synthetic sleeve, smooth	300-223-055	300-223-011	300-223-013
5 Synthetic sleeve, thread	300-224-055	300-224-011	300-224-013
6 Stainless Steel Sleeve, self-cutting	300-226-055	300-226-011	300-226-013

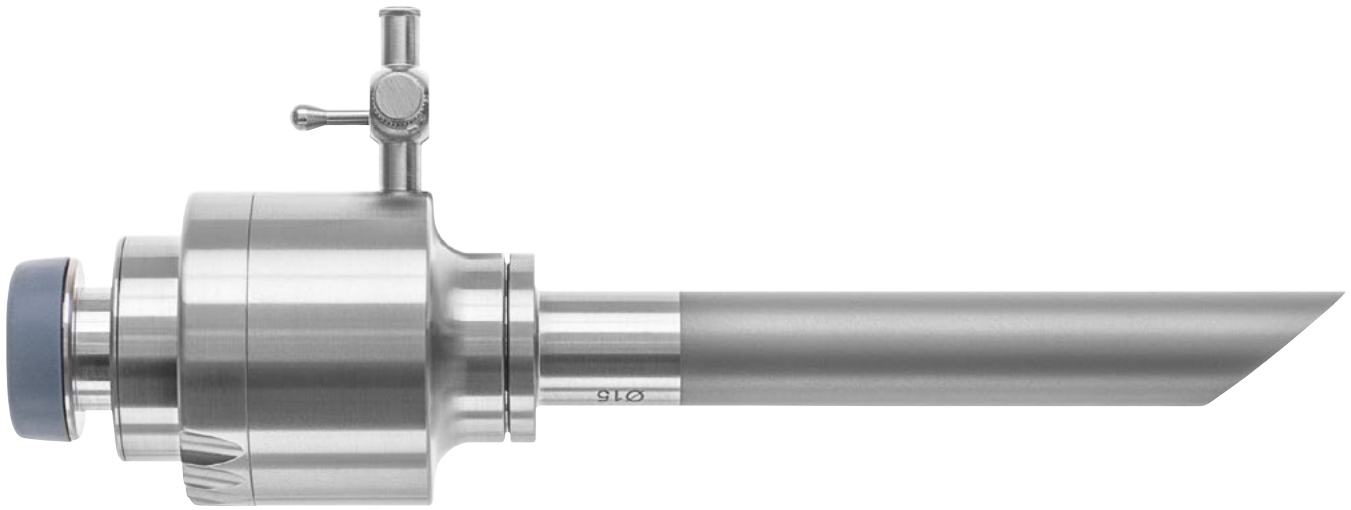
Siliport Trocar Sleeves, 100mm working length



- 1** Stainless steel sleeve, smooth
- 2** Stainless steel sleeve, thread
- 3** Stainless steel sleeve, oblique
- 4** Synthetic sleeve, smooth
- 5** Synthetic sleeve, thread
- 6** Stainless Steel Sleeve, self-cutting

	Ø 5.5mm	Ø 11mm	Ø 13mm
	300-230-055	300-230-011	300-230-013
	300-231-055	300-231-011	300-231-013
	300-232-055	300-232-011	300-232-013
	300-233-055	300-233-011	300-233-013
	300-234-055	300-234-011	300-234-013
	300-236-055	300-236-011	300-236-013

SPECIAL SIZED TROCAR SYSTEM



Stainless steel trocar with oblique sleeve, 109.9mm working length
Ø 15mm 300-020-015

Stainless steel trocar with oblique sleeve, 118.7mm working length
Ø 20mm 300-020-020

PEDIATRIC TROCAR SYSTEM



Stainless steel trocar with smooth sleeve, 70mm working length
Ø 3.5mm 300-112-035

SPARE TROCAR SLEEVES



1



2



3



4

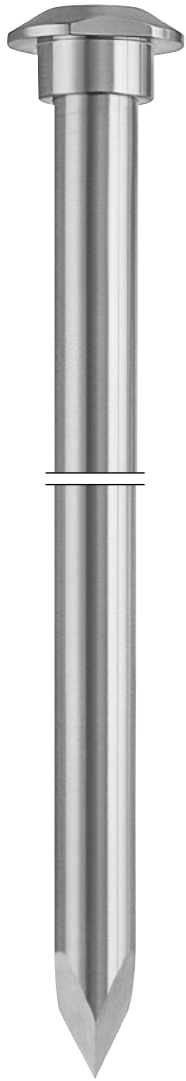


5



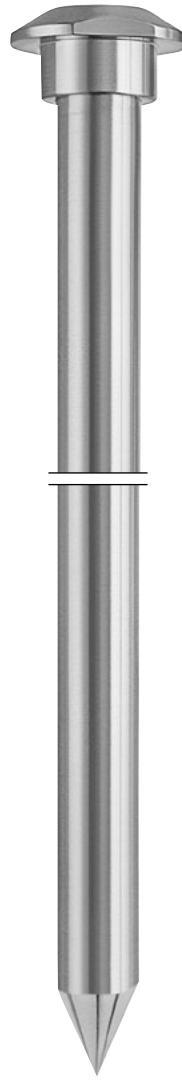
6

	Ø 5.5mm	Ø 11mm	Ø 13mm
1 Stainless steel sleeve, smooth	300-220-255	300-220-211	300-220-213
2 Stainless steel sleeve, thread	300-221-255	300-221-211	300-221-213
3 Stainless steel sleeve, oblique	300-222-255	300-222-211	300-222-213
4 Synthetic sleeve, smooth	300-233-255	300-233-211	300-233-213
5 Synthetic sleeve, thread	300-234-255	300-234-211	300-234-213
6 Stainless Steel Sleeve, self-cutting	300-236-255	300-236-211	300-236-213



Standard trocar
with pyramidal tip, reusable, cutting

300-241-035	Ø 3.5mm
300-241-055*	Ø 5.5mm
300-241-011*	Ø 11mm
300-241-013*	Ø 13mm
300-241-015	Ø 15mm
300-241-020	Ø 20mm



Standard trocar
with conical tip, reusable, cutting

300-240-035	Ø 3.5mm
300-240-055*	Ø 5.5mm
300-240-011*	Ø 11mm
300-240-013*	Ø 13mm
300-240-015	Ø 15mm
300-240-020	Ø 20mm



Hasson Obturator with blunt ball tip,
reusable, atraumatic

300-242-035	Ø 3.5mm
300-242-055	Ø 5.5mm
300-242-011	Ø 11mm

SAFETY TROCARS

- Avoids injuries in the abdomen
- Automatic self-locking shielding
- Shield covers the cutting edges
- Minimal Puncture wound due to rounded cutting edges



300-152-055* 5.5mm
 300-152-011* 11.0 mm
 300-152-012 12.5mm



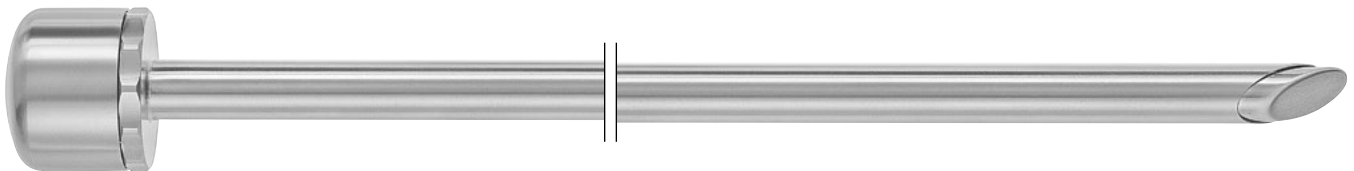
Shielded trocar tip



Sharp trocar tip

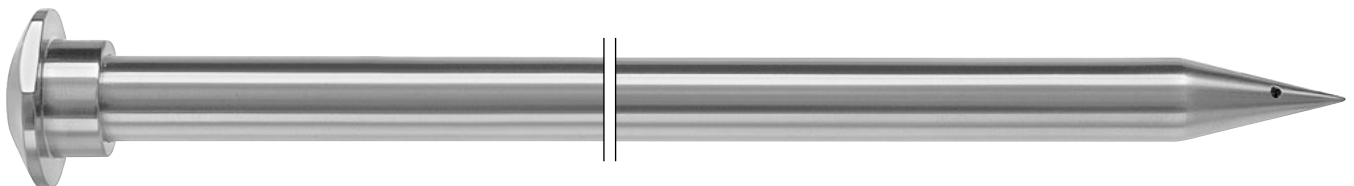


Safety mechanism



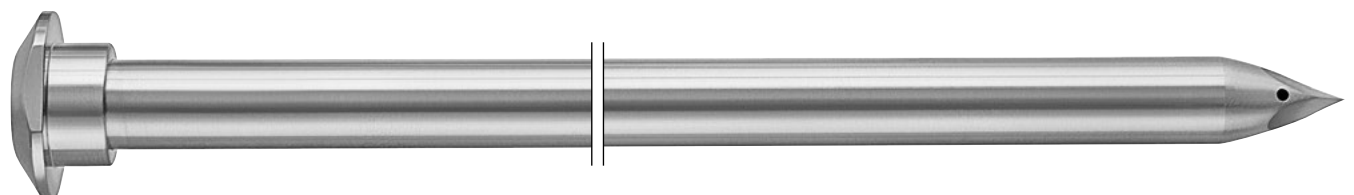
Safety trocar with oblique cutting edge

300-154-055 5.5mm
 300-154-011 11.0 mm
 300-154-125 12.5mm



Cannulated trocars with hole, conical tip

300-243-055 5.5mm
 300-243-011 11.0 mm
 300-243-013 13.0 mm



Cannulated trocars with hole, trocar point

300-244-055 5.5mm
 300-244-011 11.0 mm
 300-244-013 13.0 mm

SPARE PARTS



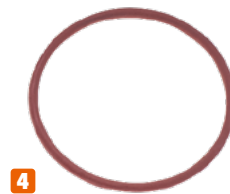
- 1**
Silicone seal insert for SiliPort
Trocar System, 5 pieces
300-025-358* Ø 5.5mm
300-025-359* Ø 11mm
300-025-359 Ø 13mm



- 2**
Sealing caps, color-coded, 10 pieces
300-250-035 Ø 3.5mm (red)
300-250-055* Ø 5.5mm (white)
300-250-011* Ø 11mm (blue)
300-250-013* Ø 13mm (green)
300-020-915 Ø 15mm (grey)
300-020-920 Ø 20mm (grey)



- 3**
Gaskets for MultiPort Trocar System, 10 pieces
300-250-235 Ø 3.5mm (black)
300-250-255 Ø 5.5mm (white)
300-250-211 Ø 11mm (blue)
300-250-213 Ø 13mm (green)
300-020-215 Ø 15mm (blue)
300-020-220 Ø 20mm (blue)



- 4**
Gaskets for MultiPort Trocar System, 10 pieces
300-250-135 Ø 3.5mm / 5.5mm
300-250-111 Ø 11mm / 13mm
300-020-115 Ø 15mm
300-020-120 Ø 20mm



Reducer clip with silicone band

for all RZ trocar systems

300-021-011* Ø 11mm → 5.5mm

300-021-125 Ø 12.5mm → 5.5mm



Reducer clip with silicone band for

all RZ trocar systems

300-021-355* Ø 11mm → 5.5mm

300-021-380 Ø 11mm → 8.0 mm

300-021-305 Ø 13mm → 5.5mm

300-021-310 Ø 13mm → 10.0 mm



Slide-reducer for all RZ Trocar Systems

300-021-455 Ø 11mm → 5.5mm

300-021-405 Ø 13mm → 5.5mm

300-021-410 Ø 13mm → 10.0 mm

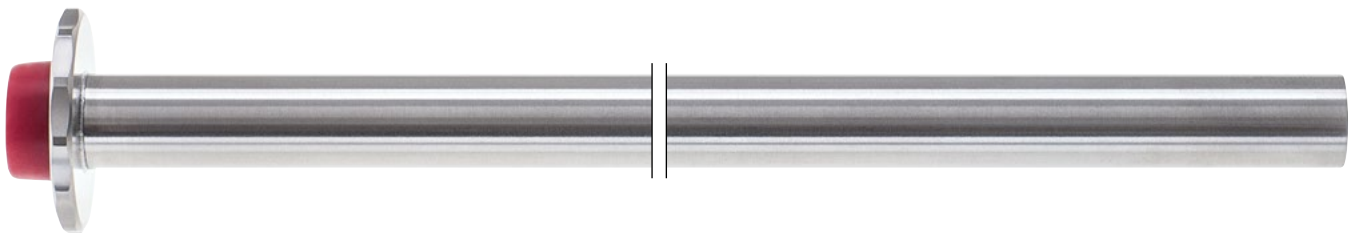


Reducer Sleeve short, for all RZ modular trocar systems, 60mm

300-012-106 Ø 10mm → 5.0 mm

300-012-116 Ø 11mm → 5.5mm

300-012-121 Ø 12.5mm → 5.5mm



Reducer Sleeve long, for all RZ modular trocar systems, 190mm

300-012-405* Ø 5.0mm → 4.0mm (red)*

300-012-455* Ø 10.0/11.0mm → 5.5mm (red)

300-012-410 Ø 12.5mm → 10.0mm (blue)

300-012-412 Ø 12.5mm → 5.5mm (red)

300-012-415 Ø 15.0mm → 10.0mm (blue)

300-012-416 Ø 15.0mm → 5.5mm (red)

300-012-425 Ø 20.0mm → 15.0mm (grey)

300-012-420 Ø 20.0mm → 10.0mm (blue)

300-012-421 Ø 20.0mm → 5.5mm (red)

* 175mm



RZ Dilation Set

300-013-500	for 5.5 → 10.0 mm
300-013-511	for 5.5 → 11.0 mm
300-013-510	for 5.5 → 10.0 mm
300-013-115	for 11.0 → 15.0 mm
300-013-512	for 5.5 → 12.5mm
300-013-522	for 11.0 → 20.0 mm



Fixable sliding Hasson Cone with suture fixation device, for all RZ Modular Trocar Systems with smooth metal sleeves

300-014-155	Ø 5.5mm
300-014-111	Ø 11mm
300-014-113	Ø 13mm

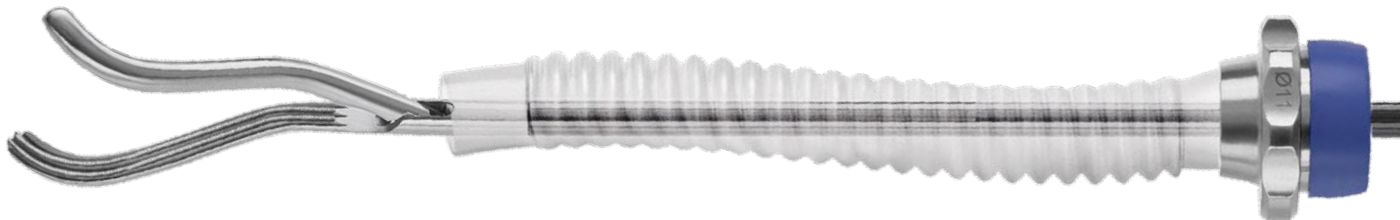


Fixable sliding Hasson cone with suture fixation device, for all RZ Modular Trocar Systems with smooth metal sleeves

300-014-711	Ø 11mm
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FLEXIBLE TROCAR SYSTEM FOR THE USE OF CURVED INSTRUMENTS

- Complete Thorax trocar system
- For inserting curved or strongly curved jaws
- For 5mm and 10mm instruments



Thorax Trocar System, flexible, complete, Ø 11 mm
300-020-211 100 mm working length
300-020-711 70 mm working length



Thorax Trocar Sheath, Ø 11 mm,
for 100 mm
300-021-111



Thorax Trocar System, flexible, complete, Ø 5.5mm
300-020-255 100 mm working length
300-020-755 70 mm working length



Thorax Trocar Sheath, Ø 5.5mm
300-021-155 for 100 mm
300-021-755 for 70 mm



Obturator for flexible Thorax Trocar System
300-023-111 Ø 11.0mm, 100mm
300-023-711 Ø 11.0mm, 70mm
300-023-255 Ø 5.5mm, 100mm
300-023-755 Ø 5.5mm, 70mm



Gasket for Thorax Trocar System
Ø 11mm (package of 10 pcs.)
300-250-011 blue
300-250-055 white



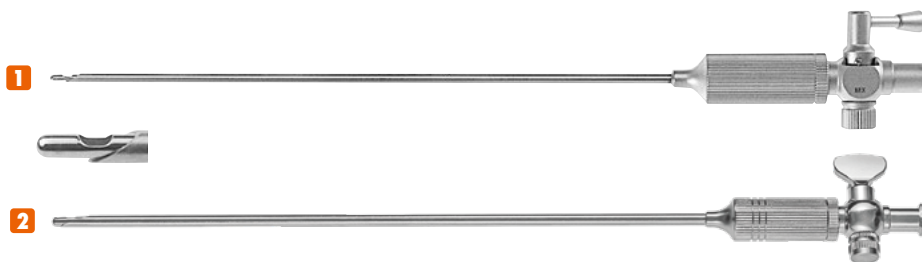
Plastic Trocar Sleeve, flexible, package of 5 pieces
300-024-111 Ø 11.0mm, 100mm
300-024-711 Ø 11.0mm, 70mm
300-024-155 Ø 5.5mm, 100mm
300-024-755 Ø 5.5mm, 70mm



300-023-100 Endo Dilator Speculum, 195mm, with 3 blades,
for symmetric dilation of the tissue during heavy tissue removal



300-098-105 Tissue retractor, S-shaped, pair with 2 pieces
to expose anatomical layers



1 Insufflation needle, matt chrome, Ø 2 mm

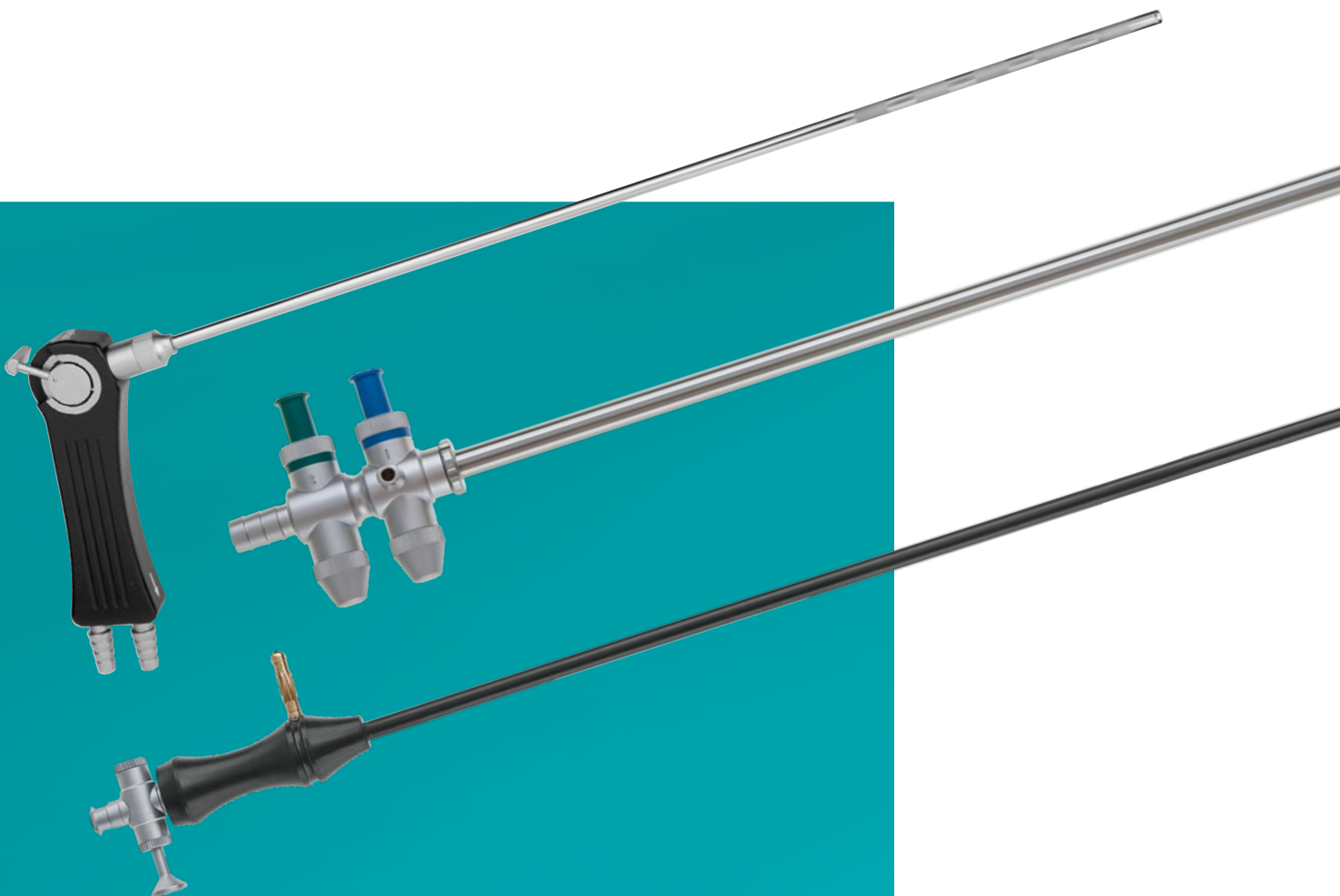
300-195-080	80 mm
300-195-100	100 mm*
300-195-120*	120 mm*
300-195-150	150 mm*
300-195-170	170 mm
300-195-200	200 mm

* standard length

2 Insufflation needle, polished chrome, Ø 2.7 mm, High-Flow

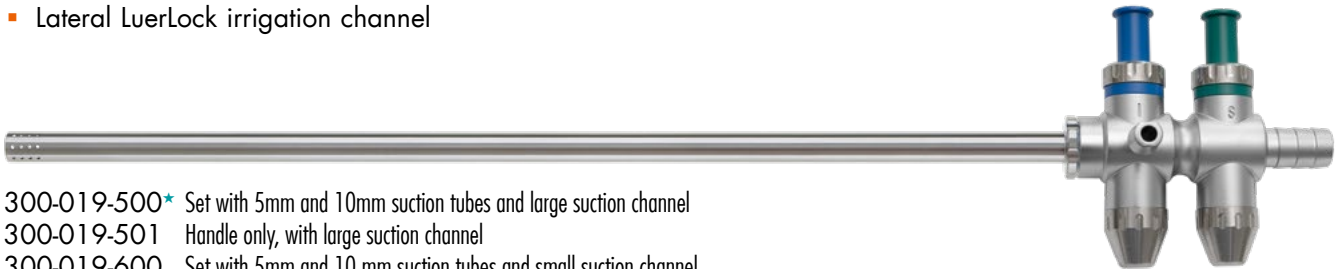
300-195-300	100 mm
300-195-320	120 mm*
300-195-350	150 mm*
300-195-370	170 mm*

SUCTION AND IRRIGATION



RZ EASYCLEAN SUCTION AND IRRIGATION SYSTEM

- 2 color coded trumped valves
- Universal suction channel
- Lateral LuerLock irrigation channel



- 300-019-500* Set with 5mm and 10mm suction tubes and large suction channel
 300-019-501 Handle only, with large suction channel
 300-019-600 Set with 5mm and 10 mm suction tubes and small suction channel
 300-019-601 Handle only, with small suction channel



- Suction and irrigation handle
 300-019-501 large suction channel
 300-019-601 small suction channel



- 300-019-780 Gasket O-Ring
 1 set with 10 pieces



- 300-019-770 Spring
 1 set with 10 pieces



- Suction and irrigation tubes
 for 300-019-500/501/600/601



4x 4 holes, 340mm working length



Ø 3mm

300-019-735



Ø 5mm

300-019-705



Ø 10mm

300-019-710



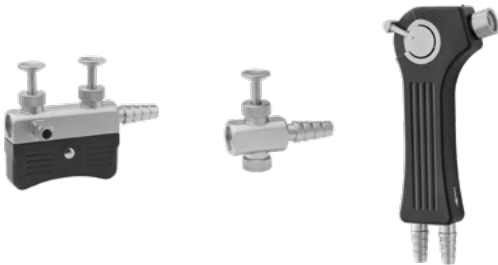
300-165-100 Suction and irrigation handle with 2 trumpet valves, suction channel with large universal tube connector, irrigation channel with lateral LuerLock connection, removable ergonomic handle plate



300-167-100 Suction and irrigation handle with 1 trumpet valve and large universal tube adapter



300-166-100* Pistol-shaped suction and irrigation handle with 2-way valve and 2 large universal tube connectors for suction and irrigation



Suction and irrigation tubes, for 300-165-100, 300-166-100 and 300-167-100



4 holes, with markings, 340 mm working length



Ø 3mm

300-172-003



Ø 5mm

300-172-005*



Ø 10mm

300-172-010*



4x 4 holes, with markings, 340mm working length



Ø 3mm

300-173-003



Ø 5mm

300-173-005*



Ø 10mm

300-173-010*



300-192-000★ Suction and irrigation handle with rotating 2-way lever mechanism and 2 large universal tube adapters with LuerLock connector



Suction and irrigation tubes for 300-192-000



4 holes on the tip, with markings and LuerLock, 340 mm working length



Ø 3mm

300-192-003



Ø 5mm

300-192-005★



Ø 10mm

300-192-010★



4x 4 holes, with markings and LuerLock, 340mm working length



Ø 3mm

300-193-003



Ø 5mm

300-193-005★



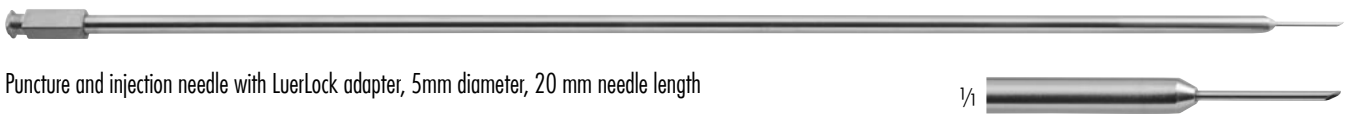
Ø 10mm

300-193-010★



Suction or irrigation tube with LuerLock, 4 x 4 holes and stopcock, Ø 5mm

300-006-305 330 mm working length
300-006-455 450 mm working length



Puncture and injection needle with LuerLock adapter, 5mm diameter, 20 mm needle length

	Needle tip	Working length	Needle length
300-194-307*	0.7 mm	330 mm	12mm
300-194-309*	0.9 mm	330 mm	20mm
300-194-312*	1.2 mm	330 mm	20mm
300-194-412	1.2 mm	450 mm	20mm
300-194-314*	1.4 mm	330 mm	20mm
300-194-414	1.4 mm	450 mm	20mm
300-194-318*	1.8 mm	330 mm	20mm
300-194-418	1.8 mm	450 mm	20mm



Palpation probe with markings and small handle

	Working length	Ø
300-193-305	330 mm	5mm
300-193-335*	330 mm	5mm
300-193-405	400 mm	5mm
300-193-410	400 mm	10mm



300-166-000 Pistol-shaped suction and irrigation handle with 2-way valve.
Additional rotating HF connector for monopolar cables.
2 large universal tube connectors for suction and irrigation.

ELECTRODES

340mm working length



	J-hook Electrode, thin wire	300-163-100
	J-hook Electrode, thick wire	300-163-110
	L-hook Electrode	300-163-120
	Spatula Electrode	300-163-130
	Ballpoint Electrode	300-163-140
	Knife Electrode	300-163-150
	45° Needle Electrode	300-163-160
	Needle Electrode	300-163-170
	Cone Electrode	300-163-180
	Irrigation tube for use without HF	300-163-190

ELECTRODES

with ceramic tip, 340mm working length



J-hook Electrode

300-163-810



L-hook Electrode

300-163-820



Spatula Electrode

300-163-830



Knife Electrode

300-163-850



45° Electrode

300-163-860



Needle Electrode

300-163-870

COAGULATION ELECTRODES

with 4mm HF connector, Ø 5mm, 330mm working length



J-hook Electrode

300-100-132



L-hook Electrode

300-100-133*



Spatula Electrode

300-100-131*



Ballpoint Electrode

300-100-134

HANDLE ELECTRODES

Ø 5mm, 360mm working length

- Large and ergonomic handle design
- Very fine tips
- Ceramic tip and PEEK shaft
- Suction connection optionally available



Without suction



With suction



Spatula Electrode

300-144-002*

300-145-003*



J-hook Electrode

300-144-004

300-145-004*



L-hook Electrode

300-144-005*

300-145-005*



Needle Electrode

300-144-006*

300-145-006*

ELECTRODES

with 4mm HF connector, Ø 5mm, 340mm / 440mm working length

- Coagulation Suction / Irrigation Electrode
- Ergonomic handle
- Ceramic tip



		340mm	440mm
	J-hook Electrode	300-163-410	300-163-610
	L-hook Electrode	300-163-420	300-163-620*
	Spatula Electrode	300-163-430	300-163-630
	Knife Electrode	300-163-450	300-163-650
	45° Needle Electrode	300-163-460	300-163-660
	Needle Electrode	300-163-470	300-163-670

MONOPOLAR CABLES



Generator end
↓



RZ HF Unit Standard Plug

	4mm socket	4mm socket, angled	2mm plug	4mm plug	3mm socket	4mm plug
3m	700-501-303*					
5m	700-501-503					



RZ HF Unit SDS Plug

3m	700-501-300*					
5m	700-501-500*					



Erbe, Martin, Berchtold

3m	700-280-030*	700-290-030	700-291-030		700-292-030	700-293-033
5m	700-280-050*	700-290-050	700-291-050			700-293-035



Bovie, Valleylab, Conmed

3m	700-360-031*	700-361-030	700-362-030	700-363-030	700-364-030	700-370-030
5m	700-360-051*	700-361-050	700-362-050	700-363-050		700-370-050



Martin, Berchtold

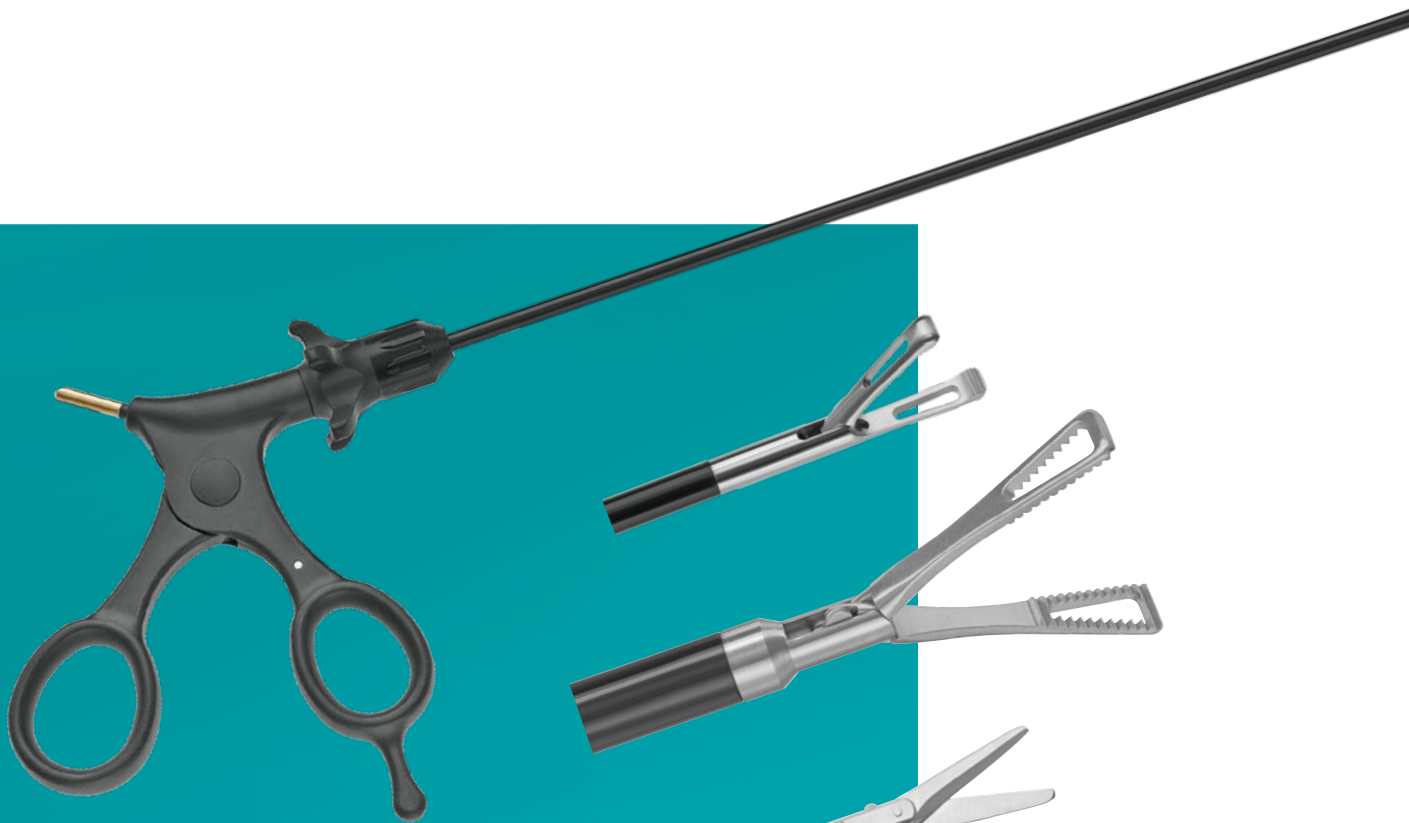
3m	700-285-030*		700-286-030	700-286-130		700-286-230
5m	700-285-050*		700-286-050			



Erbe ACC/ICC

3m	700-101-030	700-102-030	700-103-030			700-286-230
5m	700-101-050		700-103-050		700-104-050	

RING HANDLE INSTRUMENTS





300-750-101*
PEEK Polymer Handle with
HF - connection



300-750-103*
PEEK Polymer Handle with ratchet
and HF - connection



300-750-105*
PEEK Polymer Handle with hook up
ratchet and HF - connection



300-750-106*
PEEK Polymer Handle with swing-away
ratchet, rotatable and HF - connection



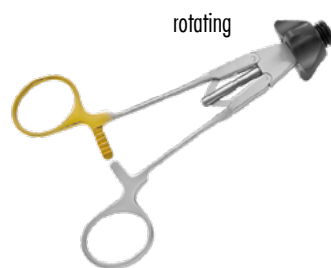
300-750-001
Carbon Fiber Handle, rotating,
HF - connection



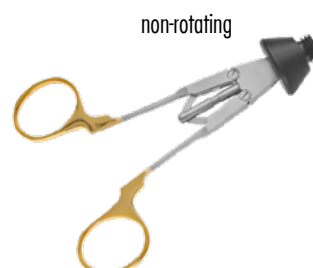
300-750-003
Carbon Fiber Handle, rotating,
with ratchet, HF - connection



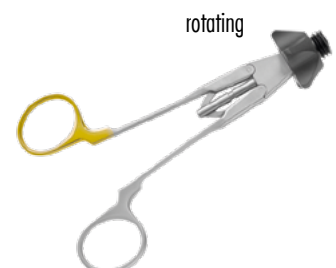
300-750-015
Axial Handle with catch for needle holder
fixed, for all needle holder inserts,
with two gold rings



300-750-115
Axial Handle with catch, rotating,
for standard instrument,
with one golden ring



300-750-215
Axial Handle without catch,
non rotating, for standard instrument,
with two gold rings



300-750-315
Axial Handle without catch, rotating,
for standard instrument, with one gold ring



Outer Sheath, insulated, adaptable to all handles, Ø 5mm

210 mm	300-550-005	• exchangeable color coding locking nuts
330 mm	300-660-005*	• advantages in handling and cleaning
450 mm	300-760-005*	• strengthening of the shaft through a partial thickening at the proximal end



Outer Sheath, insulated, adaptable to all handles, Ø 10 mm

210 mm	300-550-010
330 mm	300-660-010*
450 mm	300-760-010*

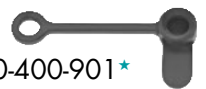


Outer Sheath, insulated, adaptable to all handles, with LuerLock

Ø 5mm	210 mm	300-550-105
Ø 5mm	330 mm	300-660-105
Ø 10 mm	330 mm	300-660-110
Ø 5mm	450 mm	300-760-105
Ø 10 mm	450 mm	300-760-110



300-400-900
Rubber Seals for LuerLock connectors
sales unit: 5 pcs.



