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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

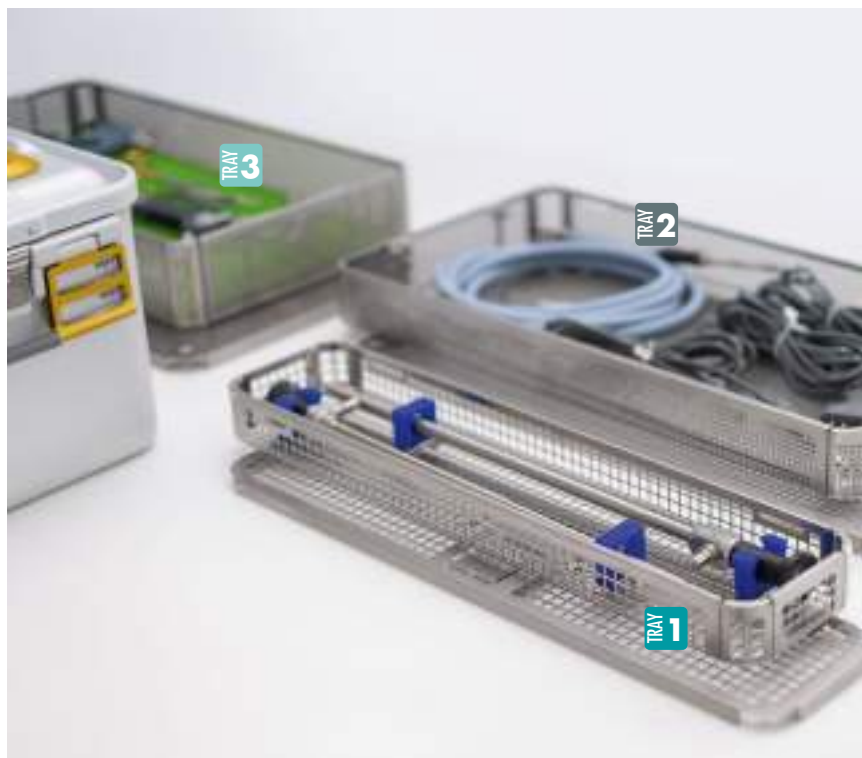
Grasping and Dissecting Forceps, Needle Holders, Scissors, Trocars and other specialities makes the first Container fully equipped with the instruments you need.
Open the tray and start working without missing your favorite instrument.

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

























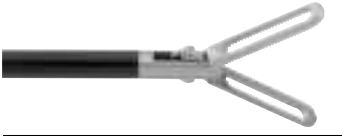









CONTAINER SET #2

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, 180mm	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.

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

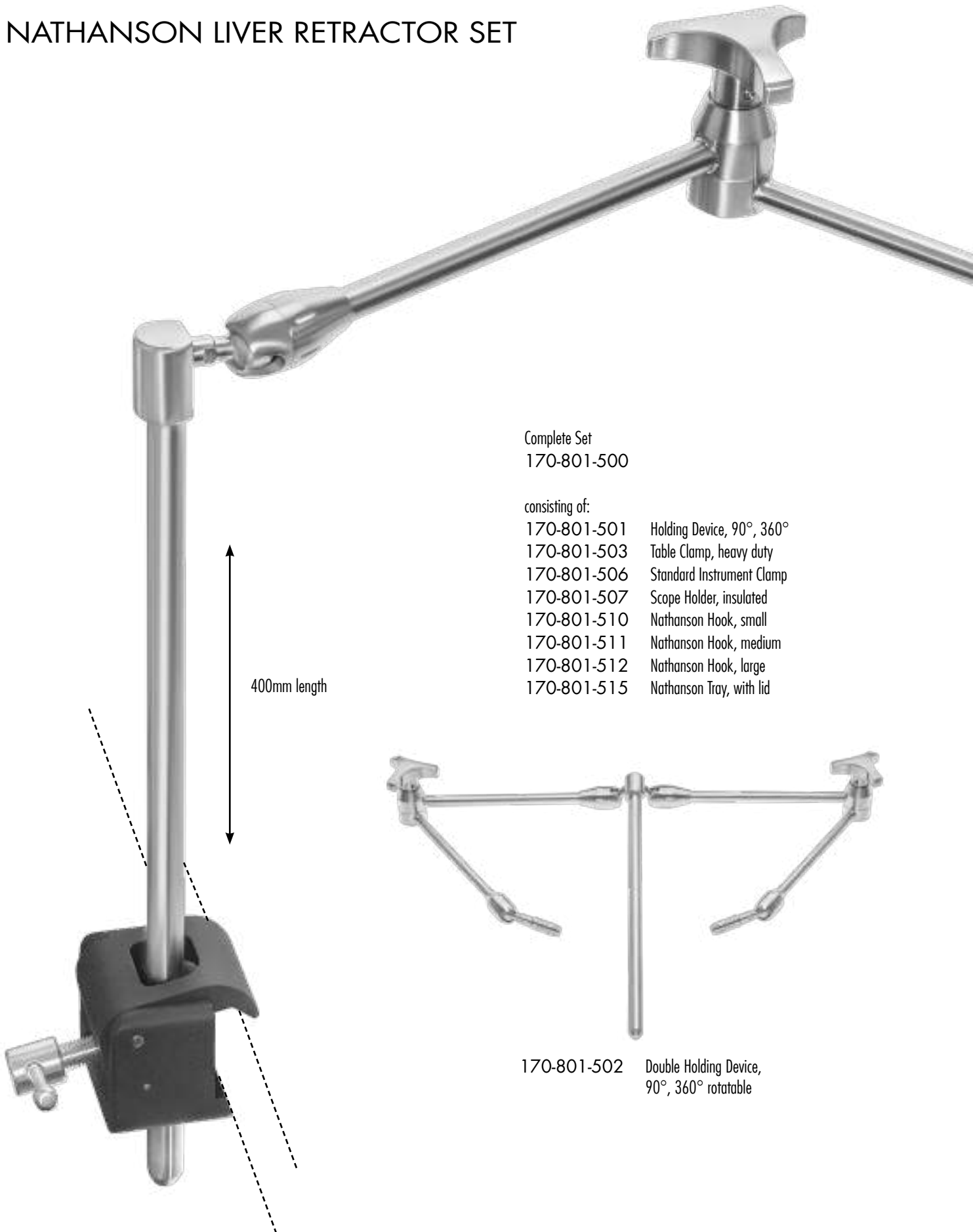
CONTAINER SET #2

		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



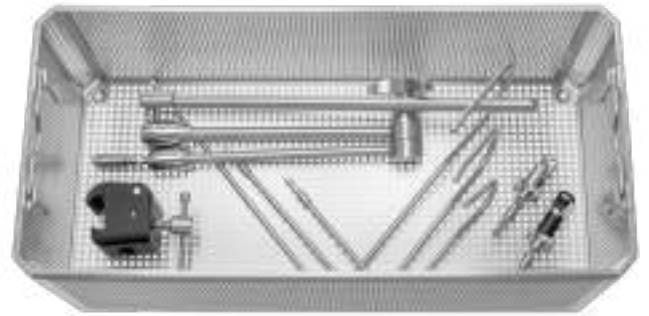
Complete Set
170-801-500

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

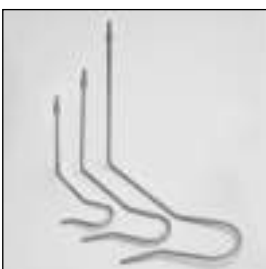


Quick lock mechanism



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



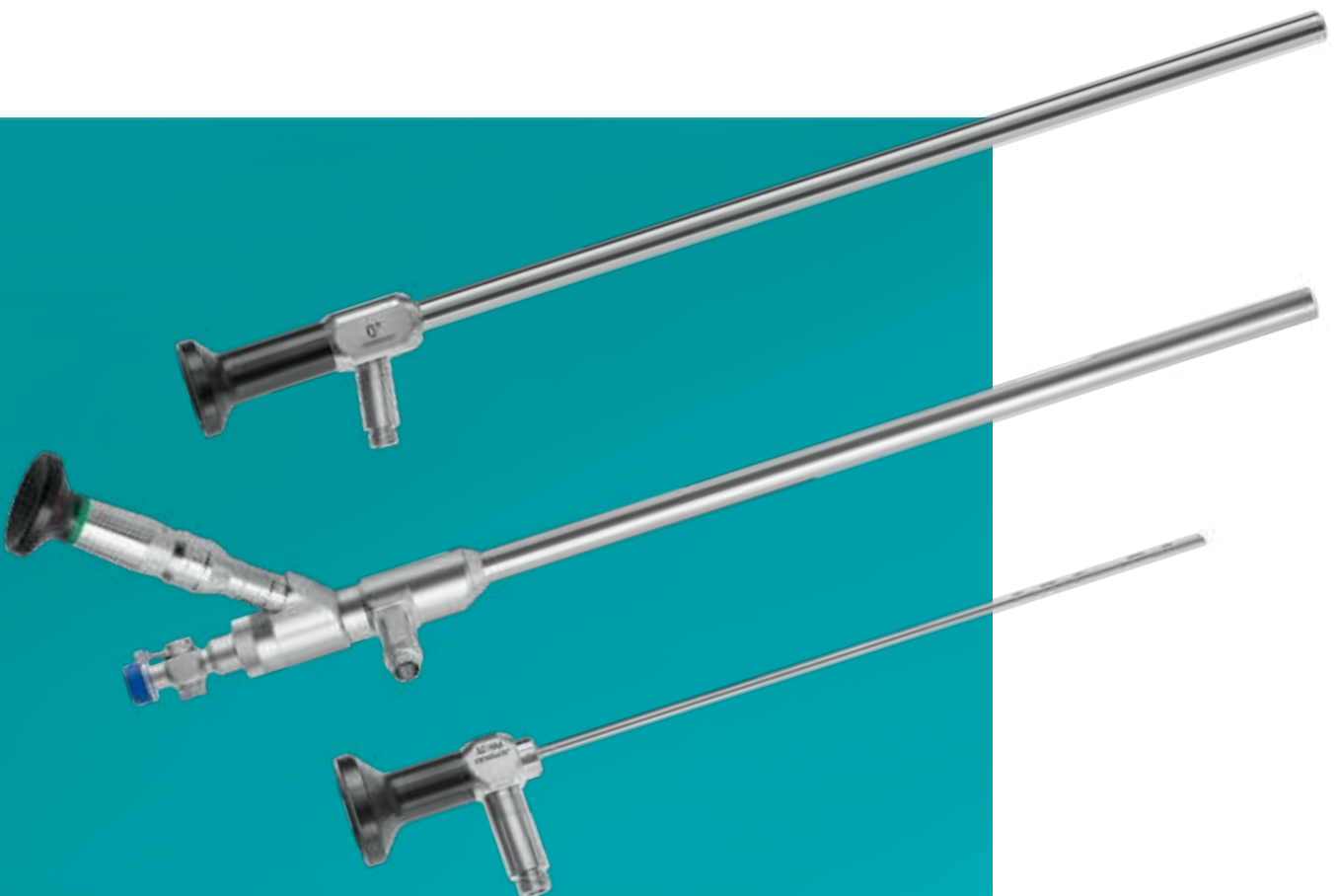
170-801-505 Frame Clamp for Retractor Frames



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

30° DIRECTION OF VIEW

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



Ø
5.5 mm

0° DIRECTION OF VIEW

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

30° DIRECTION OF VIEW

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

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 Ø 10mm

300mm working length	300-700-400
400mm working length	300-755-400

30° DIRECTION OF VIEW Ø 5.5mm

300mm working length	300-700-430
400mm working length	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



∅
5 mm



0° DIRECTION OF VIEW

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



30° DIRECTION OF VIEW

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



45° DIRECTION OF VIEW

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



∅
2.9 mm



0° DIRECTION OF VIEW

207mm working length	300-097-100
270mm overall length	



30° DIRECTION OF VIEW

207mm working length	300-097-130
270mm overall length	

FULL HD OPERATING LAPAROSCOPES

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

FULL HD



∅
10 mm

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



∅
10 mm

0° DIRECTION OF VIEW

Lateral eye piece
270mm length

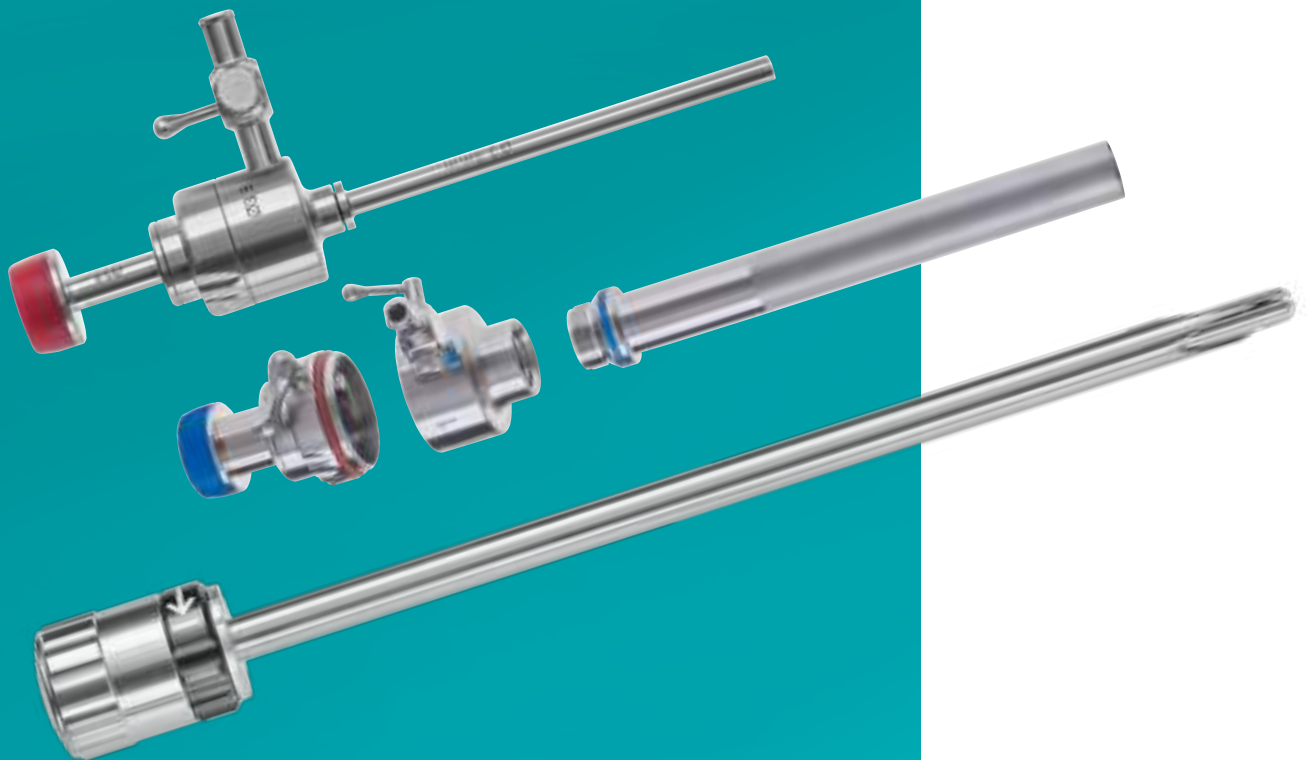
300-099-106



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	∅
	5.5mm
	11.0mm
	13.0mm

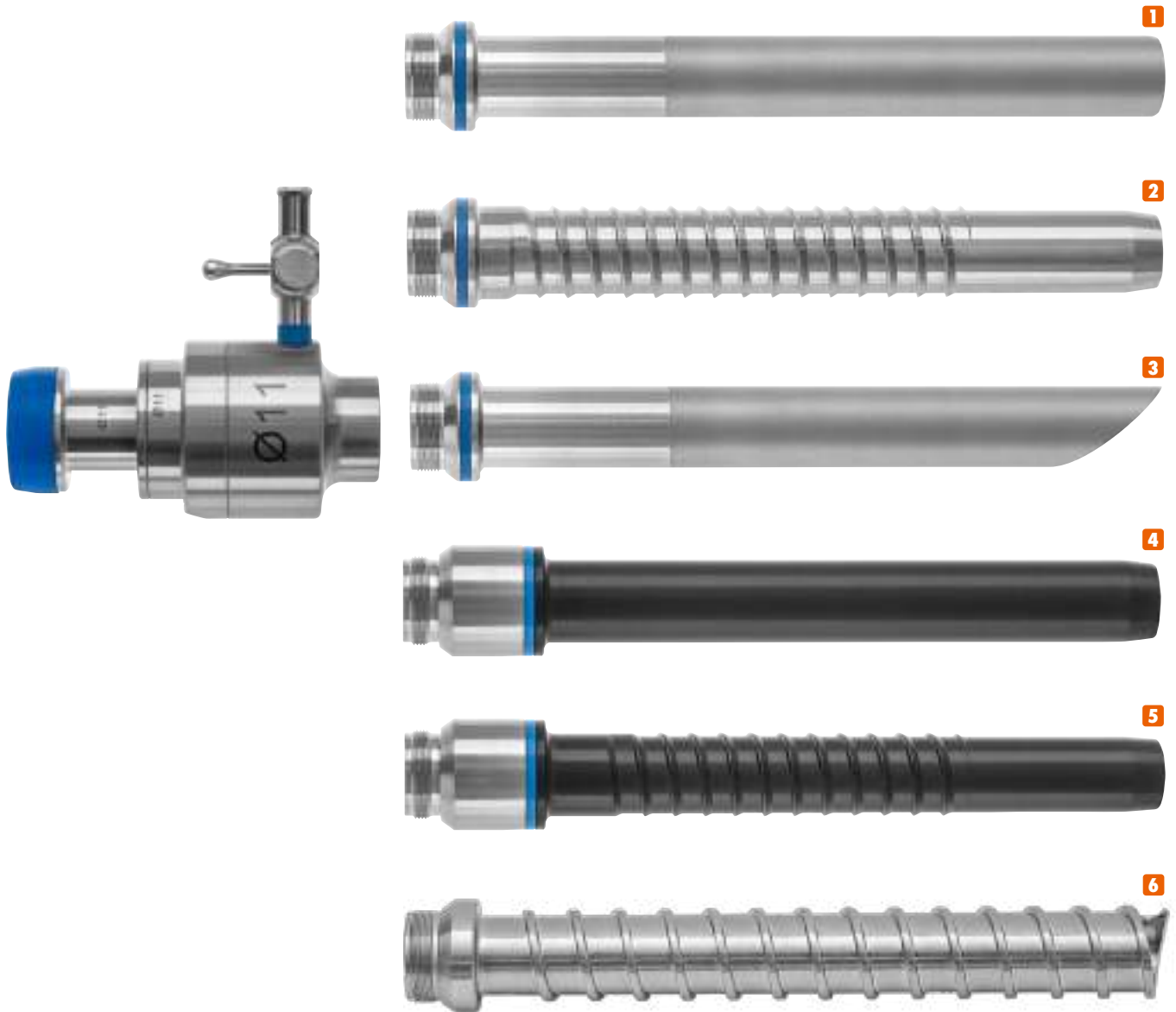
MultiPort Trocar System



SiliPort Trocar System



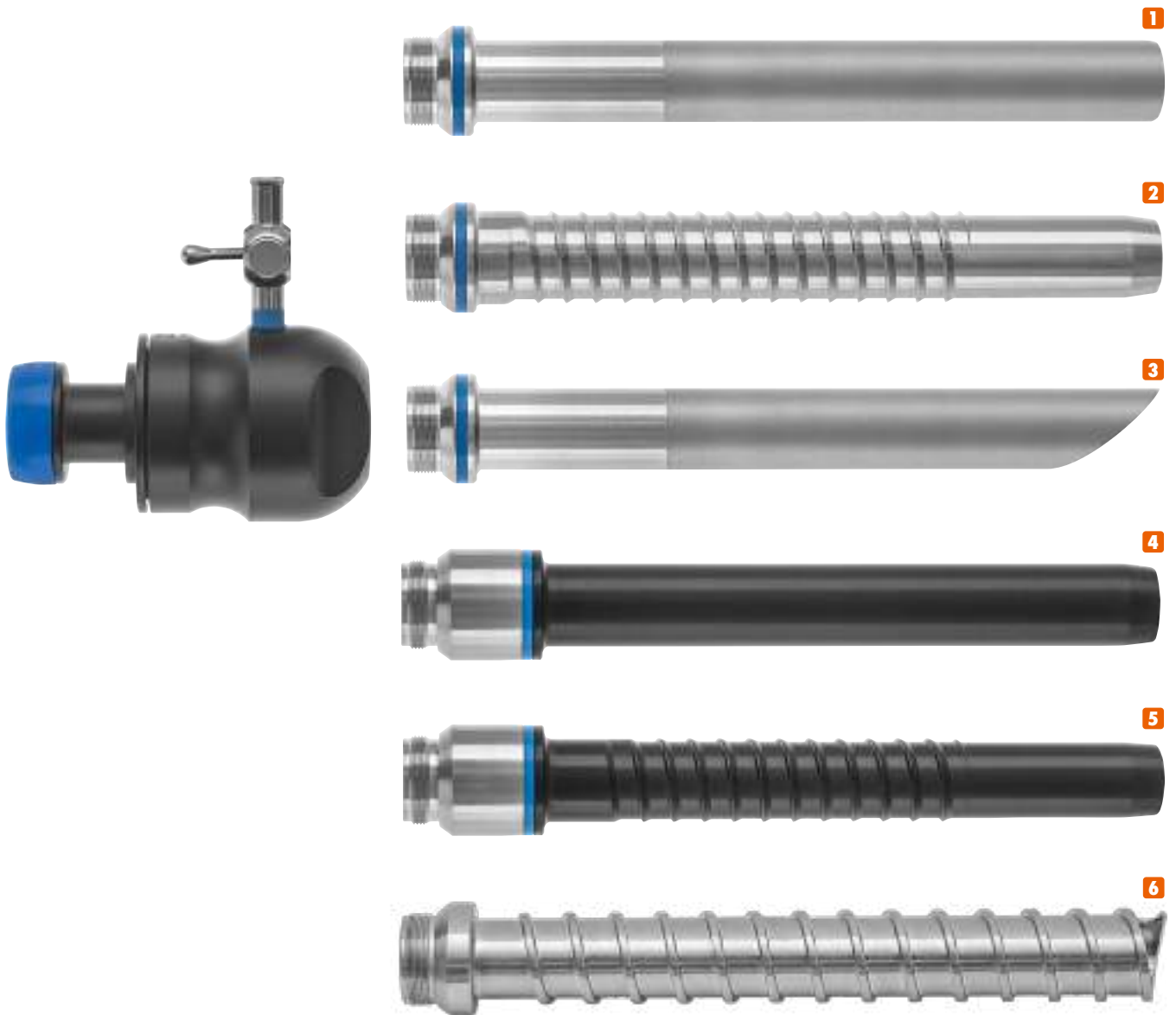
Multiport Trocar Sleeves, 100mm working length



- 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
1	300-220-055*	300-220-011*	300-220-013*
2	300-221-055	300-221-011	300-221-013
3	300-222-055*	300-222-011*	300-222-013*
4	300-223-055	300-223-011	300-223-013
5	300-224-055	300-224-011	300-224-013
6	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

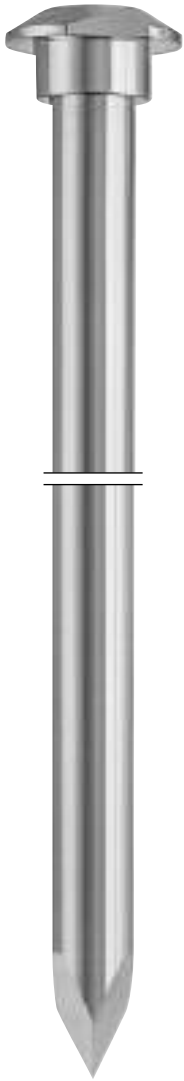


Stainless steel trocar with smooth sleeve, 70mm working length
Ø 3.5mm 300-112-035

SPARE TROCAR SLEEVES

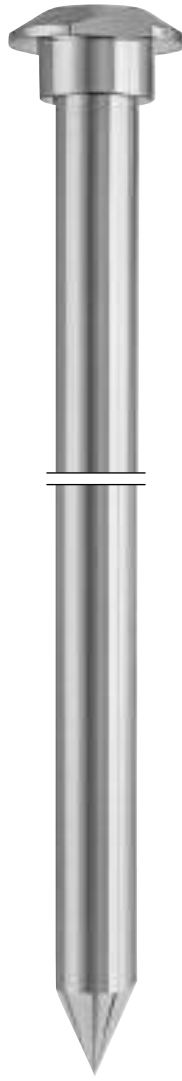


	Ø 5.5mm	Ø 11mm	Ø 13mm
1 Stainless steel sleeve, smooth	300-220-255	300-220-211	300-220-213
2 Stainless steel sleeve, thread	300-221-255	300-221-211	300-221-213
3 Stainless steel sleeve, oblique	300-222-255	300-222-211	300-222-213
4 Synthetic sleeve, smooth	300-233-255	300-233-211	300-233-213
5 Synthetic 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



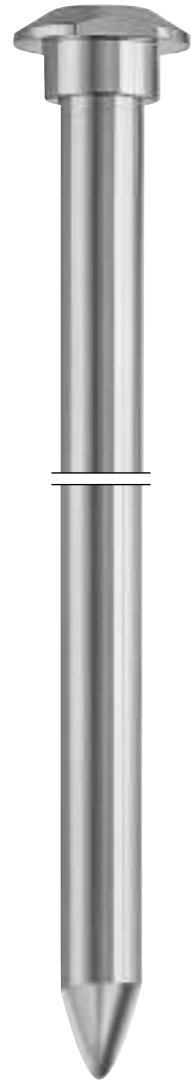
Standard trocar
with pyramidal tip, reusable, cutting

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



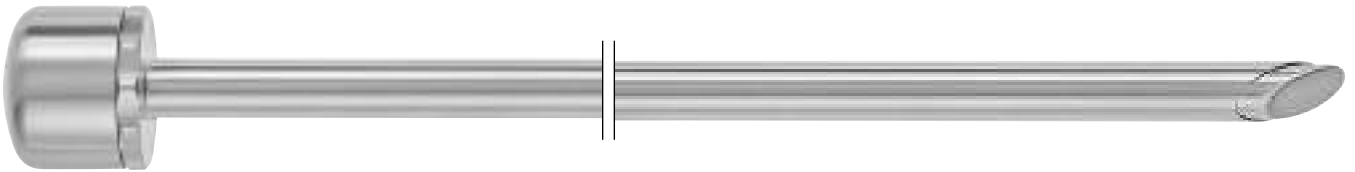
Shielded trocar tip



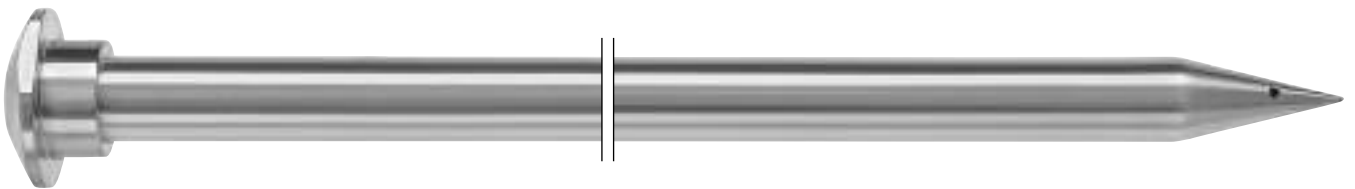
Sharp trocar tip



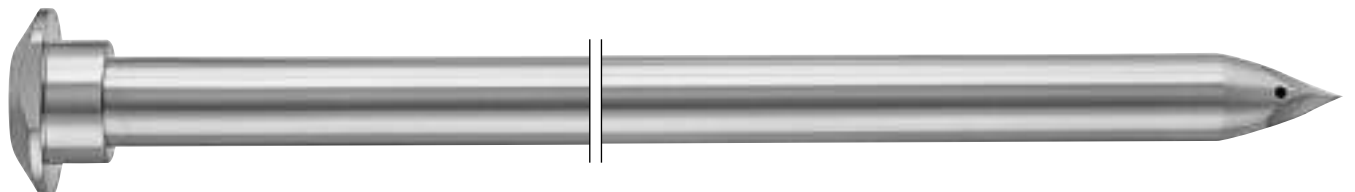
Safety mechanism



Safety trocar with oblique cutting edge
 300-154-055 5.5 mm
 300-154-011 11.0 mm
 300-154-125 12.5 mm



Cannulated trocars with hole, conical tip
 300-243-055 5.5 mm
 300-243-011 11.0 mm
 300-243-013 13.0 mm



Cannulated trocars with hole, trocar point
 300-244-055 5.5 mm
 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
300-250-155 Ø 5.5mm
300-250-111 Ø 11mm
300-250-113 Ø 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 → 5.5 mm

300-021-125 Ø 12.5mm → 5.5 mm



Reducer clip with silicone band for

all RZ trocar systems

300-021-355* Ø 11mm → 5.5 mm

300-021-380 Ø 11mm → 8.0 mm

300-021-305 Ø 13mm → 5.5 mm

300-021-310 Ø 13mm → 10.0 mm



Slide-reducer for all RZ Trocar Systems

300-021-455 Ø 11mm → 5.5 mm

300-021-405 Ø 13mm → 5.5 mm

300-021-410 Ø 13mm → 10.0 mm

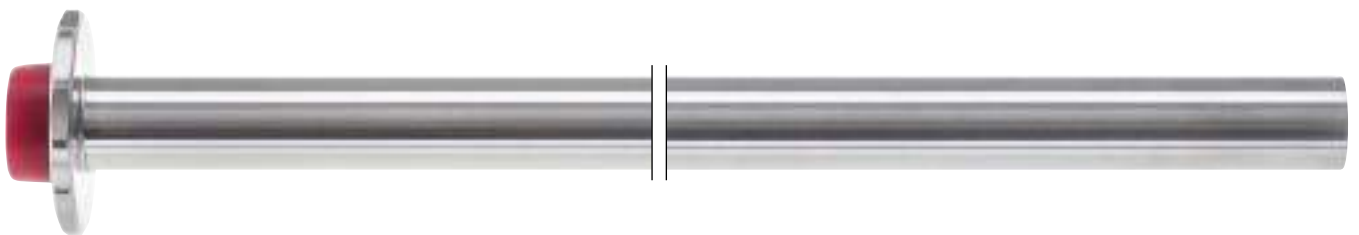


Reducer Sleeve short, for all RZ modular trocar systems, 60mm

300-012-106 Ø 10mm → 5.0 mm

300-012-116 Ø 11mm → 5.5 mm

300-012-121 Ø 12.5mm → 5.5 mm



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

- 300-013-511 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 → 12.5 mm
- 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

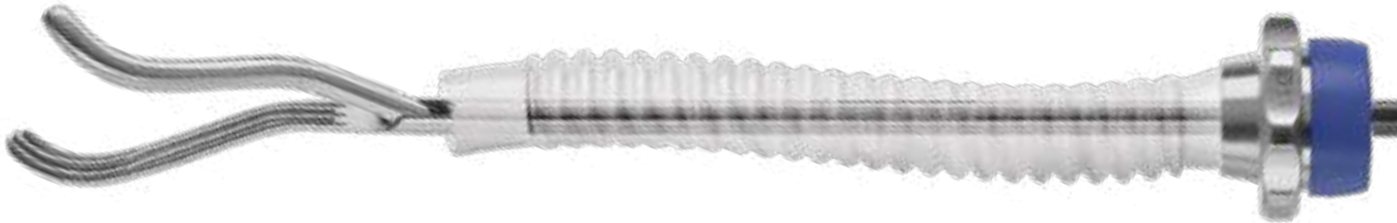


Fixable sliding Hasson cone with suture fixation device, for all RZ Modular Trocar Systems with smooth metal sleeves

- 300-014-711 Ø 11mm

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 5.5 mm
 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



Insufflation needle, matt chrome, \varnothing 2 mm

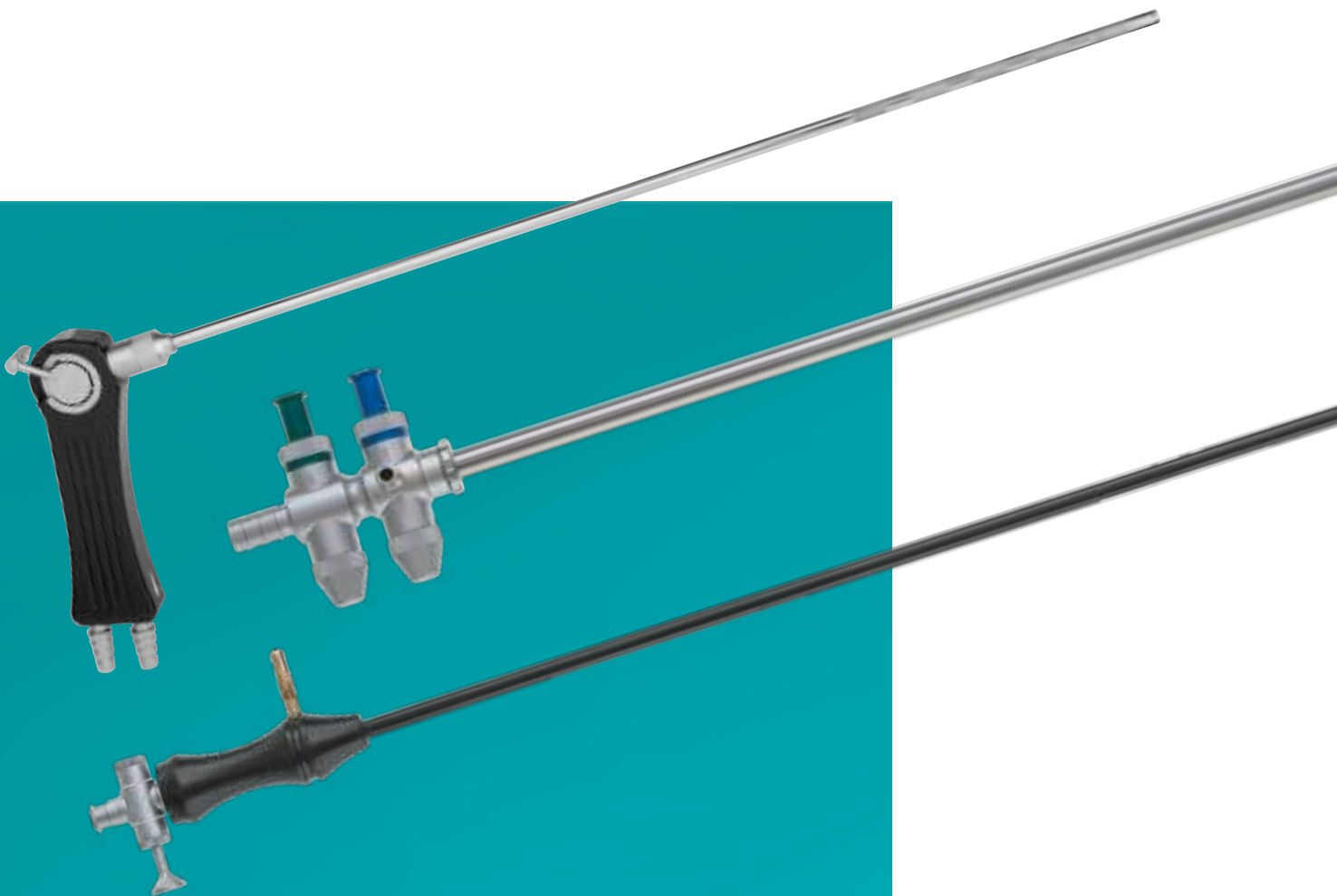
300-195-080	80 mm
300-195-100	100 mm*
300-195-120*	120 mm*
300-195-150	150 mm*
300-195-170	170 mm
300-195-200	200 mm

* standard length

Insufflation needle, polished chrome, \varnothing 2.7 mm, High-Flow

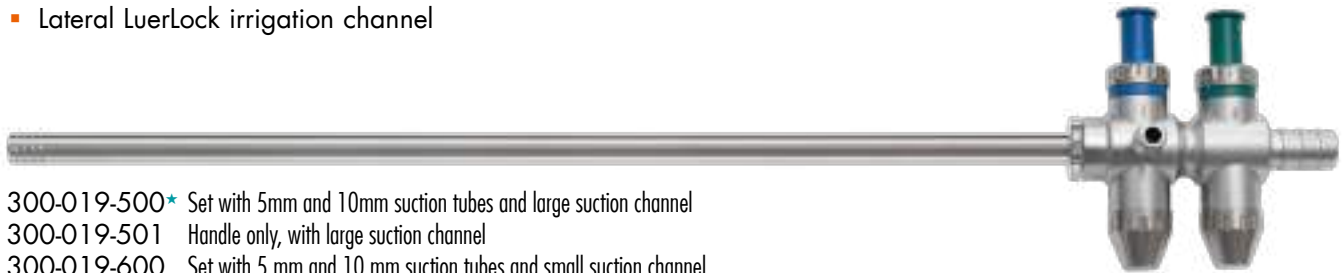
300-195-300	100 mm
300-195-320	120 mm*
300-195-350	150 mm*
300-195-370	170 mm*

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 5 mm 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



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



- 300-019-790 Screw cap
- 1 unit



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



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



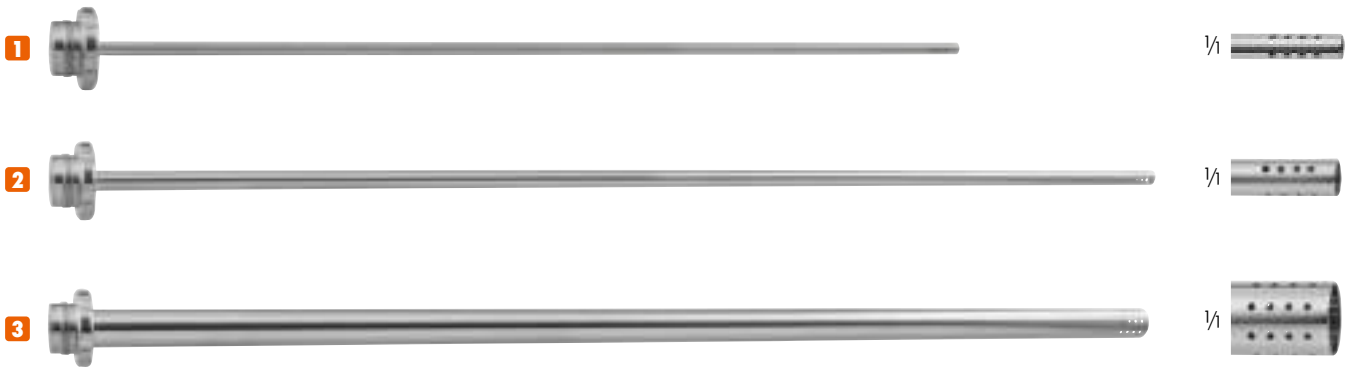
- 300-019-740 Valve Body



- 1 300-019-760 Irrigation piston
- 1 unit

- 2 300-019-750 Suction piston
- 1 unit

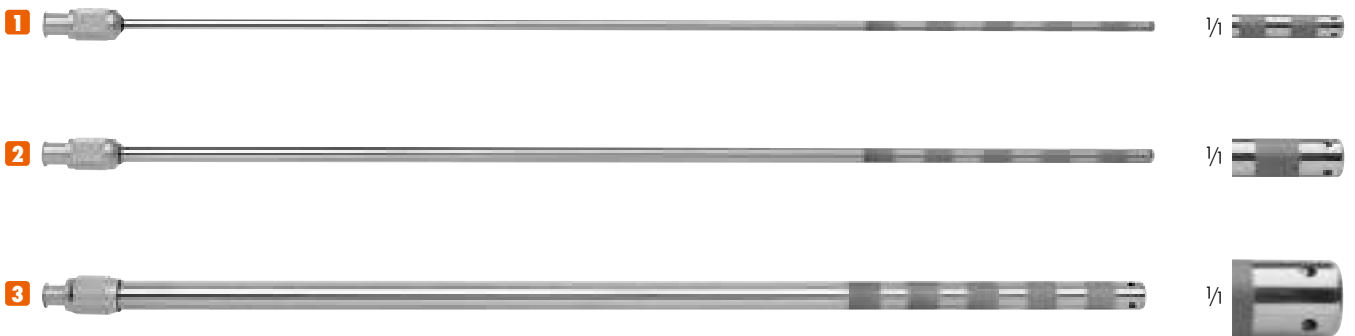
Suction and irrigation tubes, for 300-019-501 and 300-019-601



4 x 4 holes, 340mm working length

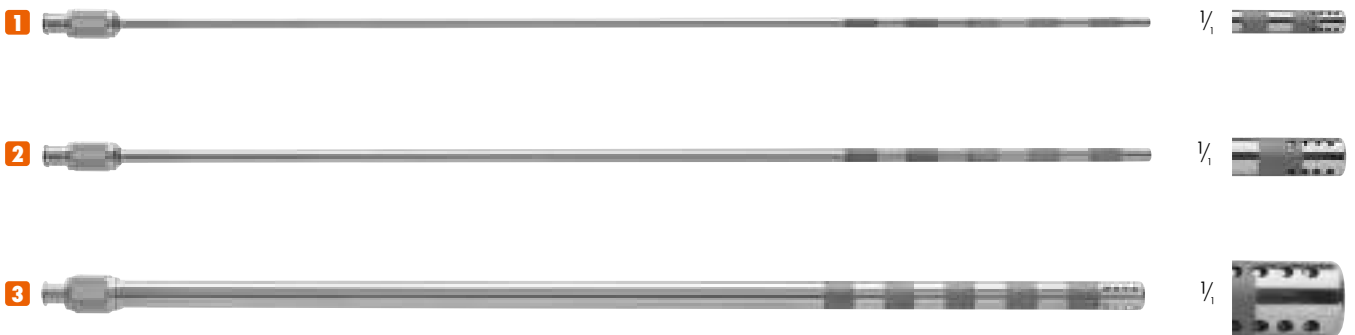
- 1** 300-019-735 \varnothing 3.5mm
- 2** 300-019-705 \varnothing 5.0mm
- 3** 300-019-710 \varnothing 10.0mm

Suction and irrigation tubes, for 300-192-000



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

- 1** 300-192-003 \varnothing 3mm
- 2** 300-192-005* \varnothing 5mm
- 3** 300-192-010* \varnothing 10mm



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

- 1** 300-193-003 \varnothing 3mm
- 2** 300-193-005* \varnothing 5mm
- 3** 300-193-010* \varnothing 10mm



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.