300-400-901*
Rubber Seals for LuerLock connectors
sales unit: 5 pcs.



Locking Nuts

300-661-005	5mm	●	300-661-006OR
300-661-010	10mm	●	Sealing ring, package of
300-661-006	5mm	●	10 pieces,
300-661-007	5mm	●	autoclavable
300-661-008	5mm	●	
300-661-004	5mm	●	
300-661-009	3.5mm*	●	

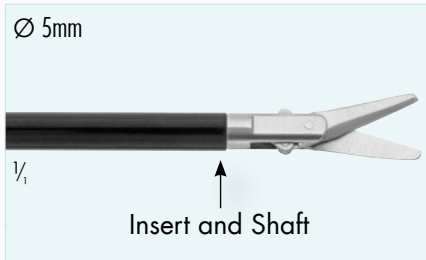


* for 3.5mm Mini Laparoscopy instruments



3-PIECE MODULAR INSTRUMENT

- Long-life and reliable materials
- Large variety of handle designs
- Ratchet mechanism / deactivation



insert only
300-400-067

↑
Insert's Catalogue-No.

complete instrument
300-410-067

↑
Catalogue-No. of the
complete Instrument

complete instrument
300-420-067

↑
Catalogue-No. of the
complete Instrument

*Each piece can be ordered separately

*Each piece can be ordered separately



Watch the video on
YouTube

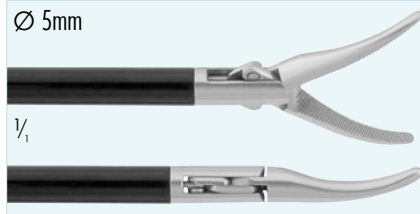


The RZ spherical head
locking system for fast
assembling / disassembling



Modular 3-piece detachable instrument system consists of:





Catalogue-No. for insert only

300-400-732*

KELLY

Dissecting forceps curved, slightly tapered, cross-serrated jaws, wide opening, double action, Ø 5mm, 330 mm



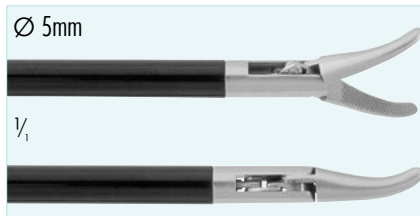
Complete Instrument
with handle 300-750-001

300-410-732



Complete Instrument
with handle 300-750-101

300-420-732*



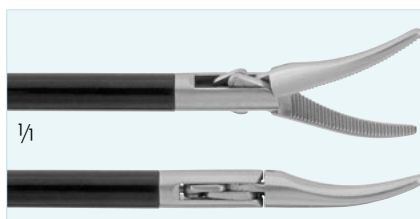
300-400-733

300-410-733

300-420-733

BABY KELLY

Short dissecting and suturing forceps, curved, tapered, cross-serrated jaws, wide opening, double action, Ø 5mm, 330 mm



300-400-731*

300-410-731

300-420-731*

MARYLAND

Extra fine dissector with slightly tapered tip and gently curved for precise dissection, Ø 5mm, 330 mm



300-400-738*

300-410-738

300-420-738*

MIXTER

Fine dissecting forceps, 90° angled, fine serrated jaws, double action, Ø 5mm, 330 mm

Ø 5mm



1/1

insert only

300-400-735*



Complete Instrument
with handle 300-750-001

300-410-735



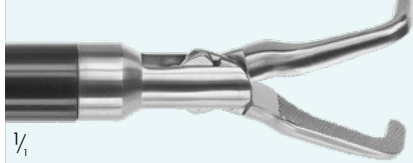
Complete Instrument
with handle 300-750-101

300-420-735*

RIGHT ANGLE

Dissecting grasping forceps, fine serrated jaws, double action, Ø 5mm, 330 mm

Ø 10 mm



1/1

300-400-736*

300-410-736

300-420-736*

RIGHT ANGLE

Dissecting grasping forceps, fine serrated jaws, double action, Ø 10 mm, 330 mm

Ø 10 mm



1/1

300-400-741

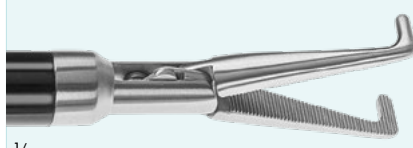
300-410-741

300-420-741

OVERHOLT

Dissecting forceps 90° angled jaws, double action, Ø 10 mm, 330 mm

Ø 10 mm



1/1

300-400-740

300-410-740

300-420-740

MIXTER

Dissecting forceps, 10 mm long tip, 90° angled jaws, double action, Ø 10 mm, 330 mm

Ø 5mm



1/1

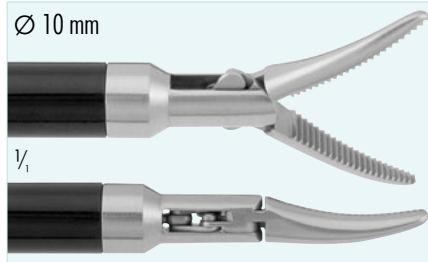
300-400-027

300-410-027

300-420-027

PETELIN

Dissecting forceps, single action jaws, angled 60° left. deep serrations, Ø 5mm, 330 mm



insert only

300-400-730



Complete Instrument
with handle 300-750-001

300-410-730

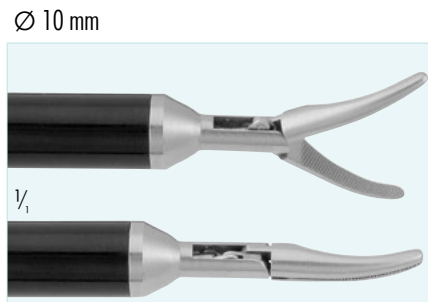


Complete Instrument
with handle 300-750-101

300-420-730

MARYLAND

Dissecting forceps curved left, blunt jaws, double action, Ø 10 mm, 330 mm



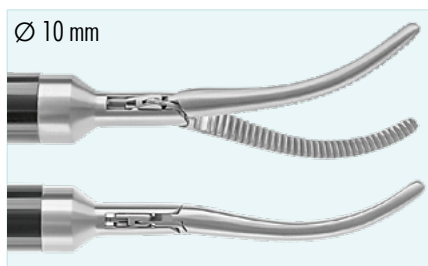
300-400-734

300-410-734

300-420-734

MIXTER 45°

Dissecting forceps curved with long fine serrated jaws, double action, Ø 10 mm, 330 mm



300-400-737

300-410-737

300-420-737

OVERHOLT-MIXTER

Dissecting forceps curved with slim long serrated jaws, double action, Ø 10 mm, 330 mm



300-400-739*

300-410-739

300-420-739*

MIXTER 90°

Dissecting forceps 90° angled, serrated jaws, double action, Ø 10 mm, 330 mm



insert only
300-400-044

Complete Instrument with handle 300-750-001
300-410-044

Complete Instrument with handle 300-750-101
300-420-044

ADHESION FORCEPS

Serrated jaws, one fenestrated, double action, Ø 5mm, 330 mm



300-400-109

300-410-109

300-420-109

GRASPING FORCEPS

1x2 teeth, single action, Ø 5mm, 330 mm



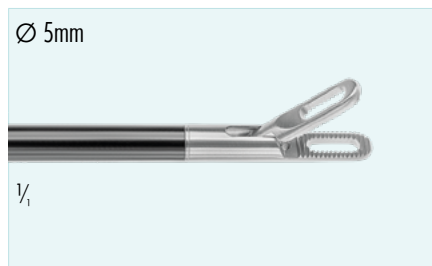
300-400-251*

300-410-251

300-420-251*

BABCOCK

Grasping Forceps, single action, Ø 5mm, 330 mm



300-400-023

300-410-023

300-420-023

JOHANS

Grasping Forceps, fenestrated jaws, serrated, 12mm, single action, Ø 5mm, 330 mm



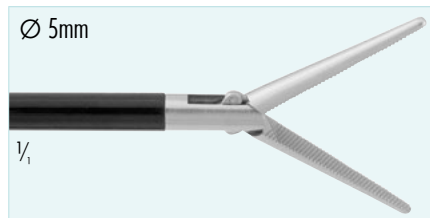
300-400-087

300-410-087

300-420-087

DUCKBILL

Grasping Forceps, serrated, double action, Ø 5mm, 330 mm



insert only
300-400-016*

 Complete Instrument with handle 300-750-003
300-410-016

 Complete Instrument with handle 300-750-101
300-420-016*

NEEDLE NOSE

Dissecting and grasping forceps with tapered and fine, cross-serrated jaws, double action, Ø 5mm, 330 mm



300-400-003

300-410-003

300-420-003

NEEDLE NOSE

Dissecting and grasping forceps with tapered and fine, cross-serrated jaws, single action, Ø 5mm, 330 mm



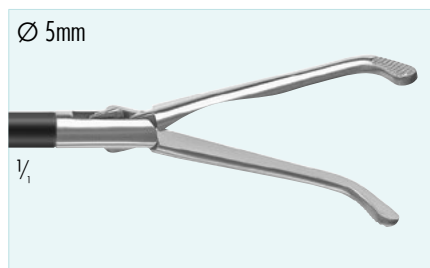
300-400-040

300-410-040

300-420-040

FENESTRATED BULLNOSE

Dissecting and grasping forceps with delicate, fenestrated and flat jaws, deep serration, double action, Ø 5mm, 330 mm



300-400-610

300-430-610

300-440-610

PYLORUS

Spreader, double action, Ø 5mm, 330 mm



insert only
300-400-025*

 Complete Instrument with handle 300-750-001
300-410-025

 Complete Instrument with handle 300-750-101
300-420-025*

 Complete Instrument with handle 300-750-003
300-430-025

 Complete Instrument with handle 300-750-103
300-440-025*

DOLPHIN

Dissecting and grasping forceps with biopsy cup and fine serrated and tapered jaws, double action, Ø 5mm, 330 mm



insert only

300-400-012*

Complete Instrument
with handle 300-750-003

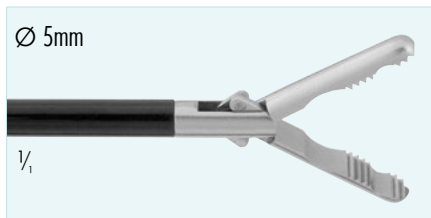
300-430-012

Complete Instrument
with handle 300-750-103

300-440-012*

JAEGER

Grasping forceps with fenestrated jaws, DeBakey serration, 20 mm, double action, Ø 5mm, 330 mm



300-400-015*

300-430-015

300-440-015*

FUNDUS

Grasping forceps with 2 cups and serrated jaws, double action, Ø 5mm, 330 mm



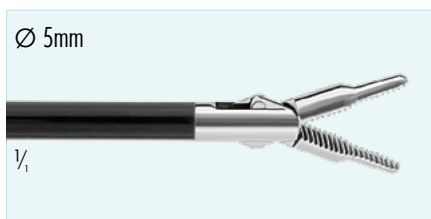
300-400-005

300-430-005

300-440-005

BULLDOG

Grasping forceps with fine serrated jaws, single action, Ø 5mm, 330 mm



300-400-021

300-430-021

300-440-021

DOLPHIN

Grasping and dissecting forceps with fine serrated tapered jaws, double action, Ø 5mm, 330 mm



insert only

300-400-001*



Complete Instrument
with handle 300-750-003

300-430-001



Complete Instrument
with handle 300-750-103

300-440-001*

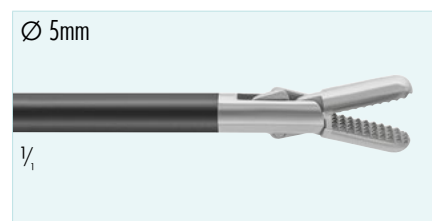


Complete Instrument
with handle 300-750-105

300-460-001*

BULLNOSE

Grasping forceps, heavy pattern, standard serrated jaws, double action, Ø 5mm, 330 mm



300-400-008

300-430-008

300-440-008

300-460-008

STRONG TC GRASPER

Grasping forceps with Tungsten Carbide jaw inserts, heavy pattern, pyramidal tip, serrated jaws, double action, Ø 5mm, 330 mm



300-400-029*

300-430-029

300-440-029*

300-460-029*

STRONG TC GRASPER

Grasping forceps with Tungsten Carbide jaw inserts, heavy pattern, pyramidal tip, serrated, 15mm long jaws, double action, Ø 5mm, 330 mm



300-400-002

300-430-002

300-440-002

300-460-002

XL BULLNOSE

Grasping forceps, standard serrated jaws, double action, Ø 5mm, 330 mm



300-400-000

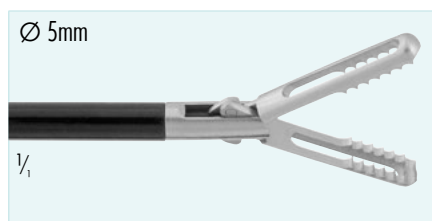
300-430-000

300-440-000

300-460-000

STANDARD

Grasping forceps with biopsy cup, heavy pattern, standard serrated jaws, double action, Ø 5mm, 330 mm



300-400-017*

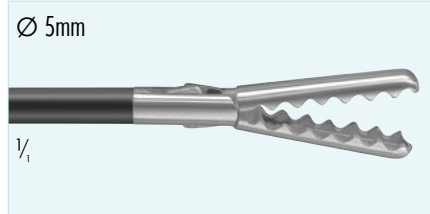
300-430-017

300-440-017*

300-460-017*

GRIPPER #1

Grasping forceps with coarse-serrated, fenestrated jaws, double action, Ø 5mm, 330 mm



insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103	Complete Instrument with handle 300-750-105
300-400-013*	300-430-013	300-440-013*	300-460-013*

PRESTIGE

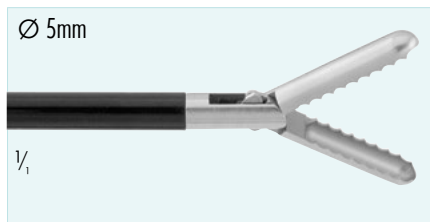
Atraumatic grasping forceps with long, wave shaped jaws and deep cup with lateral serration, double action, Ø 5mm, 330 mm



300-400-033*	300-430-033	300-440-033*	300-460-033*
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PRESTIGE

Grasping Forceps, wave-shaped lateral serration, and deep cup, single action, atraumatic, Ø 5mm, 330 mm



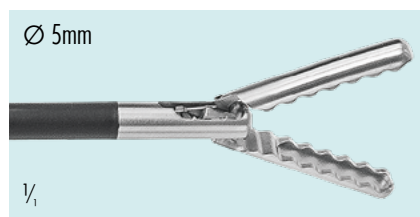
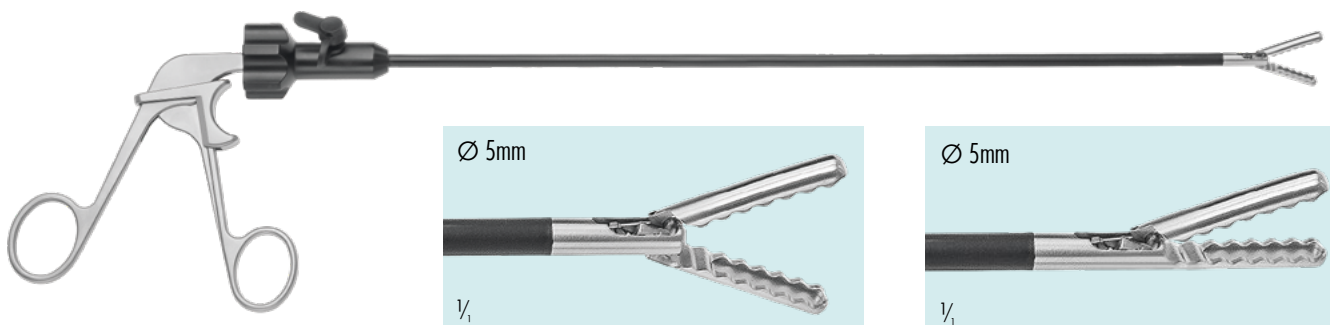
300-400-053	300-430-053	300-440-053	300-460-053
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ALLIGATOR

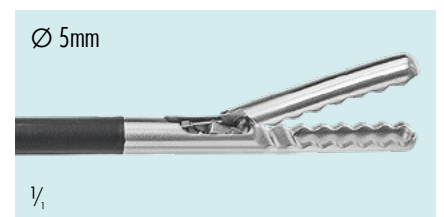
Grasping forceps with fine sharp lateral teeth and deep cup, double action, Ø 5mm, 330 mm

NON-DETACHABLE PRESTIGE FORCEPS

Complete Instrument, rotating, insulated, with prestige handle and Luer-Lock connection, 330mm working length



300-111-013
Double action jaws



300-111-033
Single action jaws



insert only

300-400-004*



Complete Instrument
with handle 300-750-003

300-430-004



Complete Instrument
with handle 300-750-103

300-440-004*



Complete Instrument
with handle 300-750-105

300-460-004*

KOCHER

Grasping forceps with aggressive 3 x 4 teeth and serrated inner jaws, double action, Ø 5mm, 330 mm



300-400-006

300-430-006

300-440-006

300-460-006

KOCHER

Grasping forceps with aggressive 2 x 4 teeth and serrated inner jaws, single action, Ø 5mm, 330 mm



300-400-014

300-430-014

300-440-014

300-460-014

ALLIS

Grasping forceps with 1 x 2 teeth and smooth inner jaws, single action, Ø 5mm, 330 mm



300-400-009

300-430-009

300-440-009

300-460-009

ALLIS

Grasping forceps with 1 x 2 teeth and serrated inner jaws, double action, Ø 5mm, 330 mm



300-400-201*

300-430-201

300-440-201*

300-460-201*

COBRA

Grasping forceps with sharp 2 x 4 teeth and serrated inner jaws, double action, Ø 5mm, 330 mm



insert only

300-400-011*



Complete Instrument
with handle 300-750-003

300-430-011



Complete Instrument
with handle 300-750-103

300-440-011*



Complete Instrument
with handle 300-750-105

300-460-011*

MARTIN

Grasping forceps with multiple fine serrations, 4.8 mm wide jaws, single action, Ø 5mm, 330 mm



300-400-713*

300-430-713

300-440-713*

300-460-713*

CLAW GRASPER

Grasping forceps, aggressive 2 x 3 teeth and smooth inner jaws, single action, Ø 5mm, 330 mm



300-401-713

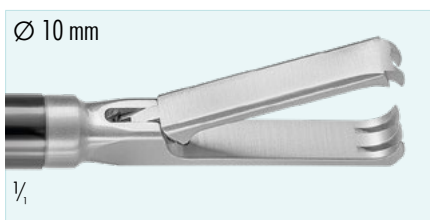
300-431-713

300-441-713

300-461-713

CLAW GRASPER

Grasping forceps, aggressive 2 x 3 teeth and smooth inner jaws, single action, Ø 5mm, 450 mm



300-400-710*

300-430-710

300-440-710*

300-460-710*

CLAW GRASPER

Grasping forceps, aggressive 2 x 3 teeth and smooth inner jaws, single action, Ø 10 mm, 330 mm



300-400-717

300-430-717

300-440-717

300-460-717

DAVIS

Grasping forceps, blunt interlocking 2 x 3 teeth and long ridged inner jaws, double action, Ø 5mm, 330 mm



300-400-715

300-430-715

300-440-715

300-460-715

ST. ANDREWS

Grasping forceps, with sharp 2 x 4 teeth and wave shaped inner jaws, double action, Ø 5mm, 330 mm



insert only
300-400-051

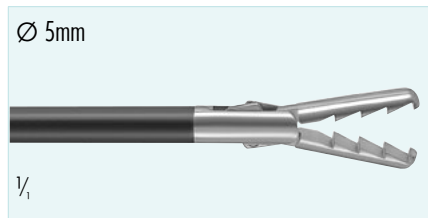
Complete Instrument
with handle 300-750-003
300-430-051

Complete Instrument
with handle 300-750-103
300-440-051

Complete Instrument
with handle 300-750-105
300-460-051

ALLIGATOR SPOON

Grasping forceps with cupped jaws, aggressive retrograde lateral teeth, double action, Ø 5mm, 330 mm



300-400-010*

300-430-010

300-440-010*

300-460-010*

ALLIGATOR

Grasping forceps with strong retrograde serrations, double action, Ø 5mm, 330 mm



300-400-048

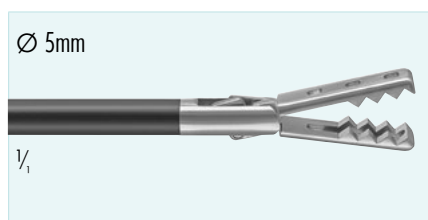
300-430-048

300-440-048

300-460-048

SHARK

Grasping forceps with very sharp and aggressive lateral retrograde teeth, double action, Ø 5mm, 330 mm



300-400-018

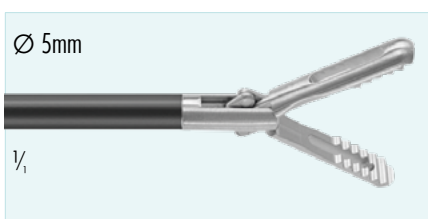
300-430-018

300-440-018

300-460-018

CLINCH

Grasping forceps with strong serration and fenestrated jaws, double action, Ø 5mm, 330 mm



300-400-049

300-430-049

300-440-049

300-460-049

ENDOCLINCH

Grasping forceps, wave-shaped, fenestrated, double action, Ø 5mm, 330 mm



insert only

300-400-042



Complete Instrument
with handle 300-750-003

300-410-042



Complete Instrument
with handle 300-750-103

300-420-042

PIN GRASPER

Grasping Forceps with fine 1x2 teeth, smooth inner jaws, double action, Ø 5mm, 330 mm



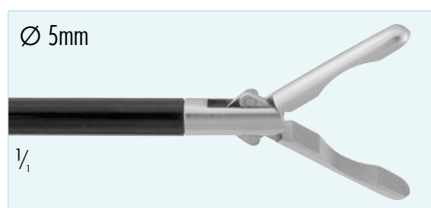
300-400-045

300-410-045

300-420-045

Ovary

Grasping forceps with fine serrated, wave shaped jaws, double action, Ø 5mm, 330 mm



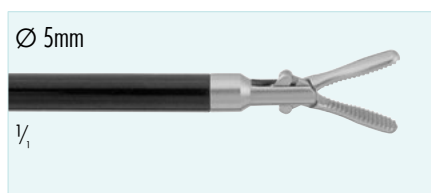
300-400-046

300-410-046

300-420-046

TUBAL

Dissecting and grasping forceps with smooth jaws, double action, Ø 5mm, 330 mm



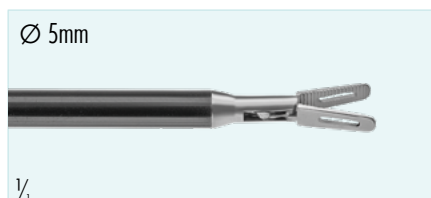
300-400-024

300-410-024

300-420-024

DUCKBILL

Grasping and dissecting forceps with flat jaws, fine serrations, double action, Ø 5mm, 330 mm



300-400-032

300-410-032

300-420-032

PETITE

Micro Grasping Forceps, double action, fenestrated, fine jaw, fine serration



300-400-026

300-410-026

300-420-026

PETELIN

Grasping and Dissecting Forceps with serrated jaws, curved left, single action, Ø 5mm, 330 mm



insert only

300-400-289*



Complete Instrument
with handle 300-750-003

300-430-289



Complete Instrument
with handle 300-750-103

300-440-289*

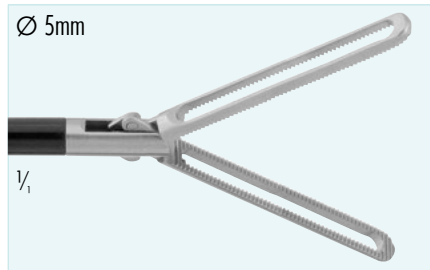


Complete Instrument
with handle 300-750-105

300-470-289*

JOHANS

Grasping forceps with 20 mm fenestrated jaws, double action, Ø 5mm, 330 mm



300-400-291*

300-430-291

300-440-291*

300-470-291*

LONG JOHANS

Grasping forceps with 40 mm fenestrated jaws, double action, Ø 5mm, 330 mm



300-400-285*

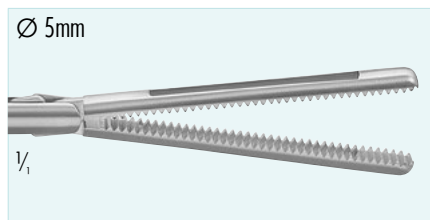
300-430-285

300-440-285*

300-470-285*

DORSEY

Grasping forceps with 12 mm fenestrated jaws, double action, Ø 5mm, 330 mm



300-400-287

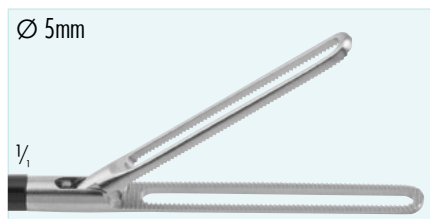
300-430-287

300-440-287

300-470-287

LONG DORSEY

Grasping forceps with 45mm fenestrated jaws, double action, Ø 5mm, 330 mm



300-400-288

300-430-288

300-440-288

300-470-288

LONG JOHANS

Grasping forceps with 40 mm fenestrated jaws, single action, Ø 5mm, 330 mm

Ø 5mm



1/1

insert only

300-400-284*



Complete Instrument
with handle 300-750-003

300-430-284



Complete Instrument
with handle 300-750-103

300-440-284*



Complete Instrument
with handle 300-750-105

300-470-284*

JOHANS

Grasping forceps with 20 mm fenestrated jaws, single action, Ø 5mm, 330 mm

Ø 5mm



1/1

300-400-310*

300-430-310

300-440-310*

300-470-310*

300-400-312**

300-430-312*

300-440-312**

300-470-312**

MARQUES

Grasping forceps with 2 fenestrations, single action, Ø 5mm, 330 mm

* with 3 fenestrations

Ø 5mm



1/1

300-400-314*

300-430-314

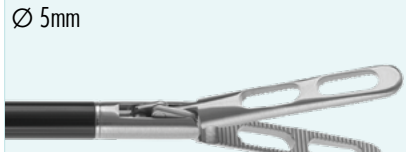
300-440-314*

300-470-314*

MARQUES

Grasping forceps with 2 fenestrations, bent up, single action, Ø 5mm, 330 mm

Ø 5mm



1/1

300-400-311

300-430-311

300-440-311

300-470-311

300-400-313*

300-430-313*

300-440-313*

300-470-313*

MARQUES

Grasping forceps with 2 fenestrations, double action, Ø 5mm, 330 mm

* with 3 fenestrations

Ø 5mm



1/1

300-400-052*

300-430-052

300-440-052*

300-470-052*

GRASPER

Atraumatic Grasping forceps with fenestrated jaws, fine serrations, double action, Ø 5mm, 330 mm

Ø 5mm



insert only

300-400-080*



Complete Instrument
with handle 300-750-001

300-410-080



Complete Instrument
with handle 300-750-101

300-420-080*

Biopsy forceps with 2 pinholes, sharp oval cups, double action, Ø 5mm, 330 mm

Ø 5mm



300-400-082

300-410-082

300-420-082

Biopsy forceps with sharp oval cups, double action, Ø 5mm, 330 mm

Ø 5mm



300-400-521

300-410-521

300-420-521

Biopsy forceps with 2 pins, sharp oval cups, single action, Ø 5mm, 330 mm

Ø 5mm



300-400-086

300-410-086

300-420-086

BLAKESLEY

Biopsy forceps with sharp cups, single action, Ø 5mm, 330 mm

Ø 5mm

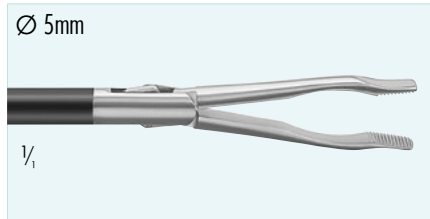


300-400-100

300-410-100

300-420-100

Hook punch forceps, thru-cutting, single action, Ø 5mm, 330 mm



insert only

300-400-250



Complete Instrument
with handle 300-750-003

300-430-250



Complete Instrument
with handle 300-750-103

300-440-250

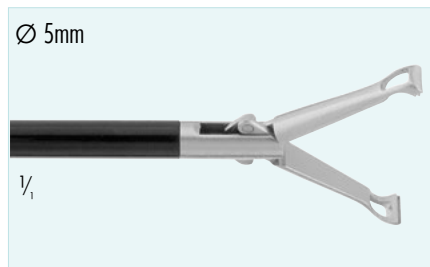


Complete Instrument
with handle 300-750-105

300-470-250

BABCOCK PADDLE

Grasping forceps with flat paddles and fine serration for atraumatic grip of delicate tissue, double action, Ø 5mm, 330 mm



300-400-252*

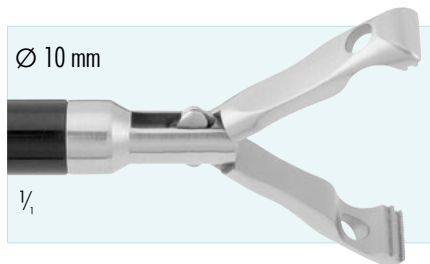
300-430-252

300-440-252*

300-470-252*

BABCOCK

Traditional style Babcock grasping forceps, rounded jaws with fine serrations, double action, Ø 5mm, 330 mm



300-400-079

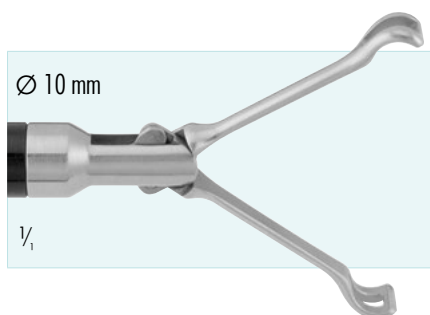
300-430-079

300-440-079

300-470-079

DEBAKEY BABCOCK

Traditional style Babcock grasping forceps, rounded jaws with atraumatic DeBaKey serration, double action, Ø 10 mm, 330 mm



300-400-078*

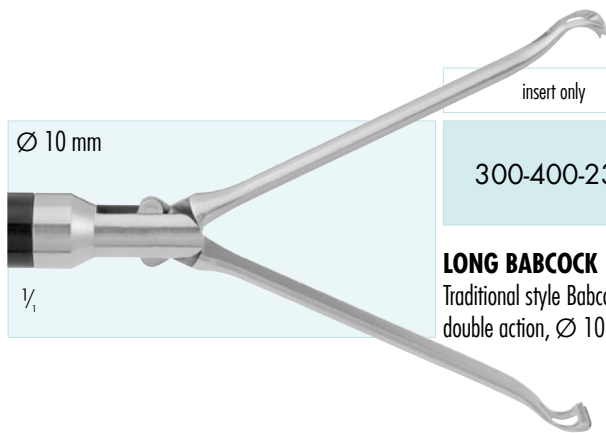
300-430-078

300-440-078*

300-470-078*

BABCOCK

Traditional style Babcock grasping forceps with medium jaws, rounded jaws with fine serrations, double action, Ø 10 mm, 330 mm



insert only

300-400-234



Complete Instrument
with handle 300-750-003

300-430-234



Complete Instrument
with handle 300-750-103

300-440-234

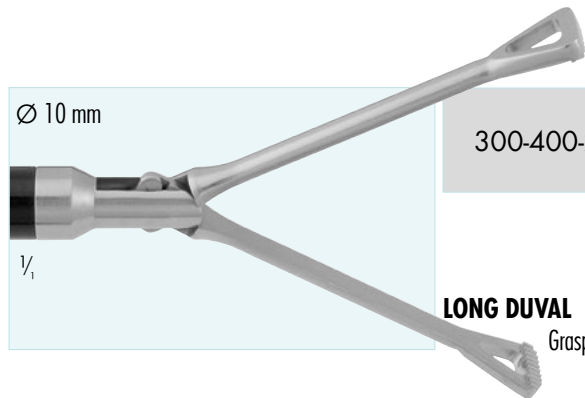


Complete Instrument
with handle 300-750-105

300-470-234

LONG BABCOCK

Traditional style Babcock grasping forceps with long jaws, rounded jaws with fine serrations, double action, Ø 10 mm, 330 mm