300-167-100 Suction and irrigation handle with 1 trumpet valve and large universal tube adapter. To control suction or irrigation.



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 on the tip, with markings, 340mm working length

- 1** 300-172-003 Ø 3mm
- 2** 300-172-005* Ø 5mm
- 3** 300-172-010* Ø 10mm



4x4 holes, with markings, 340mm working length

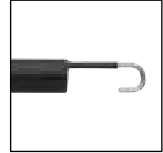
- 1** 300-173-003 Ø 3mm
- 2** 300-173-005* Ø 5mm
- 3** 300-173-010* Ø 10mm



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



SUCTION-IRRIGATION ELECTRODES

with 4mm HF connector, one piston and LuerLock connector, Ø 5mm, 330mm working length



J-hook Electrode 300-163-111



L-hook Electrode 300-163-121



Spatula Electrode 300-163-131



Ballpoint Electrode 300-163-141



HANDLE ELECTRODES

∅ 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



Suction or irrigation tube with LuerLock, 4 x 4 holes and stopcock, Ø 5 mm
 300-006-305 330 mm working length
 300-006-455 450 mm working length



Puncture and injection needle with LuerLock adapter, 5 mm 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

MONOPOLAR CABLES



Generator end



4mm socket



4mm socket, angled



2mm plug



4mm plug



3mm socket



4mm plug



RZ HF Unit Standard 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

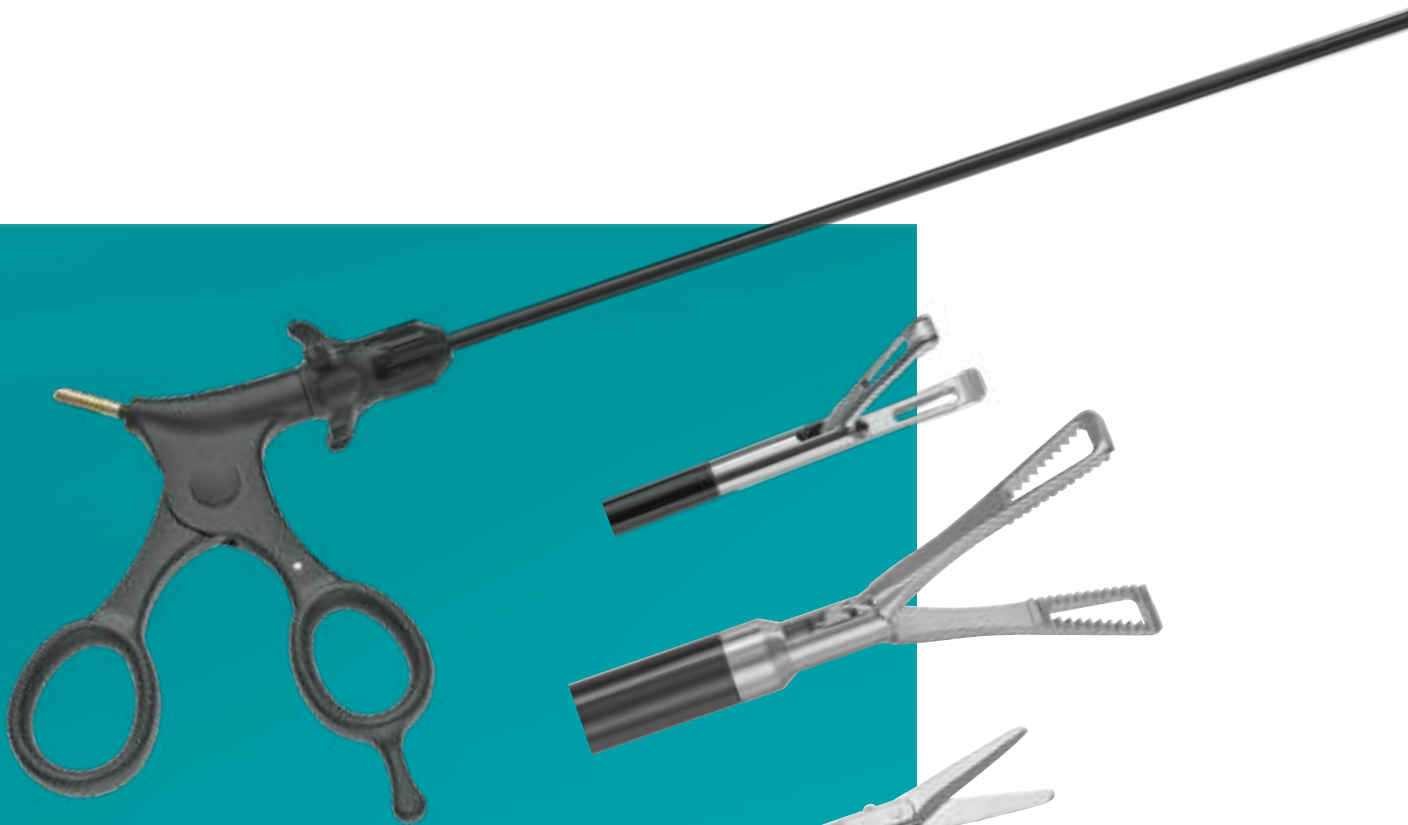


Erbe ACC/ICC

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



Handles



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 5 mm

210 mm 300-550-005
 330 mm 300-660-005*
 450 mm 300-760-005*

- exchangeable color coding locking nuts
- advantages in handling and cleaning
- 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*

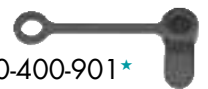


Outer Sheath, insulated, adaptable to all handles, with LuerLock

Ø 5 mm 210 mm 300-550-105
 Ø 10 mm 210 mm 300-550-110
 Ø 5 mm 330 mm 300-660-105
 Ø 10 mm 330 mm 300-660-110
 Ø 5 mm 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 ●
 300-661-010 10mm ●
 300-661-006 5mm ●
 300-661-007 5mm ●
 300-661-008 5mm ●
 300-661-004 5mm ●
 300-661-009 3.5mm* ●



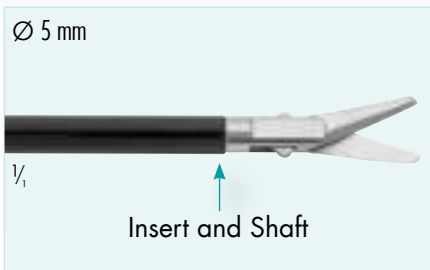
300-661-006OR
 Sealing ring, package of
 10 pieces,
 autoclavable



* for 3.5mm Mini Laparoscopy instruments



3-PIECE MODULAR INSTRUMENT

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



	 complete instrument	 complete instrument
insert only 300-400-067	300-410-067	300-420-067
↑ Insert's Catalogue-No.	↑ Catalogue-No. of the complete Instrument	↑ Catalogue-No. of the complete Instrument

*Each piece can be ordered separately

*Each piece can be ordered separately



Watch the video on
YouTube

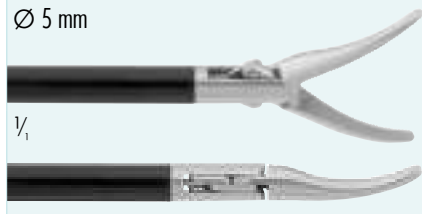


The RZ spherical head locking system for fast assembling / disassembling



Modular 3-piece detachable instrument system consists of:





Ø 5 mm

1/1

Catalogue-No. for insert only

300-400-732*



Complete Instrument
with handle 300-750-001

300-410-732



Complete Instrument
with handle 300-750-101

300-420-732*

KELLY

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



Ø 5 mm

1/1

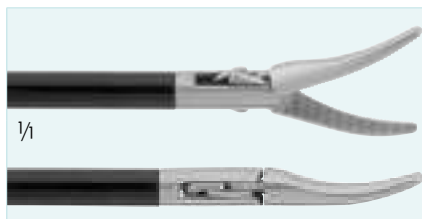
300-400-733

300-410-733

300-420-733

BABY KELLY

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



1/1

300-400-731*

300-410-731

300-420-731*

MARYLAND

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



Ø 5 mm

1/1

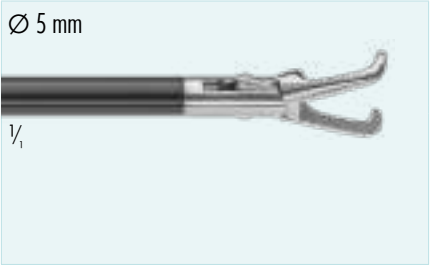
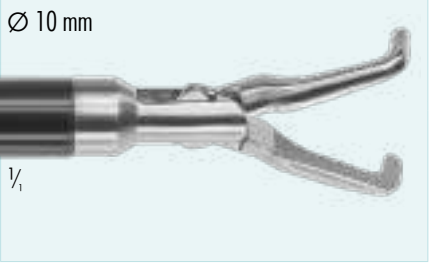
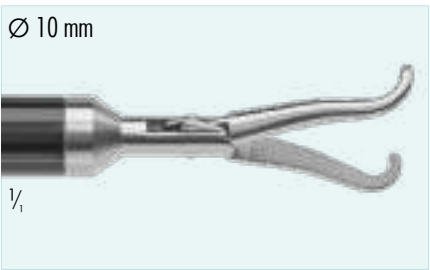
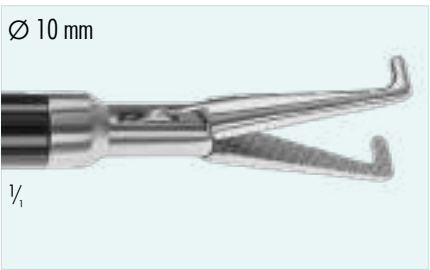

300-400-738*

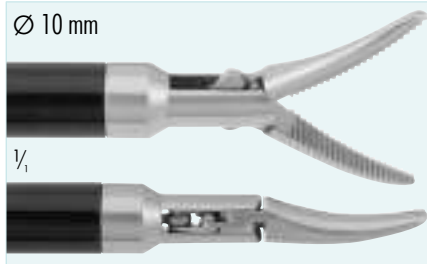
300-410-738

300-420-738*

MIXTER

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

	insert only	Complete Instrument with handle 300-750-001	Complete Instrument with handle 300-750-101
<p>Ø 5 mm</p>  <p>1/1</p> <p>RIGHT ANGLE Dissecting grasping forceps, fine serrated jaws, double action, Ø 5 mm, 330 mm</p>	300-400-735*	300-410-735	300-420-735*
<p>Ø 10 mm</p>  <p>1/1</p> <p>RIGHT ANGLE Dissecting grasping forceps, fine serrated jaws, double action, Ø 10 mm, 330 mm</p>	300-400-736*	300-410-736	300-420-736*
<p>Ø 10 mm</p>  <p>1/1</p> <p>OVERHOLT Dissecting forceps 90° angled jaws, double action, Ø 10 mm, 330 mm</p>	300-400-741	300-410-741	300-420-741
<p>Ø 10 mm</p>  <p>1/1</p> <p>MIXTER Dissecting forceps, 10 mm long tip, 90° angled jaws, double action, Ø 10 mm, 330 mm</p>	300-400-740	300-410-740	300-420-740
<p>Ø 5 mm</p>  <p>1/1</p> <p>PETELIN Dissecting forceps, single action jaws, angled 60° left. deep serrations, Ø 5 mm, 330 mm</p>	300-400-027	300-410-027	300-420-027



insert only

300-400-730



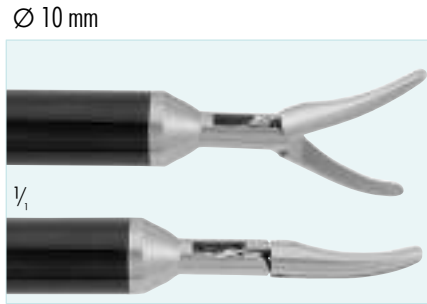
Complete Instrument
with handle 300-750-001
300-410-730



Complete Instrument
with handle 300-750-101
300-420-730

MARYLAND

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



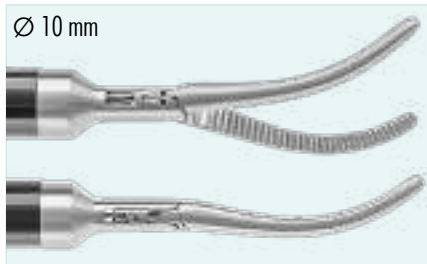
300-400-734

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, ∅ 5 mm, 330 mm



300-400-109

300-410-109

300-420-109

GRASPING FORCEPS

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



300-400-251*

300-410-251

300-420-251*

BABCOCK

Grasping forceps, single action, ∅ 5 mm, 330 mm



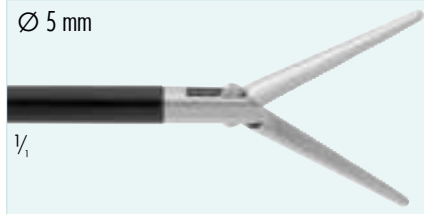
300-400-023

300-410-023

300-420-023

JOHANS

Grasping forceps, fenestrated jaws, serrated, 12mm, single action, ∅ 5 mm, 330 mm



insert only
300-400-016*

 Complete Instrument with handle 300-750-001
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 5 mm, 330 mm



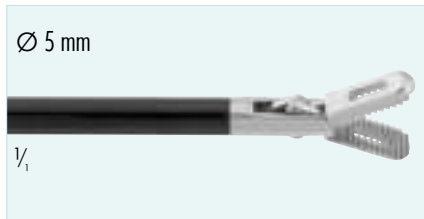
300-400-003

300-410-003

300-420-003

NEEDLE NOSE

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



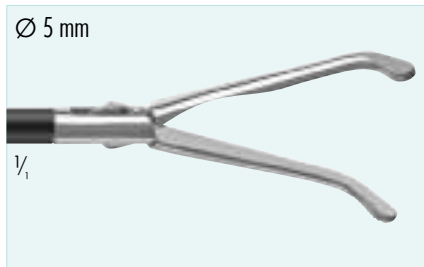
300-400-040

300-410-040

300-420-040

FENESTRATED BULLNOSE

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



300-400-610

300-430-610

300-440-610

PYLORUS


Spreader, double action, Ø 5 mm, 330 mm




insert only
300-400-025*

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

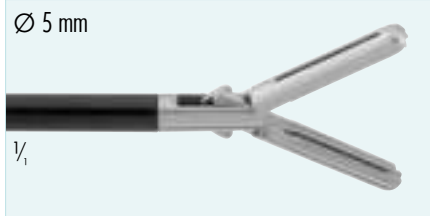
 Complete Instrument with handle 300-750-101
300-420-025*

 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 5 mm, 330 mm



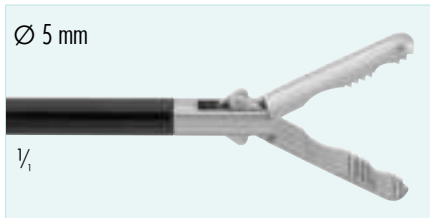
insert only
300-400-012*

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 5 mm, 330 mm



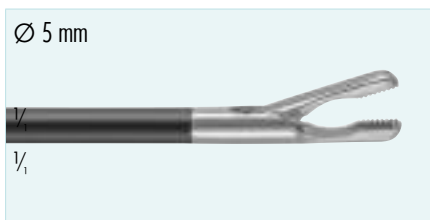
300-400-015*

300-430-015

300-440-015*

FUNDUS

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



300-400-005

300-430-005

300-440-005

BULLDOG

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






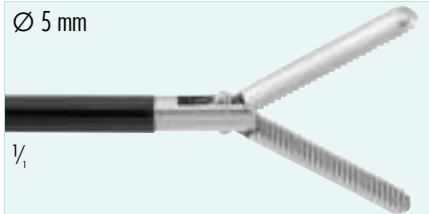

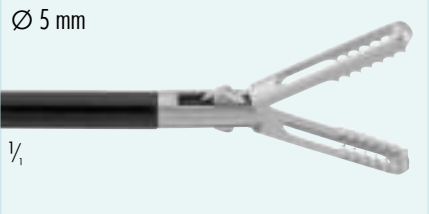
300-400-021

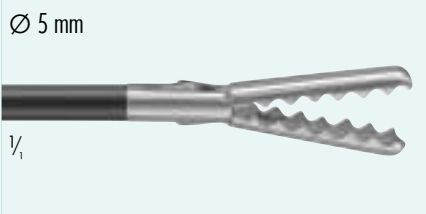

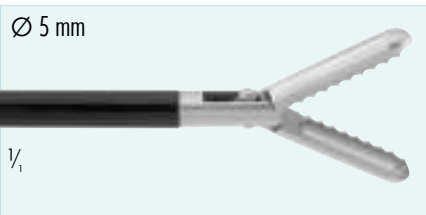
300-430-021

300-440-021

DOLPHIN

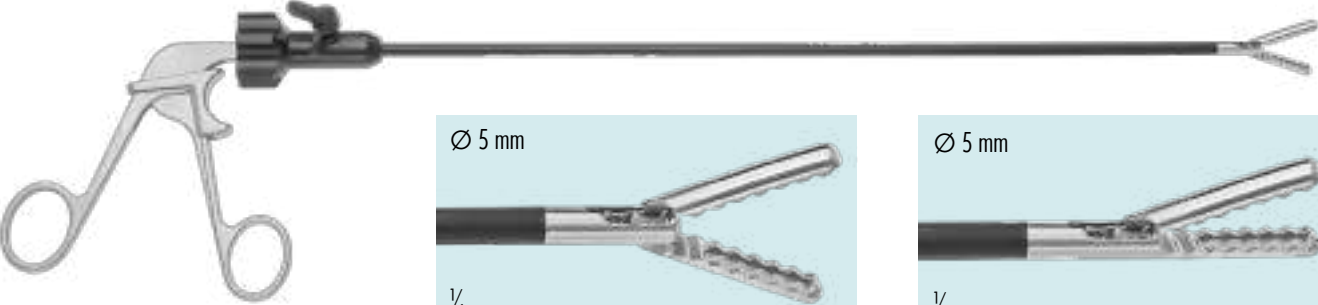
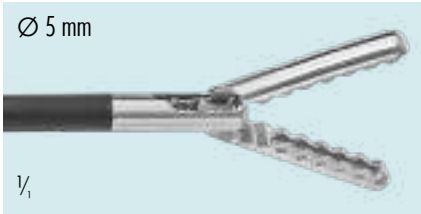
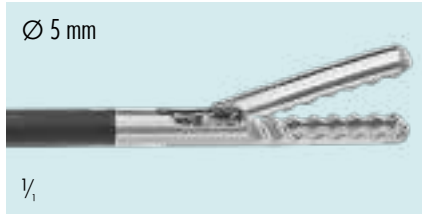
Grasping and dissecting forceps with fine serrated tapered jaws, double action, Ø 5 mm, 330 mm

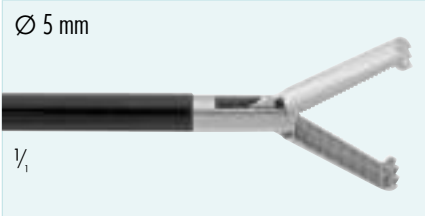


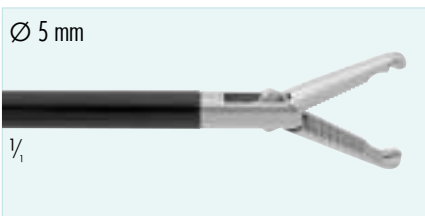

	insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103	Complete Instrument with handle 300-750-105
 <p>Ø 5 mm 1/1</p>	300-400-001*	300-430-001	300-440-001*	300-460-001*
BULLNOSE Grasping forceps, heavy pattern, standard serrated jaws, double action, Ø 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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, 15 mm long jaws, double action, Ø 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	300-400-002	300-430-002	300-440-002	300-460-002
XL BULLNOSE Grasping forceps, standard serrated jaws, double action, Ø 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	300-400-017*	300-430-017	300-440-017*	300-460-017*
GRIPPER #1 Grasping forceps with coarse-serrated, fenestrated jaws, double action, Ø 5 mm, 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
 <p>Ø 5 mm 1/1</p> <p>PRESTIGE Atraumatic grasping forceps with long, wave shaped jaws and deep cup with lateral serration, double action, Ø 5 mm, 330 mm</p>	300-400-013*	300-430-013	300-440-013*	300-460-013*
 <p>Ø 5 mm 1/1</p> <p>PRESTIGE Grasping Forceps, wave-shaped lateral serration, and deep cup, single action, atraumatic, Ø 5 mm, 330 mm</p>	300-400-033*	300-430-033	300-440-033*	300-460-033*
 <p>Ø 5 mm 1/1</p> <p>ALLIGATOR Grasping forceps with fine sharp lateral teeth and deep cup, double action, Ø 5 mm, 330 mm</p>	300-400-053	300-430-053	300-440-053	300-460-053

NON-DETACHABLE PRESTIGE FORCEPS

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

	 <p>Ø 5 mm 1/1</p> <p>300-111-013 Double action jaws</p>	 <p>Ø 5 mm 1/1</p> <p>300-111-033 Single action jaws</p>
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	insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103	Complete Instrument with handle 300-750-105
 <p>Ø 5 mm 1/1</p>	300-400-004*	300-430-004	300-440-004*	300-460-004*
KOCHER Grasping forceps with aggressive 3 x 4 teeth and serrated inner jaws, double action, Ø 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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 5 mm, 330 mm				
 <p>Ø 5 mm 1/1</p>	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 5 mm, 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 5 mm, 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 5 mm, 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 5 mm, 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 5 mm, 330 mm



300-400-715

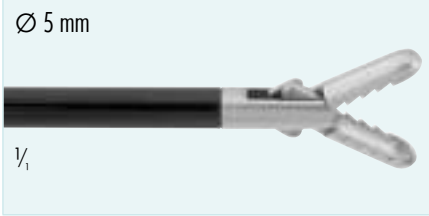
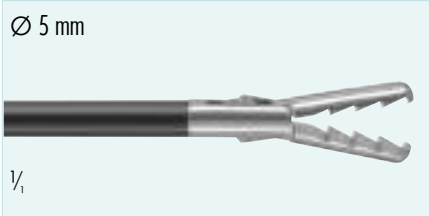
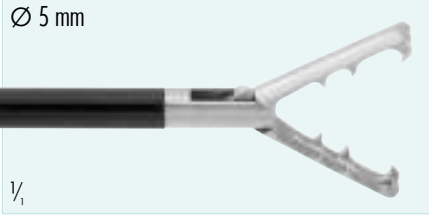
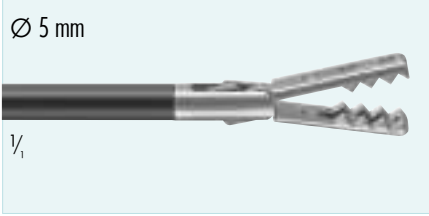

300-430-715









300-440-715

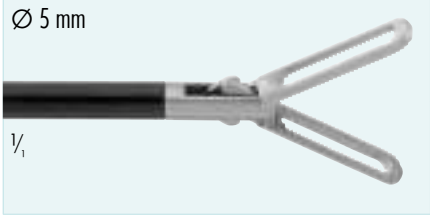
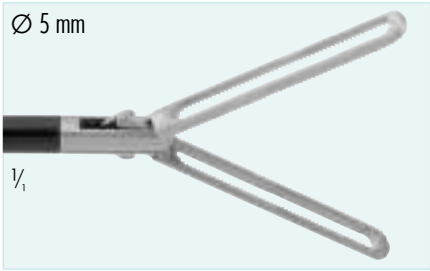
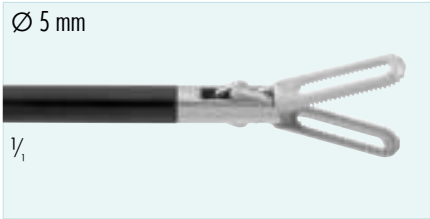
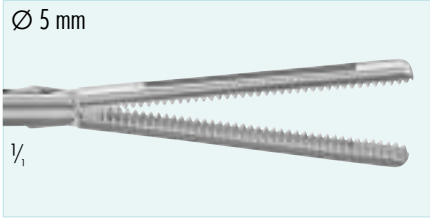

300-460-715




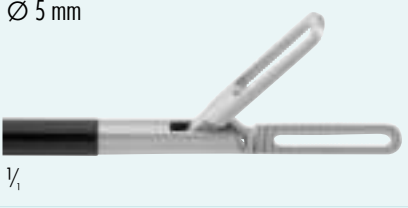
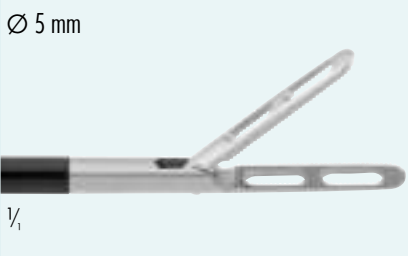
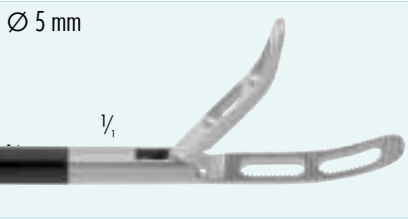
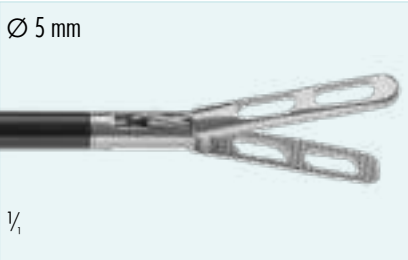

ST. ANDREWS




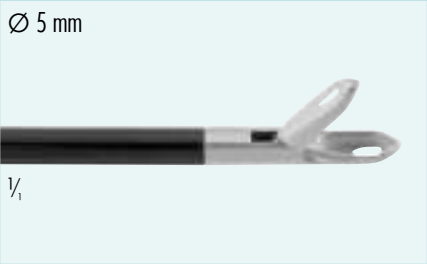

Grasping forceps, with sharp 2 x 4 teeth and wave shaped inner jaws, double action, Ø 5 mm, 330 mm

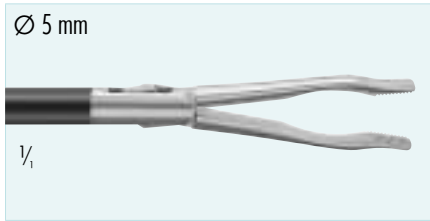
	insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103	Complete Instrument with handle 300-750-105
 <p>Ø 5 mm 1/1</p>	300-400-051	300-430-051	300-440-051	300-460-051
<p>ALLIGATOR SPOON</p> <p>Grasping forceps with cupped jaws, aggressive retrograde lateral teeth, double action, Ø 5 mm, 330 mm</p>				
 <p>Ø 5 mm 1/1</p>	300-400-010*	300-430-010	300-440-010*	300-460-010*
<p>ALLIGATOR</p> <p>Grasping forceps with strong retrograde serrations, double action, Ø 5 mm, 330 mm</p>				
 <p>Ø 5 mm 1/1</p>	300-400-048	300-430-048	300-440-048	300-460-048
<p>SHARK</p> <p>Grasping forceps with very sharp and aggressive lateral retrograde teeth, double action, Ø 5 mm, 330 mm</p>				
 <p>Ø 5 mm 1/1</p>	300-400-018	300-430-018	300-440-018	300-460-018
<p>CLINCH</p> <p>Grasping forceps with strong serration and fenestrated jaws, double action, Ø 5 mm, 330 mm</p>				
 <p>Ø 5 mm 1/1</p>	300-400-049	300-430-049	300-440-049	300-460-049
<p>ENDOCLINCH</p> <p>Grasping forceps, wave-shaped, fenestrated, double action, Ø 5 mm, 330 mm</p>				

 <p>Ø 5 mm 1/1</p>	insert only	 <p>Complete Instrument with handle 300-750-003</p>	 <p>Complete Instrument with handle 300-750-103</p>
	300-400-042	300-410-042	300-420-042
<p>PIN GRASPER Grasping Forceps with fine 1x2 teeth, smooth inner jaws, double action, Ø 5 mm, 330 mm</p>			
 <p>Ø 5 mm 1/1</p>	300-400-045	300-410-045	300-420-045
<p>Ovary Grasping forceps with fine serrated, wave shaped jaws, double action, Ø 5 mm, 330 mm</p>			
 <p>Ø 5 mm 1/1</p>	300-400-046	300-410-046	300-420-046
<p>TUBAL Dissecting and grasping forceps with smooth jaws, double action, Ø 5 mm, 330 mm</p>			
 <p>Ø 5 mm 1/1</p>	300-400-024	300-410-024	300-420-024
<p>DUCKBILL Grasping and dissecting forceps with flat jaws, fine serrations, double action, Ø 5 mm, 330 mm</p>			
 <p>Ø 5 mm 1/1</p>	300-400-032	300-410-032	300-420-032
<p>PETITE Micro Grasping Forceps, double action, fenestrated, fine jaw, fine serration</p>			
 <p>Ø 5 mm 1/1</p>	300-400-026	300-410-026	300-420-026
<p>PETELIN Grasping and Dissecting Forceps with serrated jaws, curved left, single action, Ø 5 mm, 330 mm</p>			

	insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103	Complete Instrument with handle 300-750-105
 <p>Ø 5 mm 1/1</p> <p>JOHANS Grasping forceps with 20 mm fenestrated jaws, double action, Ø 5 mm, 330 mm</p>	300-400-289*	300-430-289	300-440-289*	300-470-289*
 <p>Ø 5 mm 1/1</p> <p>LONG JOHANS Grasping forceps with 40 mm fenestrated jaws, double action, Ø 5 mm, 330 mm</p>	300-400-291*	300-430-291	300-440-291*	300-470-291*
 <p>Ø 5 mm 1/1</p> <p>DORSEY Grasping forceps with 12 mm fenestrated jaws, double action, Ø 5 mm, 330 mm</p>	300-400-285*	300-430-285	300-440-285*	300-470-285*
 <p>Ø 5 mm 1/1</p> <p>LONG DORSEY Grasping forceps with 45 mm fenestrated jaws, double action, Ø 5 mm, 330 mm</p>	300-400-287	300-430-287	300-440-287	300-470-287
 <p>Ø 5 mm 1/1</p> <p>LONG JOHANS Grasping forceps with 40 mm fenestrated jaws, single action, Ø 5 mm, 330 mm</p>	300-400-288	300-430-288	300-440-288	300-470-288

					
	insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103	Complete Instrument with handle 300-750-105	
		300-400-284*	300-430-284	300-440-284*	300-470-284*
	∅ 5 mm 1/1	JOHANS Grasping forceps with 20 mm fenestrated jaws, single action, ∅ 5 mm, 330 mm			
		300-400-310*	300-430-310	300-440-310*	300-470-310*
		300-400-312**	300-430-312*	300-440-312**	300-470-312**
	∅ 5 mm 1/1	MARQUES Grasping forceps with 2 fenestrations, single action, ∅ 5 mm, 330 mm * with 3 fenestrations			
		300-400-314*	300-430-314	300-440-314*	300-470-314*
	∅ 5 mm 1/1	MARQUES Grasping forceps with 2 fenestrations, bent up, single action, ∅ 5 mm, 330 mm			
		300-400-311	300-430-311	300-440-311	300-470-311
		300-400-313*	300-430-313*	300-440-313*	300-470-313*
	∅ 5 mm 1/1	MARQUES Grasping forceps with 2 fenestrations, double action, ∅ 5 mm, 330 mm * with 3 fenestrations			
		300-400-052*	300-430-052	300-440-052*	300-470-052*
	∅ 5 mm 1/1	GRASPER Atraumatic Grasping forceps with fenestrated jaws, fine serrations, double action, ∅ 5 mm, 330 mm			

	insert only	Complete Instrument with handle 300-750-001	Complete Instrument with handle 300-750-101
<p>Ø 5 mm</p>  <p>1/1</p> <p>Biopsy forceps with 2 pinholes, sharp oval cups, double action, Ø 5 mm, 330 mm</p>	300-400-080*	300-410-080	300-420-080*
<p>Ø 5 mm</p>  <p>1/1</p> <p>Biopsy forceps with sharp oval cups, double action, Ø 5 mm, 330 mm</p>	300-400-082	300-410-082	300-420-082
<p>Ø 5 mm</p>  <p>1/1</p> <p>Biopsy forceps with 2 pins, sharp oval cups, single action, Ø 5 mm, 330 mm</p>	300-400-521	300-410-521	300-420-521
<p>Ø 5 mm</p>  <p>1/1</p> <p>BLAKESLEY Biopsy forceps with sharp cups, single action, Ø 5 mm, 330 mm</p>	300-400-086	300-410-086	300-420-086
<p>Ø 5 mm</p>  <p>1/1</p> <p>Hook punch forceps, thru-cutting, single action, Ø 5 mm, 330 mm</p>	300-400-100	300-410-100	300-420-100



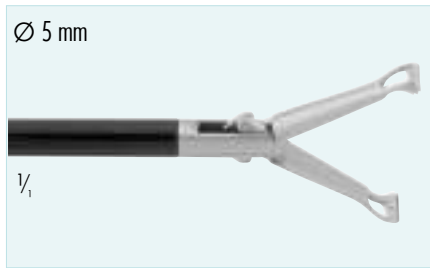
insert only

300-400-250	300-430-250	300-440-250	300-470-250
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BABCOCK PADDLE

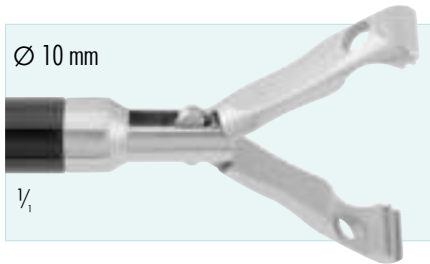
Grasping forceps with flat paddles and fine serration for atraumatic grip of delicate tissue, double action, Ø 5 mm, 330 mm



300-400-252*	300-430-252	300-440-252*	300-470-252*
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BABCOCK

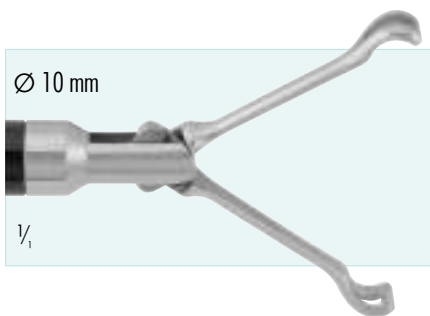
Traditional style Babcock grasping forceps, rounded jaws with fine serrations, double action, Ø 5 mm, 330 mm



300-400-079	300-430-079	300-440-079	300-470-079
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DEBAKEY BABCOCK

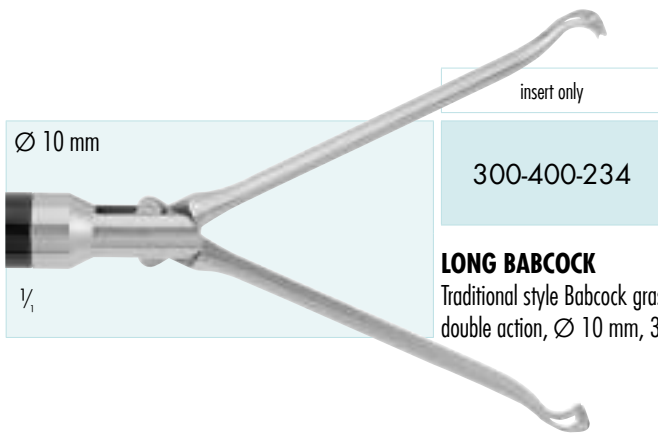
Traditional style Babcock grasping forceps, rounded jaws with atraumatic DeBaKey serration, double action, Ø 10 mm, 330 mm



300-400-078*	300-430-078	300-440-078*	300-470-078*
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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

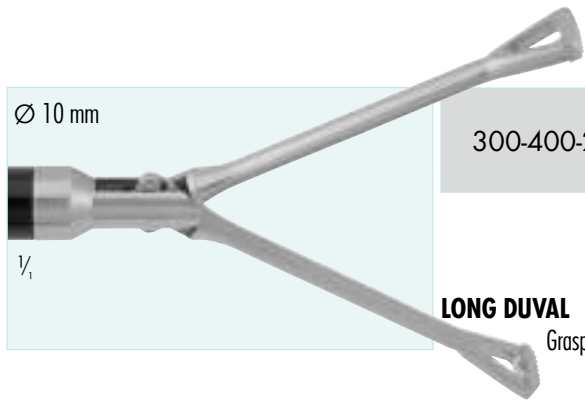
Complete Instrument
with handle 300-750-003
300-430-234

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, ∅ 10 mm, 330 mm



300-400-280

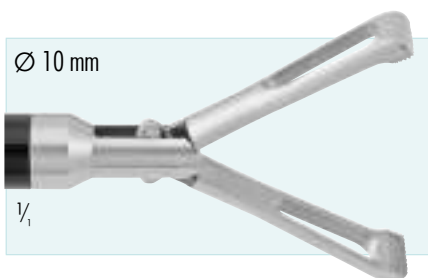
300-430-280

300-440-280

300-470-280

LONG DUVAL

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



300-400-084

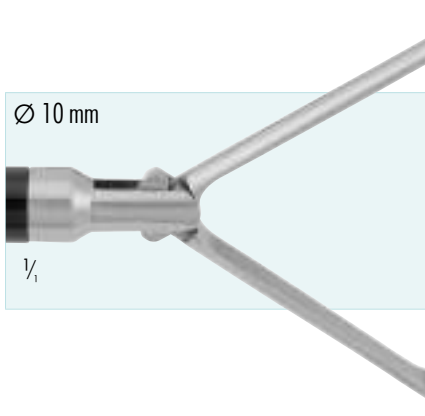



300-430-084

300-440-084

300-470-084

COLLIN-DUVAL

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

 <p>Ø 10 mm</p> <p>1/1</p>	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

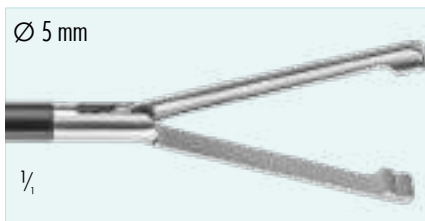
ALLIS

Traditional Allis grasping forceps, with fine serrations on the tip, double action, Ø 10 mm, 330 mm

 <p>Ø 5 mm</p> <p>1/1</p>	300-400-097	300-430-097	300-440-097	300-470-097
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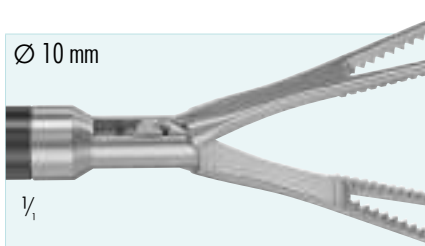
SLIM ALLIS

Grasping forceps with delicate jaws and with fine serrations on the tip, double action, Ø 5 mm, 330 mm

 <p>Ø 5 mm</p> <p>1/1</p>	300-400-197	300-430-197	300-440-197	300-470-197
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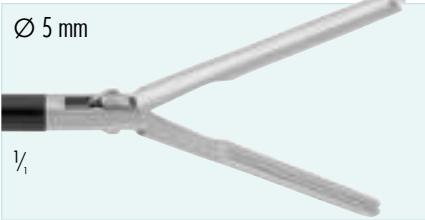



ALLIS

Bowell grasping forceps, 4 mm x 35 mm, double action, Ø 5 mm, 330 mm

 <p>Ø 10 mm</p> <p>1/1</p>	300-400-085*	300-430-085	300-440-085*	300-470-085*
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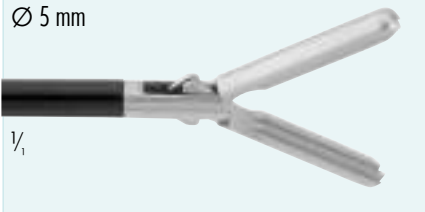
COLLIN


Grasping forceps, V-shaped tip with deep serrations for firm grip, double action, Ø 10 mm, 330 mm

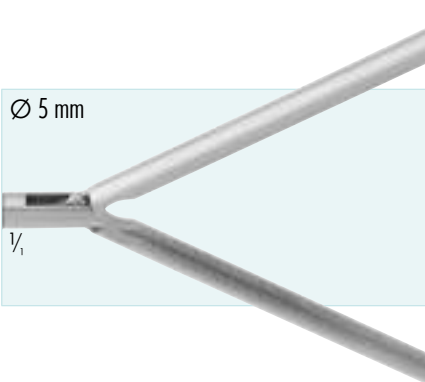
 <p>Ø 5 mm 1/1</p>	insert only	 <p>Complete Instrument with handle 300-750-003</p>	 <p>Complete Instrument with handle 300-750-103</p>	 <p>Complete Instrument with handle 300-750-105</p>
	300-400-243	300-430-243	300-440-243	300-460-243


DEBAKEY

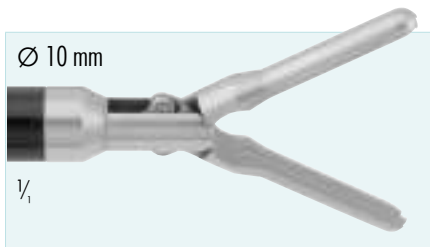
Pick-up forceps with fine 22 mm long atraumatic serrations, 38 mm jaws, double action, Ø 5 mm, 330 mm

 <p>Ø 5 mm 1/1</p>	300-400-244	300-430-244	300-440-244	300-460-244
	<p>DEBAKEY Atraumatic grasping forceps, fine atraumatic serrations, double action, 25 mm jaws, Ø 5 mm, 330 mm</p>			

 <p>Ø 5 mm 1/1</p>	300-400-245	300-430-245	300-440-245	300-460-245
	<p>DEBAKEY Atraumatic grasping forceps, fine atraumatic serrations, double action, 40 mm jaws, Ø 5 mm, 330 mm</p>			

 <p>Ø 5 mm 1/1</p>	300-400-246	300-430-246	300-440-246	300-460-246
	<p>DEBAKEY Atraumatic grasping forceps, fine atraumatic serrations, double action, 60 mm jaws, Ø 5 mm, 330 mm</p>			