300-400-280

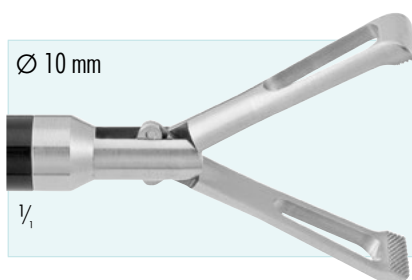
300-430-280

300-440-280

300-470-280

LONG DUVAL

Grasping forceps with long jaws, V-shaped tip with fine serrations, double action, Ø 10 mm, 330 mm



300-400-084

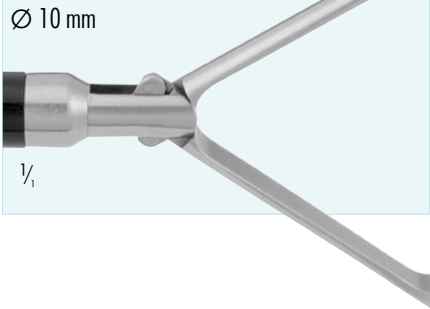
300-430-084

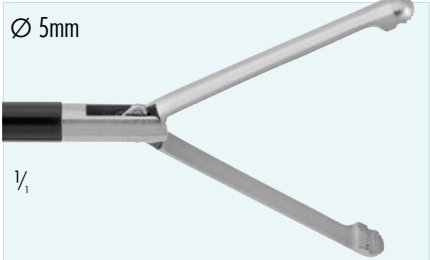
300-440-084

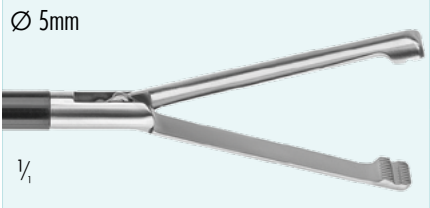
300-470-084

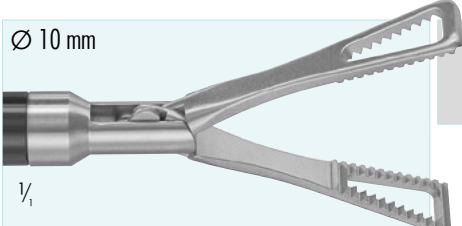
COLLIN-DUVAL

Grasping forceps, V-shaped tip with fine serrations on the tip, double action, Ø 10 mm, 330 mm

 Ø 10 mm 1/1	insert only	 Complete Instrument with handle 300-750-003	 Complete Instrument with handle 300-750-103	 Complete Instrument with handle 300-750-105
	300-400-074	300-430-074	300-440-074	300-470-074
	ALLIS Traditional Allis grasping forceps, with fine serrations on the tip, double action, Ø 10 mm, 330 mm			

 Ø 5mm 1/1	300-400-097	300-430-097	300-440-097	300-470-097
	SLIM ALLIS Grasping forceps with delicate jaws and with fine serrations on the tip, double action, Ø 5mm, 330 mm			

 Ø 5mm 1/1	300-400-197	300-430-197	300-440-197	300-470-197
	ALLIS Bowell grasping forceps, 4 mm x 35mm, double action, Ø 5mm, 330 mm			

 Ø 10 mm 1/1	300-400-085*	300-430-085	300-440-085*	300-470-085*
	COLLIN Grasping forceps, V-shaped tip with deep serrations for firm grip, double action, Ø 10 mm, 330 mm			



insert only
300-400-243

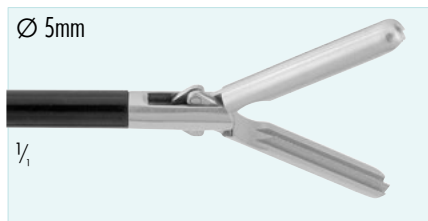
Complete Instrument with handle 300-750-003
300-430-243

Complete Instrument with handle 300-750-103
300-440-243

Complete Instrument with handle 300-750-105
300-460-243

DEBAKEY

Pick-up forceps with fine 22 mm long atraumatic serrations, 38 mm jaws, double action, Ø 5mm, 330 mm



300-400-244

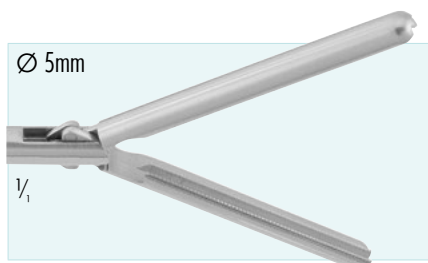
300-430-244

300-440-244

300-460-244

DEBAKEY

Atraumatic grasping forceps, fine atraumatic serrations, double action, 25mm jaws, Ø 5mm, 330 mm



300-400-245

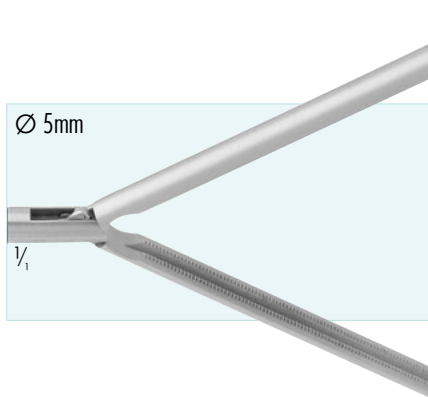
300-430-245

300-440-245

300-460-245

DEBAKEY

Atraumatic grasping forceps, fine atraumatic serrations, double action, 40 mm jaws, Ø 5mm, 330 mm



300-400-246

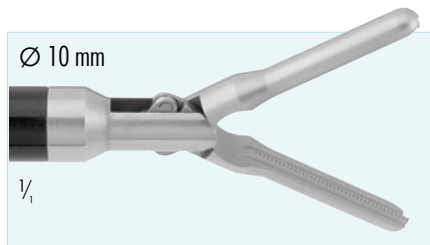
300-430-246

300-440-246

300-460-246

DEBAKEY

Atraumatic grasping forceps, fine atraumatic serrations, double action, 60 mm jaws, Ø 5mm, 330 mm



insert only
300-400-263

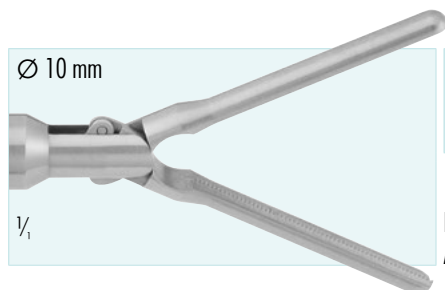
 Complete Instrument with handle 300-750-003
300-430-263

 Complete Instrument with handle 300-750-103
300-440-263

 Complete Instrument with handle 300-750-105
300-460-263

DEBAKEY

Atraumatic grasping forceps, fine atraumatic serrations, double action, 25mm jaws, Ø 10 mm, 330 mm



300-400-264

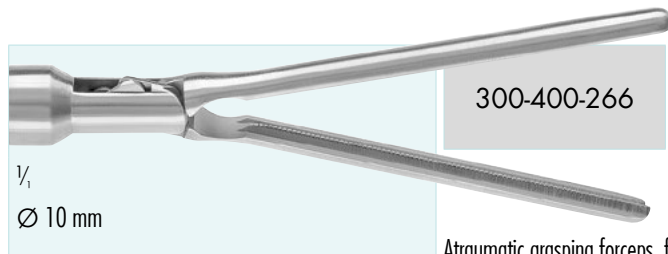
300-430-264

300-440-264

300-460-264

DEBAKEY

Atraumatic grasping forceps, fine atraumatic serrations, double action, 40 mm jaws, Ø 10 mm, 330 mm



300-400-266

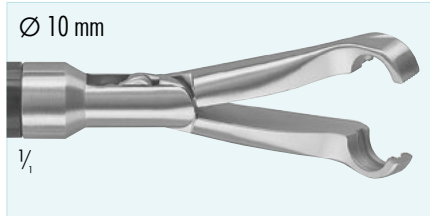
300-430-266

300-440-266

300-460-266

DEBAKEY

Atraumatic grasping forceps, fine atraumatic serrations, double action, 60 mm jaws, Ø 10 mm, 330 mm



insert only
300-400-295

Complete Instrument
with handle 300-750-003
300-430-295

Complete Instrument
with handle 300-750-103
300-440-295

Complete Instrument
with handle 300-750-105
300-460-295

ANVIL

Grasping forceps with specially shaped jaws to grasp and hold the anvil of a circular stapler, double action, Ø 10 mm, 330 mm



300-400-286

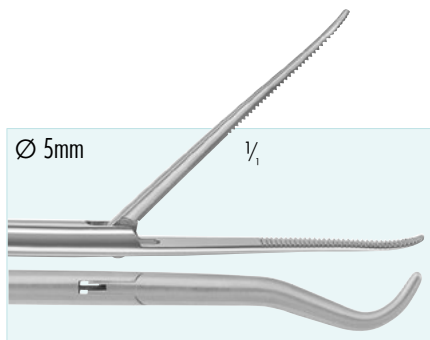
300-430-286

300-440-286

300-460-286

DORSEY

Grasping forceps, fenestrated jaws with medium serrations, double action, Ø 10 mm, 330 mm



300-400-030

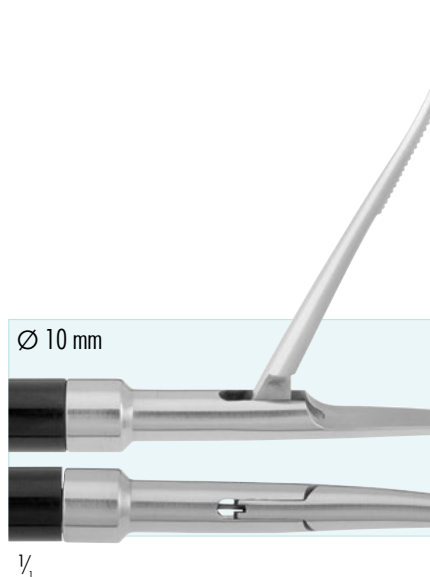
300-430-030

300-440-030

300-460-030

GEEGEE

Dissecting and grasping forceps with fine jaws, strongly curved and fine serrations, single action, Ø 5mm, 330 mm



300-400-076

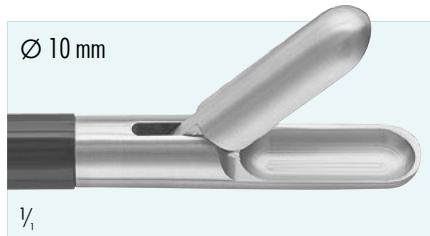
300-430-076

300-440-076

300-460-076

GEEGEE

Dissector and grasping forceps with fine jaws, strongly curved and fine serration, single action, Ø 10 mm, 330 mm



insert only
300-400-720*

Complete Instrument
with handle 300-750-003
300-430-720

Complete Instrument
with handle 300-750-103
300-440-720*

Complete Instrument
with handle 300-750-105
300-460-720*

SPOON

Forceps with sharp, cup-shaped jaws for tissue or stone removal, **single action**, Ø 10 mm, 330 mm



300-400-781

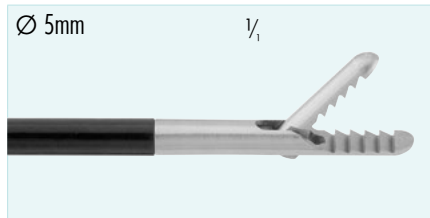
300-430-781

300-440-781

300-460-781

NUSSBAUM INTESTINAL CLAMP

Longitudinal, flexible and cross-serrated jaws, 8 mm x 90 mm, Ø 10 mm, 330 mm



300-400-700

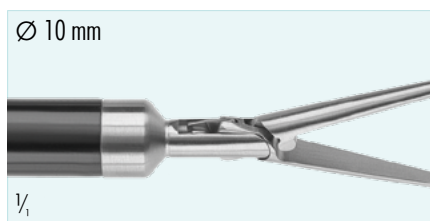
300-430-700

300-440-700

300-460-700

RETROGRADE

Grasping and extracting forceps with deep retrograde serration for a secure grip of tissue, **single action**, Ø 5mm, 330 mm



300-400-753*

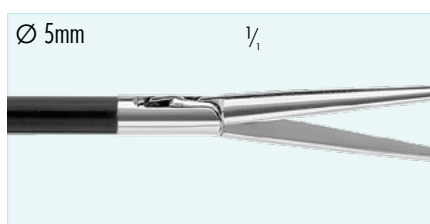
300-430-753

300-440-753*

300-460-753*

TENACULUM FORCEPS

35mm long jaws, **double action**, Ø 10 mm, 330 mm



300-400-751*

300-430-751

300-440-751*

300-460-751*

TENACULUM FORCEPS

35mm long jaws, **double action**, Ø 5mm, 330 mm



Complete Instrument
with handle 300-750-015

insert only

Ø 5mm

300-400-200*

300-490-200

1/1

SATINSKY

Grasping Forceps, 50 mm atraumatic jaws, Ø 5mm, 330 mm

Ø 5mm

300-400-202

300-490-202

1/1

SATINSKY

Grasping Forceps, 40 mm atraumatic jaws, Ø 5mm, 330 mm

Ø 5mm

300-400-206

300-490-206

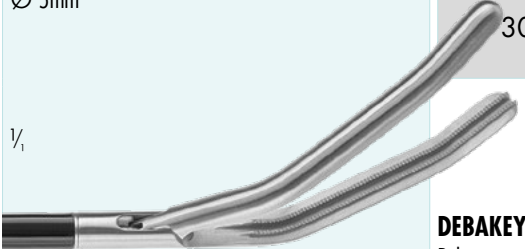
1/1

CRAFOORD

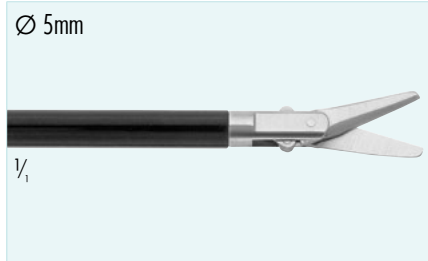
Thorax clamp, 50 mm atraumatic jaws, Ø 5mm, 330 mm

 Ø 5mm 1/1	insert only	 Complete Instrument with handle 300-750-015
	300-400-204	300-490-204

CRAFOORD
Thorax clamp, 35mm atraumatic jaws, Ø 5mm, 330 mm

 Ø 5mm 1/1	300-400-220*	300-490-220
	DEBAKEY Pulmonary atraumatic Clamp, curved shape, Ø 5mm, 330 mm	

 Ø 5mm 1/1	300-400-221	300-490-221
	DEBAKEY Pulmonary atraumatic Clamp, s-shaped, Ø 5mm, 330 mm	



insert only

300-400-067*



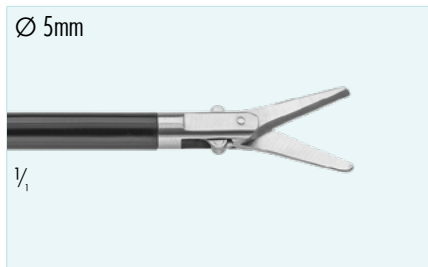
300-410-067



300-420-067*

ORIGINAL METZENBAUM

Scissors, short blades (12 mm), slightly curved, double action, Ø 5mm, 330 mm



300-400-069*

300-410-069

300-420-069*

METZENBAUM

Scissors, short blades (12 mm), straight, double action, Ø 5mm, 330 mm



300-400-172

300-410-172

300-420-172

METZENBAUM

Scissors, short, with **Diamond Dusted** blades (12 mm), curved, double action, Ø 5mm, 330 mm



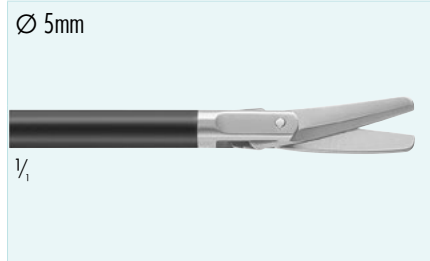
300-400-168

300-410-168

300-420-168

METZENBAUM

Scissors, medium, with **Diamond Dusted** blades (15mm), straight, double action, Ø 5mm, 330 mm



insert only

300-400-072*



Complete Instrument
with handle 300-750-001

300-410-072

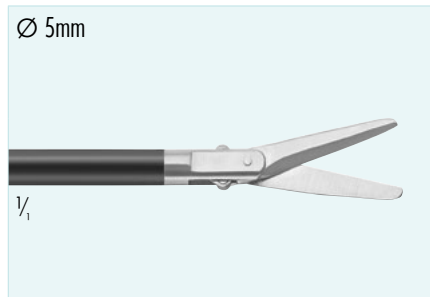


Complete Instrument
with handle 300-750-101

300-420-072*

METZENBAUM

Scissors, medium blades (15mm), slightly curved, double action, Ø 5mm, 330 mm



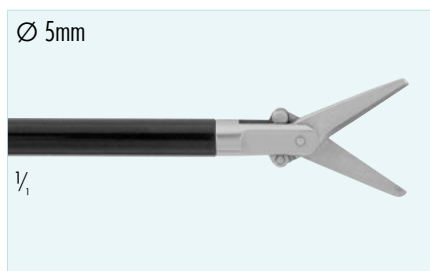
300-400-070*

300-410-070

300-420-070*

METZENBAUM

Scissors, long blades (18 mm), slightly curved, double action, Ø 5mm, 330 mm



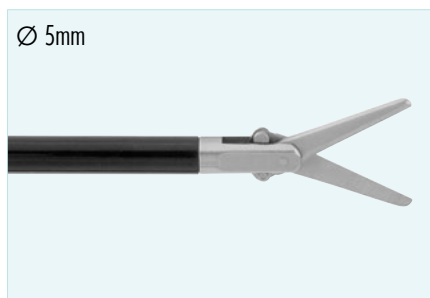
300-400-068*

300-410-068

300-420-068*

METZENBAUM

Scissors, medium blades (15mm), straight, double action, Ø 5mm, 330 mm



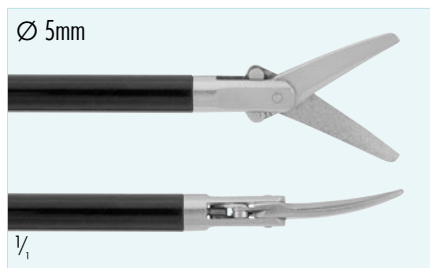
300-400-071

300-410-071

300-420-071

METZENBAUM

Scissors, long blades (18 mm), straight, double action, Ø 5mm, 330 mm



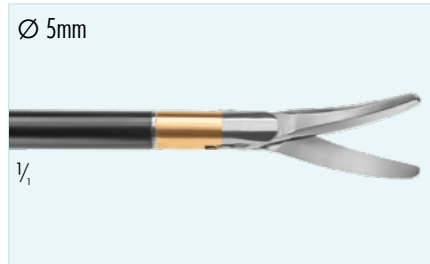
300-400-169

300-410-169

300-420-169

METZENBAUM

Scissors, medium blades (15mm) coated with **Diamond Dust**, slightly curved, double action, Ø 5mm, 330 mm, **DD-Coating** gives the scissors' blades a more durable cutting performance.



TC METZENBAUM

Scissors, long blades (18 mm) with **Tungsten Carbide** inserts, strong curved, double action, Ø 5mm, 330 mm

insert only

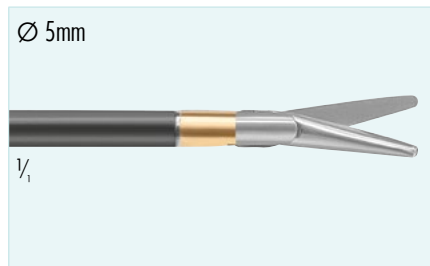
300-400-170

Complete Instrument
with handle 300-750-001

300-410-170

Complete Instrument
with handle 300-750-101

300-420-170



TC METZENBAUM

Scissors, short blades (12 mm) with **Tungsten Carbide** inserts, slight curved, double action, Ø 5mm, 330 mm

300-400-171

300-410-171

300-420-171



HINGELESS TC METZENBAUM

Scissors, long blades (18 mm), curved, double action, Ø 5mm, 330 mm, with **Tungsten Carbide** inserts
For use with shaft 300-660-015 only

300-400-180

300-410-180

300-420-180



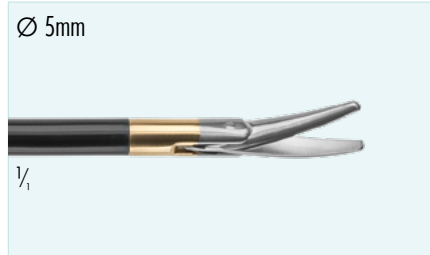
HINGELESS TC METZENBAUM

Scissors, short blades (12 mm), curved, double action, Ø 5mm, 330 mm, with **Tungsten Carbide** inserts
For use with shaft 300-660-015 only

300-400-181

300-410-181

300-420-181



insert only
300-400-173

Complete Instrument
with handle 300-750-001
300-410-173

Complete Instrument
with handle 300-750-101
300-420-173

METZENBAUM TC

TC Scissors, medium blades (15mm), curved, double action, Ø 5mm, 330 mm



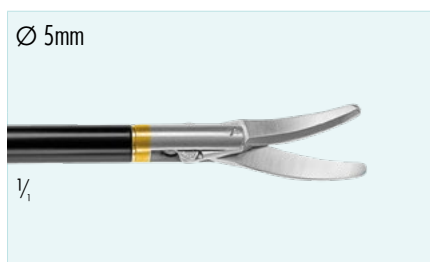
300-400-065

300-410-064

300-420-064

METZENBAUM

Scissors, bow shape curved, 16mm blades, fine serrated, double action, Ø 5mm, 330 mm



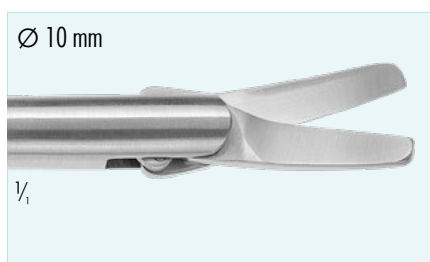
300-400-165*

300-410-165

300-420-165*

METZENBAUM TC

TC Scissors, bow shape curved, 16mm blades, fine serrated, double action, Ø 5mm, 330 mm



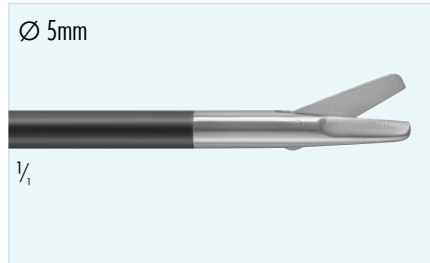
300-400-056

300-410-056

300-420-056

METZENBAUM

Scissors, slightly curved, double action, Ø 10 mm, 330 mm

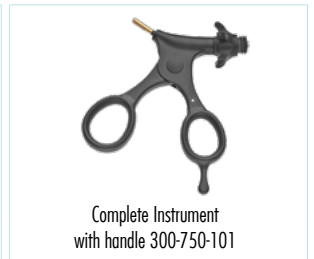


insert only

300-400-063



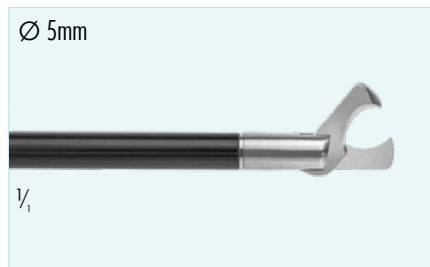
300-410-063



300-420-063

PERITONEAL

Scissors, delicate with fine serrated blades, straight, single action, Ø 5mm, 330 mm



300-400-060*

300-410-060

300-420-060*

HOOK

Scissors with round cutting blades, single action, Ø 5mm, 330 mm



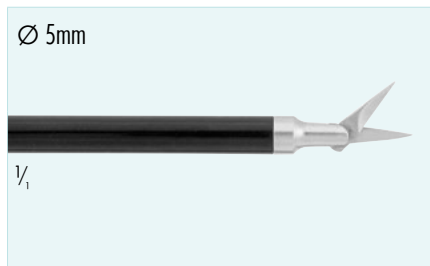
300-400-062

300-410-062

300-420-062

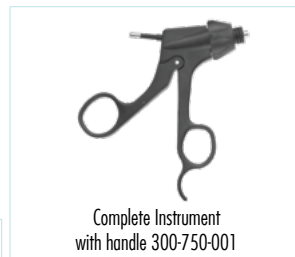
HOOK

Scissors with round cutting blades, fine serrated lower blade, single action, Ø 5mm, 330 mm

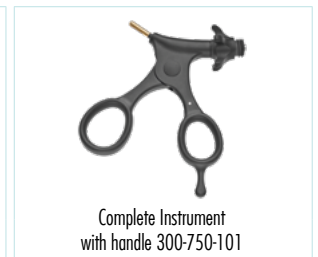


insert only

300-400-570



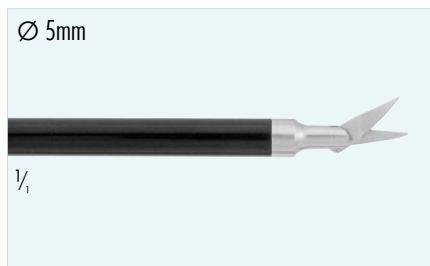
300-410-570



300-420-570

MICRO

Scissors with straight sharp blades, single action, Ø 5mm, 330 mm



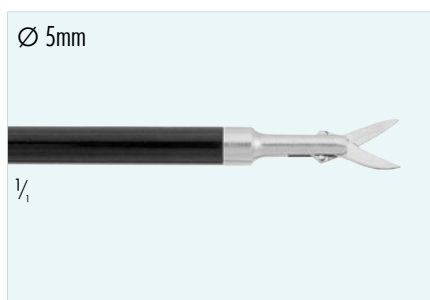
300-400-571

300-410-571

300-420-571

MICRO

Scissors with curved sharp blades, single action, Ø 5mm, 330 mm



300-400-572

300-410-572

300-420-572

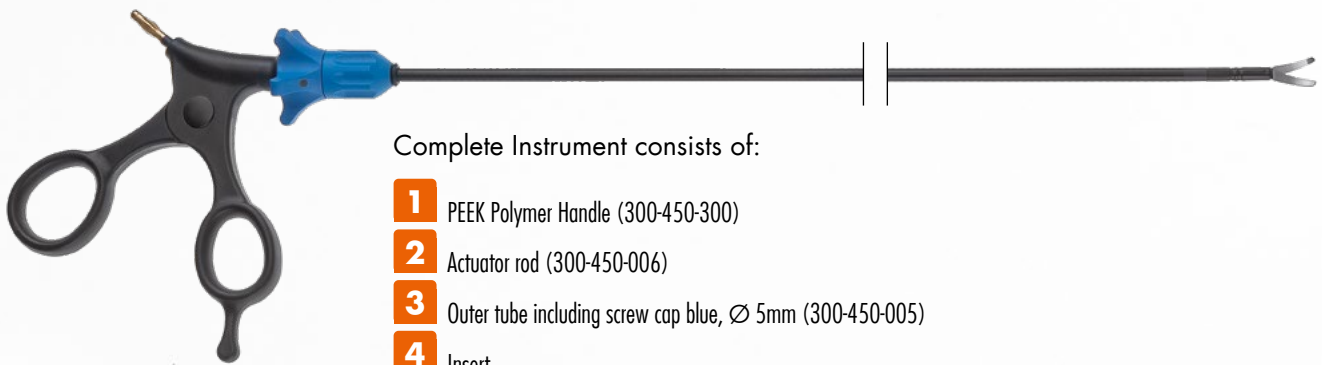
MICRO

Scissors with curved sharp blades, double action, Ø 5mm, 330 mm



4-PIECE ENDO TIP SYSTEM

- Reusable handle and shaft, disposable tip
- Always having a sharp tip
- Ecological and economical - reduces waste and saves budget



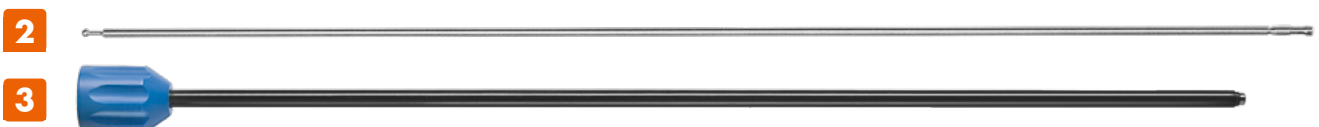
Complete Instrument consists of:

- 1** PEEK Polymer Handle (300-450-300)
- 2** Actuator rod (300-450-006)
- 3** Outer tube including screw cap blue, $\varnothing$ 5mm (300-450-005)
- 4** Insert

1 PEEK POLYMER HANDLES



300-450-300 PEEK Polymer Handle, blue rotating wheel,
without ratchet





The EndoTip system allows to reuse the handle and the sheath of the Instrument, but gives the opportunity to easily change the tip. That provides an always sharp scissors without creating the waste of a complete single use instrument.

4



METZENBAUM non-sterile, limited reusable
300-450-177 medium, 15mm curved
300-450-171 short, 10mm, curved
300-450-173 long, 18 mm, curved
300-450-174 long, 18 mm, straight
300-450-176 medium, 15mm, straight



METZENBAUM sterile, single use
300-450-177S medium, 15mm curved



JOHANS Grasper, fenestrated
300-450-289 non-sterile (limited reusable)



MARYLAND Grasper, curved
300-450-731 non-sterile (limited reusable)



ENDOCLINCH Grasper, fenestrated
300-450-049 non-sterile (limited reusable)

CHOLANGIOGRAPHY SYSTEM



300-100-760 Cholangiography fixation clamp with channel for 6 Fr. catheters,
Ø 5mm, 330 mm working length, with ratchet and LuerLock, double action jaws

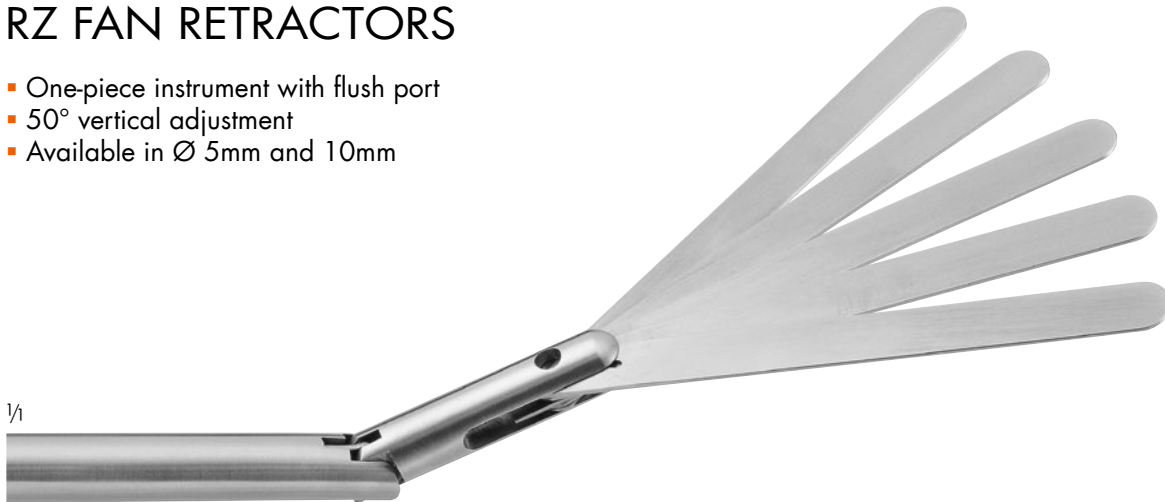


300-193-330 Guide tube for Cholangiography catheter,
Ø 5mm, 330 mm working length



RZ FAN RETRACTORS

- One-piece instrument with flush port
- 50° vertical adjustment
- Available in Ø 5mm and 10mm



1/1



RZ Fan Retractor, 330mm working length

300-065-000★ 10 mm, with 5 prongs

300-063-000★ 5mm, with 3 prongs



Esophagus Retractor with cleaning port, vertical up 90°, with distal hole

300-099-033 5mm, 330 mm working length

300-099-100 5mm, 440 mm working length

300-099-133 10 mm, 330 mm working length

300-099-140 10 mm, 440 mm working length



300-065-100 Advanced Fan Retractor, 10 mm, 5 prongs,
angulation: max. 80°, spread: max. 60°, length: 330 mm

ARTICULATING LAPAROSCOPIC RETRACTORS & BAND-PASSER

- 5mm shaft
- For use with 5.0 or 5.5mm trocars
- With LuerLock



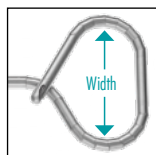
Carbon handle with overload protection



Atraumatic segments, jamming is prevented



The nitinol wire straightens the working end to allow easy introduction and extraction

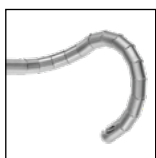


TRIANGULAR

Straight	Width	Working length	
	60mm	330mm	300-069-000*
	60mm	450mm	300-069-450
	80mm	330mm	300-070-000*
	80mm	450mm	300-070-450



30° angled	Width	Working length	
	60mm	330mm	300-072-000*
	60mm	450mm	300-072-450
	80mm	330mm	300-073-000*
	80mm	450mm	300-073-450*



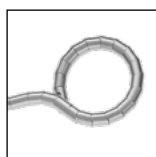
HOOK

90° upwards	Shape	Working length	
	Curved right	340mm	300-075-001
	Curved left	340mm	300-075-002



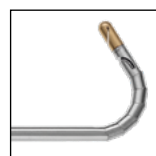
45° angled	Shape	Working length	
	Curved right	340mm	300-075-101
	Curved left	340mm	300-075-102





CIRCLE

	Width	Working length	
Straight	40mm	340mm	300-076-001
Angled	40mm	340mm	300-076-101



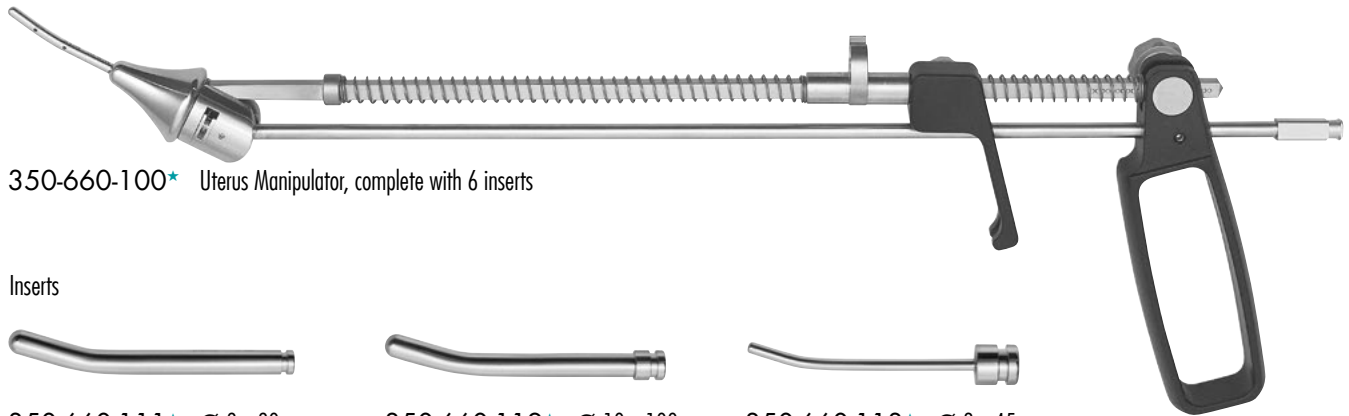
BAND-PASSER

Working length	
330mm	300-071-000*
450mm	300-071-450*



J-RETRACTOR

Working length	
340mm	300-077-000



350-660-100* Uterus Manipulator, complete with 6 inserts

Inserts



350-660-111* Ø 8 x 80 mm



350-660-112* Ø 10 x 100 mm



350-660-113* Ø 3 x 45mm



350-660-114* Ø 3 x 55mm



350-660-115* Ø 3.2 x 35mm



350-660-116* Ø 3.2 x 45mm



COHEN

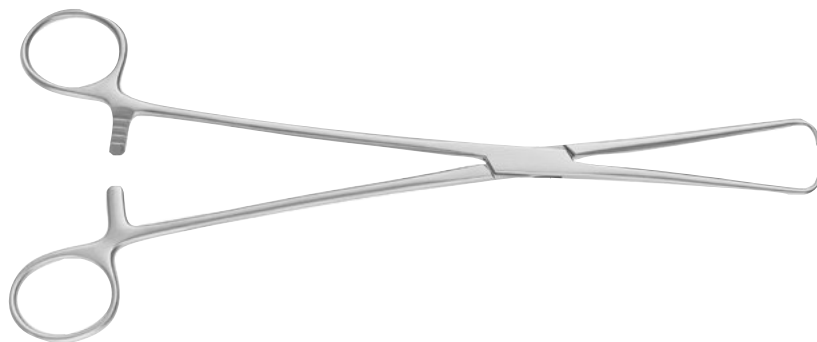
Self retaining Cannula complete with 2 interchangeable acorns

350-750-000*

Acorn only

350-750-002 large

350-750-001 small



350-400-250* **SCHROEDER** tenaculum forceps



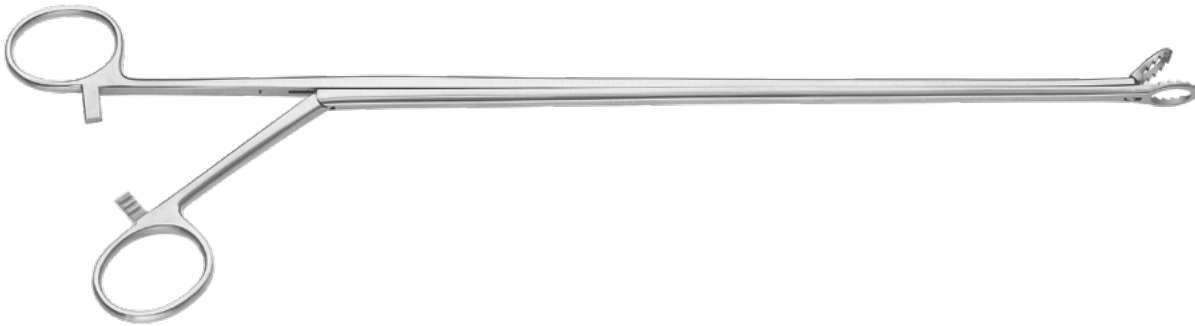
Myoma screw

300-032-015* Ø 5mm, 330mm working length

300-042-005 Ø 5mm, 420mm working length

300-033-010 Ø 10mm, 330mm working length

300-042-010 Ø 10mm, 420mm working length

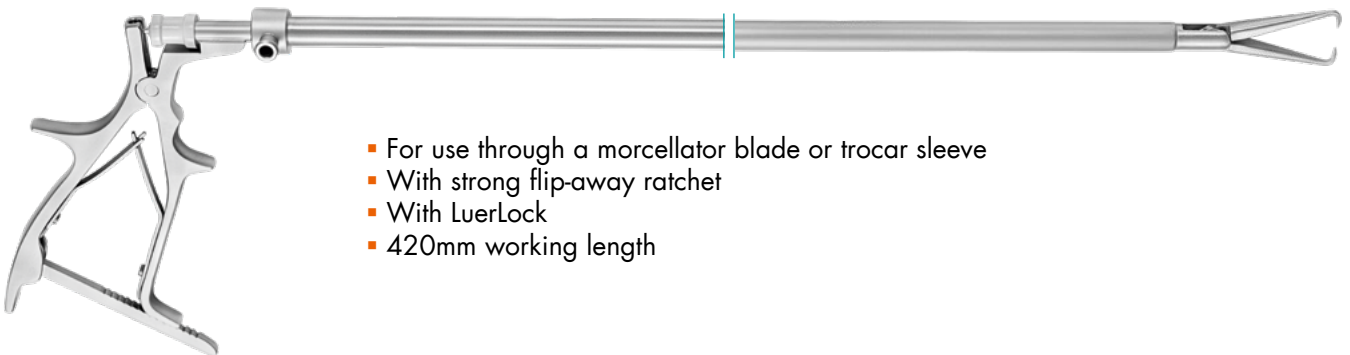


RZ Myoma Grasping Forceps, 330 mm working length

350-755-007 7 mm jaws

350-755-011 ★ 11 mm jaws

350-755-017 17 mm jaws



- For use through a morcellator blade or trocar sleeve
- With strong flip-away ratchet
- With LuerLock
- 420mm working length



300-110-714
Tenaculum Forceps, Ø10mm

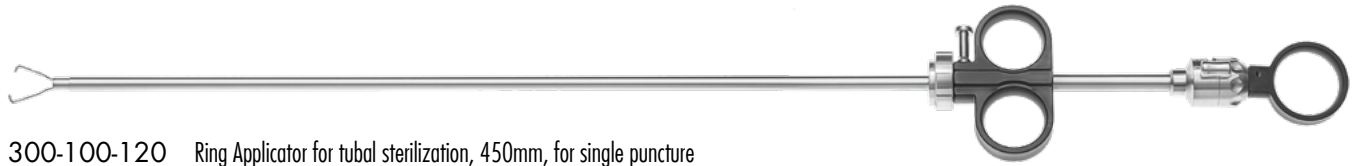


300-110-711
Claw Forceps, Ø10mm

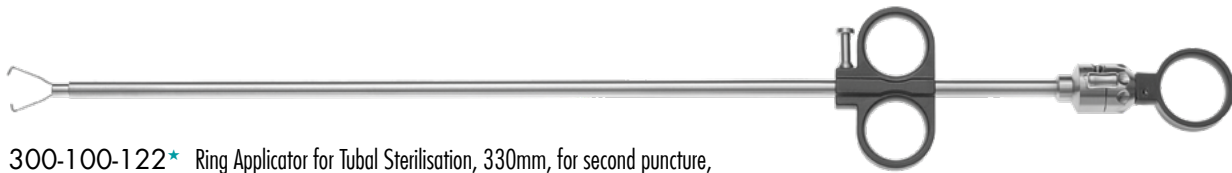


300-110-715
Tenaculum Forceps, Ø5mm

RZ RING APPLICATORS



- 300-100-120 Ring Applicator for tubal sterilization, 450mm, for single puncture for use with Operating Laparoscopes with Ø 6mm instrument channels (300-099-006).
A knurled screw is fixing the Ring Applicator securely to the telescope



- 300-100-122★ Ring Applicator for Tubal Sterilisation, 330mm, for second puncture, for use with Trocar sleeves Ø 7.0mm

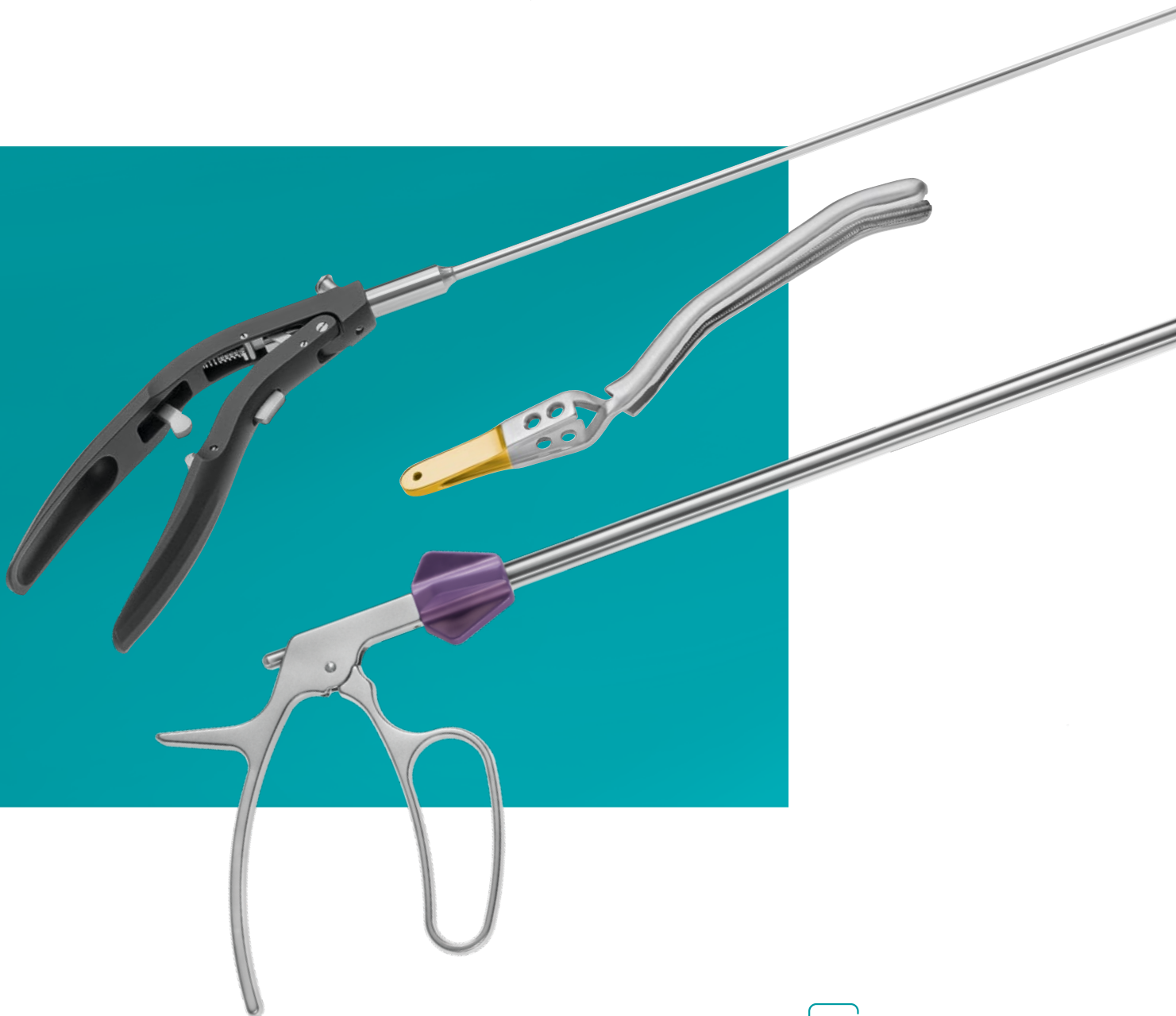


- 300-100-125 Cone for Ring Applicator



- 300-100-127 Loading Device for Ring Applicator

CLIP APPLYING BULLDOG CLAMPS NEEDLE HOLDERS



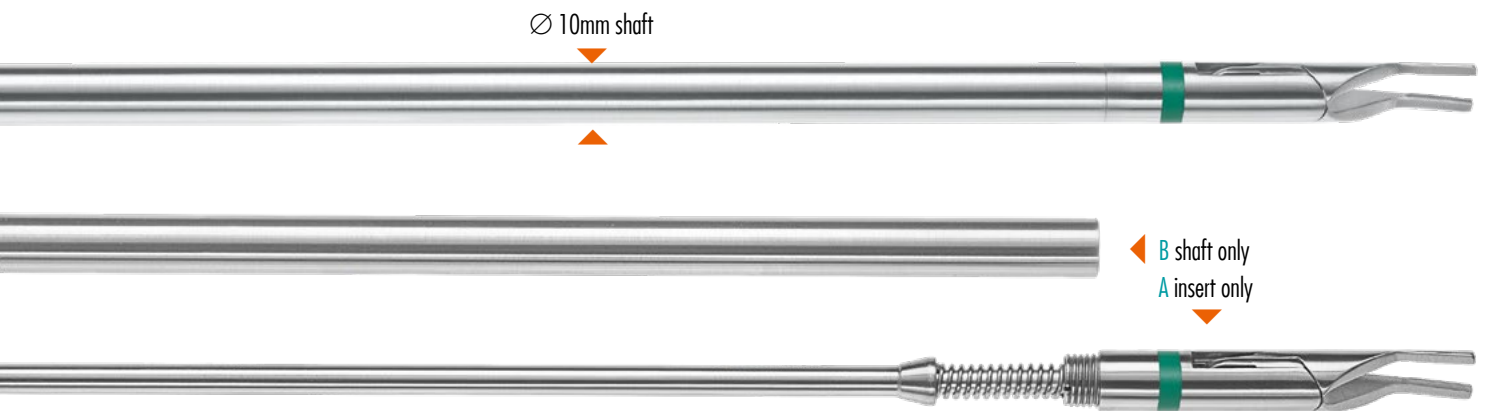
ENDOSCOPIC CLIP APPLYING FORCEPS - TITAN CLIPS

- 360° rotatable
- Color-coded
- Detachable and non-detachable models



TYPE ETHICON, TITANIUM

Size / color code	detachable, 330mm	A insert only, 330mm	B shaft only
S (blue) ■	300-810-001	300-810-101	300-830-010
M (white) □	300-810-002	300-810-102	300-830-010
M/L (green) ■	300-810-004★	300-810-104	300-830-010
L (yellow) ■	300-810-006★	300-810-106	300-830-010
Size / color code	detachable, 450mm	A insert only, 450mm	B shaft only
S (blue) ■	300-810-401	300-810-501	300-830-410
M (white) □	300-810-402	300-810-502	300-830-410
M/L (green) ■	300-810-404	300-810-504	300-830-410
L (yellow) ■	300-810-406	300-810-506	300-830-410
Size / color code	non detachable, 330mm	non detachable, 450mm	
S (blue) ■	300-800-001	300-800-401	
M (white) □	300-800-002	300-800-402	
M/L (green) ■	300-800-004★	300-800-404	
L (yellow) ■	300-800-006★	300-800-406	



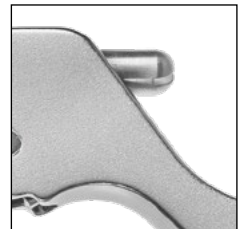
TYPE HORIZON, TITANIUM

Titan Clips,
Ethicon and
Horizon type



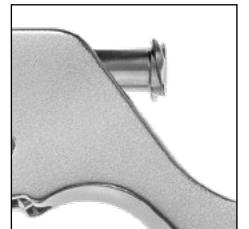
Size / color code	detachable, 330mm	A insert only, 330mm	B shaft only
S (yellow) 	300-810-011	300-810-111	300-830-010
M (blue) 	300-810-012	300-810-112	300-830-010
M/L (green) 	300-810-014	300-810-114	300-830-010
L (orange) 	300-810-016	300-810-116	300-830-010

Detachable Forceps
without LuerLock



Size / color code	detachable, 450mm	A insert only, 450mm	B shaft only
S (yellow) 	300-810-411	300-810-511	300-830-410
M (blue) 	300-810-412	300-810-512	300-830-410
M/L (green) 	300-810-414	300-810-514	300-830-410
L (orange) 	300-810-416	300-810-516	300-830-410

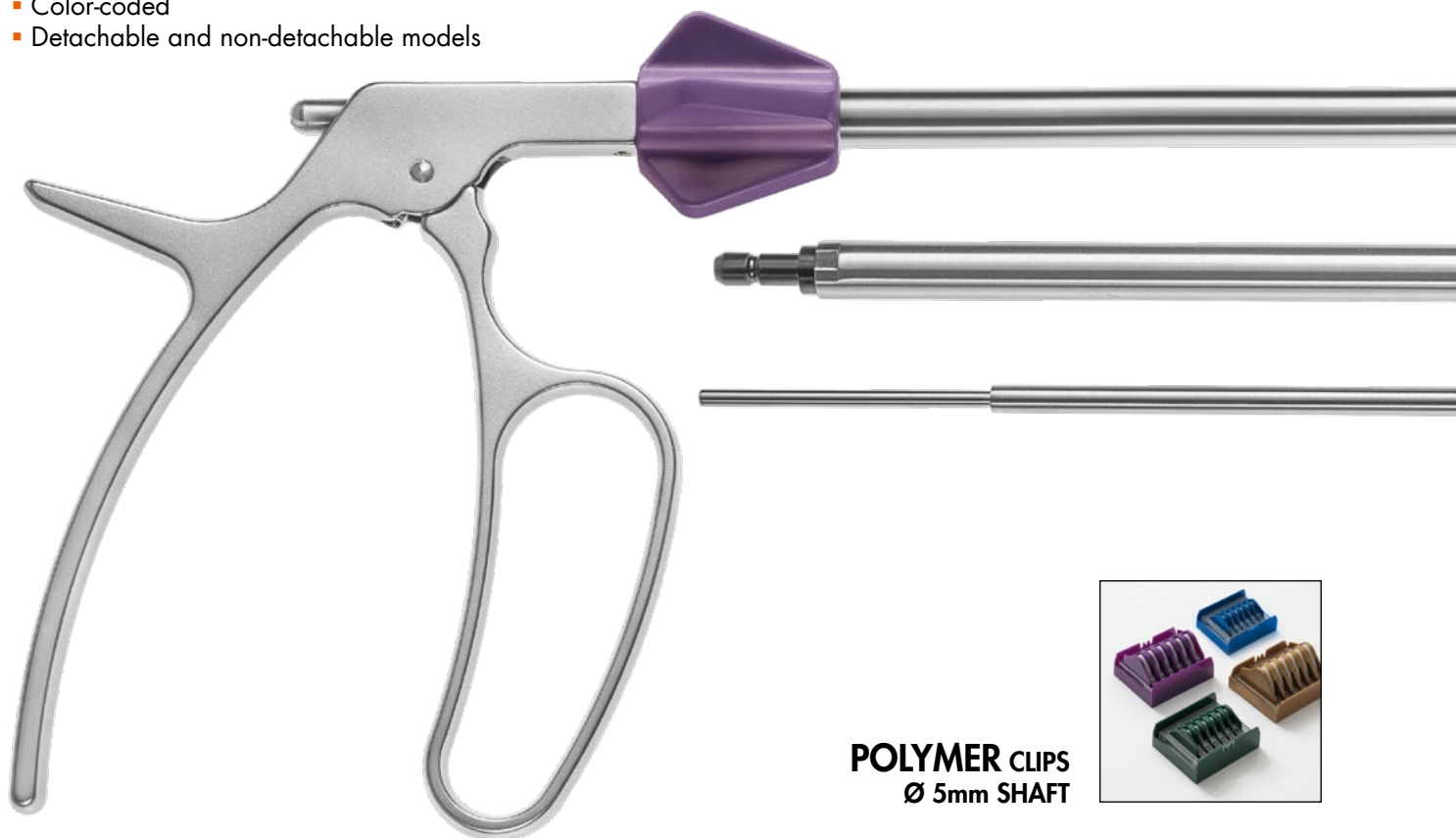
Non-detachable Forceps
with LuerLock



Size / color code	non detachable, 330mm	non detachable, 450mm
S (yellow) 	300-800-011	300-800-411
M (blue) 	300-800-012	300-800-412
M/L (green) 	300-800-014	300-800-414
L (orange) 	300-800-016	300-800-416

ENDOSCOPIC CLIP APPLYING FORCEPS - POLYMER CLIPS

- 360° rotatable
- Color-coded
- Detachable and non-detachable models



POLYMER CLIPS Ø 5mm SHAFT

Size / color code	detachable, 330mm	A insert only, 330mm	B shaft only
M (blue) ■	300-830-051	300-830-151	300-830-005
M/L (green) ■	300-830-052	300-830-152	300-830-005

Ø 10mm SHAFT

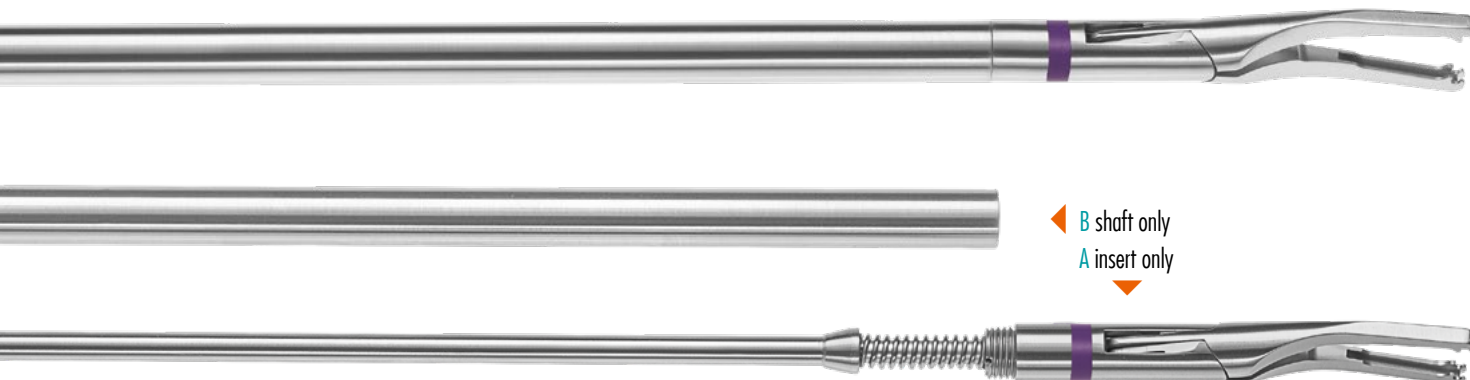
Size / color code	detachable, 330mm	A insert only, 330mm	B shaft only
L (purple) ■	300-830-013	300-830-113	300-830-010
XL (yellow) ■	300-830-014	300-830-114	300-830-010

Ø 5mm SHAFT

Size / color code	detachable, 450mm	A insert only, 450mm	B shaft only
M (blue) ■	300-830-451	300-830-551	300-830-405
M/L (green) ■	300-830-452	300-830-552	300-830-405

Ø 10mm SHAFT

Size / color code	detachable, 450mm	A insert only, 450mm	B shaft only
L (purple) ■	300-830-413	300-830-513	300-830-410
XL (yellow) ■	300-830-414	300-830-514	300-830-410



Ø 5mm SHAFT

Size / color code	non-detachable, 330mm	non-detachable, 450mm
M (blue) 	300-820-051	300-820-451
M/L (green) 	300-820-052*	300-820-452*

Ø 10mm SHAFT

Size / color code	non-detachable, 330mm	non-detachable, 450mm
L (purple) 	300-820-013*	300-820-413*
XL (yellow) 	300-820-014*	300-820-414*

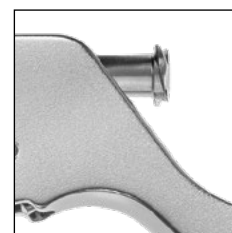
Polymer Clips
Applying Forceps



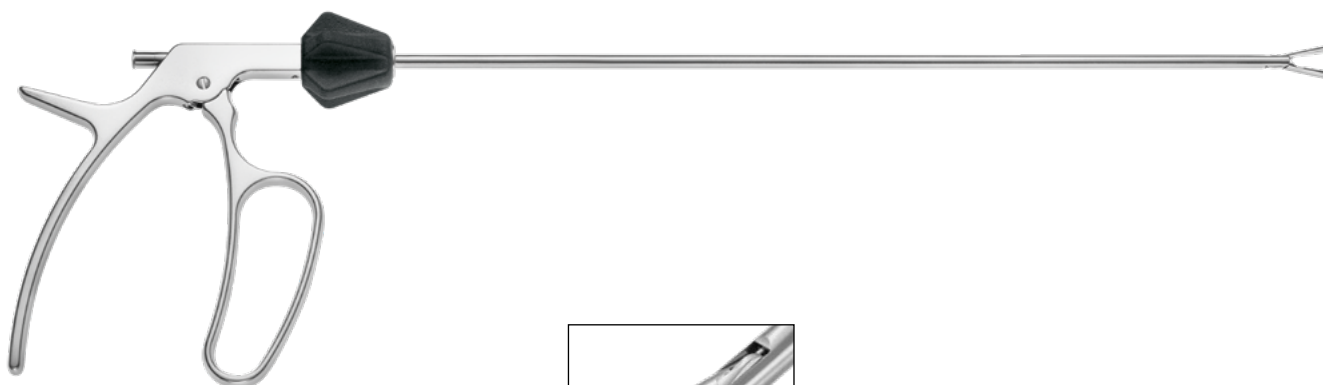
Detachable Forceps
without LuerLock



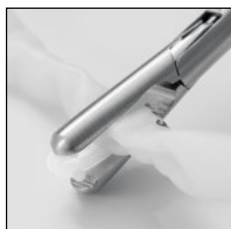
Non-detachable Forceps
with LuerLock



POLYMER CLIP REMOVING FORCEPS



Ø 5mm SHAFT



Polymer Clips
Removal Forceps

Size / color code	detachable, 330mm	insert only, 330mm	shaft only
M & M/L (black) ■	300-830-056	300-830-156	300-830-005

Ø 10mm SHAFT

Size / color code	detachable, 330mm	insert only, 330mm	shaft only
L & XL (black) ■	300-830-015	300-830-115	300-830-010

Ø 5mm SHAFT

Size / color code	detachable, 450mm	insert only, 450mm	shaft only
M & M/L (black) ■	300-830-456	300-830-556	300-830-405

Ø 10mm SHAFT

Size / color code	detachable, 450mm	insert only, 450mm	shaft only
L & XL (black) ■	300-830-415	300-830-515	300-830-410

Ø 5mm SHAFT

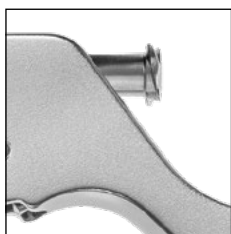
Size / color code	non detachable, 330mm	non detachable, 450mm
M & M/L (black) ■	300-820-056*	300-820-456

Ø 10mm SHAFT

Size / color code	non detachable, 450mm	non detachable, 450mm
L & XL (black) ■	300-820-015*	300-820-415

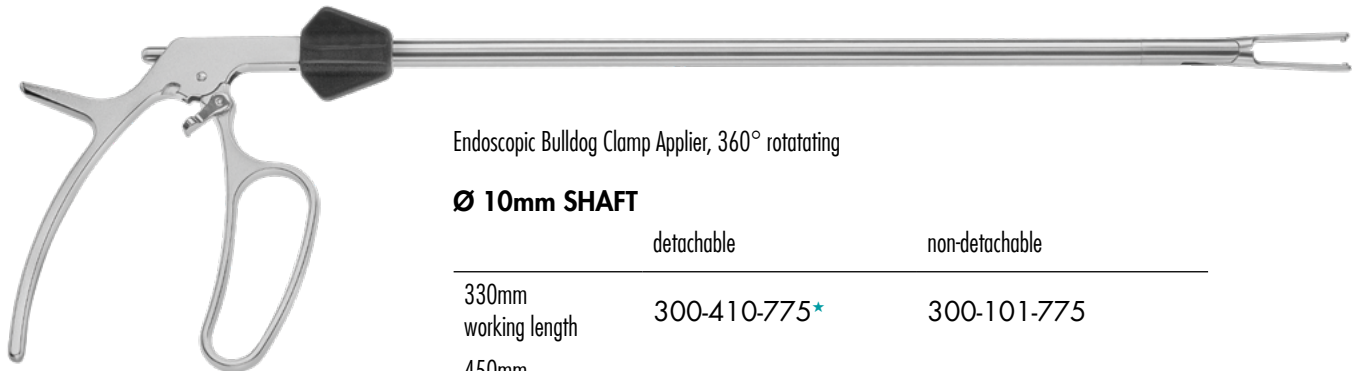


Detachable Forceps
without LuerLock



Non-detachable Forceps
with LuerLock

ENDOSCOPIC BULLDOG CLAMP APPLIER



Endoscopic Bulldog Clamp Applier, 360° rotating

Ø 10mm SHAFT

	detachable	non-detachable
330mm working length	300-410-775*	300-101-775
450mm working length	300-411-775	300-111-775



Shaft only, for detachable Bulldog Clamp Applier

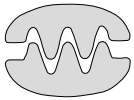
300-830-010 330 mm working length
300-830-410 450 mm working length



Insert only, for detachable Bulldog Clamp Applier

300-400-775 330 mm working length
300-401-775 450 mm working length





2 x 3 rows of teeth



Endoscopic Vascular Bulldog Clamp, straight, with DeBakey serration

300-100-773★ 17 mm jaws

300-100-774★ 25mm jaws



Endoscopic Bulldog Clamp for bowel surgery, straight, with DeBakey serration

300-100-771★ 45mm jaws

300-100-772★ 60 mm jaws



Endoscopic Vascular Bulldog Clamp, curved, with DeBakey serration

300-100-776 17 mm jaws

300-100-777★ 25mm jaws



Endoscopic Bulldog Clamp for bowel surgery, curved, with DeBakey serration

300-100-778★ 45mm jaws

300-100-779 60 mm jaws



Endoscopic Satinsky Bulldog Clamp, with DeBakey serration

golden spring, to be used with 12.5mm trocar system

300-100-786 60 mm jaws



300-100-789 60 mm jaws

Endoscopic Satinsky Bulldog Clamp, curved, with atraumatic

DeBakey serration, to be used with 12.5mm trocar system

Endoscopic Bulldog Clamps with DeBakey serration

- Secure holding of tissue structure
- Occlusion of vessel and other tissue without an additional port
- Atraumatic cross clamping of the colon
- 450-475g closing pressure (300-100-771 - 779)

ROBOTIC BULLDOG CLAMP

- Specifically designed for use with robotic surgical system
- Single surgeon placement via Pro-Grasp® instrument
- Full control for optimal clamp placement
- Atraumatic DeBakey clamp design
- Introduced through 12.5mm cannula
- Suture hole for easy retrieval



Robotic Bulldog Clamp, bayonet shape,
with suture hole, blunt teeth
500g closing pressure
300-100-799* 30mm
300-100-798* 25mm



300-101-777
Robotic Bulldog Clamp Remover
Ø 10mm, rotatable, with LuerLock

TITANIUM ARTERIAL & VENOUS BULLDOG CLAMPS

- Different pressure color coding (A-Artery / V-Vein)
- Lightweight
- Non-magnetic
- Highest biocompatibility and corrosion resistance
- Mechanical strength
- DeBaKey serration



CLOSING PRESSURE

300 - 375g



Titanium Bulldog Clamp, straight, Code V (Vein),
blue

300-100-773TV	17mm jaw
300-100-774TV	25mm jaw
300-100-771TV	45mm jaw
300-100-772TV	60mm jaw



CLOSING PRESSURE

475 - 500g



Titanium Bulldog Clamp, straight, Code A (Artery), red

300-100-773TA	17mm jaw
300-100-774TA	25mm jaw
300-100-771TA	45mm jaw
300-100-772TA	60mm jaw

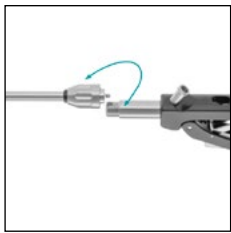


Applier recommendation:
300-101-775
300-410-775 (detachable)

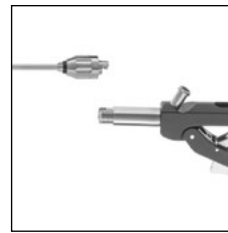


DETACHABLE NEEDLE HOLDERS

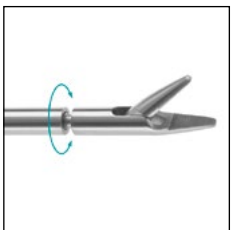
- Detachable 2- and 3-part system
- Easy cleaning
- Handle can be used with different inserts