 <p>Ø 10 mm 1/1</p>	300-400-275	300-430-275	300-440-275	300-460-275
	<p>KOCHER Bowell forceps, 40 mm long longitudinal serrated jaws, Ø 10 mm, 330 mm</p>			



insert only
300-400-263

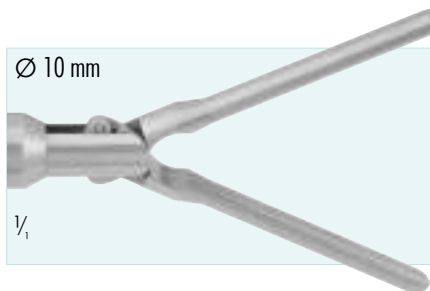
Complete Instrument with handle 300-750-003
300-430-263

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, 25 mm jaws, Ø 10 mm, 330 mm



300-400-264

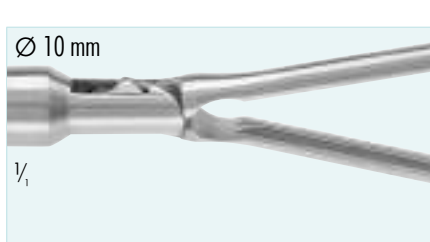
300-430-264

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

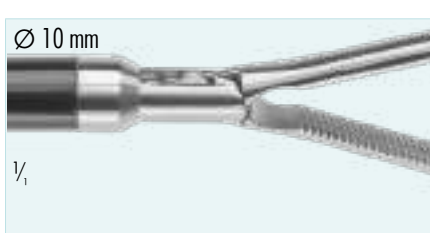
300-430-266

300-440-266

300-460-266

DEBAKEY

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



300-400-274

300-430-274

300-440-274

300-460-274

GLASSMAN

Grasping forceps, atraumatic serrations, double action, Ø 10 mm, 330 mm



300-400-276

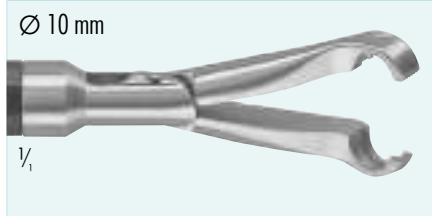
300-430-276

300-440-276

300-460-276

GLASSMAN

Grasping forceps with oblique, parallel serrations, double action, 60 mm jaws, Ø 10 mm, 330 mm



insert only

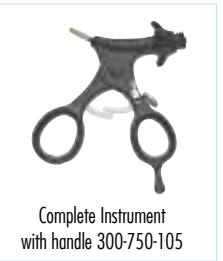
300-400-295



300-430-295

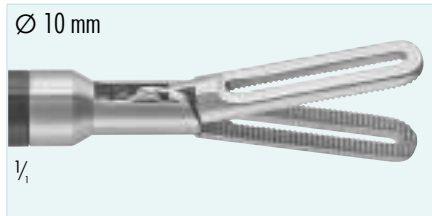


300-440-295



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



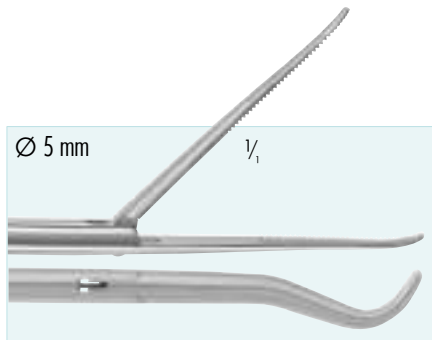
300-400-286

300-430-286

300-440-286

300-460-286

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



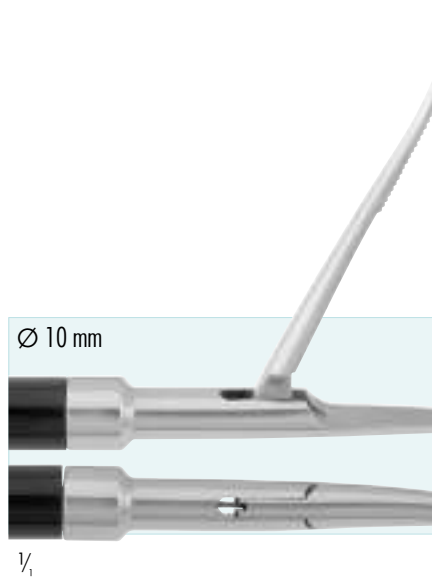
300-400-030

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 5 mm, 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*

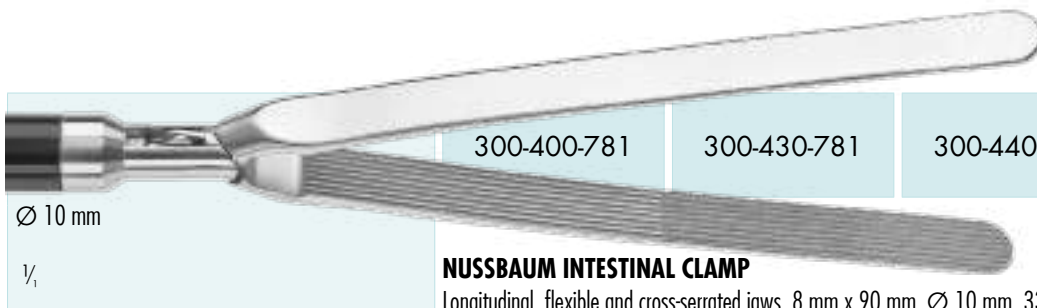
Complete Instrument
with handle 300-750-003
300-430-720

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

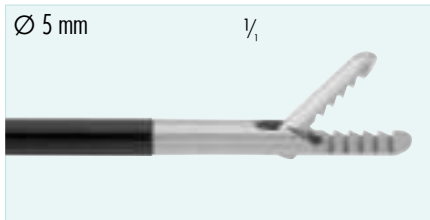
300-430-781

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 5 mm, 330 mm



300-400-753*

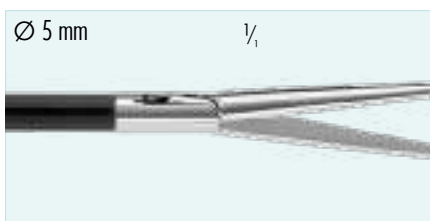
300-430-753

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 5 mm, 330 mm



insert only

Ø 5 mm

300-400-200*

300-490-200

1/1

SATINSKY

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

Ø 5 mm

300-400-202

300-490-202

1/1

SATINSKY

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

Ø 5 mm



300-400-206


300-490-206

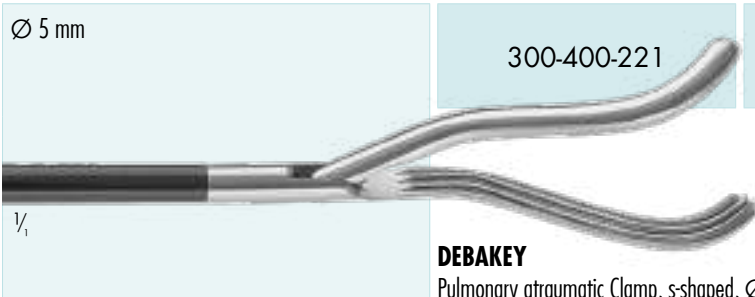
1/1

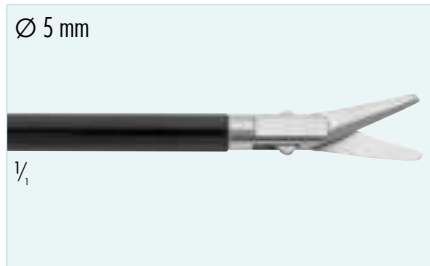
CRAFOORD

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

 <p>Ø 5 mm</p> <p>1/1</p>	<p>insert only</p> <p>300-400-204</p>	 <p>Complete Instrument with handle 300-750-015</p> <p>300-490-204</p>
	<p>CRAFOORD Thorax clamp, 35 mm atraumatic jaws, Ø 5 mm, 330 mm</p>	

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

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



insert only

300-400-067*



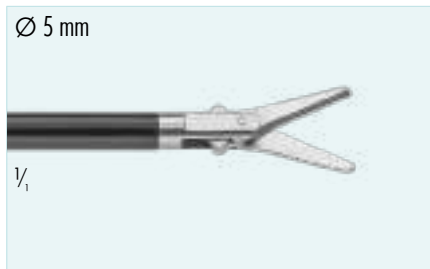
300-410-067



300-420-067*

ORIGINAL METZENBAUM

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



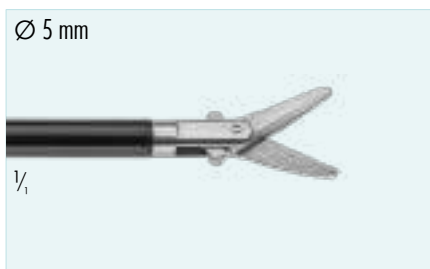
300-400-069*

300-410-069

300-420-069*

METZENBAUM

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



300-400-172

300-410-172

300-420-172

METZENBAUM

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



300-400-168

300-410-168

300-420-168

METZENBAUM

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



insert only

300-400-072*



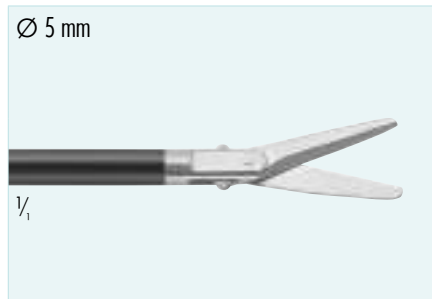
300-410-072



300-420-072*

METZENBAUM

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



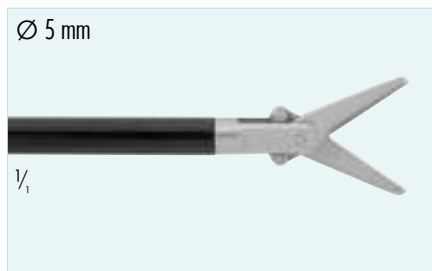
300-400-070*

300-410-070

300-420-070*

METZENBAUM

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



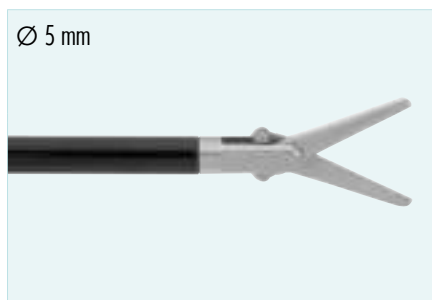
300-400-068*

300-410-068

300-420-068*

METZENBAUM

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



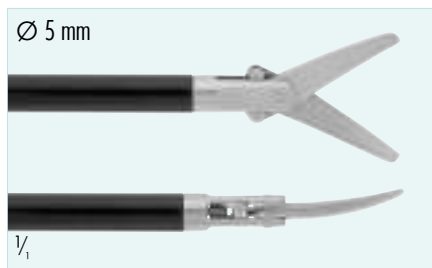
300-400-071

300-410-071

300-420-071

METZENBAUM

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



300-400-169

300-410-169

300-420-169

METZENBAUM

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



insert only

300-400-170



300-410-170



300-420-170

TC METZENBAUM

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



300-400-171

300-410-171

300-420-171

TC METZENBAUM

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



300-400-180

300-410-180

300-420-180

HINGELESS TC METZENBAUM

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



300-400-181

300-410-181

300-420-181

HINGELESS TC METZENBAUM

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



insert only

300-400-072CC



300-410-072CC



300-420-072CC

METZENBAUM CERA CUT®

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



300-400-170CC

300-410-170CC

300-420-170CC

METZENBAUM TC CERA CUT®

TC Scissors, medium blades (16 mm), curved, double action, Ø 5 mm, 330 mm



300-400-173

300-410-173

300-420-173

METZENBAUM TC

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



300-400-065

300-410-064

300-420-064

METZENBAUM

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



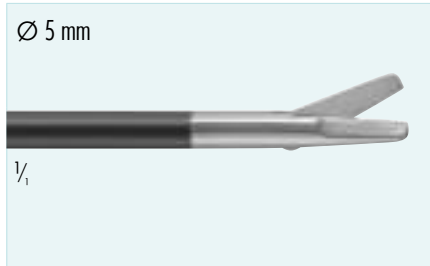
300-400-056

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 5 mm, 330 mm



300-400-060*

300-410-060

300-420-060*

HOOK

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



300-400-062

300-410-062

300-420-062

HOOK

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



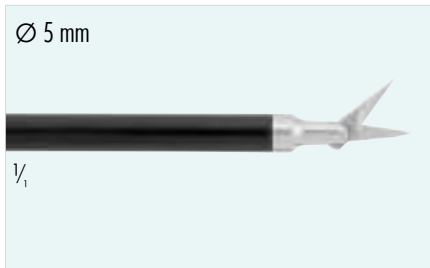
300-400-060CC

300-410-060CC

300-420-060CC

HOOK CERA CUT®

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



insert only

300-400-570



300-410-570



300-420-570

MICRO

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



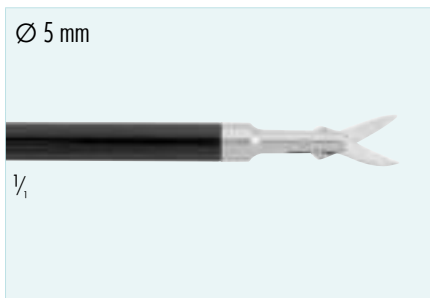
300-400-571

300-410-571

300-420-571

MICRO

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



300-400-572

300-410-572

300-420-572

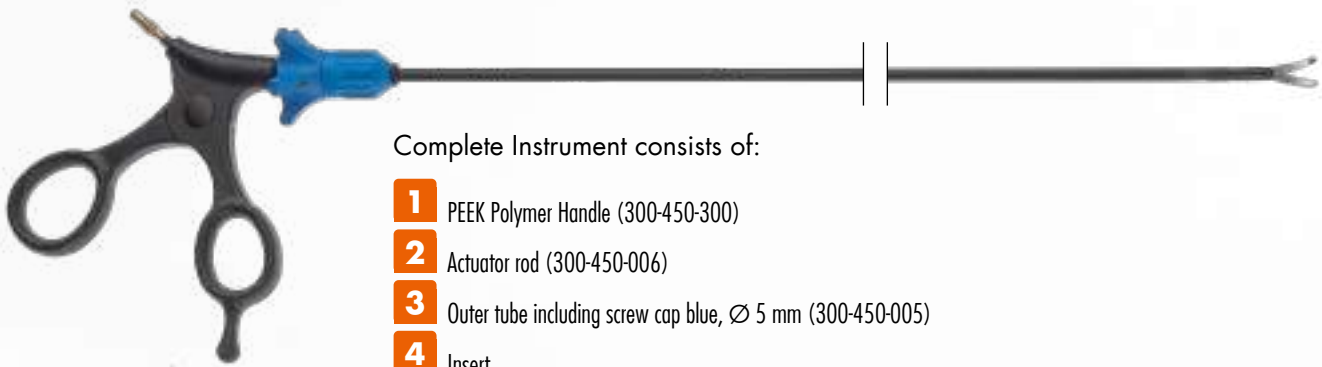
MICRO

Scissors with curved sharp blades, double action, Ø 5 mm, 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 5 mm (300-450-005)
- 4** Insert

1 PEEK POLYMER HANDLES



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



2

3



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



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



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



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



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 5 mm, 330 mm working length, with ratchet and LuerLock, double action jaws



300-011-500 2-way stop cock with 2 valves and LuerLock connector for use
 with flexible tube 300-011-501 for contrast solution



300-011-501 Flexible tube with 2 LuerLock connectors

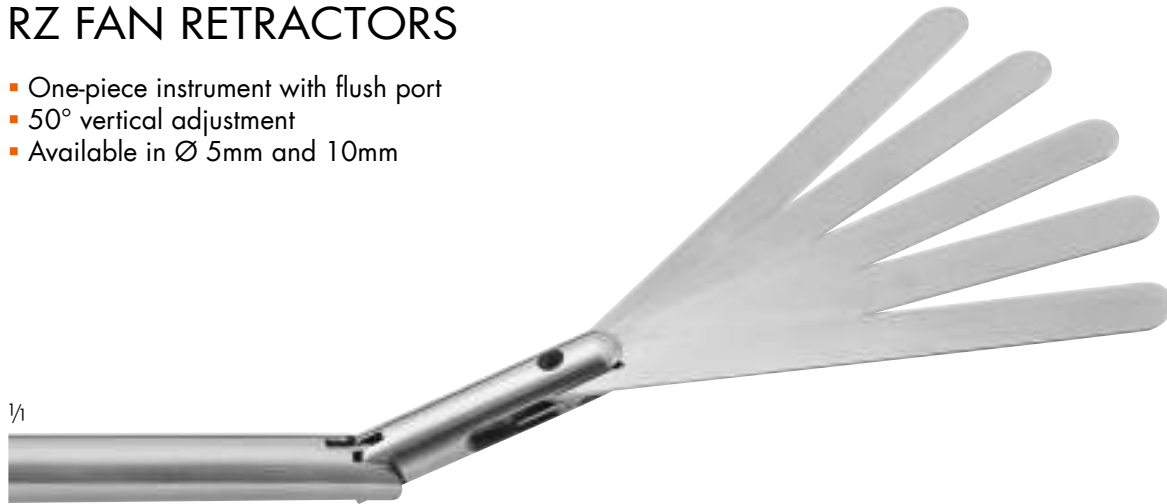


300-193-330 Guide tube for Cholangiography catheter,
 Ø 5 mm, 330 mm working length

1/1

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* 5 mm, with 3 prongs



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

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

300-099-100 5 mm, 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



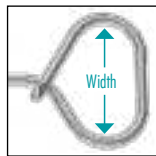
Carbon handle with overload protection




Atraumatic segments, jamming is prevented




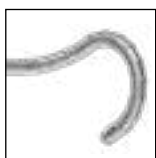
The nitinol wire straightens the working end to allow easy introduction and extraction




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



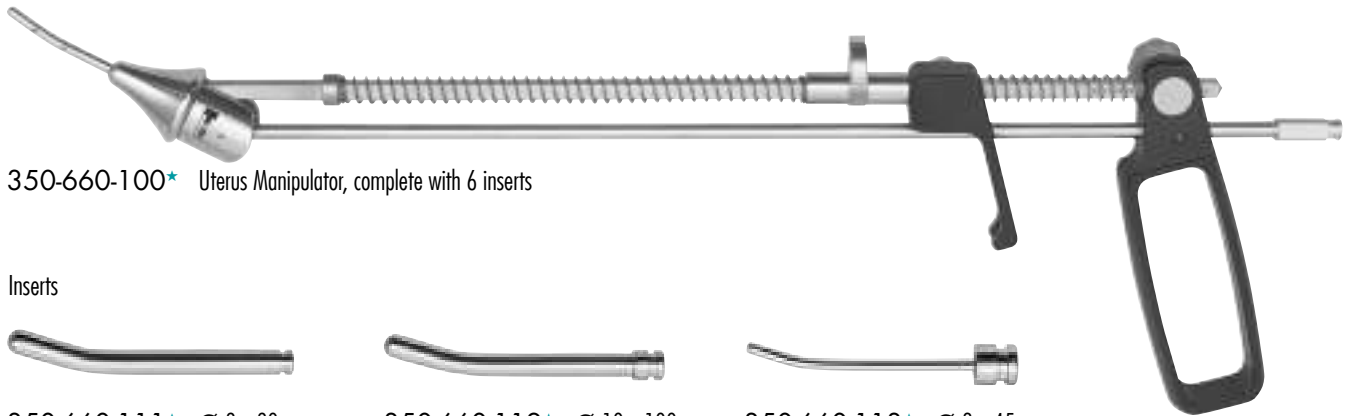
BAND-PASSER

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 45 mm



350-660-114* Ø 3 x 55 mm



350-660-115* Ø 3.2 x 35 mm



350-660-116* Ø 3.2 x 45 mm



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

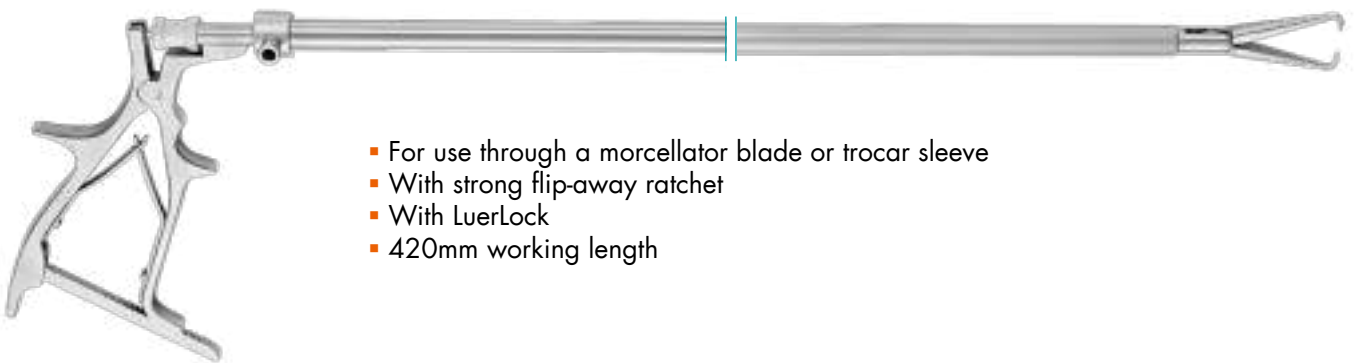
300-042-005 Ø 5mm, 420mm working length

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

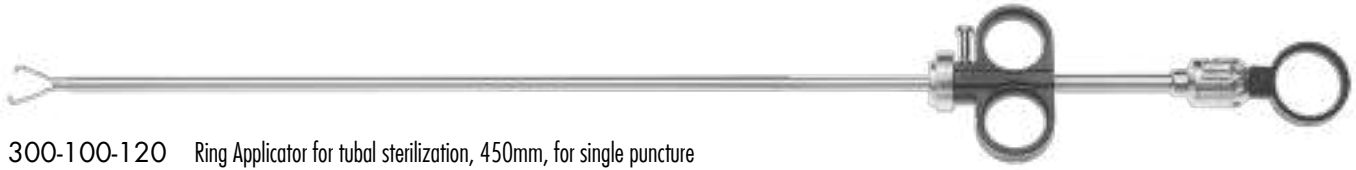


300-110-715
 Tenaculum Forceps, Ø5mm



300-110-712
 Claw Forceps, Ø5mm

RZ RING APPLICATORS



300-100-120 Ring Applicator for tubal sterilization, 450mm, for single puncture for use with Operating Laparoscopes with \varnothing 6mm instrument channels (300-099-006 and 300-099-106).
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 \varnothing 7.0mm