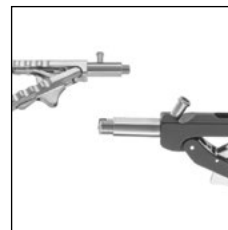
Detachable shaft from handle:
convertible system, better
cleaning possibilities



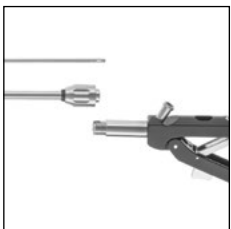
2-piece system:
An extra thin $\varnothing$ 3mm System
with 250mm and 330mm length
for Pediatric and Mini-Laparoscopy



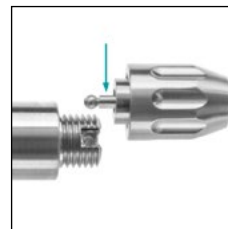
Secure screwing on the insert:
Perfect fit of the insert and
single cleaning
(only 3-piece system)



Modular handles:
Axial and straight handles
available to fulfill the surgeon's
needs and provide ergonomic
comfort

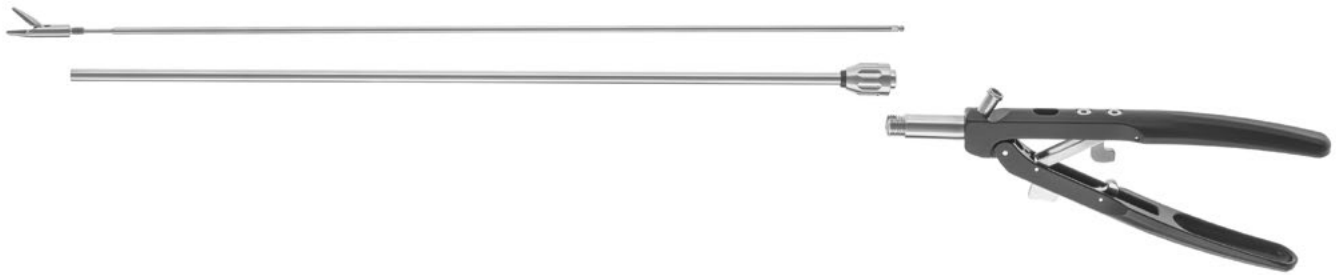


3-piece system:
Needle holder can be fitted
with different shafts and
inserts, different lengths
available



Anti-rotation feature:
due to an extra rectangular
connector, wrong insertion of
the insert is excluded

3-PIECE INSTRUMENT Ø 5mm



Insert only

Complete instrument



with axial handle

Complete instrument



with straight handle

Complete instrument



with angled handle



Straight jaw, TC

330mm 300-405-130
450mm 300-406-130

300-480-630
300-480-730

300-480-130
300-480-230

300-480-160
300-480-260



Left curved jaw, TC

330mm 300-405-140
450mm 300-406-140

300-480-640
300-480-740

300-480-140
300-480-240

300-480-170
300-480-270



Right curved jaw, TC

330mm 300-405-141
450mm 300-406-141

300-480-641
300-480-741

300-480-141
300-480-241

300-480-171
300-480-271



Diamond dusted jaw,
self-aligning

330mm 300-405-142
450mm 300-406-142

300-480-642
300-480-742

300-480-142
300-480-242

300-480-172
300-480-272



1x2 teeth jaw, TC

330mm 300-405-131
450mm 300-406-131

300-480-631
300-480-731

300-480-131
300-480-231

300-480-161
300-480-261

SINGLE PARTS FOR DETACHABLE NEEDLE HOLDER



Axial Handle, strong, straight
300-480-002



Axial Handle, straight
300-480-000



Axial Handle, angled
300-480-001



Outer Sheath, for combination with
shaft and insert, three-pieces
330mm 300-480-033
450mm 300-480-045

2-PIECE INSTRUMENT Ø 3mm



Insert and shaft	Complete instrument with straight handle	Complete instrument with angled handle
------------------	---	---



Straight jaw

330mm
250mm

300-405-330
300-404-330

300-480-330
300-480-530

300-480-360
300-480-560



Left curved jaw

330mm
250mm

300-405-340
300-404-340

300-480-340
300-480-540

300-480-370
300-480-570



Right curved jaw

330mm
250mm

300-405-341
300-404-341

300-480-341
300-480-541

300-480-371
300-480-571

1-PIECE NEEDLE HOLDER

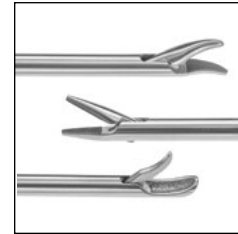
- Extremely light
- Aluminium anodized handle



Lightweight design with satin black surface



65° LuerLock flushing port for optimal accessibility



5 different jaw designs available



Rubber sealing cap included



6-tooth ratchet for always optimal positioning, with overload protection



Straight



Left curved



Right curved



1x2 teeth



Concave/convex



Ø 5mm STRAIGHT HANDLE

300-300-130*	straight	TC serrated	330mm
300-300-131	straight, 1x2 teeth	TC serrated	330mm
300-300-140*	left curved	TC serrated	330mm
300-300-141 *	right curved	TC serrated	330mm
300-300-142*	concave/convex	diamond dusted	330mm
300-300-230	straight	TC serrated	450mm
300-300-231	straight, 1x2 teeth	TC serrated	450mm
300-300-240	left curved	TC serrated	450mm
300-300-241	right curved	TC serrated	450mm
300-300-242	concave/convex	diamond dusted	450mm

Ø 5mm ANGLED HANDLE

300-300-160*	straight	TC serrated	330mm
300-300-161	straight, 1x2 teeth	TC serrated	330mm
300-300-170*	left curved	TC serrated	330mm
300-300-171 *	right curved	TC serrated	330mm
300-300-172*	concave/convex	diamond dusted	330mm
300-300-260	straight	TC serrated	450mm
300-300-261	straight, 1x2 teeth	TC serrated	450mm
300-300-270	left curved	TC serrated	450mm
300-300-271	right curved	TC serrated	450mm
300-300-272	concave/convex	diamond dusted	450mm

Ø 3mm STRAIGHT HANDLE

300-300-330	straight	TC serrated	330mm
300-300-340	left curved	TC serrated	330mm
300-300-341	right curved	TC serrated	330mm
300-300-430	straight	TC serrated	450mm
300-300-440	left curved	TC serrated	450mm
300-300-441	right curved	TC serrated	450mm

Ø 3mm ANGLED HANDLE

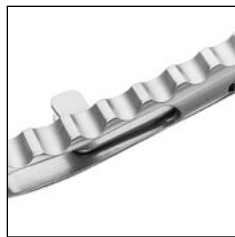
300-300-360	straight	TC serrated	330mm
300-300-370	left curved	TC serrated	330mm
300-300-371	right curved	TC serrated	330mm
300-300-460	straight	TC serrated	450mm
300-300-470	left curved	TC serrated	450mm
300-300-471	right curved	TC serrated	450mm

STAINLESS STEEL NEEDLE HOLDERS

- Automatic mechanism
- Smoothly releasing interlock



Smooth release lock, very robust handle design



Ergonomic and reliable handle design



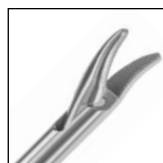
Straight LuerLock flushing port (sealing cap included)



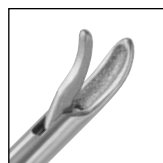
Straight



Left curved



Right curved



Diamond dusted, self aligning



Ø 5mm STRAIGHT HANDLE

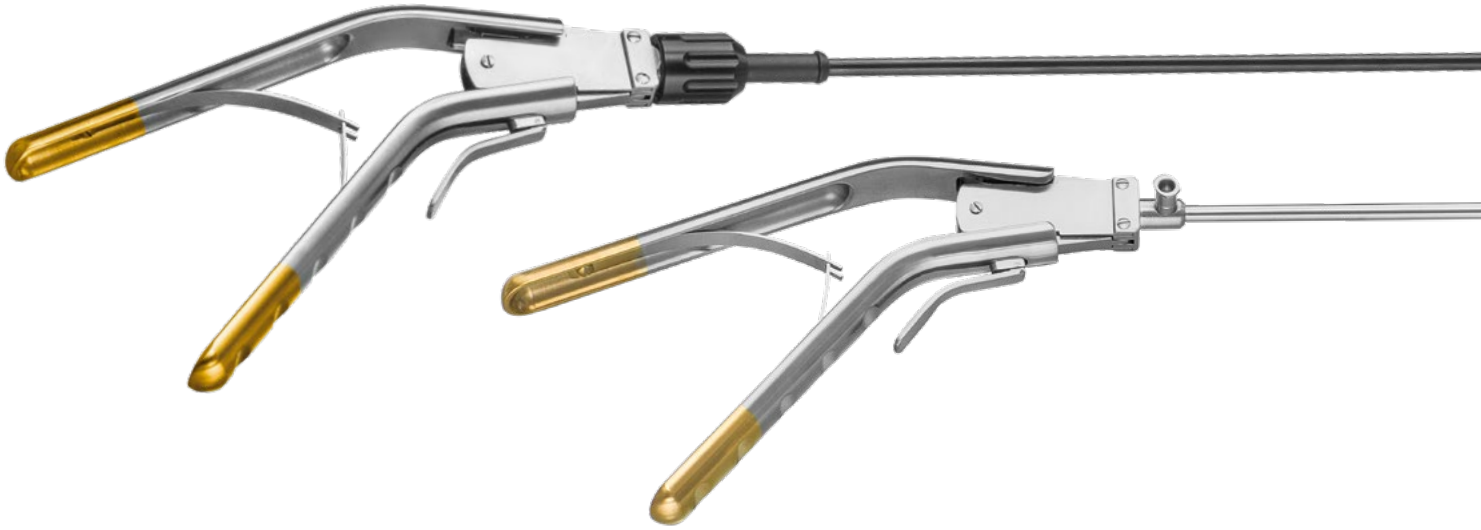
300-100-694*	right curved	330mm	serration TC
300-100-695*	straight	330mm	serration TC
300-100-696*	left curved	330mm	serration TC
300-100-697	straight	450mm	serration TC
300-100-698	left curved	450mm	serration TC
300-100-699	right curved	450mm	serration TC
300-100-702	straight	330mm	diamond dusted
300-100-703	straight	450mm	diamond dusted

Ø 3mm STRAIGHT HANDLE

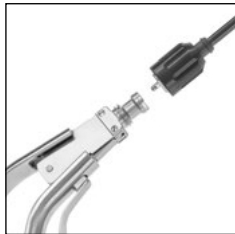
300-100-687	left curved	250mm	serration TC
300-100-688	right curved	250mm	serration TC
300-100-689	straight	250mm	serration TC
300-100-691	left curved	330mm	serration TC
300-100-692	right curved	330mm	serration TC
300-100-693	straight	330mm	serration TC

WERNER NEEDLE HOLDERS

- Detachable and single-piece option
- 3-piece model for efficient cleaning



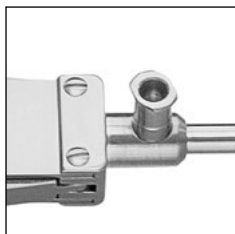
Ergonomic axial handle design
for effortless working



Detachable 3-piece system



Smooth and ergonomic ratchet



Straight LuerLock flushing port
(sealing cap included)



Ø 5mm DETACHABLE

300-300-001	straight	TC serrated	330mm
300-300-101	left curved	TC serrated	330mm
300-300-201	right curved	TC serrated	330mm
300-300-501	convex/concave	toothed	330mm
300-302-001	straight	TC serrated	450mm
300-302-101	left curved	TC serrated	450mm
300-302-201	right curved	TC serrated	450mm
300-302-501	convex/concave	toothed	450mm

Ø 5mm SINGLE-PIECE

300-300-000	straight	TC serrated	330mm
300-300-100	left curved	TC serrated	330mm
300-300-200	right curved	TC serrated	330mm
300-300-500	convex/concave	toothed	330mm
300-302-000	straight	TC serrated	450mm
300-302-100	left curved	TC serrated	450mm
300-302-200	right curved	TC serrated	450mm

Ø 3mm DETACHABLE

300-303-001	straight	TC serrated	330mm
300-303-101	left curved	TC serrated	330mm
300-303-201	right curved	TC serrated	330mm
300-303-501	convex/concave	toothed	330mm

Ø 3mm SINGLE-PIECE

300-303-000	straight	TC serrated	330mm
300-303-100	left curved	TC serrated	330mm
300-303-200	right curved	TC serrated	330mm
300-303-500	convex/concave	toothed	330mm

TC ENDOSCOPIC NEEDLE HOLDER

- Axial ring handle
- For intra- & extracorporal suturing
- Jaw with TC inserts: firm & reliable grip of suturing needles, long lifetime of the needle holder
- Ø 5mm



330mm

450mm



Curved left

300-101-588*

300-101-589



Curved right

300-101-592

300-101-599



Straight jaw

300-101-594*



Bullnose, straight jaw

300-101-596*

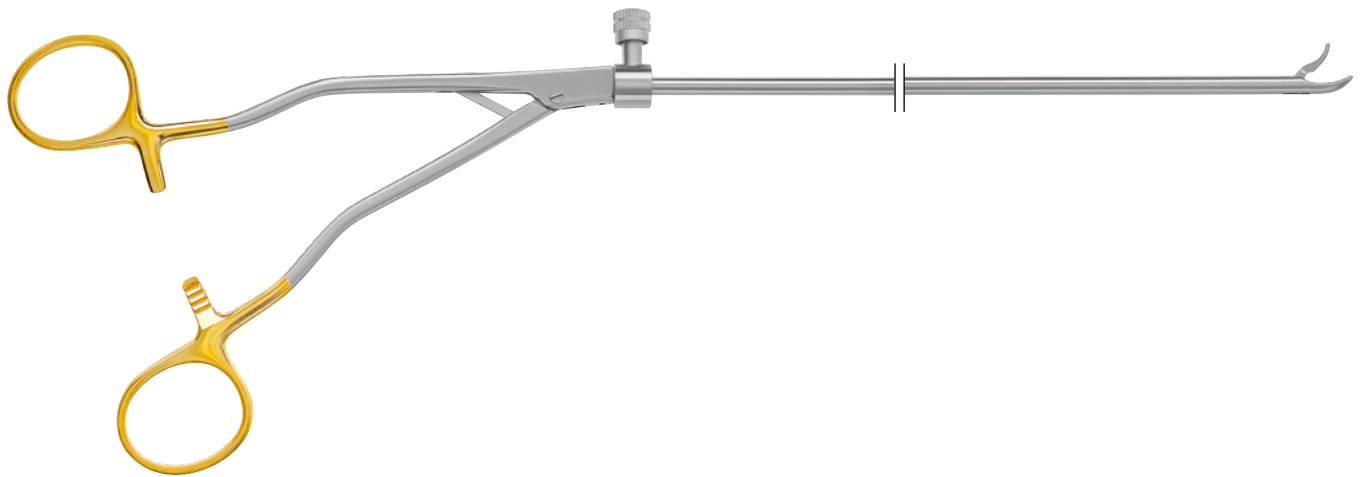


300-332-320 **LIONS** Needle forceps Ø 5mm, 330 mm without ratchet,
with LuerLock, double-action



ROMEO DIAMOND DUSTED NEEDLE HOLDER

- Auto-aligning of needles
- Concave shaped jaw: aligns curved endoscopic needles by itself in 90° position to the jaw's horizontal line
- Diamond dusted jaw: keeps needle securely in place
- Ø 5mm



360mm



Parrot design jaw

300-101-593

MATHIEU TC ENDOSCOPIC NEEDLE HOLDER

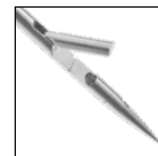
- For intra- & extracorporeal suturing
- Jaw with TC inserts: firm & reliable grip of suturing needles
- Ergonomic designed handle: easy posture by alignment of the surgeon's hand with the suturing needle
- Curved, fine tapered jaw
- Ø 5mm



		330mm	450mm
	Curved left	300-330-033	300-330-045
	Curved right	300-332-033	
	Straight jaw	300-334-033	

TOBIAS & TOBIAS II FASCIA SUTURING INSTRUMENTS

- Self-closing spring mechanism
- For closing trocar incisions under vision

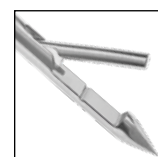
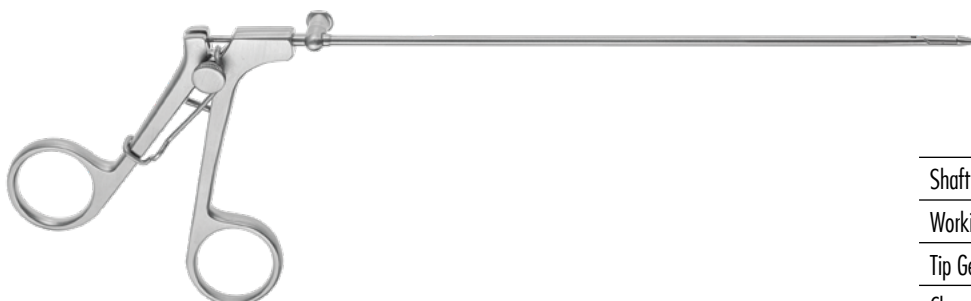


Shaft diameter	2.0mm
Working length	150mm
Tip Geometry	sharp conical tip, detachable
Cleaning	LuerLock flush port

300-151-000* Tobias Fascia Suturing Instrument with slim 2.0mm shaft and detachable conical tip

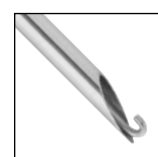


300-152-000 Tip only, set with 5 pieces



Shaft diameter	2.8mm
Working length	150mm
Tip Geometry	sharp conical tip, detachable
Cleaning	LuerLock flush port

300-153-000* Tobias II Fascia Suturing Instrument with strong 2.8mm shaft and fixed pyramidal tip



300-151-100 Rainer Fascia Suturing Device, Ø 2.3mm, 140mm working length

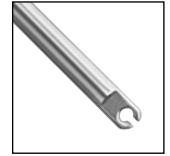
KNOT TIERS



Classic knot tier with slit and eye for extra corporal knotting, Ø 4 mm

300-030-001 ★ 330 mm working length

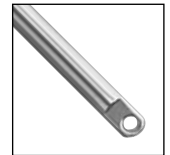
300-030-003 450 mm working length



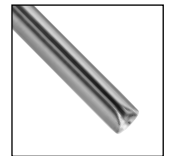
Knot tier with eye for extra corporal knotting, Ø 4 mm

300-030-004 330 mm working length

300-030-006 450 mm working length



300-030-000 ★ Knot tier with longitudinal conical form for secure holding of extracorporal knots to suture site, Ø 4 mm, 330 mm working length



300-012-405 ★ Reducer Sleeve, Ø 5 - 4mm, 175mm, red

KNOT PUSHER WITH SCISSORS



Consists of:



300-400-330 Knot pusher with scissors, Insert, double action, Ø 5mm, 330mm



300-660-005 Outer Sheath, insulated, Ø 5mm, 330mm, adaptable to all handles

Handles

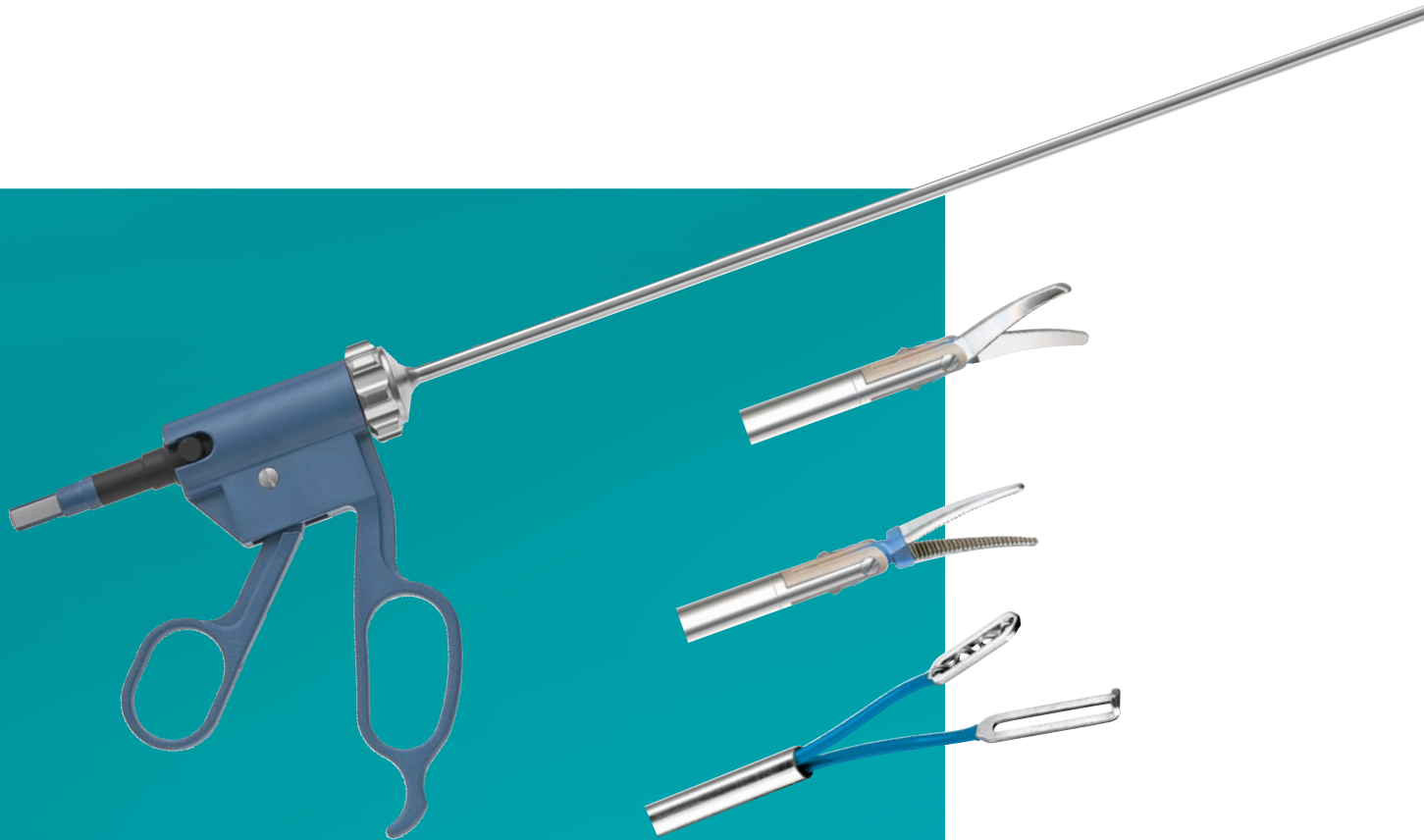


300-750-101 Carbon Fiber Handle, HF-connection



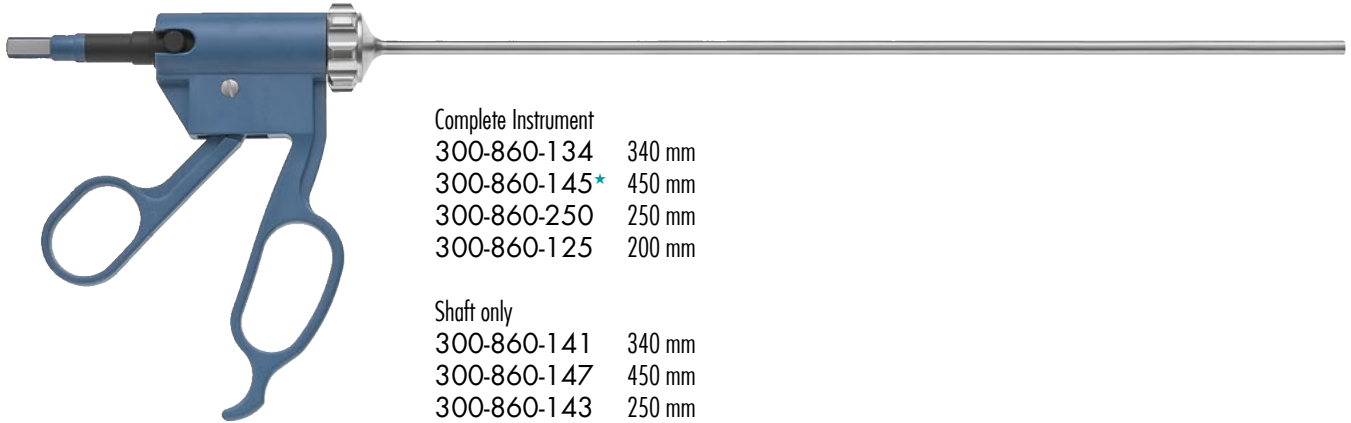
300-750-105 Carbon Fiber Handle, hook up ratchet, HF-connection

BIPOLAR INSTRUMENTS



DETACHABLE BIPOLAR FORCEPS

- 360° rotatable
- Consists of forceps body & shaft - without electrode



Complete Instrument

300-860-134	340 mm
300-860-145*	450 mm
300-860-250	250 mm
300-860-125	200 mm

Shaft only

300-860-141	340 mm
300-860-147	450 mm
300-860-143	250 mm
300-860-142	200 mm

Handle only

300-860-140

DETACHABLE 720° ROTATABLE BIPOLAR FORCEPS

- 720° rotatable, independently of the shaft
- Consists of forceps body & shaft - without electrode



Complete Instrument

300-860-534	340 mm
300-860-545	450 mm

Shaft only

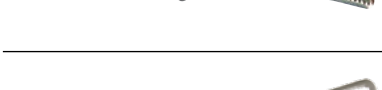
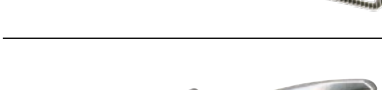
300-560-535	340 mm
300-560-546	450 mm

Handle only, with adjustment (rotating stop)

300-860-500

POWERGRIP BIPOLAR ELECTRODE INSERTS

- Insulated up to the end of the working zone
- Ø 5mm

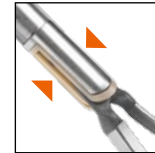
	Grasping Forceps, fenestrated jaws, curved	300-860-009	340 mm
	Grasping Forceps, fenestrated jaws, serrated	300-860-013* 300-860-023 300-860-063	340 mm 450 mm 200 mm*
	Grasping Forceps, slightly curved	300-860-011 300-860-021 300-860-061	340 mm 450 mm 250 mm*
	Powergrip Bipolar Forceps, 2x3 teeth	300-860-012	340 mm
	Delta Grasping Forceps, double action	300-860-014 300-860-024	340 mm 450mm
	Grasping Forceps, curved	300-860-015 300-860-025 300-860-065	340 mm 450 mm 200 mm*
	Duckbill Forceps	300-860-016 300-860-026	340 mm 450 mm
	TC-Metzenbaum Scissors	300-860-018* 300-860-028 300-860-068	340 mm 450 mm 200 mm*
	Maryland Insert	300-860-019* 300-860-029 300-860-069	340 mm 450 mm 200 mm*

* 20 / 25 cm pattern not available for 720° rotatable Bipolar Forceps

POWERGRIP PREMIUM BIPOLAR ELECTRODE INSERTS



- Joint mechanism stays in place
- Insulated up to the end of the working zone
- Ø 5mm



Premium model -
joint mechanism
stays in place



Standard model -
joint mechanism
exposes



Grasping Forceps, fenestrated, curved

300-860-009

340 mm



Grasping Forceps, fenestrated, straight

300-860-032

340 mm



Grasping Forceps, fenestrated, curved

300-860-033

340 mm



TC Metzenbaum Scissors

300-860-035

340 mm



Maryland Forceps

300-860-037

340 mm



Cut and seal forceps, curved

300-860-040

340 mm

3mm DETACHABLE BIPOLAR FORCEPS

- Small diameter, equal performance
- One-finger control of the 360° rotation wheel
- Overload protection and direct force transmission
- Flat plug for common bipolar cables



300-867-100 Handle with flat plug



Shaft, Ø 3mm
 300-867-129 290mm
 300-867-120 200mm



Grasping Forceps, fenestrated

300-867-529 290mm
 300-867-520 200mm



Maryland Forceps, curved

300-867-929 290 mm
 300-867-620 200 mm

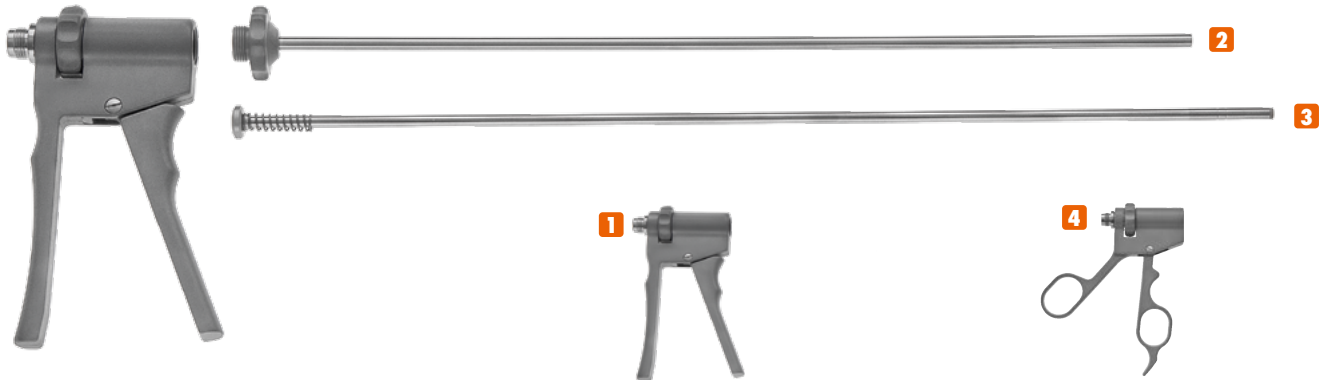


Micro Forceps

300-867-729 290 mm
 300-867-720 200 mm

BIPOLAR FORCEPS SYSTEM, Ø 5mm

- Detachable
- Consists of forceps body, inner & outer tube - without electrode



With standard handle **1**

300-855-034	340 mm
300-855-045	450 mm
300-855-020	200 mm

With ring handle **4**

300-855-134	340 mm
300-855-145	450 mm
300-855-120	200 mm



Forceps body standard
300-855-001



Forceps body ring handle
300-855-101

Outer Tube **2**

300-855-007	340 mm
300-855-052	450 mm
300-855-003	200 mm

Inner tube **3**

300-855-006	340 mm
300-855-051	450 mm
300-855-002	200 mm



Bipolar Cables, length: 3m
2 banana plug 300-855-100
Valleylab plug 300-855-105
Martin plug 300-855-102
Erbe plug 300-855-103



Adapter for bipolar cable
300-855-400 with flat plug
300-855-401 with 2-pin-plug

Electrodes / Inserts



Tubal ligation

300-855-010	340 mm
300-855-022	450 mm
300-855-060	200 mm



Micro jaw, 1 mm

300-855-011	340 mm
300-855-021	450 mm
300-855-061	200 mm



Grasping forceps, 3 mm

300-855-015	340 mm
300-855-025	450 mm
300-855-065	200 mm



Scissors, curved

300-855-017	340 mm
300-855-027	450 mm
300-855-067	200 mm



Kleppinger, serrated

300-855-013	340 mm
300-855-023	450 mm
300-855-063	200 mm



Scissors with TC blades, curved

300-855-018	340 mm
300-855-028	450 mm

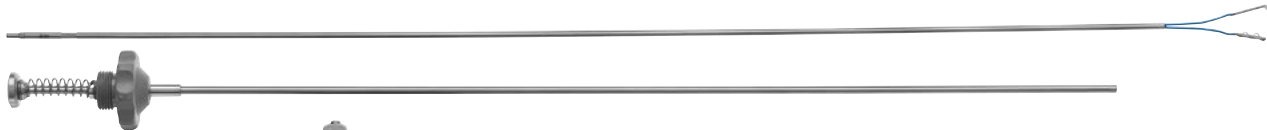


Dissector Maryland, curved

300-855-019	340 mm
300-855-029	450 mm
300-855-069	200 mm

MICRO BIPOLAR SYSTEM, Ø 3mm

- Suits for all operations in Laparoscopy
- Especially for fine coagulation of tissue and small vessels
- Easy detachable for cleaning purposes



300-857-100 Bipolar Micro Coagulation Forceps, Ø 3mm



300-857-205
Cable only for 300-857-100

Electrode Inserts



Micro Electrode, rippled bar

300-857-111



Micro Electrode, fluted tip, 1mm

300-857-112



Bipolar Micro Electrodes, 3 mm



Bipolar L-Hook

300-857-301



Bipolar V-Hook

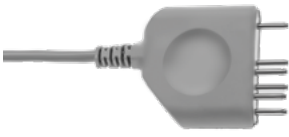
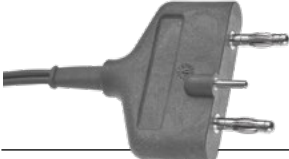
300-857-302



Bipolar Needle

300-857-303

BIPOLAR CABLES

		Flat plug	Flat plug, angled	Flat plug, square	2-pin plug
 RZ HF Unit SDS Plug, programmable	3m	700-500-300			
	5m	700-500-500			
 2-Banana*	3m	700-350-030	300-860-100	700-350-130	700-351-030
	5m	700-350-050	300-860-111	700-350-150	700-351-050
 Erbe	3m	700-101-001	700-100-130	700-101-130	700-100-102
	5m	700-100-101	700-100-150	700-101-150	700-100-103
 Martin, Aesculap Berchtold	3m	700-287-030	700-200-130	700-287-130	700-200-132
	5m	700-287-050	700-200-150	700-287-150	700-200-152
 RZ, Valleylab, Lamikey, EMC	3m	700-351-031*	700-300-003	700-351-131	700-300-203
	5m	700-351-051	700-300-005	700-351-151	700-300-205
 Erbe EMC/Dolley	3m	700-400-050	700-400-003	700-400-103	700-400-203
	5m	700-400-055		700-400-105	
 Valleylab autobipolar	3m	700-400-030		700-400-130	
	5m				

* Not available with CE marking within Europe



2-pin plug, angled



2-pin plug, angled



Round plug



R. Wolf plug



Karl Storz plug



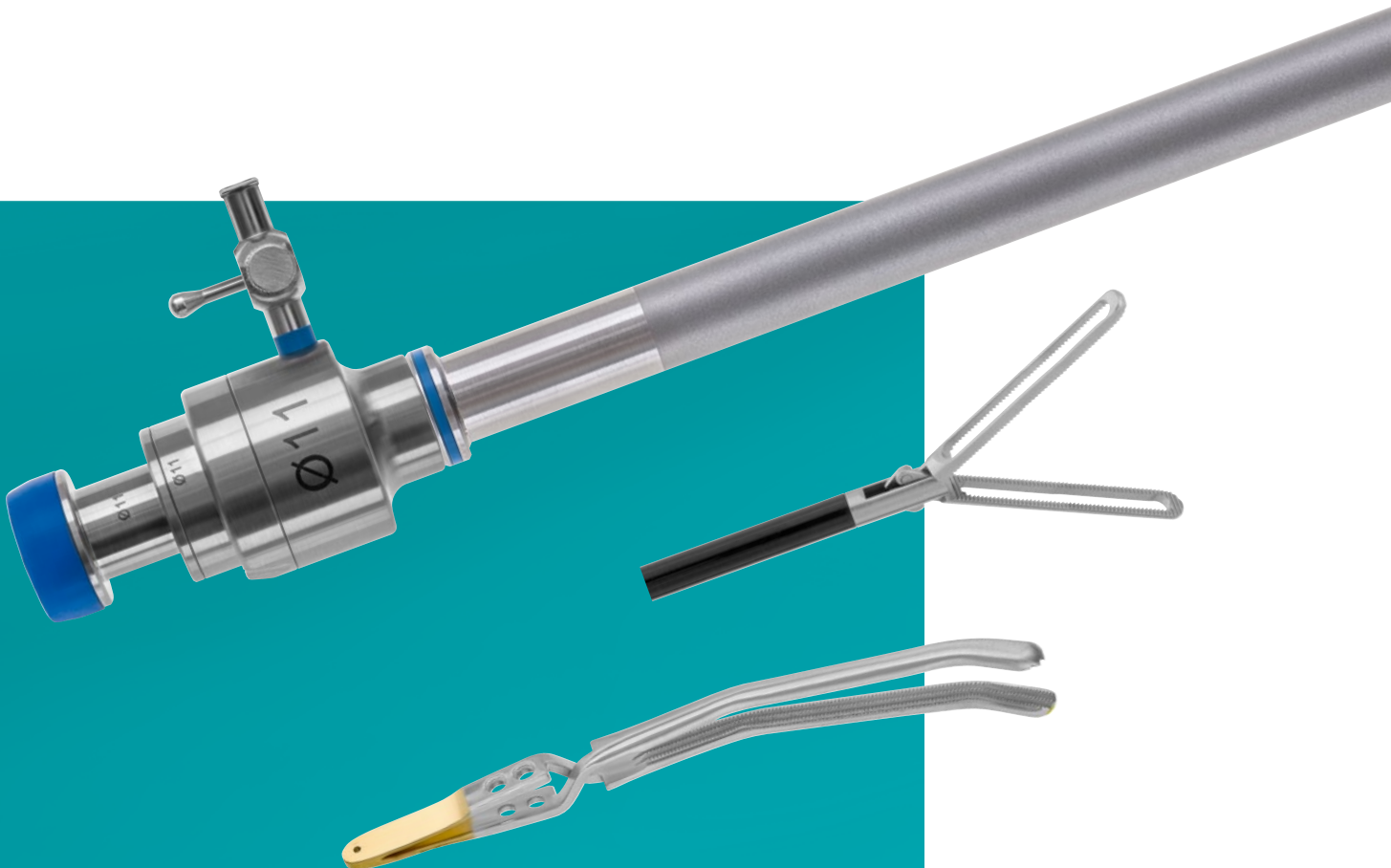
Ethicon Scissors plug



Aesculap Plug

700-345-403	700-345-003	700-739-003	700-630-003	700-351-047	700-351-053	700-200-030
700-345-405	700-345-005	700-739-005		700-351-048	700-351-055	700-200-050
700-101-230		700-100-202	700-100-104	700-100-302	700-100-402	700-100-502
700-101-250		700-100-303	700-100-105	700-100-305	700-100-405	700-100-505
700-287-230		700-200-232	700-390-030	700-200-332	700-200-432	700-200-532
700-287-250		700-200-252	700-390-050	700-200-352	700-200-452	700-200-552
700-351-231	700-300-403	700-736-003	700-300-503	700-300-603	700-300-703	
700-351-251	700-300-405	700-736-005	700-300-505		700-300-705	700-300-805
700-400-303	700-400-403	700-400-503		700-400-603		
		700-400-205				

BARIATRIC INSTRUMENTS





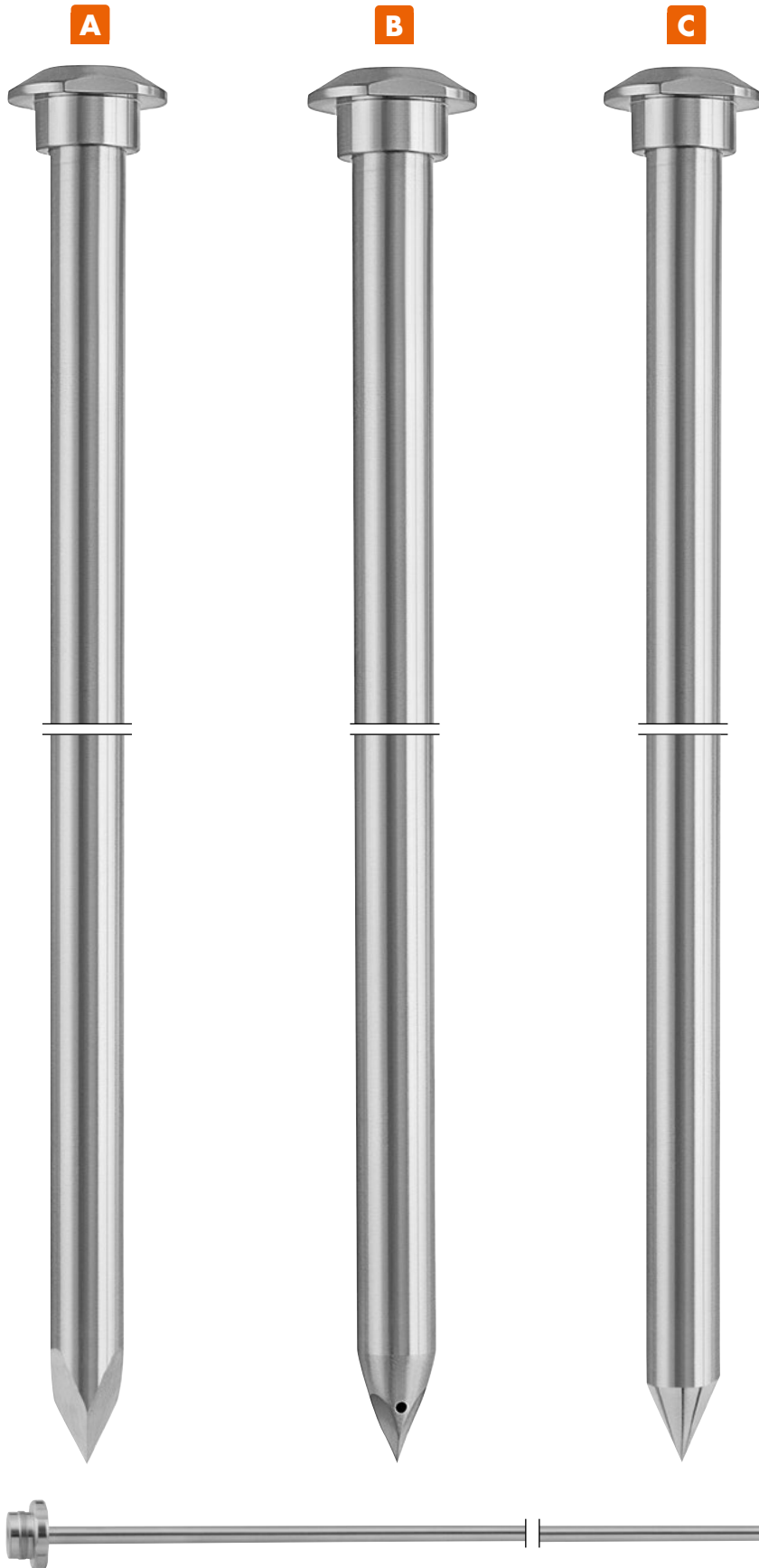
Stainless steel valve, XL smooth stainless steel sleeve,
150mm working length

300-220-155	Ø 5.5mm
300-220-111	Ø 11.0mm
300-220-113	Ø 13.0mm



Synthetic valve, XL smooth stainless steel sleeve
150mm working length

300-230-155	Ø 5.5mm
300-230-111	Ø 11.0mm
300-230-113	Ø 13.0mm



A

With pyramidal tip, reusable, cutting
150mm working length

300-241-155 Ø 5.5mm

300-241-111 Ø 11.0mm

300-241-113 Ø 13.0mm

B

Cannulated with hole, pyramidal tip
150mm working length

300-244-155 Ø 5.5mm

300-244-111 Ø 11.0mm

300-244-113 Ø 13.0mm

C

With conical tip, reusable, cutting
150mm working length

300-240-155 Ø 5.5mm

300-240-111 Ø 11.0mm

300-240-113 Ø 13.0mm

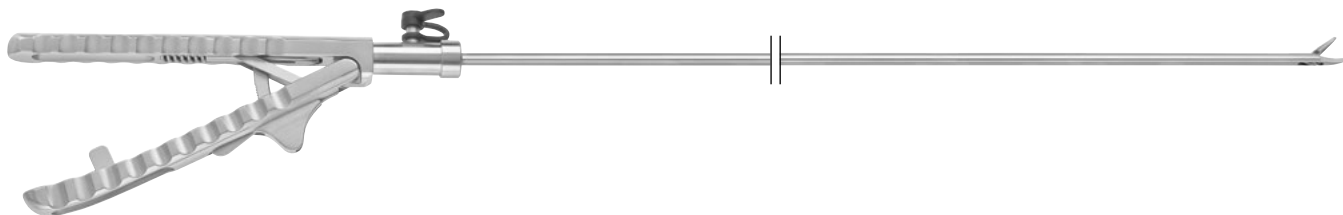
Suction and irrigation tube with 4 x 4 holes for handles 300-019-501 and 300-019-601

300-019-805 Ø 5mm, 450mm

300-019-810 Ø 10 mm, 450mm

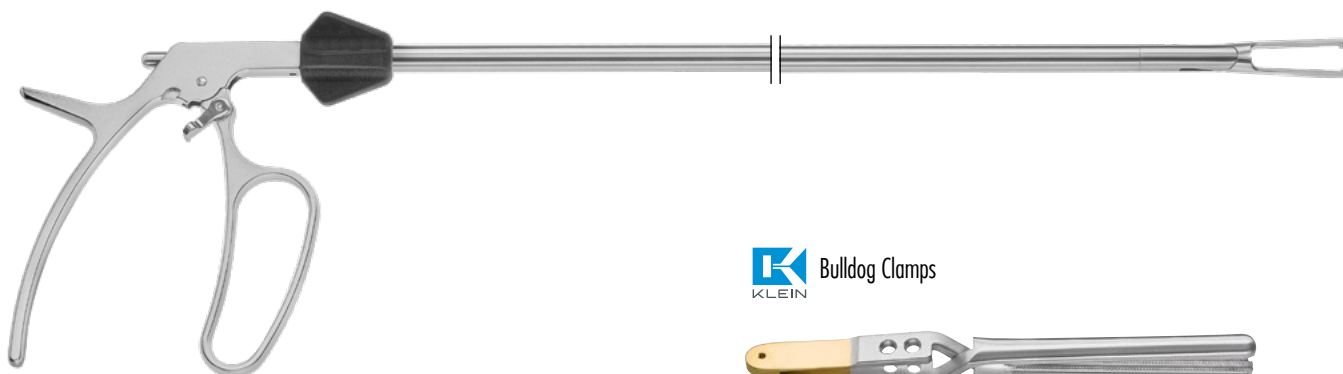


300-330-045 **MATHIEU** Endoscopic TC needle holder, traditional ratchet design, spring-loaded, curved left, Ø 5mm, 450 mm working length



Endoscopic TC needle holder, strong axial handle, automatic locking mechanism, Ø 5mm, 450 mm working length

- 300-100-697 straight jaw
- 300-100-698 left curved jaw



300-111-775 Endoscopic Bulldog Clamp Applier, detachable, Ø 10mm, 360° rotating, 450mm working length



300-100-772 60 mm jaws
Endoscopic Bulldog Clamp for bowel surgery, straight, with DeBailey serration



300-100-786 60 mm jaws
Endoscopic Satinsky Bulldog Clamp, with DeBailey serration, to be used with 12.5mm trocar system



300-100-789 60 mm jaws
Endoscopic Satinsky Bulldog Clamp, curved, with atraumatic DeBailey serration, to be used with 12.5mm trocar system



insert only

300-401-732

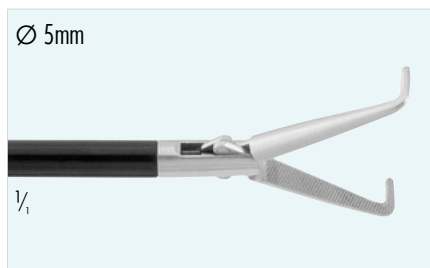
Complete Instrument
with handle 300-750-001

300-411-732

Complete Instrument
with handle 300-750-101

300-421-732

KELLY
Dissecting forceps curved, fine-tapered, cross-serrated jaws with wide opening, double action, Ø 5mm, 450 mm

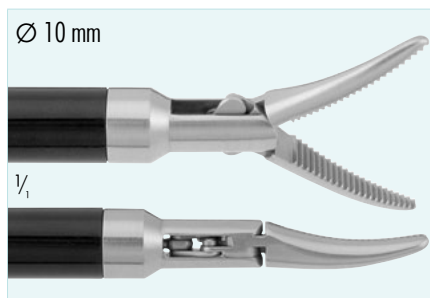


300-401-738

300-411-738

300-421-738

MIXTER
Fine dissecting forceps 90° angled, fine serrated jaws, double action, Ø 5mm, 450 mm

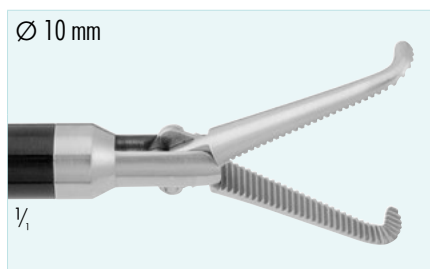


300-401-730

300-411-730

300-421-730

MARYLAND
Dissecting forceps curved, blunt jaws, double action, Ø 10 mm, 450 mm

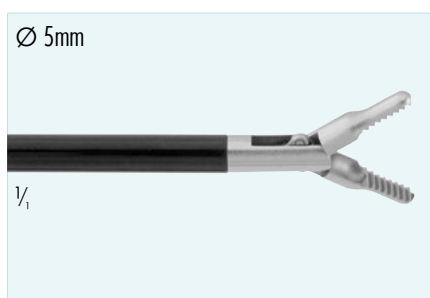


300-401-739

300-411-739

300-421-739

MIXTER
Dissecting forceps 90° angled, serrated jaws, double action, Ø 10 mm, 450 mm

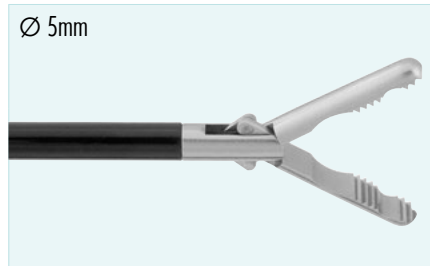


300-401-025

300-411-025

300-421-025

DOLPHIN
Grasping and dissecting forceps, fine serrated and tapered jaws, double action, Ø 5mm, 450 mm



insert only

300-401-015



Complete Instrument
with handle 300-750-003

300-431-015



Complete Instrument
with handle 300-750-103

300-441-015

FUNDUS

Grasping forceps with 2 cups and serrated jaws, double action, Ø 5mm, 450 mm



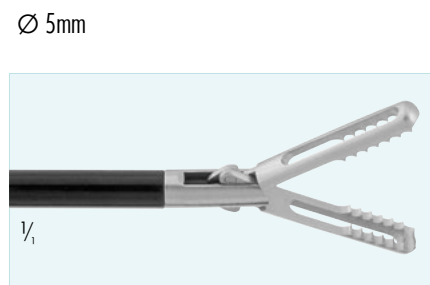
300-401-001

300-431-001

300-441-001

BULLNOSE

Grasping forceps, heavy pattern, standard serrated jaws, double action, Ø 5mm, 450 mm



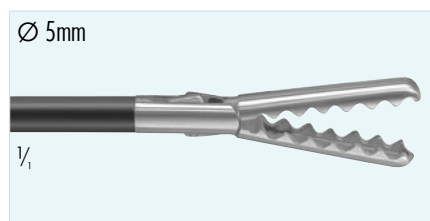
300-401-017

300-431-017

300-441-017

GRIPPER #1

Grasping forceps with coarse serration and fenestration, double action, Ø 5mm, 450 mm



300-401-013

300-431-013

300-441-013

PRESTIGE

Grasping forceps with long, bevelled-edge jaws and deep cup for large tissue collection, double action, Ø 5mm, 450 mm

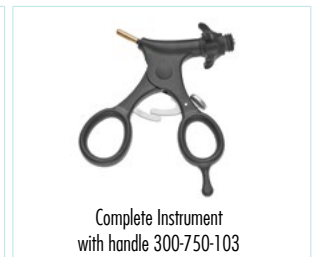


insert only

300-401-201



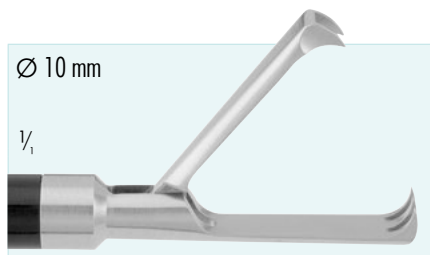
300-431-201



300-441-201

COBRA

Grasping forceps with sharp 2 x 4 teeth and serrated inner jaws, double action, Ø 5mm, 450 mm



300-401-710

300-431-710

300-441-710

CLAW GRASPER

Grasping forceps, aggressive 2 x 3 teeth and smooth inner jaws, single action, Ø 10 mm, 450 mm



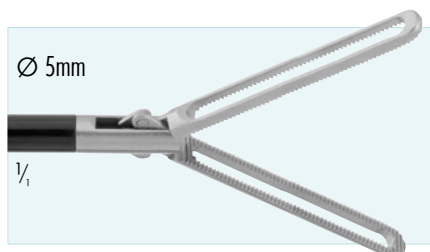
300-401-289

300-431-289

300-441-289

JOHANS

Grasping forceps with 20 mm fenestrated jaws, double action, Ø 5mm, 450 mm



300-401-291

300-431-291

300-441-291

LONG JOHANS

Grasping forceps with 40 mm fenestrated jaws, double action, Ø 5mm, 450 mm



insert only

300-401-082



Complete Instrument
with handle 300-750-001

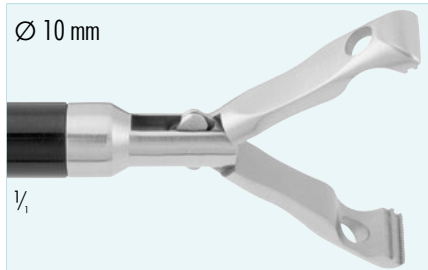
300-411-082



Complete Instrument
with handle 300-750-101

300-421-082

Biopsy forceps with sharp oval cups, double action, Ø 5mm, 450 mm



insert only

300-401-079



Complete Instrument
with handle 300-750-003

300-431-079

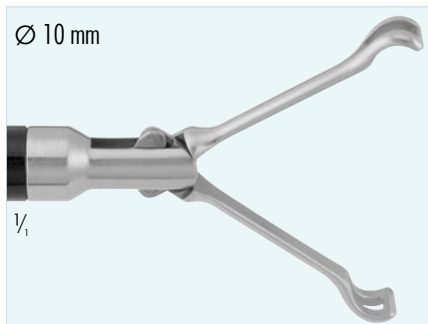


Complete Instrument
with handle 300-750-103

300-441-079

DEBAKEY BABCOCK

Traditional style Babcock grasping forceps, fenestrated jaws with atraumatic DeBaKey serration, double action, Ø 10 mm, 450 mm



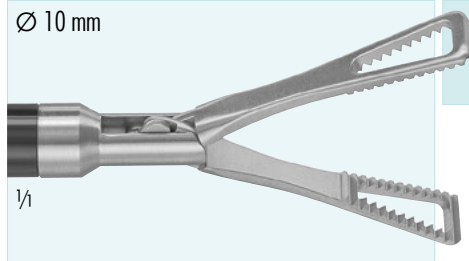
300-401-078

300-431-078

300-441-078

BABCOCK

Traditional style Babcock grasping forceps, fenestrated jaws with fine serration, double action, Ø 10 mm, 450 mm



COLLIN

Grasping forceps, V-shaped tip with deep serrations for a firm grip, double action, Ø 10 mm, 450 mm

insert only

300-401-085



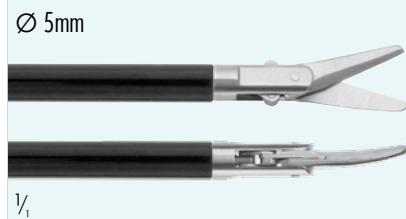
Complete Instrument
with handle 300-750-003

300-431-085



Complete Instrument
with handle 300-750-103

300-441-085



ORIGINAL METZENBAUM

Scissors, short blades (12 mm), slightly curved, double action, Ø 5mm, 450 mm

insert only

300-401-067



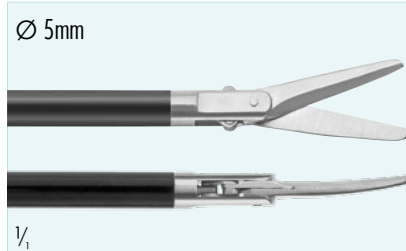
Complete Instrument
with handle 300-750-001

300-411-067



Complete Instrument
with handle 300-750-101

300-421-067



METZENBAUM

Scissors, long blades (18 mm), slightly curved, double action, Ø 5mm, 450 mm

300-401-070

300-411-070

300-431-070



METZENBAUM

Scissors, medium blades (15mm), slightly curved, double action, Ø 5mm, 450 mm

300-401-072

300-411-072

300-431-072

DETACHABLE XL BIPOLAR FORCEPS

- 360° rotatable
- Consists of forceps body & shaft - without electrode



300-860-145 Bipolar Coagulation Forceps, 450mm

POWERGRIP XL BIPOLAR ELECTRODE INSERTS

- Insulated up to the end of the working zone
- Ø 5mm



Grasping Forceps, fenestrated jaws, serrated, 5mm

300-860-023 450 mm



Grasping Forceps, slightly curved

300-860-021 450 mm



Delta Grasping Forceps

300-860-024 450 mm



Grasping Forceps, curved

300-860-025 450 mm



TC-Metzenbaum Scissors

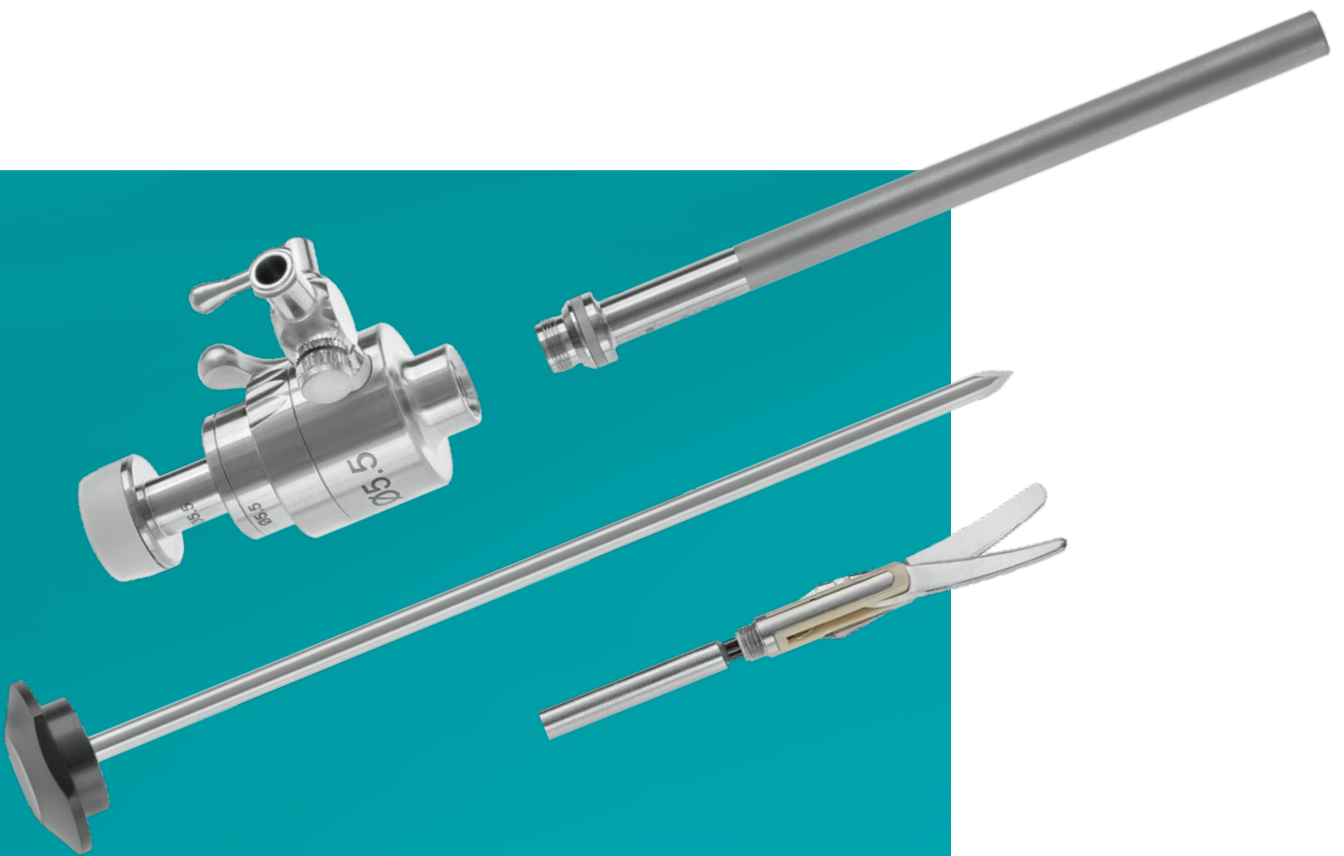
300-860-028 450 mm



Maryland Insert

300-860-029 450 mm

PEDIATRIC AND MINI INSTRUMENTS



PEDIATRIC TROCAR SYSTEM

- 100mm working length
- Ø 5.5mm



MultiPort Trocar System



SiliPort Trocar System



1



2



3



4



5

- 1 Stainless steel sleeve, smooth
- 2 Stainless steel sleeve, thread
- 3 Stainless steel sleeve, oblique
- 4 Synthetic sleeve, smooth
- 5 Synthetic sleeve, thread

MultiPort Trocar System

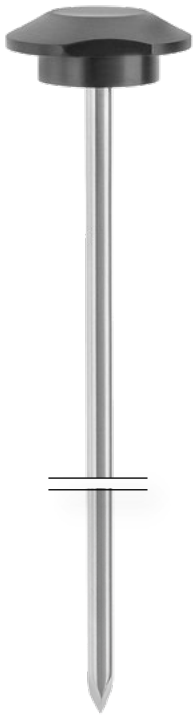
300-220-055★
300-221-055
300-222-055★
300-223-055
300-224-055

Siliport Trocar System

300-230-055
300-231-055
300-232-055
300-233-055
300-234-055



300-112-035 Stainless steel trocar with smooth sleeve,
70mm working length, Ø 3.5mm



With pyramidal tip, reusable, cutting
300-241-035 Ø 3.5mm
300-241-055* Ø 5.5mm



With conical tip, reusable, cutting
300-240-035 Ø 3.5mm
300-240-055 Ø 5.5mm



Hasson Obturator with blunt ball tip,
reusable, atraumatic
300-242-035 Ø 3.5mm
300-242-055 Ø 5.5mm



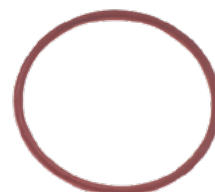
Safety Trocar
300-152-055 5.5mm



Sealing caps, color-coded, 10 pieces
300-250-035 Ø 3.5mm (red)
300-250-055* Ø 5.5mm (white)



Gaskets for MultiPort Trocar System, 10 pieces
300-250-235 Ø 3.5mm (black)
300-250-255* Ø 5.5mm (white)



Gaskets for MultiPort Trocar System, 10 pieces
300-250-135 Ø 3.5mm
300-250-155* Ø 5.5mm

RZ EASYCLEAN MINI SUCTION AND IRRIGATION SYSTEM

- 2 color coded trumped valves
- Universal suction channel
- Lateral LuerLock irrigation channel

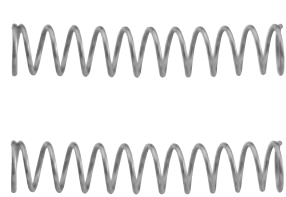


Suction and irrigation set
300-019-700 suction tube 300-019-735 and big valve body 300-019-501

Spare Parts for **RZ EasyClean** Mini Suction and Irrigation System



300-501-730 big
300-601-731 small
Single Valve Body



300-019-770
Spring
1 set with 10 pieces



300-019-780
Gasket O-Ring
1 set with 10 pieces



300-019-735 Suction and irrigation tube with 4x4 holes, Ø 3.5mm
for handles 300-019-501 and 300-019-601, 240mm



300-165-100 Suction and irrigation handle with 2 trumpet valves. Suction channel with large universal tube connector, irrigation channel with lateral LuerLock connection. Removable ergonomic handle plate for easy cleaning and maintenance.



300-166-100* Pistol-shaped suction and irrigation handle with 2-way valve and 2 big universal tube connectors for suction and irrigation. Ergonomic handle design for optimal operating convenience.