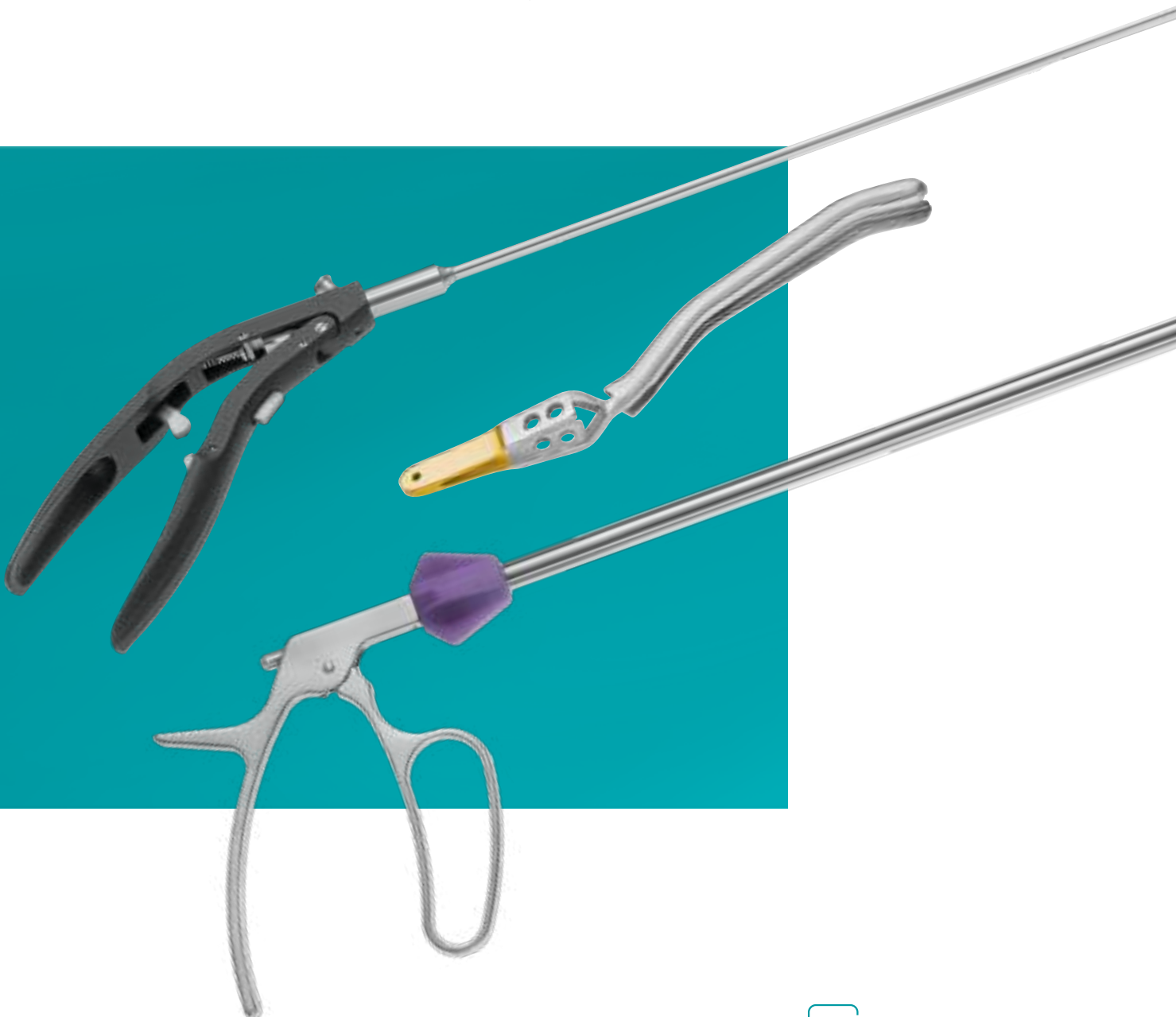


300-100-125 Cone for Ring Applicator



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

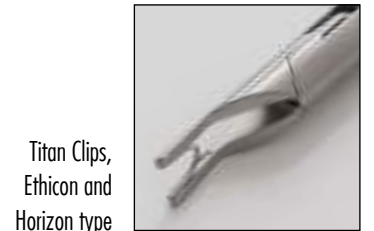
Size / color code	detachable, 330mm	A insert only, 330mm	B shaft only
S (blue) ■	300-810-001	300-810-101	300-830-010
M (white) □	300-810-002	300-810-102	300-830-010
M/L (green) ■	300-810-004*	300-810-104	300-830-010
L (yellow) ■	300-810-006*	300-810-106	300-830-010





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

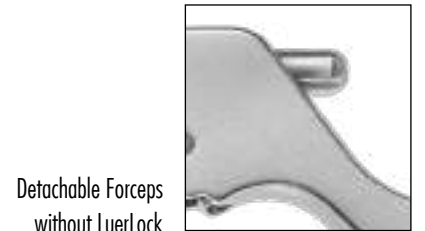
Size / color code	non detachable, 330mm	non detachable, 450mm
S (blue) ■	300-800-001	300-800-401
M (white) □	300-800-002	300-800-402
M/L (green) ■	300-800-004*	300-800-404
L (yellow) ■	300-800-006*	300-800-406







TYPE HORIZON, TITANIUM







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



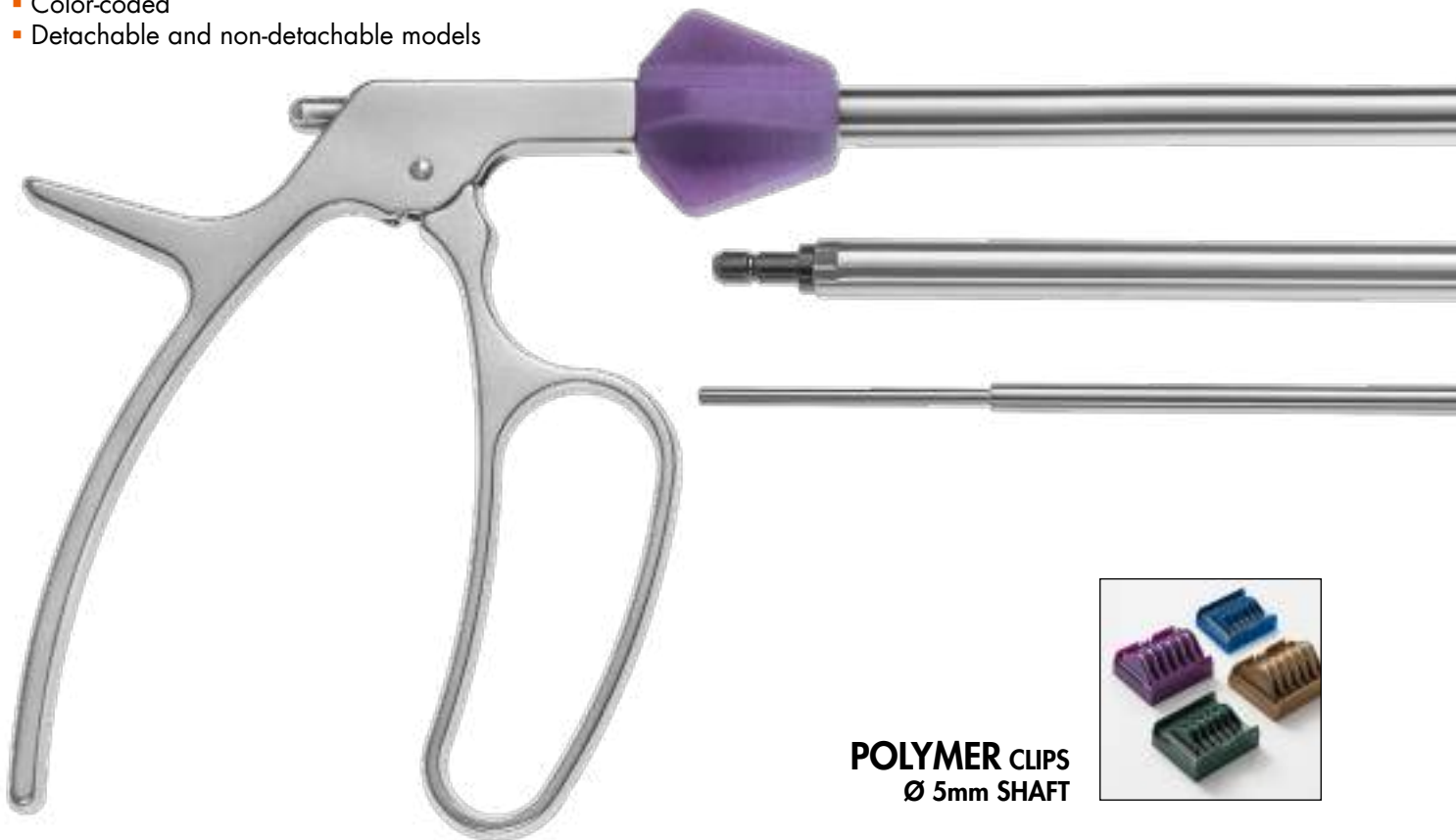
Size / color code	detachable, 450mm	A insert only, 450mm	B shaft only
S (yellow) 	300-810-411	300-810-511	300-830-410
M (blue) 	300-810-412	300-810-512	300-830-410
M/L (green) 	300-810-414	300-810-514	300-830-410
L (orange) 	300-810-416	300-810-516	300-830-410



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



◀ B shaft only
A insert only

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



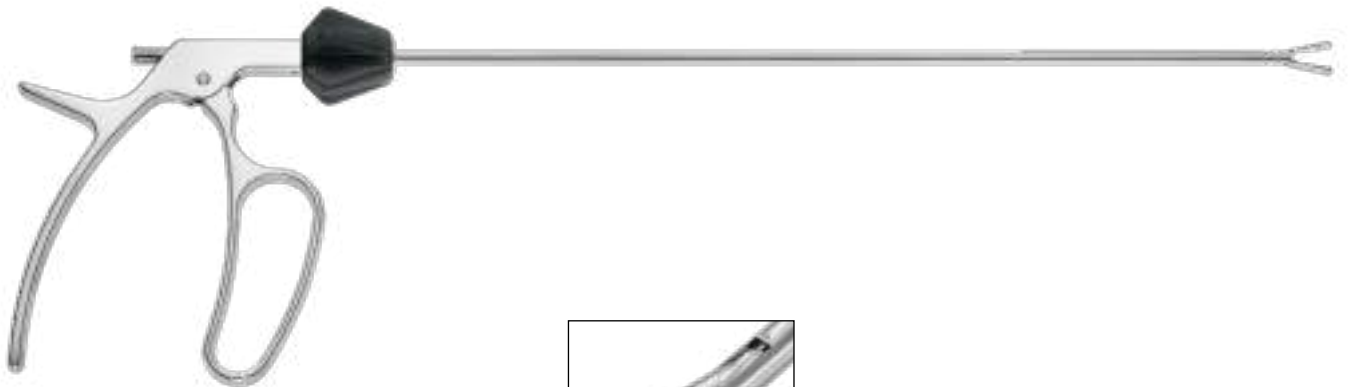
Detachable Forceps
without LuerLock



Non-detachable Forceps
with LuerLock



POLYMER CLIP REMOVING FORCEPS



Ø 5mm SHAFT

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



Polymer Clips Removal Forceps

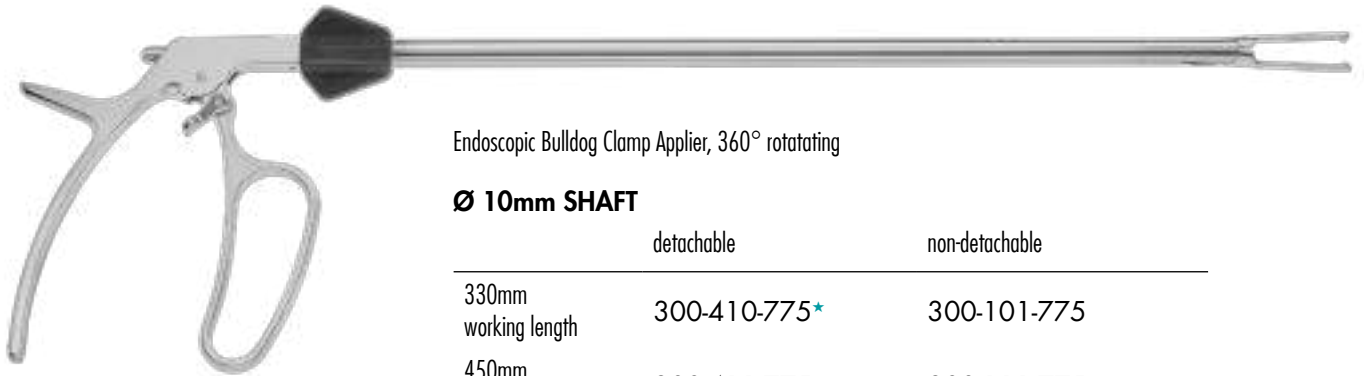


Detachable Forceps without LuerLock



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

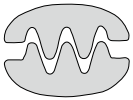
- 300-830-010 330 mm working length
- 300-830-410 450 mm working length



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* 25 mm jaws



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

300-100-771* 45 mm jaws

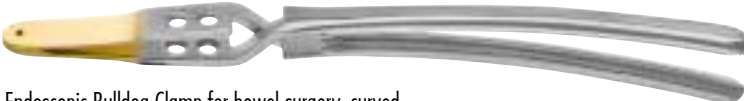
300-100-772* 60 mm jaws



Endoscopic Vascular Bulldog Clamp, curved, with DeBakey serration

300-100-776 17 mm jaws

300-100-777* 25 mm jaws



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

300-100-778* 45 mm jaws

300-100-779 60 mm jaws



Endoscopic Satinsky Bulldog Clamp, with DeBakey serration
golden spring, to be used with 12.5 mm 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 12.5 mm 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

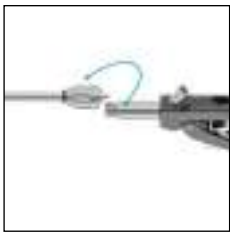


Applier recommendation:
300-101-775
300-410-775 (detachable)



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



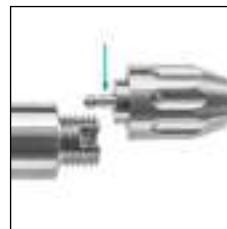
Secure screwing on the insert:
Perfect fit of the insert and
single cleaning
(only 3-piece system)



Modular handles:
Axial and straight handles
available to fulfill the surgeon's
needs and provide ergonomical
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 \varnothing 5mm



Insert only	Complete instrument  with axial handle	Complete instrument  with straight handle	Complete instrument  with angled handle
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 Straight jaw, TC	330mm	300-405-130	300-480-630	300-480-130	300-480-160
	450mm	300-406-130	300-480-730	300-480-230	300-480-260
 Left curved jaw, TC	330mm	300-405-140	300-480-640	300-480-140	300-480-170
	450mm	300-406-140	300-480-740	300-480-240	300-480-270
 Right curved jaw, TC	330mm	300-405-141	300-480-641	300-480-141	300-480-171
	450mm	300-406-141	300-480-741	300-480-241	300-480-271
 Diamond dusted jaw, self-aligning	330mm	300-405-142	300-480-642	300-480-142	300-480-172
	450mm	300-406-142	300-480-742	300-480-242	300-480-272
 1x2 teeth jaw, TC	330mm	300-405-131	300-480-631	300-480-131	300-480-161
	450mm	300-406-131	300-480-731	300-480-231	300-480-261

SINGLE PARTS FOR DETACHABLE NEEDLE HOLDER



Axial Handle, strong, straight
300-480-002



Axial Handle, straight
300-480-000

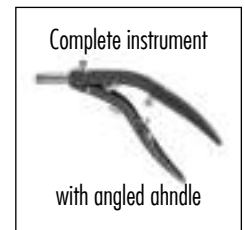
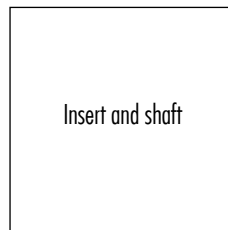


Axial Handle, angled
300-480-001



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

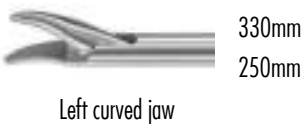
2-PIECE INSTRUMENT \varnothing 3mm



300-404-330
300-405-330

300-480-530
300-480-330

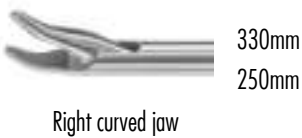
300-480-560
300-480-360



300-404-340
300-405-340

300-480-540
300-480-340

300-480-570
300-480-370



300-404-341
300-405-341

300-480-541
300-480-341

300-480-571
300-480-371

1-PIECE NEEDLE HOLDER

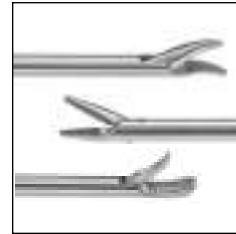
- Extremely light
- Aluminium anodized handle



Lightweight design with satin black surface



65° LuerLock flushing port for optimal accessibility



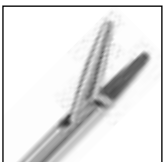
5 different jaw designs available



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



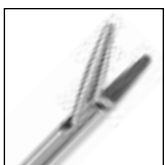
Smooth release lock, very robust handle design



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- & extracorporeal suturing
- Jaw with TC inserts: firm & reliable grip of suturing needles, long lifetime of the needle holder
- Ø 5 mm



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*

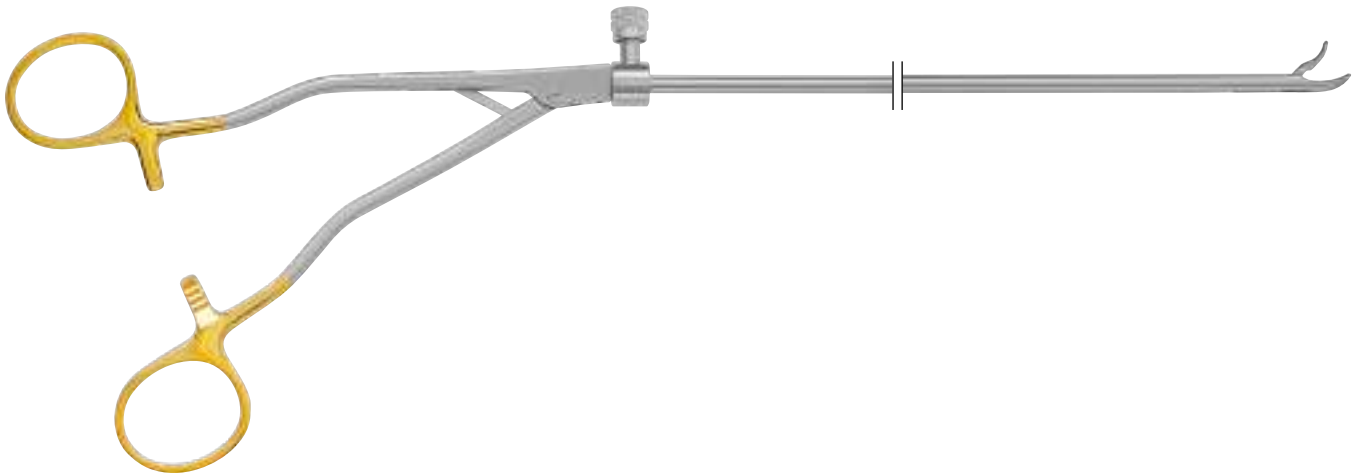


300-332-320 **LIONS** Needle forceps Ø 5 mm, 330 mm without ratchet, with LuerLock, double-action



ROMEIO 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 5 mm



360mm






Parrot design jaw

300-101-593

MATHIEU TC ENDOSCOPIC NEEDLE HOLDER

- For intra- & extracorporal 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 5 mm



		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

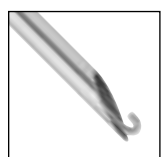


300-152-000 Tip only, set with 5 pieces



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

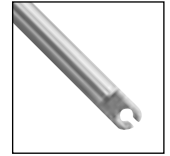


300-151-100 Rainer Fascia Suturing Device, Ø 2.3mm, 140mm working length

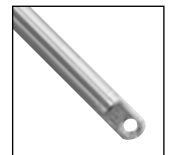
KNOT TIERS



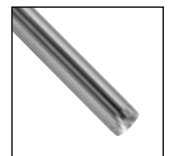
Classic knot tier with slit and eye for extra corporal knotting, \varnothing 4 mm
 300-030-001* 330 mm working length
 300-030-003 450 mm working length