Suction and irrigation tubes,
for 300-165-100 and 300-166-100



4 holes, with markings, Ø 3 mm



340mm working length
250mm working length

300-172-003
300-172-253

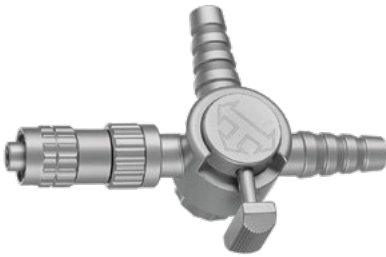


16 holes, with markings, Ø 3 mm



340mm working length
250mm working length

300-173-003
300-173-253



300-192-000 Suction and irrigation handle with rotating 2-way lever mechanism and 2 big universal tube adapter



Suction tubes, probes and irrigation tubes,
for 300-192-000



4 holes, with markings, Ø 3 mm



340mm working length
250mm working length

300-192-003
300-192-253



4 x 4 holes, with markings, Ø 3 mm



340mm working length
250mm working length

300-193-003
300-193-253



Palpation Probe, graduated, Ø 2.8 mm



340mm working length
250mm working length

300-193-303
300-193-353



Injection and puncture needle, Ø 2.8mm, 1.2mm sharp needle tip



340mm working length
250mm working length

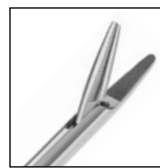
300-194-303
300-194-353

TC ENDOSCOPIC NEEDLE HOLDERS, Ø 3mm

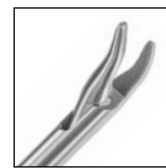


STRAIGHT HANDLE

300-300-330	straight	330mm
300-300-340	left curved	330mm
300-300-341	right curved	330mm
300-300-430	straight	450mm
300-300-440	left curved	450mm
300-300-441	right curved	450mm



Straight



Left curved



Right curved



ANGLED HANDLE

300-300-360	straight	330mm
300-300-370	left curved	330mm
300-300-371	right curved	330mm
300-300-460	straight	450mm
300-300-470	left curved	450mm
300-300-471	right curved	450mm

LAPAROSCOPIC MICRO INSTRUMENTS, 2-PIECE

- Ø 3 mm shaft
- LuerLock irrigation channel
- To be used with standard RZ handles



Metzenbaum Scissors
straight, short blade: 8mm, double action

300-503-069	330mm
300-505-069	210mm



Hook Scissors
round cutting blade, single action

300-503-060	330mm
300-505-060	210mm



Peritoneal Scissors
straight, delicate, fine serrated, single action

300-503-063	330mm
300-505-063	210mm



Micro Scissors
straight, sharp, single action

300-503-570	330mm
300-505-570	210mm



Metzenbaum Scissors
slightly curved, short blade, double action

300-503-067	330mm
300-505-067	210mm



Biopsy Cup Forceps
sharp, oval cups, double action

300-503-082	330mm
300-505-082	210mm



Biopsy Cup Forceps
sharp, oval cups, 1 pin, 1 hole, double action

300-503-080	330mm
300-505-080	210mm



Fundus Grasping Forceps
serrated, double action

300-503-015
300-505-015

330mm
210mm



Dolphin Dissecting Forceps
fine serrated, biopsy cup, conical shape, double action

300-503-025
300-505-025

330mm
210mm



Maryland fine Dissector
serrated, curved, conical shape, double action

300-503-731
300-505-731

330mm
210mm



Dolphin Dissecting Forceps
fine serrated, double action

300-503-021
300-505-021

330mm
210mm



Johans atraumatic Grasping Forceps
fenestrated, serrated, double action

300-503-052
300-505-052

330mm
210mm



„Needle Nose“ Dissecting & Grasping Forceps
fine, conical shape, cross serrated, double action

300-503-016
300-505-016

330mm
210mm



Standard Grasping Forceps
biopsy cup, serrated, double action

300-503-000
300-505-000

330mm
210mm



Claw Grasper Forceps
2x3 teeth, smooth, single action

300-503-710
300-505-710

330mm
210mm

3.5mm LAPAROSCOPIC INSTRUMENTS

- Stronger 3-piece detachable instruments, less invasive & scarless surgery
- Very simple cleaning, assembling and dissassembling
- 3.5mm mini instruments designed for pediatric (250mm) and mini Laparoscopy use



300-750-101★
PEEK Polymer Handle with
HF - connection



300-750-103★
PEEK Polymer Handle with ratchet
and HF - connection



Outer Sheath, insulated, adaptable to all handles
300-660-035 330mm
300-550-035 250mm



Metzenbaum Scissors
straight, short blade: 12mm, double action

300-403-069 330mm
300-404-069 250mm



Hook Scissors
round cutting blade, single action

300-403-060 330mm
300-404-060 250mm



Biopsy Cup Forceps
sharp, oval cups, double action

300-403-082 330mm
300-404-082 250mm



Maryland Dissecting Forceps
gently curved, double action

300-403-732 330mm
300-404-732 250mm



Mixer Dissecting Forceps
90° angled, fine serrated jaws, double action

300-403-738 330mm
300-404-738 250mm



Fundus Grasping Forceps
2 cups, serrated, double action

300-403-015 330mm
300-404-015 250mm



DeBakey Grasping Forceps
25mm long, atraumatic, double action

300-403-244 330mm
300-404-244 250mm



Johans Grasping Forceps
20mm long, fenestrated, single action

300-403-284 330mm
300-404-284 250mm

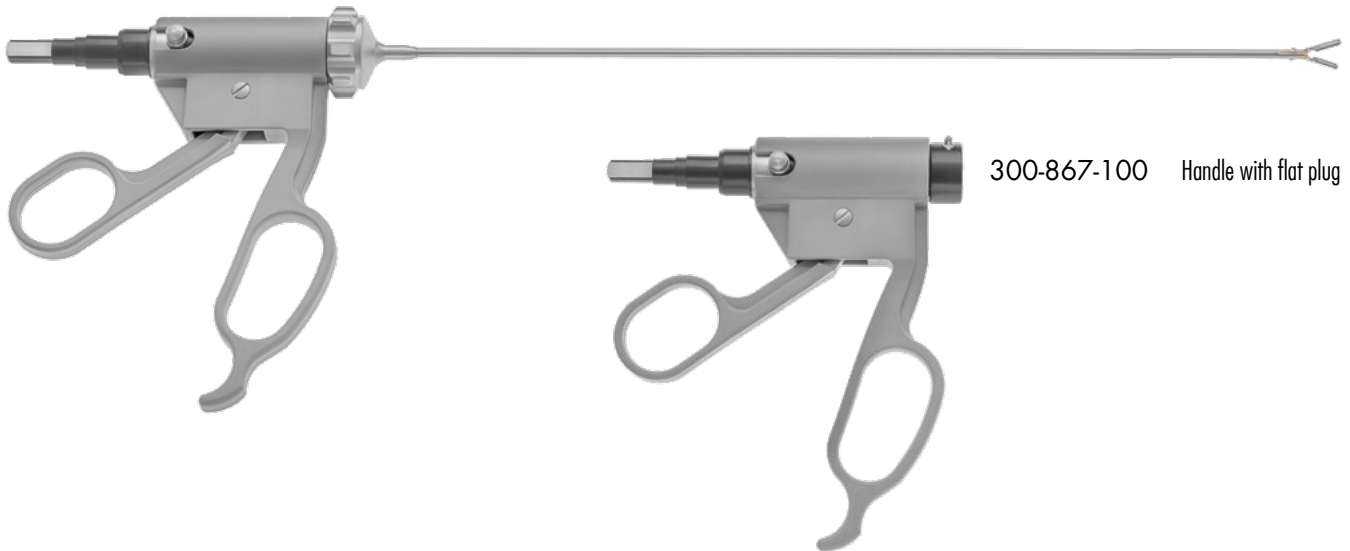


Johans Grasping Forceps
17mm long, fenestrated, double action

300-403-289 330mm
300-404-289 250mm

3mm DETACHABLE BIPOLAR FORCEPS

- Small diameter, equal performance
- One-finger control of the 360° rotation wheel
- Overload protection and direct force transmission
- Flat plug for common bipolar cables



300-867-100 Handle with flat plug



Shaft, Ø 3mm
 300-867-129 290mm
 300-867-120 200mm



Grasping Forceps, fenestrated

300-867-529 290mm
 300-867-520 200mm



Maryland Forceps, curved

300-867-929 290 mm
 300-867-620 200 mm

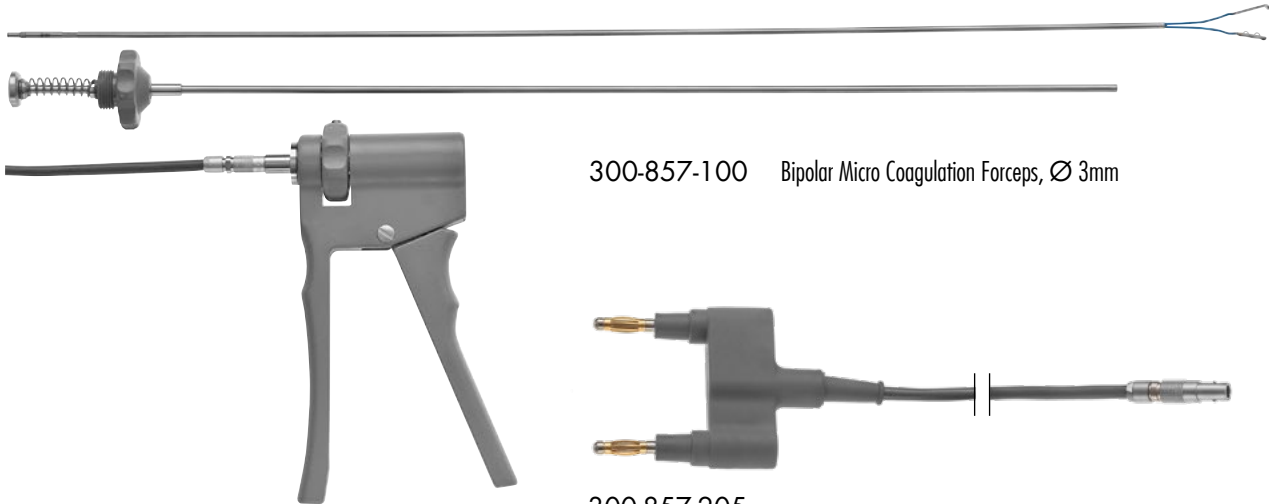


Micro Forceps

300-867-729 290 mm
 300-867-720 200 mm

MICRO BIPOLAR SYSTEM, Ø 3mm

- Suits for all operations in Laparoscopy
- Especially for fine coagulation of tissue and small vessels
- Easy detachable for cleaning purposes



300-857-100 Bipolar Micro Coagulation Forceps, Ø 3mm

300-857-205
Cable only for 300-857-100

Electrode Inserts



Micro Electrode, rippled bar

300-857-111



Micro Electrode, fluted tip, 1mm

300-857-112



Bipolar Micro Electrodes, 3 mm



Bipolar L-Hook

300-857-301



Bipolar V-Hook

300-857-302



Bipolar Needle

300-857-303

MONOPOLAR COAGULATION ELECTRODES, Ø 2.8mm



	J-hook	300-200-132 300-200-232	330 mm 250 mm
	L-hook	300-200-133 300-200-233	330 mm 250 mm
	Ballpoint	300-200-134 300-200-234	330 mm 250 mm
	Spatula	300-200-131 300-200-231	330 mm 250 mm
	Needle	300-200-137 300-200-237	330 mm 250 mm

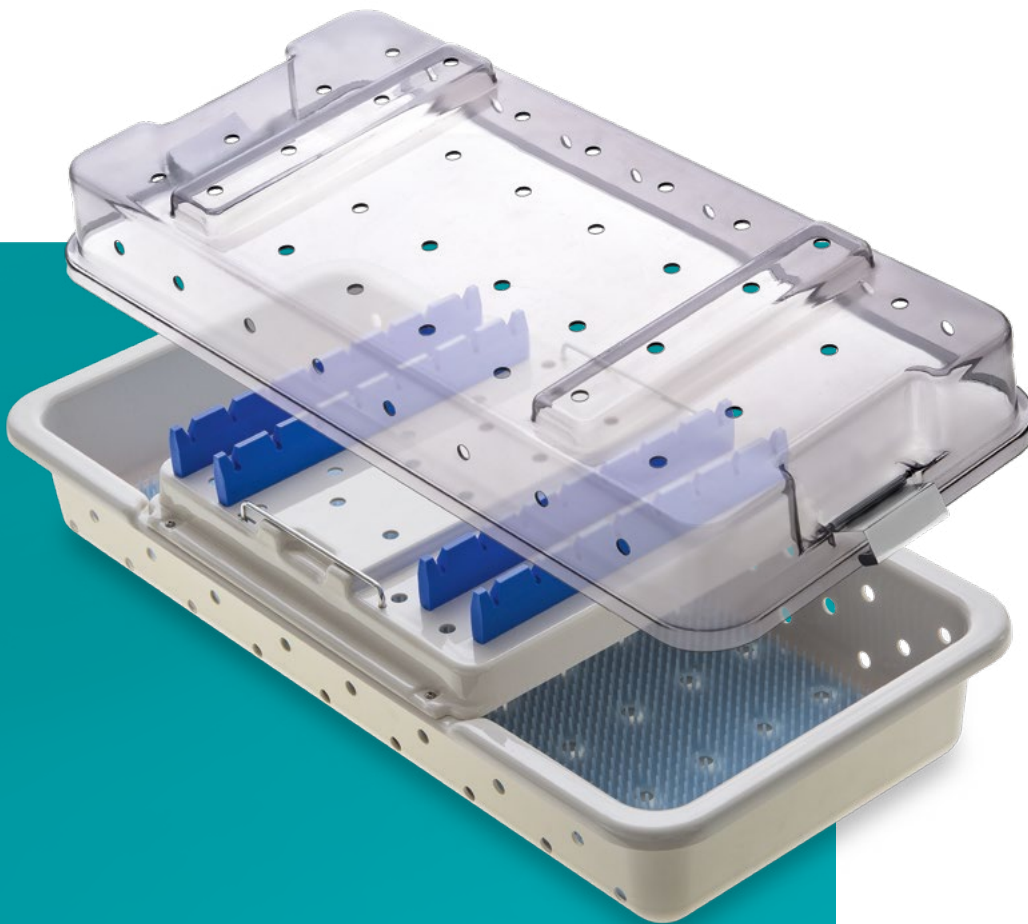
BIPOLAR COAGULATION ELECTRODES



Bipolar Micro Electrodes, Ø 3 mm, 340mm working length

	Bipolar L-Hook	300-257-002
	Bipolar V-Hook	300-257-004
	Bipolar Needle	300-257-015

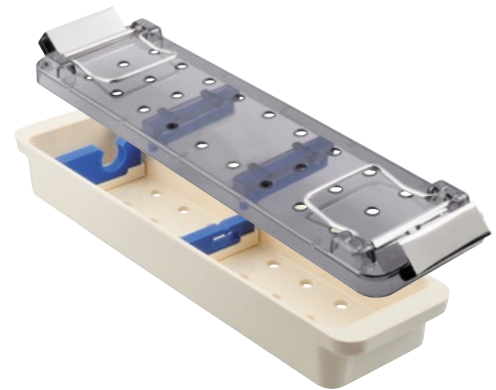
CONTAINER AND CLEANING



SAFE + CLEAN ENDOSCOPE PLASTIC CONTAINER with silicone bars on base and lid

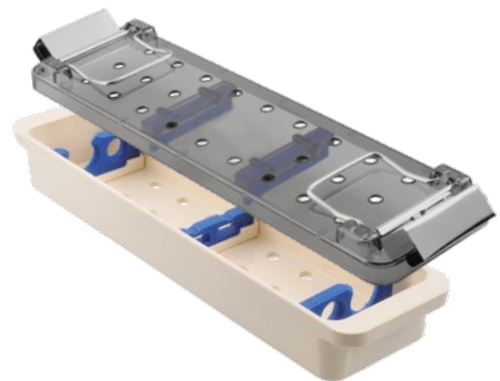
600-505-000

Endoscopes	1 (Ø 1-10mm)
Endoscope length	max. 270mm
Dimensions	271 x 70 x 35mm



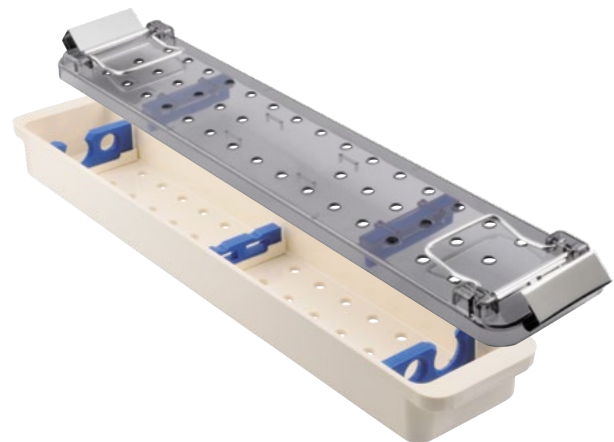
600-505-002

Endoscopes	max. 2
Endoscope length	max. 190mm
Dimensions	271 x 70 x 35mm



600-506-002*

Endoscopes	max. 2
Endoscope length	max. 390mm
Dimensions	394 x 70 x 35mm



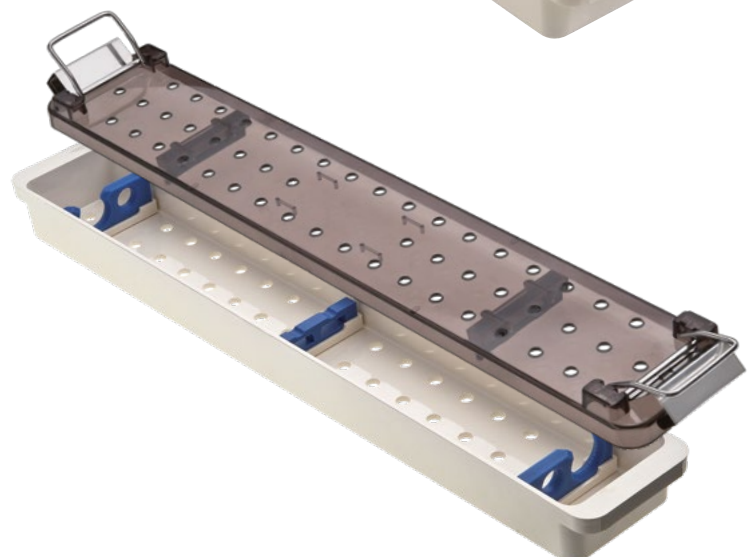
600-501-000

Endoscopes 1

600-501-002

Endoscopes max. 2

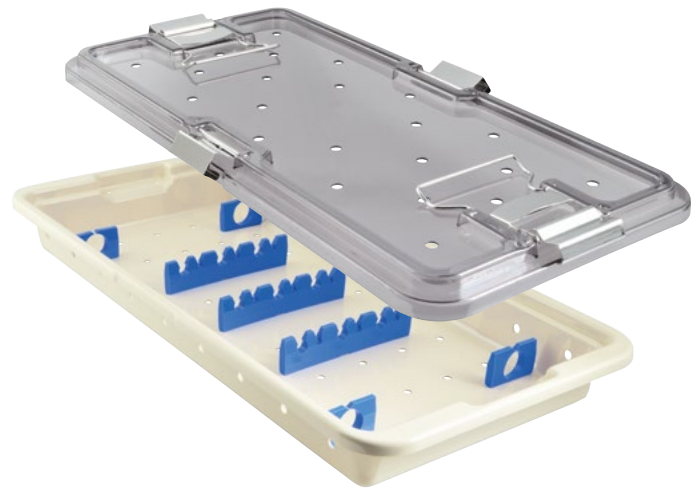
Endoscope length	max. 450mm
Dimensions	457 x 70 x 35mm



ENDOSCOPE & INSTRUMENT CONTAINERS

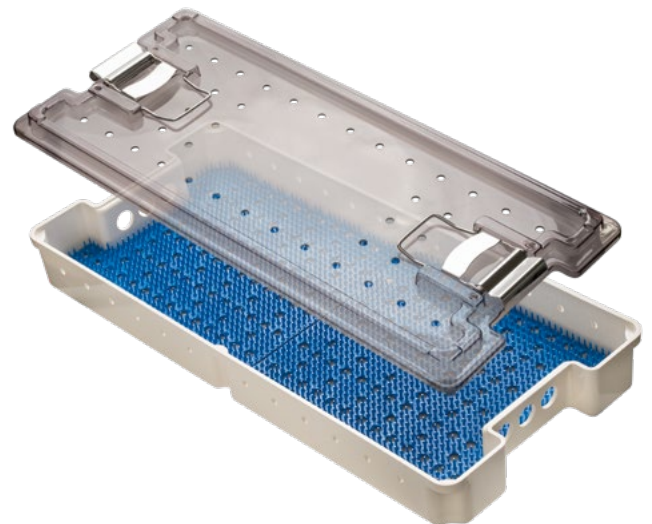
600-508-000 for scopes and light guide cables

Endoscopes	max. 3 (Ø 5-10mm)
Fiber Optic Light Cable	1
Endoscope length	max. 450mm
Dimensions	465 x 212 x 51mm



600-464-229 for fixation of instruments with rubber ties

Dimensions	464 x 229 x 51mm
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600-511-000 for instruments with rubber ties on 2 levels

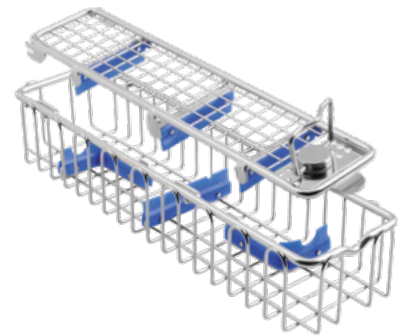
Dimensions	502 x 239 x 102mm
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ENDOSCOPE CLEANING BASKETS & CONTAINERS with silicone bars on base and lid

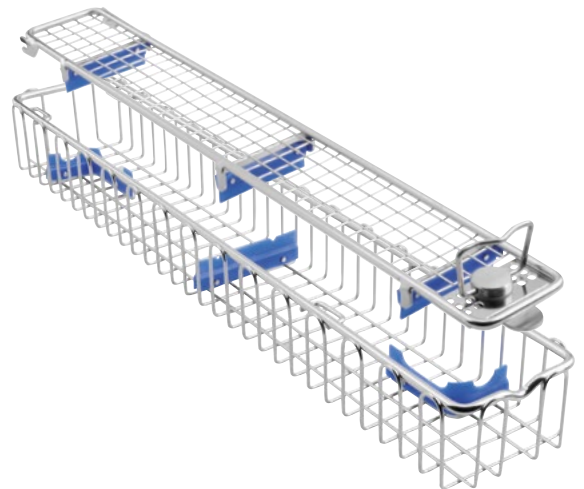
600-292-052*

Endoscopes	max. 2
Endoscope length	max. 190mm
Dimensions	290 x 80 x 52mm

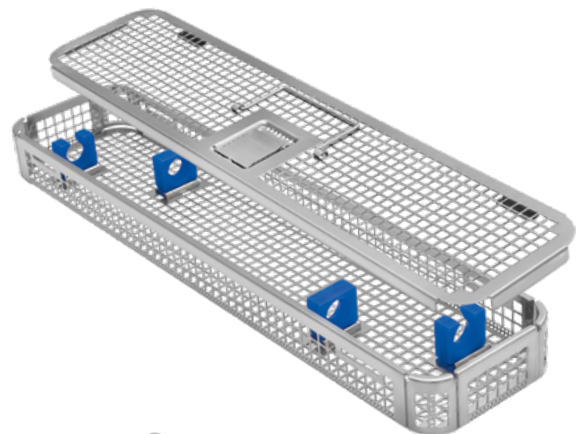


600-462-052*

Endoscopes	max. 2
Endoscope length	max. 350mm
Dimensions	460 x 80 x 52mm

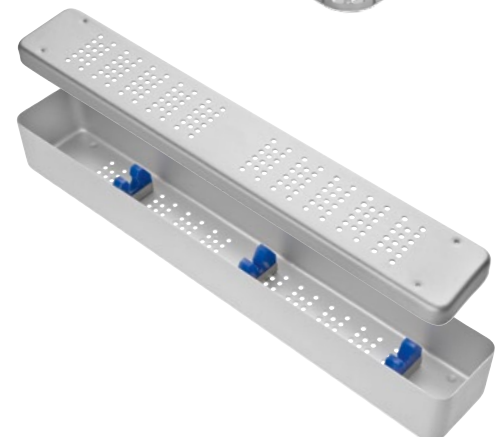


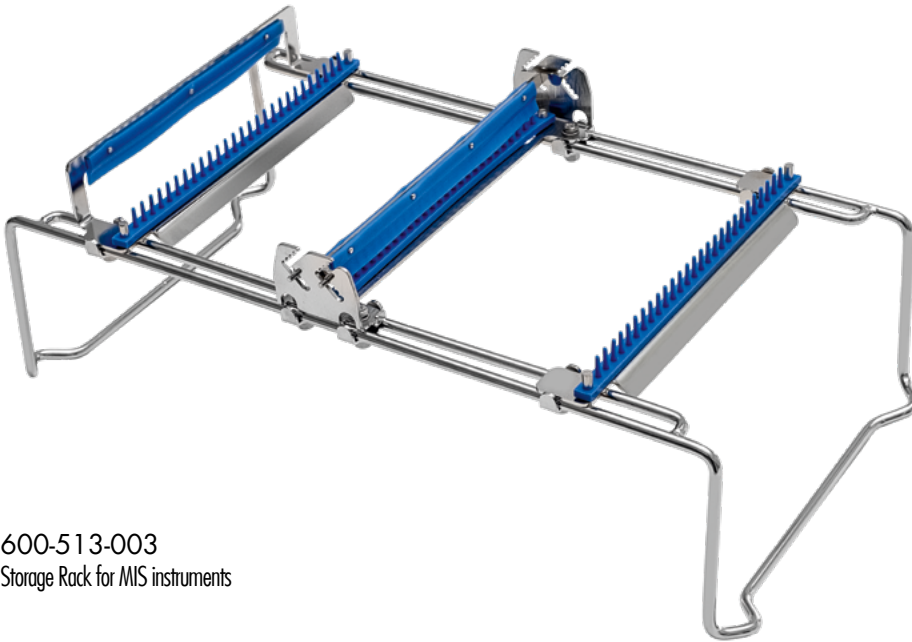
600-460-055	Endoscopes 1
600-460-056	Endoscopes max. 2
Endoscope length	max. 340mm
Dimensions	455 x 86 x 43mm



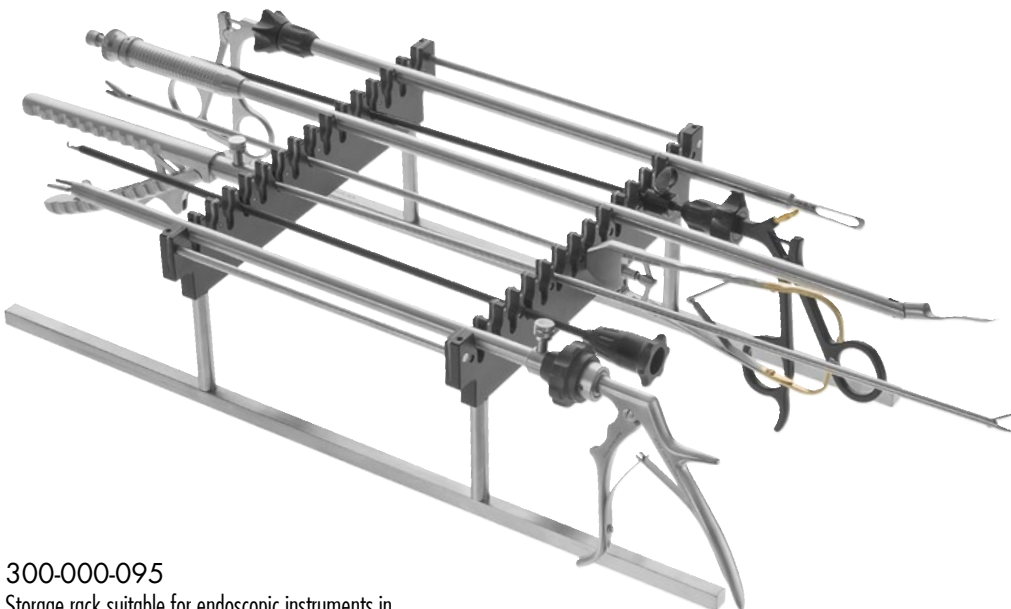
600-450-070

Endoscopes	max. 2
Endoscope length	max. 330mm
Dimensions	450 x 70 x 70mm

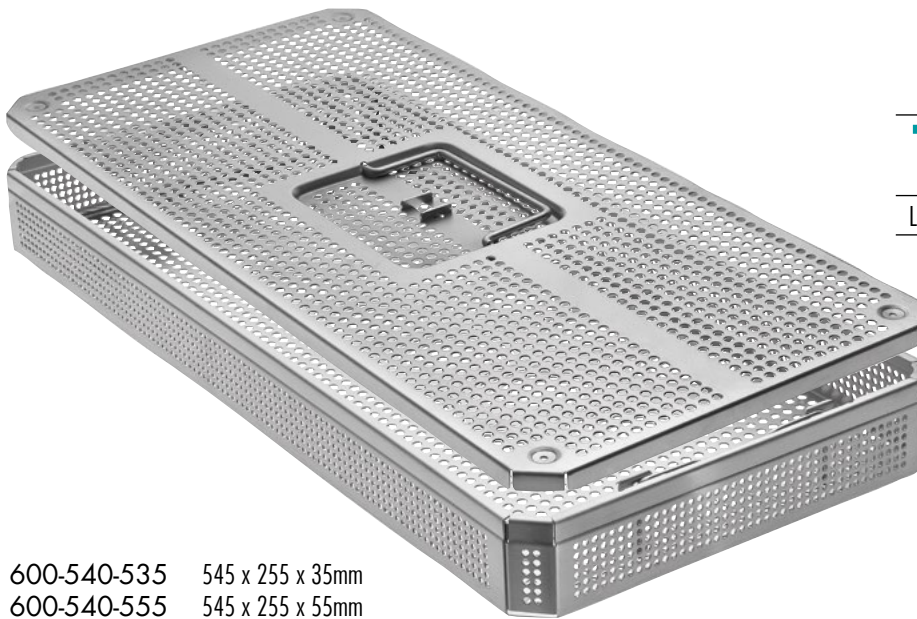




600-513-003
Storage Rack for MIS instruments



300-000-095
Storage rack suitable for endoscopic instruments in
Standard Container "Safety Model"
(without Instruments)



1/1

Length

Stainless Steel Basket,
round perforation, with lid

545mm

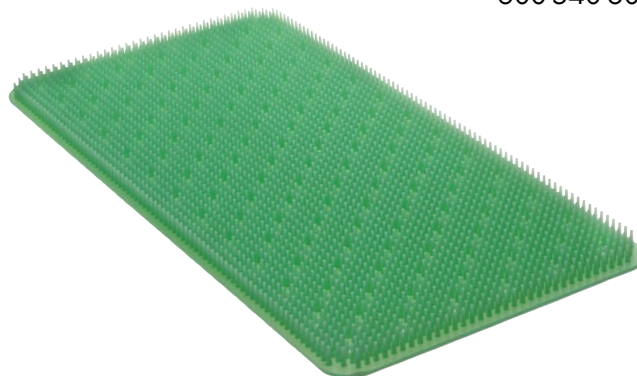
600-540-535 545 x 255 x 35mm
600-540-555 545 x 255 x 55mm
600-540-575 545 x 255 x 75mm
600-540-605 545 x 255 x 105mm



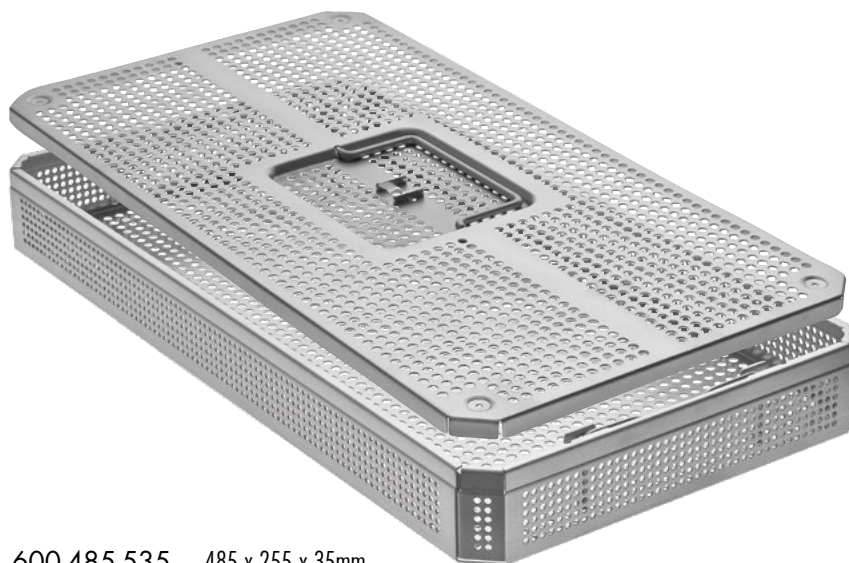
Lid only
600-540-500 545 x 255mm



Bottom only
600-540-530 545 x 255 x 30mm
600-540-550 545 x 255 x 50mm
600-540-570 545 x 255 x 70mm
600-540-600 545 x 255 x 100mm



600-281-004 Silicone Mat green, 520 x 230mm



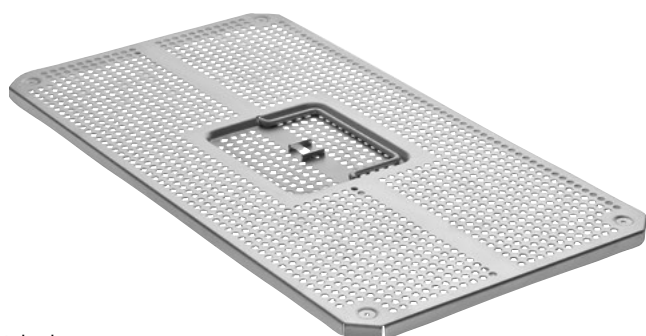
1/1

Stainless Steel Basket,
round perforation, with lid

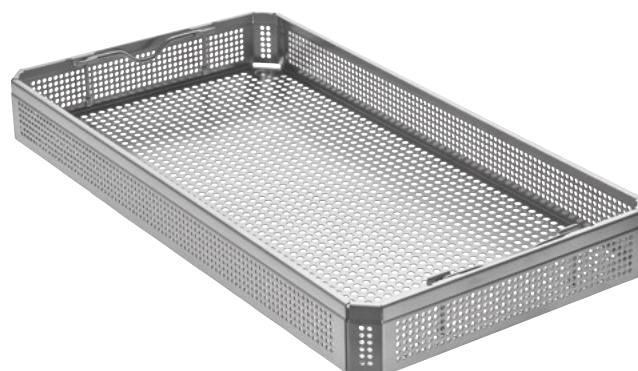
Length

485mm

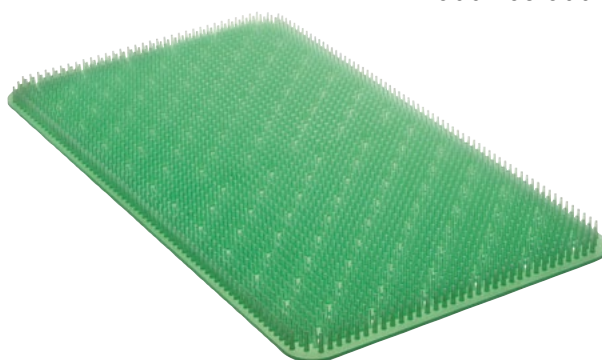
600-485-535 485 x 255 x 35mm
600-485-555 485 x 255 x 55mm
600-485-575 485 x 255 x 75mm
600-485-605 485 x 255 x 105mm



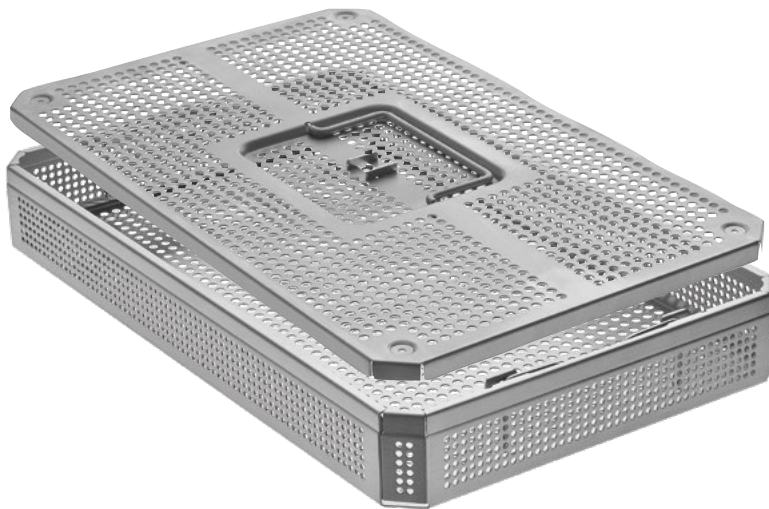
Lid only
600-485-500 485 x 255mm



Bottom only
600-485-530 485 x 255 x 30mm
600-485-550 485 x 255 x 50mm
600-485-570 485 x 255 x 70mm
600-485-600 485 x 255 x 100mm



600-281-003 Silicone Mat green, 440 x 230mm



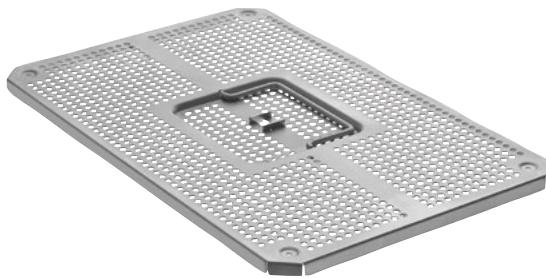
3/4

Stainless Steel Basket,
round perforation, with lid

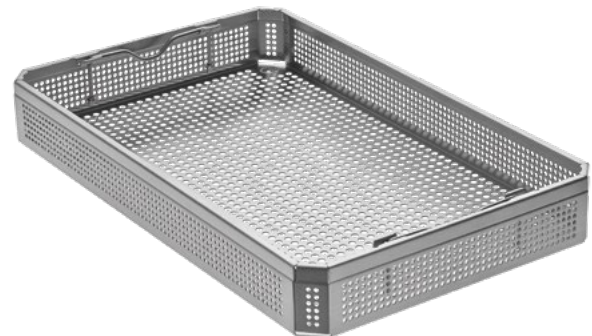
Length

405mm

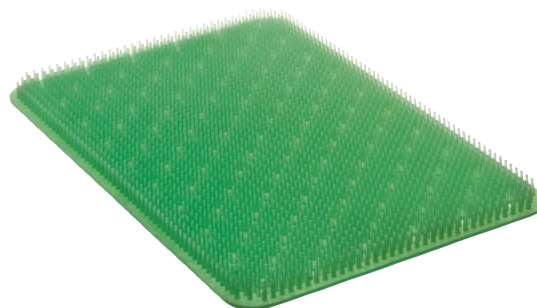
600-405-535 405 x 255 x 35mm
600-405-555 405 x 255 x 55mm
600-405-575 405 x 255 x 75mm
600-405-605 405 x 255 x 105mm



Lid only
600-405-500 405 x 255mm



Bottom only
600-405-530 405 x 255 x 30mm
600-405-550 405 x 255 x 50mm
600-405-570 405 x 255 x 70mm
600-405-600 405 x 255 x 100mm



600-281-002 Silicone Mat green, 380 x 230mm



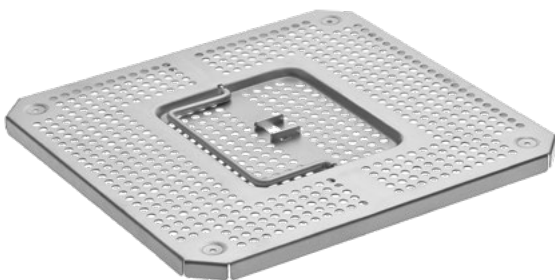
1/2

Stainless Steel Basket,
round perforation, with lid

Length

255mm

600-255-535 255 x 245 x 35mm
600-255-555 255 x 245 x 55mm
600-255-575 255 x 245 x 75mm
600-255-605 255 x 245 x 105mm



Lid only
600-255-500 255 x 245mm



Bottom only
600-255-530 255 x 245 x 30mm
600-255-550 255 x 245 x 50mm
600-255-565 255 x 245 x 70mm
600-255-600 255 x 245 x 100mm



600-281-001 Silicone Mat green, 220 x 230mm



SIZE (LXWXH)



580 x 280 x 100mm

●	600-580-101	600-579-101
●	600-580-102	600-579-102
●	600-580-103	600-579-103
●	600-580-104	600-579-104
●	600-580-105	600-579-105
●	600-580-106	600-579-106



580 x 280 x 135mm

●	600-580-131	600-579-131
●	600-580-132	600-579-132
●	600-580-133	600-579-133
●	600-580-134	600-579-134
●	600-580-135	600-579-135
●	600-580-136	600-579-136



580 x 280 x 150mm

●	600-580-151	600-579-151
●	600-580-152	600-579-152
●	600-580-153	600-579-153
●	600-580-154	600-579-154
●	600-580-155	600-579-155
●	600-580-156	600-579-156



580 x 280 x 200mm

●	600-580-201	600-579-201
●	600-580-202	600-579-202
●	600-580-203	600-579-203
●	600-580-204	600-579-204
●	600-580-205	600-579-205
●	600-580-206	600-579-206



580 x 280 x 260mm

●	600-580-261	600-579-261
●	600-580-262	600-579-262
●	600-580-263	600-579-263
●	600-580-264	600-579-264
●	600-580-265	600-579-265
●	600-580-266	600-579-266

SIZE (LXWXH)



465 x 280 x 100mm

●	600-469-101	600-470-101
●	600-469-102	600-470-102
●	600-469-103	600-470-103
●	600-469-104	600-470-104
●	600-469-105	600-470-105
●	600-469-106	600-470-106



465 x 280 x 135mm

●	600-469-131	600-470-131
●	600-469-132	600-470-132
●	600-469-133	600-470-133
●	600-469-134	600-470-134
●	600-469-135	600-470-135
●	600-469-136	600-470-136



465 x 280 x 150mm

●	600-469-151	600-470-151
●	600-469-152	600-470-152
●	600-469-153	600-470-153
●	600-469-154	600-470-154
●	600-469-155	600-470-155
●	600-469-156	600-470-156

SIZE (LXWXH)



285 x 280 x 100mm	600-280-101	600-279-101
	600-280-102	600-279-102
	600-280-103	600-279-103
	600-280-104	600-279-104
	600-280-105	600-279-105
	600-280-106	600-279-106



285 x 280 x 135mm	600-280-131	600-279-131
	600-280-132	600-279-132
	600-280-133	600-279-133
	600-280-134	600-279-134
	600-280-135	600-279-135
	600-280-136	600-279-136



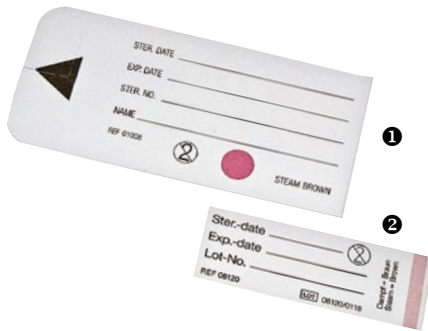
285 x 280 x 150mm	600-280-151	600-279-151
	600-280-152	600-279-152
	600-280-153	600-279-153
	600-280-154	600-279-154
	600-280-155	600-279-155
	600-280-156	600-279-156



285 x 280 x 200mm	600-280-201	600-279-201
	600-280-202	600-279-202
	600-280-203	600-279-203
	600-280-204	600-279-204
	600-280-205	600-279-205
	600-280-206	600-279-206



285 x 280 x 260mm	600-280-261	600-279-261
	600-280-262	600-279-262
	600-280-263	600-279-263
	600-280-264	600-279-264
	600-280-265	600-279-265
	600-280-266	600-279-266



Identification label, 100 pieces per package

① 600-908-100 STANDARD

② 600-908-000 SMALL



600-909-000

Plastic security seal,
100 pieces per package



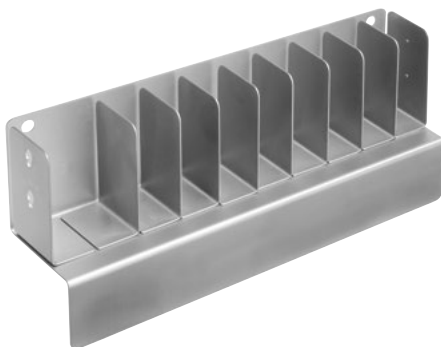
Identification label

with hole for snap hook

56x17mm

50x17mm

unmarked	●	600-900-040	600-900-041
	●	600-900-050	600-900-051
	●	600-900-060	600-900-061
	●	600-900-070	600-900-071
	●	600-900-080	600-900-081
	●	600-900-090	600-900-091
	●	600-900-100	600-900-101
	●	600-900-108	600-900-109
	●	600-900-110	600-900-111
	●	600-900-120	600-900-121
marked	●	600-900-130	600-900-131
	●	600-900-140	600-900-141
	●	600-900-150	600-900-151
	●	600-900-160	600-900-161
	●		



600-900-210

Dispenser for identification labels
(8 small compartments and 1 double compartment)
as table or wall model



600-380-100

PTFE (TEFLON) Filter, round, STANDARD



600-290-630

Filter Dispenser for disposable Filter,
round, 195x195mm



DEVICES



INSUFFLATOR



Features:

- User-friendly interface
- Highest safety standard for patients
- All units are available with or without CO₂ heating system
- Pre-insufflation mode for use with Verres Cannulas
- Non-heating unit have the same gasflow rates as heating unit models

DELIVERY CONTAINS:

- Main Unit (300-900-020/-021/030/-031/-040/-041)
- Sterile Filter (300-902-007)* (TP Product)
- CO₂ High Pressure Tube (300-902-003)
- Standard Silicone Tube (300-902-005)
- Silicone Tube (300-902-004), only Heater-Version
- Gas Heater with tube (300-902-001), only Heater-Version
- Operating manual
- Mains cable

Airflow Insufflator A2/A3/A4

300-900-020	20L/min
300-900-021	20L/min, with heating unit
300-900-030	30L/min
300-900-031	30L/min, with heating unit
300-900-040	45L/min
300-900-041	45L/min, with heating unit

Technical data

Line voltage	100-240 VAC
Power consumption	25 - 40W 25-105W (with gas heating) max. 0.4A (max. 1A with gas heating)
Frequency	50 - 60Hz
Insufflation pressure	1 - 30mmHG
Gas flow	1-20L/min (300-900-020 / -021) 1-30L/min (300-900-030 / -031) 1-45L/min (300-900-040 / -041)

Gas connection	UNF 7/16" male
Gas type	Medical Grade Carbon Dioxide
Dimensions	380 x 120 x 360 mm (WxHxD)
Weight	11kg



1	Insufflation needle, matt chrome, Ø 2 mm
300-195-080	80 mm
300-195-100	100 mm*
300-195-120*	120 mm*
300-195-150	150 mm*
300-195-170	170 mm
300-195-200	200 mm

* standard length

2	Insufflation needle, polished chrome, Ø 2.7 mm, High-Flow
300-195-300	100 mm
300-195-320	120 mm*
300-195-350	150 mm*
300-195-370	170 mm*

Accessories (included):



Sterile Filter*
300-902-007



Standard Silicone Tube
300-902-005



Gas heater with tube (only Heater-Version)
300-902-001



CO2 High Pressure Tube
300-902-003



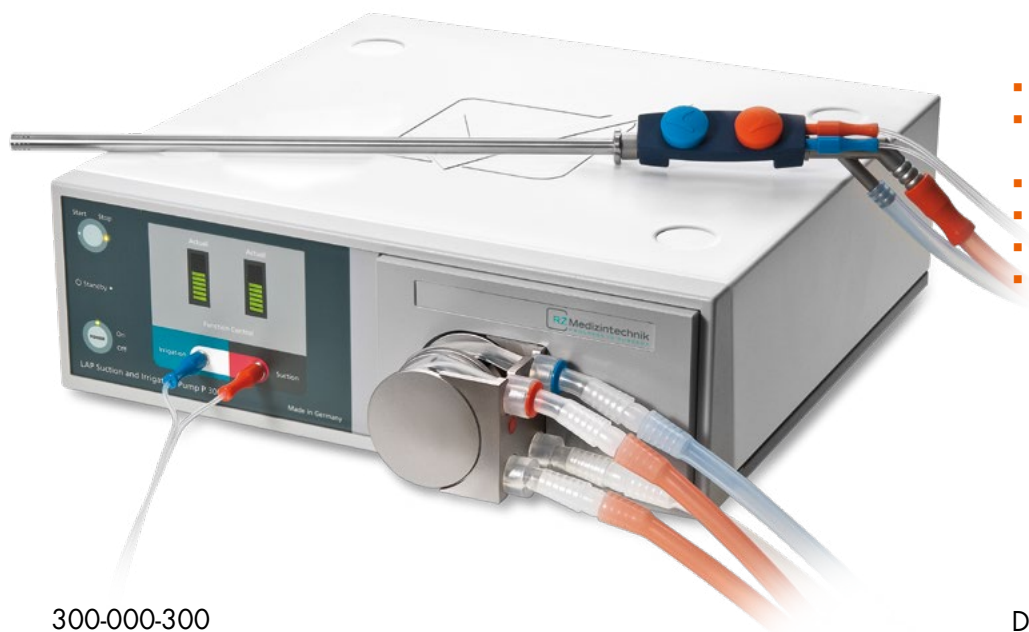
Silicone Tube (only Heater-Version)
300-902-004



Optional available:
300-902-008
CO2 Bottle, 0.75kg, empty

* Trade Product:
Products marked with this TradeProduct-Symbol are not available with RZ-Marking and not with the CE-number of RZ.

SUCTION & IRRIGATION PUMP



Features:

- Double roll pump for precise suction and irrigation during Laparoscopic surgeries
- Optional footswitch available
- Digital display of actual suction and irrigation pressures
- High flow rates up to 3L/min
- Color coded tubing sets
- Standby function
- Hand remote controlled

300-000-300

LAP Suction and Irrigation Pump P 3000, complete set

DELIVERY CONTAINS:

- Pump device (300-000-300)
- Cannula 5mm (300-000-302)
- Cannula 10mm (300-000-303)
- Silicone Tubing Set (300-000-301)
- Tube Adapter (300-000-304)
- Pneumatic Control Handle (300-000-305)
- Double-Lumen Control Tube (300-000-306)
- Mains cable
- 2 Spare fuses
- Operating manual

Technical data

Line voltage	100-240 VAC
Power input	36W
Irrigation power	0 - 3.000ml/min
Suction power	0 - 3.000ml/min
Max. pressure	0 - 750mmHg
Measurements	380 x 130 x 400mm (WxHxD)
Weight	approx. 11kg

Accessories

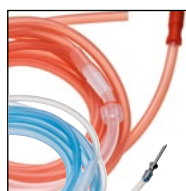


300-000-304

Adapter with instrument connector, autoclavable

300-000-307

Pneumatic double footswitch



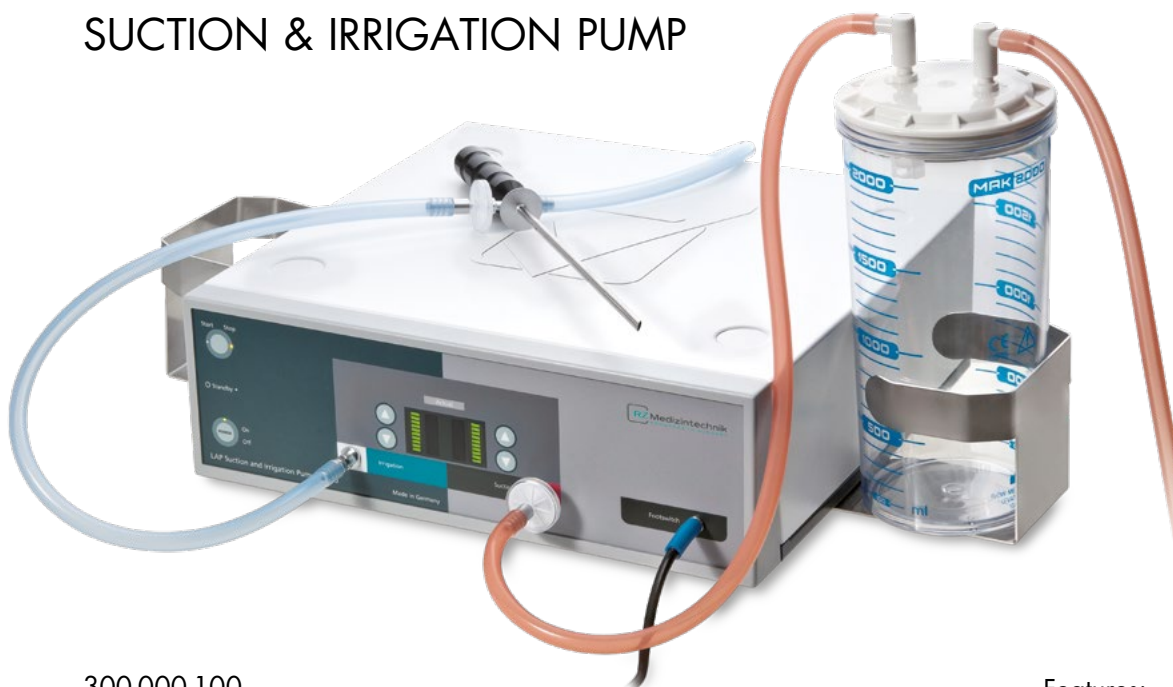
300-000-301 (included)

Tubing Set, non-sterile,
autoclavable

300-000-301S (optional)

Tubing Set, single-use,
sterile, moq: 50 pcs.

SUCTION & IRRIGATION PUMP



300-000-100

LAP Suction and Irrigation Pump P1000, complete set

Technical data

Line voltage	100-240 VAC
Power input	80VA
Irrigation power	3L/min
Suction power	3L/min
Max. vacuum	- 525mmHG
Max. pressure	0 - 750mmHG
Measurements	380 x 120 x 360mm (WxHxD) with Aspiration Bottle Retainers approx. 440 x 120 x 360mm
Weight	Device: approx. 11kg Aspiration Bottle-Retainer: (for 1 Liter = 0.34kg, for 2 Liter = 0.44kg)

Features:

- Dual suction and irrigation vacuum pump
- Digital display of suction and irrigation pressures
- High rates up to 3L/min
- Color coded tubing sets
- Standby function
- Low noise level
- Hydrophobic disposable filters

DELIVERY CONTAINS:

- Pump device (300-000-100)
- Suction and irrigation tubing set (300-000-102)
- Aspiration bottle 2L with overflow valve (300-000-101)
- Puncture tube 235mm (300-001-521)
- 2 Hydrophobic disposable sterile filters (300-000-103)
- 2 Bottle holders with screws
- Mains cable
- 2 Spare fuses
- Operating manual

Accessories (optional available)



300-000-110

Start/Stop - Footswitch

4K CAMERA SYSTEM



Features:

- 4K UHD resolution with 3-chip technology
- Image algorithm enhancement of color and structure
- 4K video recording
- 4K image saving
- Camera head with 4 programmable buttons
- Boost function
- Fog reduction
- Freeze function
- 2.5x digital zoom
- 10 USER mode configurations
- Multilingual on screen menu
- SDI 4K Output
- Text generator (optional with keyboard)

DELIVERY CONTAINS:

- Main Unit (300-001-840)
- Camera head (300-001-841)
- HDMI cable
- USB Pen Drive
- Mains cable
- Operating manual

300-001-840 4K 3-Chip UHD-Camera K 4000

4K

Technical data

Line voltage	100-240 VAC
Power consumption	60VA
Image sensor	3 MOS
Resolution	3840 x 2160 pixels (4K)
Index ratio	16:9
N/N ratio	54db

Video outputs

1x HDMI 4K
1x HDMI FullHD
1x SDI 4K
1x SDI FullHD

Dimensions

Control unit: 355 x 103 x 350mm (WxHxD)
Weight control unit: 6.2kg
Weight camera head: 145g

Accessories



300-001-841
UHD 3-Chip Camera Head
(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

FULL HD CAMERA SYSTEM



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)

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

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

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.



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)

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

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)

Video outputs (F2 Pro)	2 x HD SDI (optional) 1 x HDMI / DVI 1 x Y-Pb-Pr (Component) 1 x Video (PAL/NTSC) 1 x 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

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
c-mount, soakable



FULL HD

250-022-018 f=18mm
250-022-030 f=25mm
90°, c-mount, soakable

RZ MEDIA WORKSTATION Innovative Documentation System – the stand alone “all in one” solution

Sophisticated users get a comprehensive tool for creating, documenting and archiving of videos, pictures and findings.

An extensive set of tools gives the ability for easy creation of individual and complex findings reports. Easy integration into IT-environment ensures an optimal workflow. The database provides long-term availability of picture findings with almost no capacity limitation.

Diagnostics & Results

- Recording of videos and pictures
- PACS support DICOM worklist/store
- Playing videos with abstraction of individual images
- Manual input of comments and markers for sessions and recordings
- Graphical markers with individual comments
- Creation of reports incl. patient information, pictures, videos and comments
- Full-text search in data base
- User management including import, adaption and export of patients
- LIVE OR communication via e.g. Zoom, Skype or Teams
- Hospital Safety guidelines
(Windows based network and firewall)



Documentation System 21" touch

- 300-001-199 OR version with DICOM worklist
- 300-001-198 without DICOM worklist



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



250-042-000
250-042-400 for ICG/NRI
RZ/Storz/Olympus



250-040-000
Wolf



250-041-000
ACMI/British Standard

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



250-039-000
250-039-400 for ICG/NRI
RZ/Storz



250-038-000
ACMI/CUDA



250-048-000
Luxtec



250-051-000
Stryker



250-037-000
250-037-400 for ICG/NRI
Wolf



250-044-000
Olympus



250-045-000
Olympus - Standard



250-052-000
Heine



250-059-000
Pentax

ICG/NIR LIGHT CABLE



250-048-234
LED High Transmission Fibre Optic Light Guide Cable
Ø 4.8mm, 2300mm, without adapter

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



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)

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 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

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



Endovue HD Monitor
300-001-168 32"
300-001-158 27"

Technical data

Screen size	31.5" / 27" 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)



Radiance HD Monitor
300-001-232 32"
300-010-226 27"

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)



300-001-031
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



300-001-028
Monitor Table Stand

Technical data

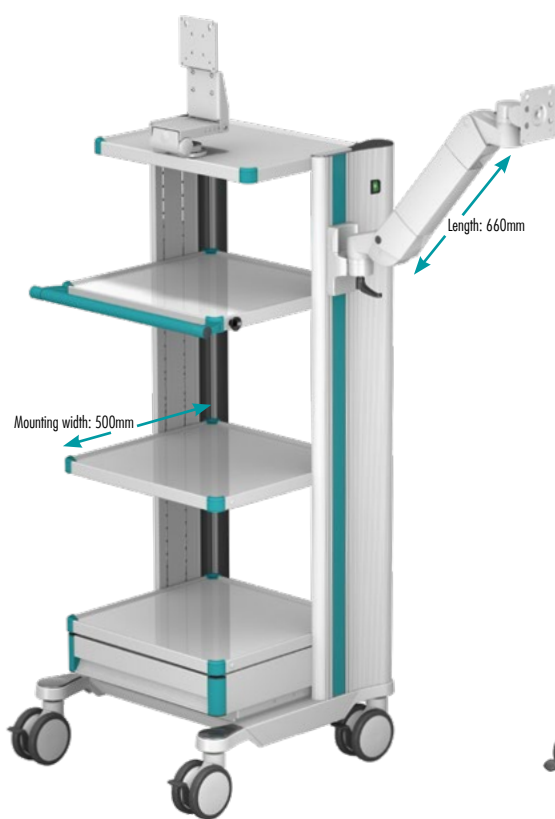
Column height	305mm, 12"
Oriantations	Landscape or page mode
Adjustments	+/- 20°
Max. load	31" / 13.6kg / 30lbs

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

RZ TROLLEY

- Optional doors and rear panel in order to protect valuable equipment
- Optional main on/off switch
- Power columns for cables
- Endoscope Holder
- Variable height support arms
- Conductive rolls

DIMENSIONS
1600 x 500 x 625mm
Rollers: Ø 125mm



300-002-001
RZ High-End Trolley



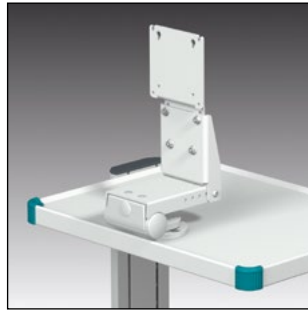
300-001-970
RZ Standard Trolley



300-001-999
RZ Basic Trolley



300-001-988
Hydraulic monitor holding, 660mm



300-001-989
Monitor Shelf with adjustable monitor holding VESA 75/100 up to 14kg



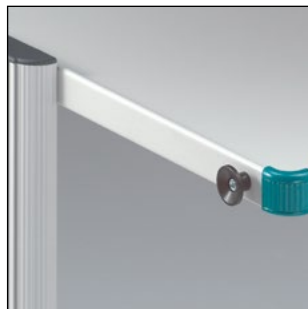
300-001-986
Keyboard Holder



300-001-990
Camera Head Holder with cable suspension



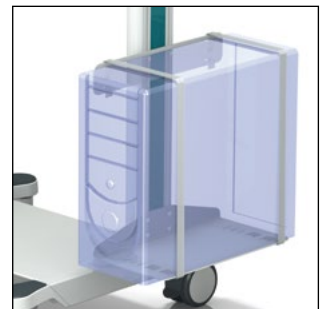
300-001-980 3/5/10 L
300-001-982 20/50 L
CO₂ Bottle Holder



300-001-979
Camera Holder



300-001-978
Cable Holder



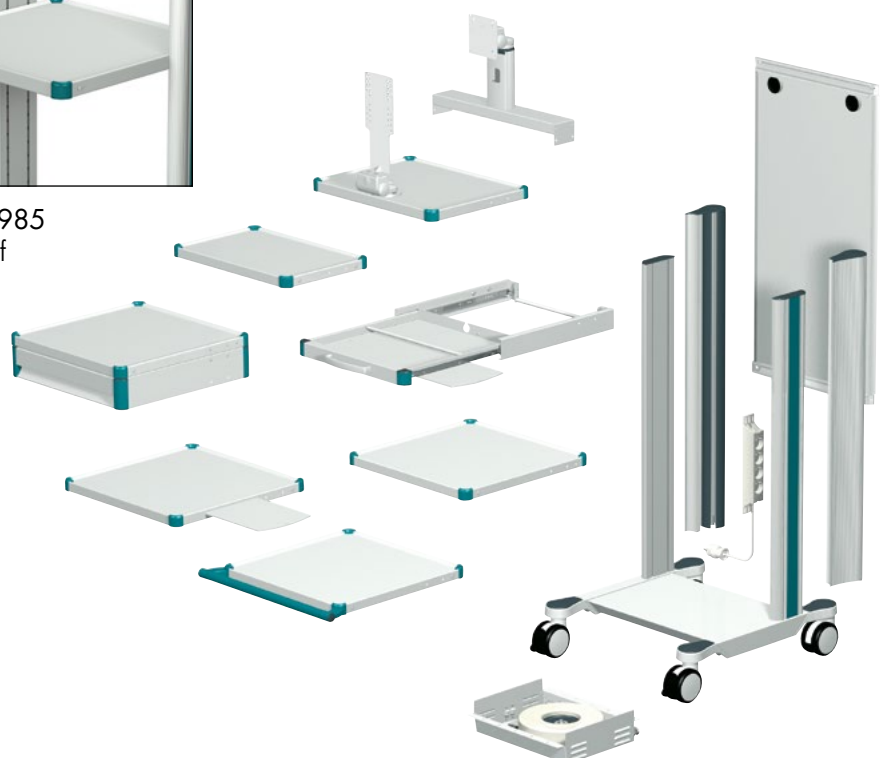
300-001-991
Computer Holder, load capacity max. 20kg



300-001-983
Rear Panel



300-001-985
Additional Shelf



110-110-003	7	250-048-230	6, 177	300-001-979	183
120-511-145	7	250-048-234	177	300-001-980	183
120-611-180	8	250-048-300	177	300-001-982	183
130-140-120	7	250-051-000	177	300-001-983	183
140-254-125	8	250-052-000	177	300-001-985	183
140-573-130	8	250-059-000	177	300-001-986	183
150-050-180	8	300-000-095	155	300-001-988	183
170-801-500	10	300-000-100	169	300-001-989	183
170-801-501	10	300-000-101	169	300-001-990	183
170-801-502	10	300-000-102	169	300-001-991	183
170-801-503	10, 12	300-000-103	169	300-001-999	182
170-801-504	12	300-000-110	169	300-002-001	182
170-801-505	12	300-000-300	168	300-006-305	37
170-801-506	10, 12	300-000-301	168	300-006-455	37
170-801-507	10, 12	300-000-302	168	300-010-226	180
170-801-508	12	300-000-303	168	300-012-106	29
170-801-510	10, 11	300-000-304	168	300-012-116	29
170-801-511	10, 11	300-000-305	168	300-012-121	29
170-801-512	10, 11	300-000-306	168	300-012-405	4, 29, 114
170-801-515	10, 11	300-000-307	168	300-012-410	29
170-802-520	11	300-001-028	181	300-012-412	29
170-802-521	11	300-001-031	181	300-012-415	29
170-802-522	11	300-001-055	181	300-012-416	29
180-550-160	8	300-001-158	180	300-012-420	29
250-015-030	173	300-001-168	180	300-012-421	29
250-015-036	173	300-001-198	174	300-012-425	29
250-022-018	173	300-001-199	174	300-012-455	4, 29
250-022-030	173	300-001-232	180	300-013-115	30
250-025-230	177	300-001-521	169	300-013-500	30
250-025-300	177	300-001-600	172	300-013-510	30
250-035-180	177	300-001-601	172	300-013-511	30
250-035-230	177	300-001-602	172	300-013-512	30
250-035-300	177	300-001-610	170, 171, 172	300-013-522	30
250-037-000	177	300-001-615	170, 171, 172	300-014-111	30
250-037-400	177	300-001-800	171	300-014-113	30
250-038-000	177	300-001-802	171	300-014-155	30
250-039-000	7, 177	300-001-804	171	300-014-711	30
250-039-400	177	300-001-813	173	300-019-500	34
250-040-000	177	300-001-814	173	300-019-501	34, 129, 140
250-041-000	177	300-001-823	173	300-019-600	34
250-042-000	177	300-001-824	173	300-019-601	34, 129, 140
250-042-400	177	300-001-825	173	300-019-700	140
250-044-000	177	300-001-840	170	300-019-705	34
250-045-000	177	300-001-841	170	300-019-710	34
250-048-000	177	300-001-970	182	300-019-735	34, 140
250-048-180	177	300-001-978	183	300-019-770	34, 140

300-019-780	34, 140	300-042-005	86	300-100-125	88
300-019-805	129	300-042-010	86	300-100-127	88
300-019-810	129	300-063-000	83	300-100-131	41
300-020-015	24	300-065-000	83	300-100-132	41
300-020-020	24	300-065-100	83	300-100-133	41
300-020-115	28	300-069-000	5, 84	300-100-134	41
300-020-120	28	300-069-450	84	300-100-400	14
300-020-211	31	300-070-000	84	300-100-430	14
300-020-215	28	300-070-450	84	300-100-687	107
300-020-220	28	300-071-000	85	300-100-688	107
300-020-255	31	300-071-450	85	300-100-689	107
300-020-711	31	300-072-000	84	300-100-691	107
300-020-755	31	300-072-450	84	300-100-692	107
300-020-915	28	300-073-000	84	300-100-693	107
300-020-920	28	300-073-450	84	300-100-694	107
300-021-011	4, 29	300-075-001	84	300-100-695	107
300-021-111	31	300-075-002	84	300-100-696	107
300-021-125	29	300-075-101	84	300-100-697	107, 130
300-021-155	31	300-075-102	84	300-100-698	107, 130
300-021-305	29	300-076-001	85	300-100-699	107
300-021-310	29	300-076-101	85	300-100-702	107
300-021-355	29	300-077-000	85	300-100-703	107
300-021-380	29	300-091-100	6, 15	300-100-760	82
300-021-405	29	300-091-130	15	300-100-771	96, 98
300-021-410	29	300-091-145	15	300-100-772	96, 98, 130
300-021-455	29	300-091-430	15	300-100-773	96, 98
300-021-755	31	300-091-433	15	300-100-774	96, 98
300-023-100	32	300-091-445	15	300-100-776	96
300-023-111	31	300-092-100	16	300-100-777	96
300-023-255	31	300-092-130	6, 16	300-100-778	96
300-023-711	31	300-092-145	16	300-100-779	96
300-023-755	31	300-096-450	16	300-100-786	96, 130
300-024-111	31	300-096-453	16	300-100-789	96, 130
300-024-155	31	300-096-455	16	300-100-798	97
300-024-711	31	300-097-100	16	300-100-799	97
300-024-755	31	300-097-130	16	300-101-588	110
300-025-358	28	300-098-105	32	300-101-589	110
300-025-359	28	300-099-006	17, 88	300-101-592	110
300-030-000	114	300-099-033	83	300-101-593	111
300-030-001	7, 114	300-099-100	83	300-101-594	110
300-030-003	114	300-099-106	17	300-101-596	110
300-030-004	114	300-099-133	83	300-101-599	110
300-030-006	114	300-099-140	83	300-101-775	95, 99
300-032-015	86	300-099-500	17	300-101-777	97
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300-042-000	7	300-100-122	88	300-110-714	87

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300-111-013	57	300-163-660	43	300-195-080	32, 166
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300-145-006	42	300-172-005	35	300-200-134	150
300-151-000	7, 113	300-172-010	35	300-200-137	150
300-151-100	113	300-172-253	141	300-200-231	150
300-152-000	113	300-173-003	35, 141	300-200-232	150
300-152-011	27	300-173-005	7, 35	300-200-233	150
300-152-012	27	300-173-010	7, 35	300-200-234	150
300-152-055	27, 139	300-173-253	141	300-200-237	150
300-153-000	113	300-192-000	36, 142	300-200-400	14
300-154-011	27	300-192-003	36, 142	300-200-430	14
300-154-055	27	300-192-005	36	300-215-000	164
300-154-125	27	300-192-010	36	300-220-011	22
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