Knot tier with eye for extra corporal knotting, \varnothing 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, \varnothing 4 mm, 330 mm working length



300-012-405* Reducer Sleeve, \varnothing 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

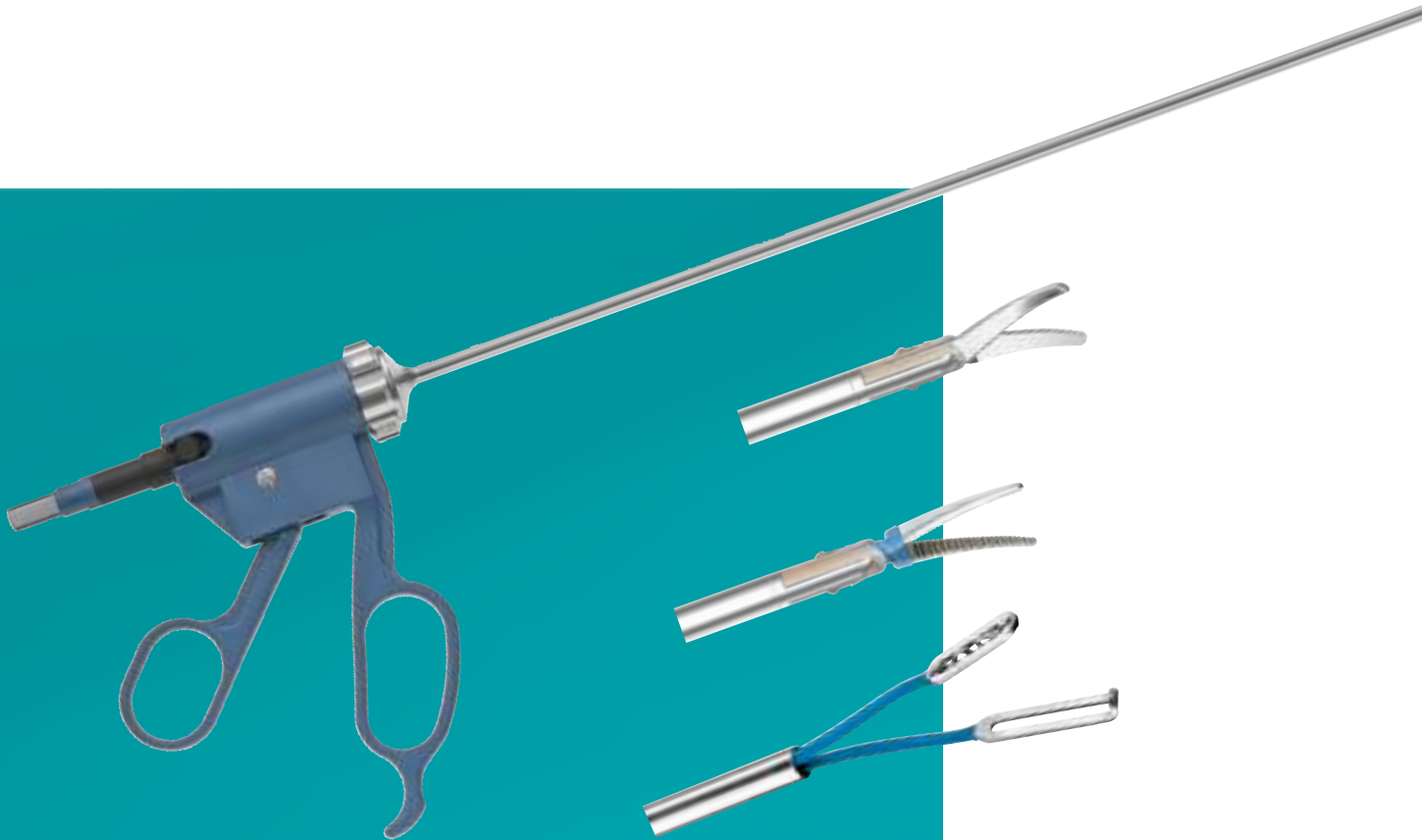


300-750-101 Carbon Fiber Handle, HF-connection



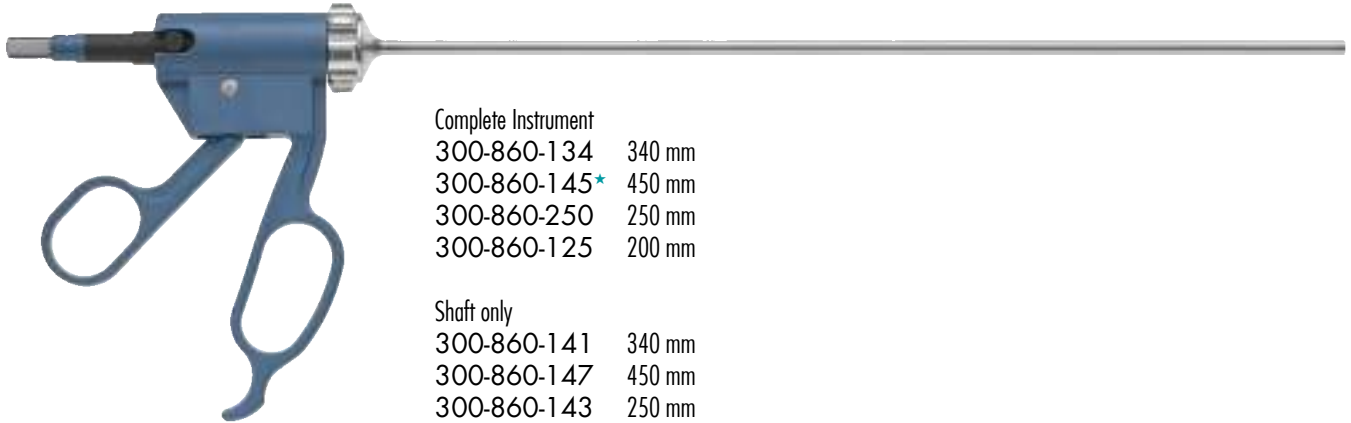
300-750-105 Carbon Fiber Handle, hook up ratchet, HF-connection

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

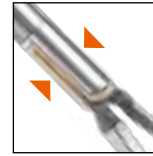
	Grasping Forceps, fenestrated jaws, curved	300-860-009	340 mm
	Grasping Forceps, fenestrated jaws, serrated	300-860-013* 300-860-023 300-860-063	340 mm 450 mm 200 mm*
	Grasping Forceps, slightly curved	300-860-011 300-860-021 300-860-061	340 mm 450 mm 250 mm*
	Powergrip Bipolar Forceps, 2x3 teeth	300-860-012	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, \varnothing 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

1
Forceps body standard
300-855-001

4
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

2
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

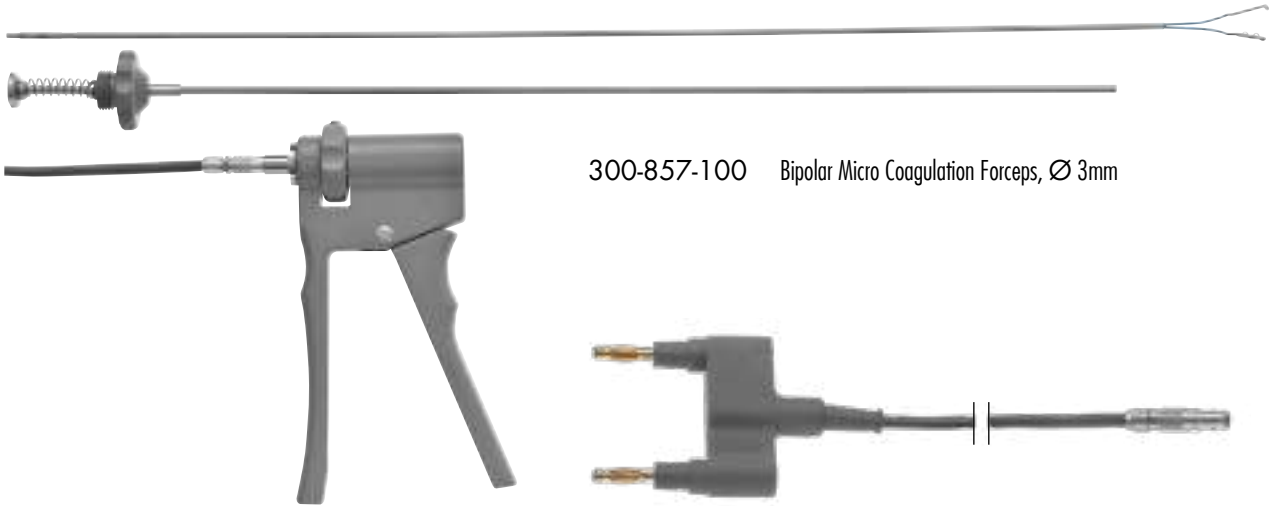
3
Adapter for bipolar cable
300-855-400 with flat plug
300-855-401 with 2-pin-plug

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

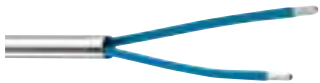
300-857-205
Cable only for 300-857-100

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,
Lamidey, 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

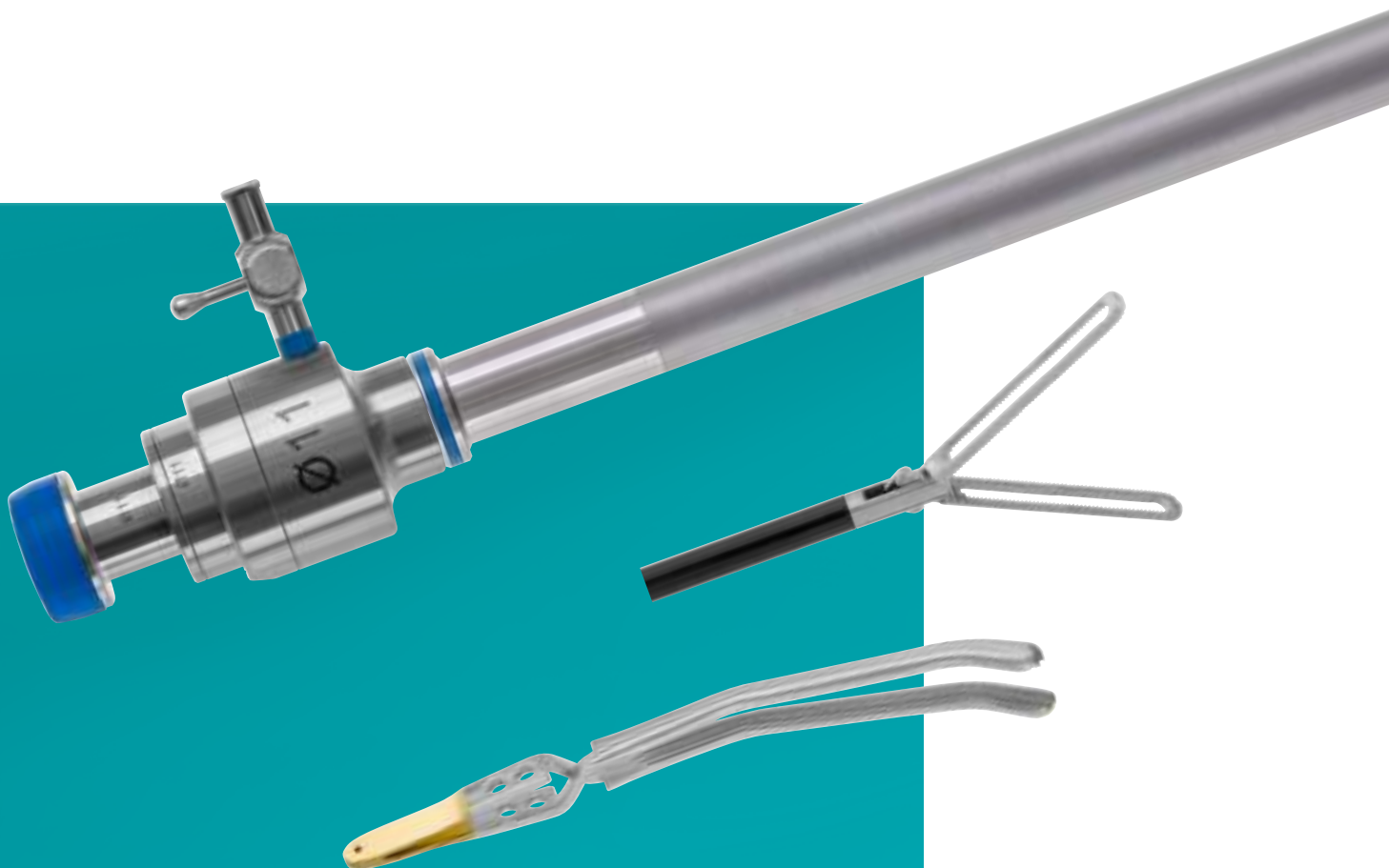
700-101-230		700-100-202	700-100-104	700-100-302	700-100-402	700-100-502
700-101-250		700-100-303	700-100-105	700-100-305	700-100-405	700-100-505

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

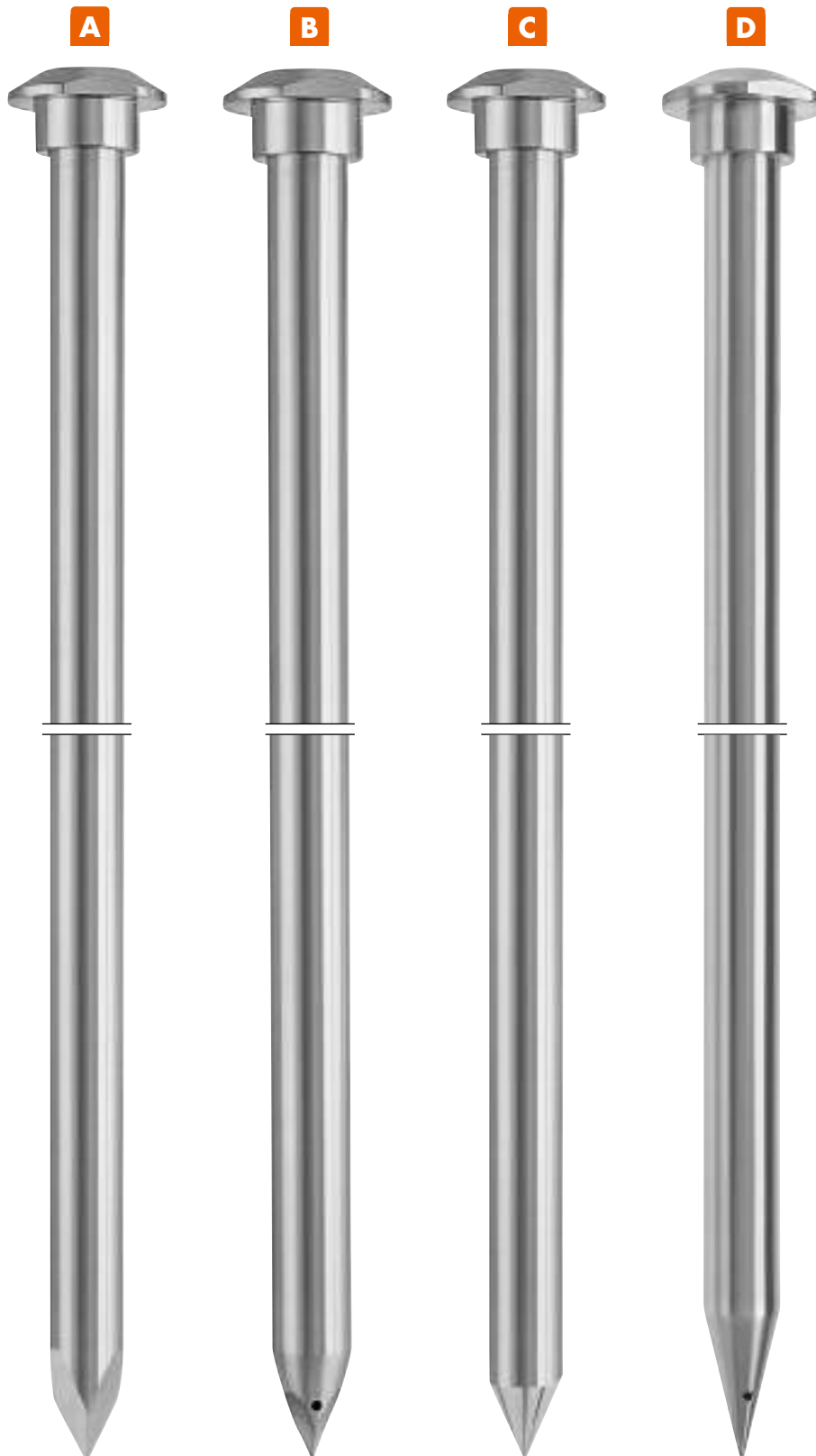




Stainless steel valve, XL smooth stainless steel sleeve,
150mm working length
300-220-155 Ø 5.5mm
300-220-111 Ø 11.0mm
300-220-113 Ø 13.0mm



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

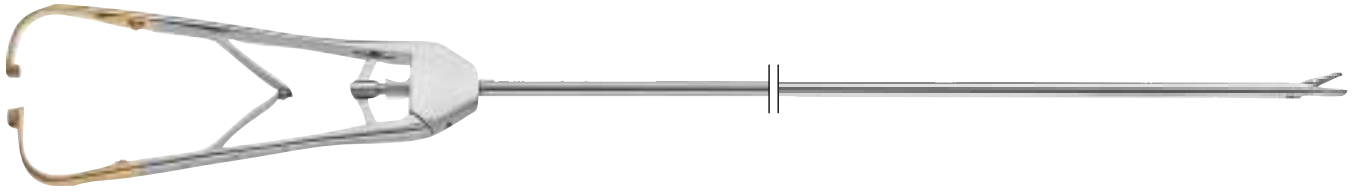
With conical tip, reusable, cutting
 150mm working length
 300-240-155 Ø 5.5mm
 300-240-111 Ø 11.0mm
 300-240-113 Ø 13.0mm

D

Cannulated with hole, conical tip
 150mm working length
 300-243-155 Ø 5.5mm
 300-243-111 Ø 11.0mm
 300-243-113 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 5 mm, 450 mm working length



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

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



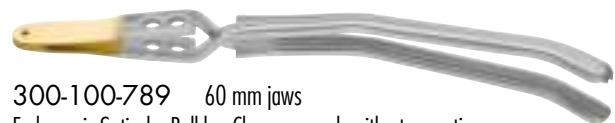
300-111-775 Endoscopic Bulldog Clamp Applier, detachable, Ø 10mm, 360° rotating, 450mm working length



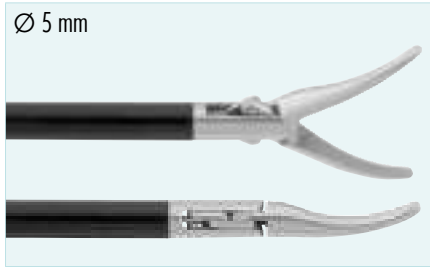
300-100-772 60 mm jaws
Endoscopic Bulldog Clamp for bowel surgery, straight, with DeBaKey serration



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



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



Ø 5 mm

insert only

300-401-732



300-411-732



300-421-732

KELLY

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



Ø 5 mm

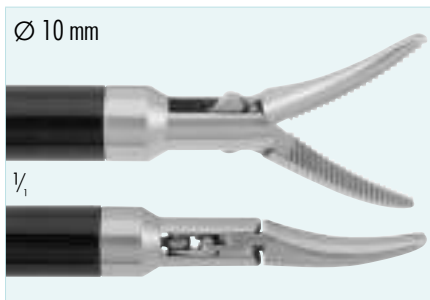
300-401-738

300-411-738

300-421-738

MIXTER

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



Ø 10 mm

300-401-730

300-411-730

300-421-730

MARYLAND

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



Ø 10 mm

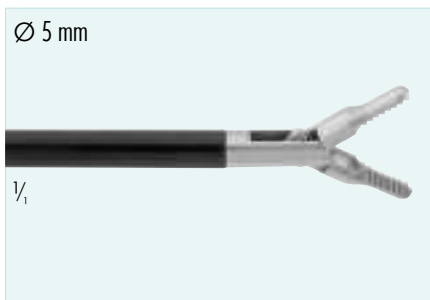
300-401-739

300-411-739

300-421-739

MIXTER

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



Ø 5 mm

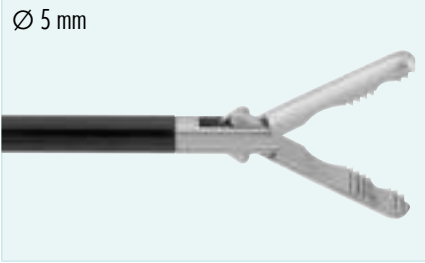

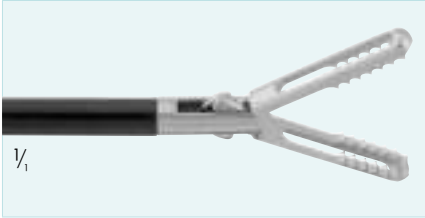
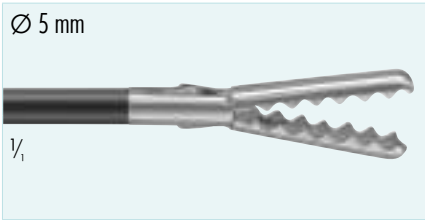
300-401-025

300-411-025

300-421-025

DOLPHIN

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

	insert only	Complete Instrument with handle 300-750-003	Complete Instrument with handle 300-750-103
<p>Ø 5 mm</p>  <p>FUNDUS Grasping forceps with 2 cups and serrated jaws, double action, Ø 5 mm, 450 mm</p>	300-401-015	300-431-015	300-441-015
<p>Ø 5 mm</p>  <p>BULLNOSE Grasping forceps, heavy pattern, standard serrated jaws, double action, Ø 5 mm, 450 mm</p>	300-401-001	300-431-001	300-441-001
<p>Ø 5 mm</p>  <p>GRIPPER #1 Grasping forceps with coarse serration and fenestration, double action, Ø 5 mm, 450 mm</p>	300-401-017	300-431-017	300-441-017
<p>Ø 5 mm</p>  <p>PRESTIGE Grasping forceps with long, bevelled-edge jaws and deep cup for large tissue collection, double action, Ø 5 mm, 450 mm</p>	300-401-013	300-431-013	300-441-013



insert only

300-401-201



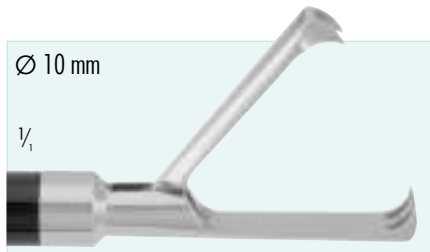
300-431-201



300-441-201

COBRA

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



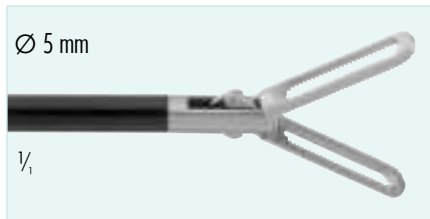
300-401-710

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



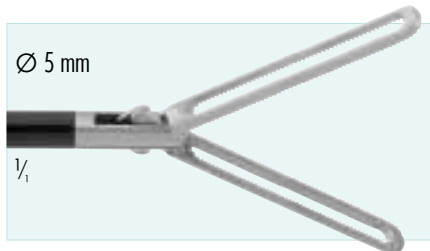
300-401-289

300-431-289

300-441-289

JOHANS

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



300-401-291

300-431-291

300-441-291

LONG JOHANS

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



insert only

300-401-082

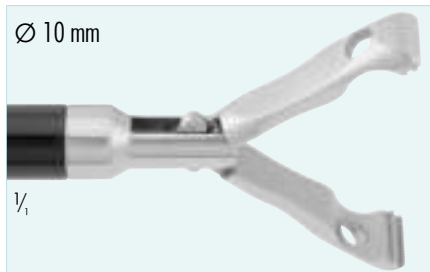


300-411-082



300-421-082

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



insert only

300-401-079



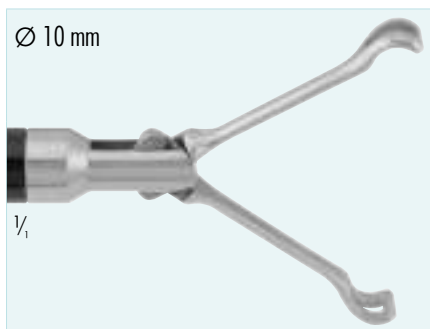
300-431-079



300-441-079

DEBAKEY BABCOCK

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



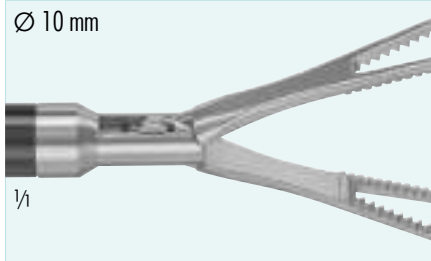
300-401-078

300-431-078

300-441-078

BABCOCK

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



insert only

300-401-085



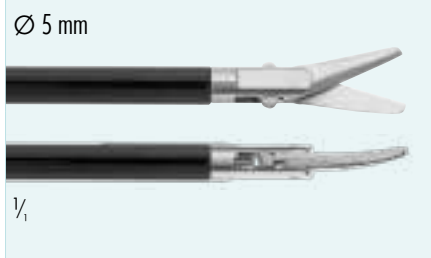
300-431-085



300-441-085

COLLIN

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



insert only

300-401-067



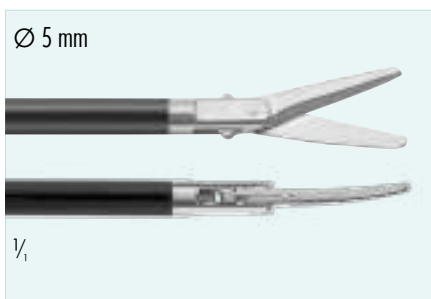
300-411-067



300-421-067

ORIGINAL METZENBAUM

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



300-401-070

300-411-070

300-431-070

METZENBAUM

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

DETACHABLE XL BIPOLAR FORCEPS

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



300-860-145 Bipolar Coagulation Forceps, 450mm

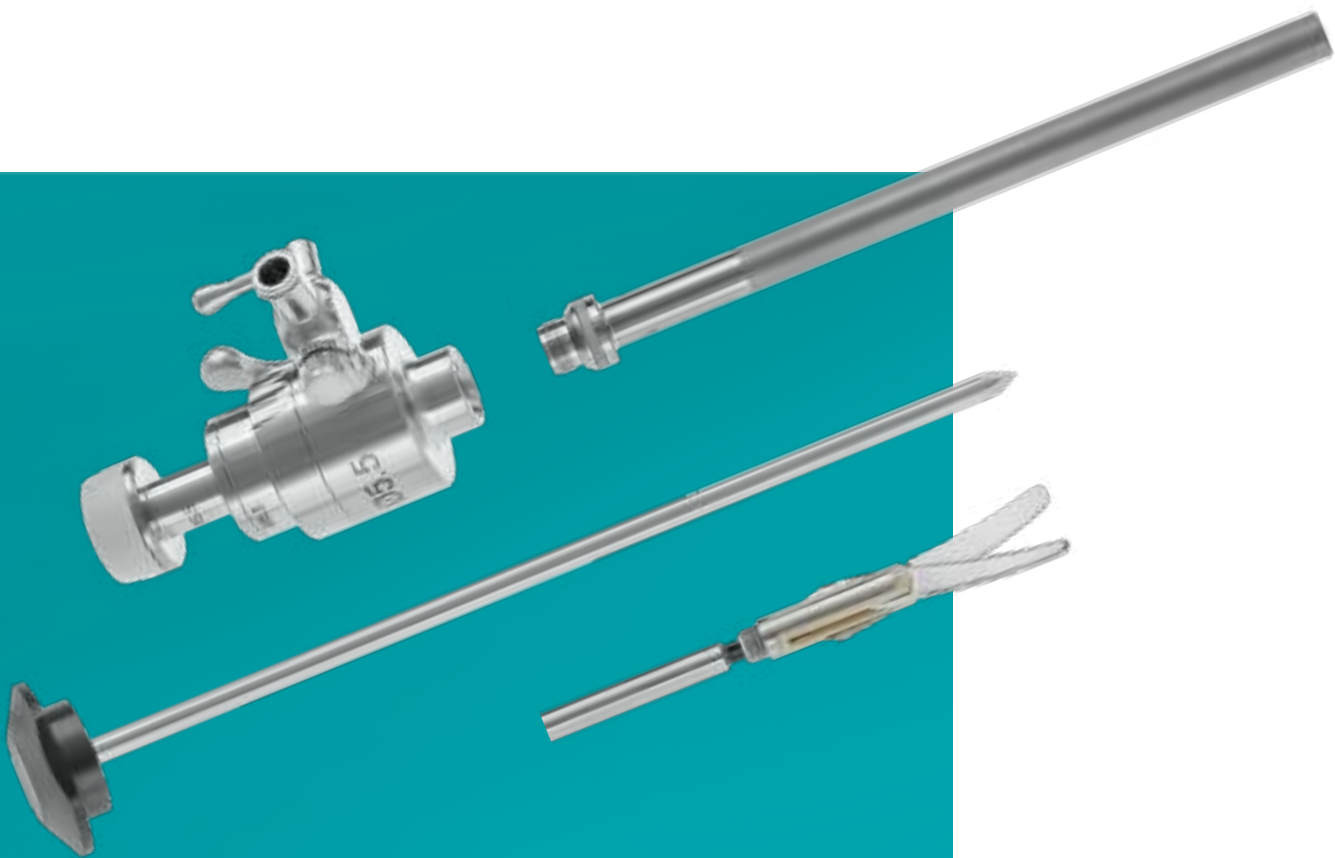
POWERGRIP XL BIPOLAR ELECTRODE INSERTS

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



	Grasping Forceps, fenestrated jaws, serrated, 5 mm	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** 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



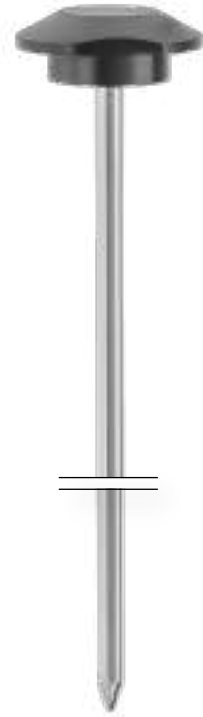
300-112-035 Stainless steel trocar with smooth sleeve, 70mm working length, Ø 3.5mm



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 5.5 mm



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 trumpeted valves
- Universal suction channel
- Lateral LuerLock irrigation channel

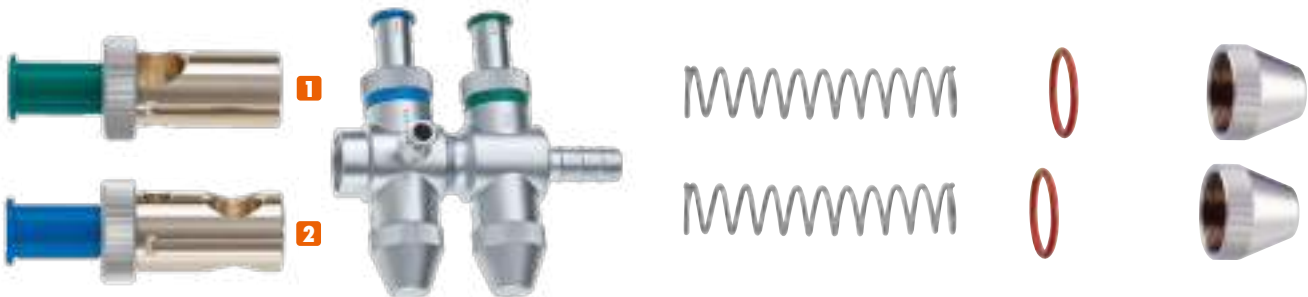


Suction and irrigation set

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

300-019-701 suction tube 300-019-735 and small valve body 300-019-601

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



2 300-019-750
Suction piston
1 unit

1 300-019-760
Irrigation piston
1 unit

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

300-019-790
Screw cap
1 unit



300-019-735 Suction and irrigation tube with 4x4 holes, \varnothing 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 cannula with 4 holes, Ø 3 mm

300-172-003 340 mm working length

300-172-253 250 mm working length



Suction and irrigation cannula with 16 holes, Ø 3 mm

300-173-003 340 mm working length

300-173-253 250 mm working length



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



Suction and irrigation tube with 4 holes on the tip for use with handle 300-192-000

- 300-192-003 340 mm working length
- 300-192-253 250 mm working length



Suction and irrigation tube with 4 x 4 holes on the tip for use with handle 300-192-000

- 300-193-003 340 mm working length
- 300-193-253 250 mm working length



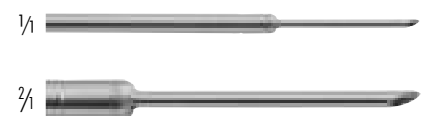
Palpation Probe, graduated, \varnothing 2.8 mm

- 300-193-303 330 mm working length
- 300-195-253 250 mm working length



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

- 300-194-303 330 mm working length
- 300-194-253 250 mm working length



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: 12mm, 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 disassembling
- 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



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

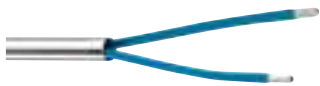
300-857-205
Cable only for 300-857-100

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



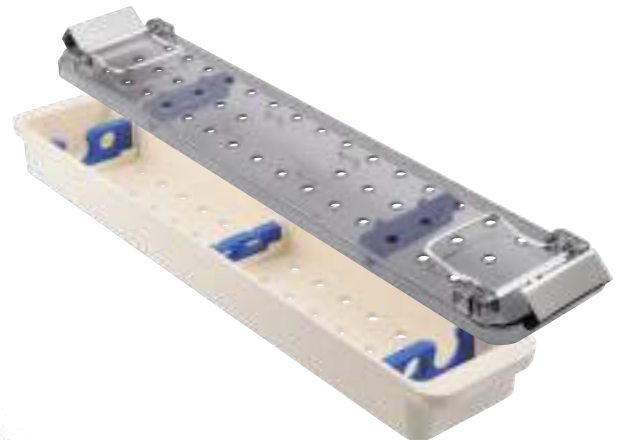
600-505-002

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



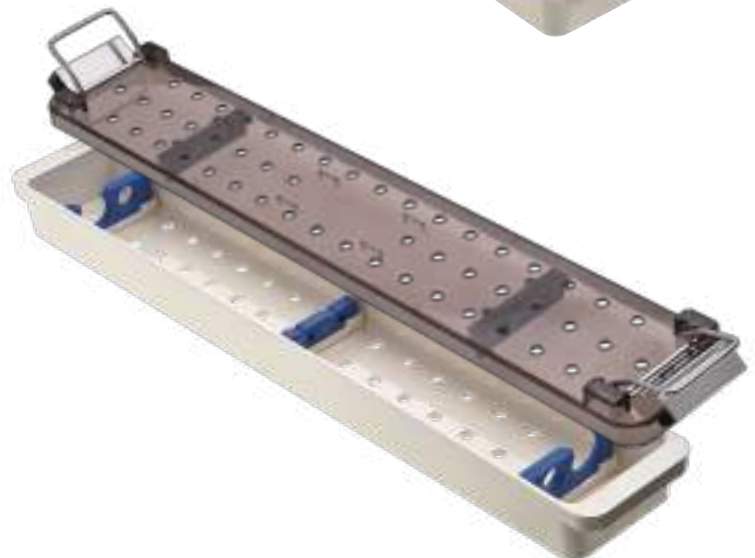
600-501-000

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



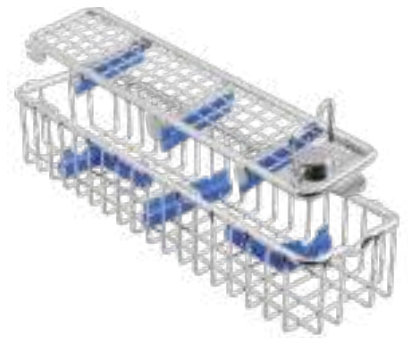
600-511-000	for instruments with rubber ties on 2 levels
Dimensions	502 x 239 x 102mm



ENDOSCOPE CLEANING BASKETS & CONTAINERS with silicone bars on base and lid

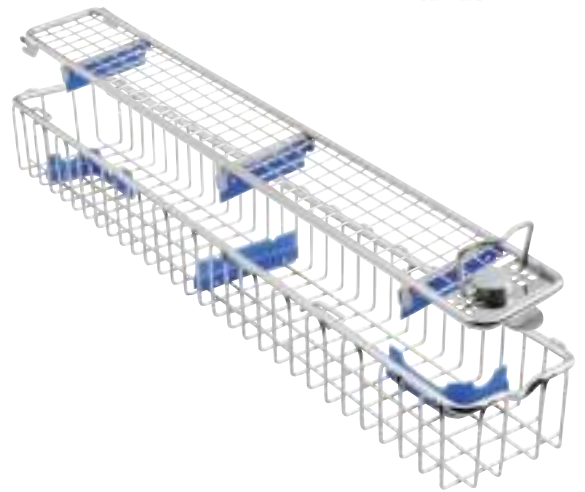
600-292-052*

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

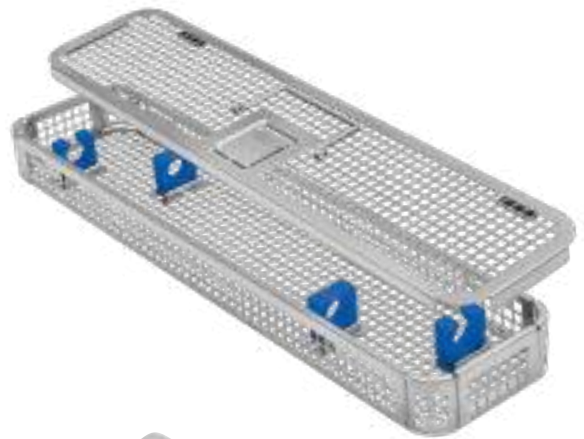


600-462-052*

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



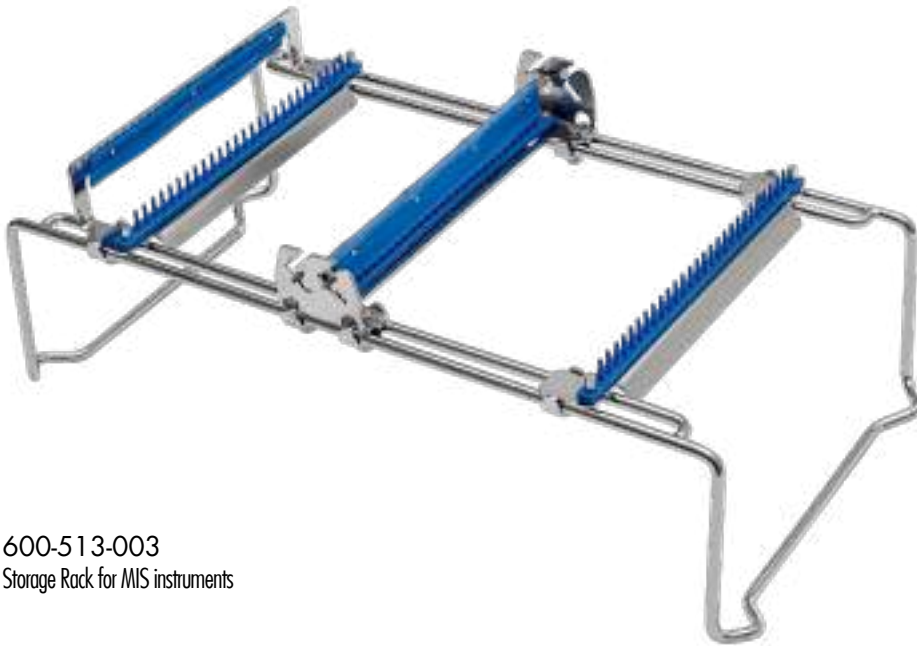
600-460-055	Endoscopes 1
600-460-056	Endoscopes max. 2
Endoscope length	max. 340mm
Dimensions	455 x 86 x 43mm



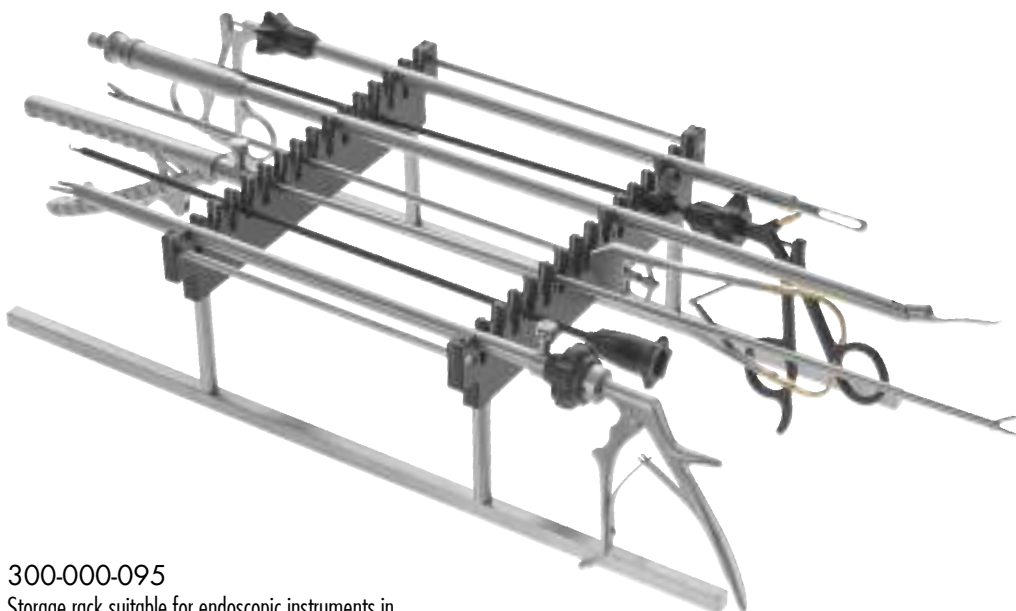
600-450-070

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

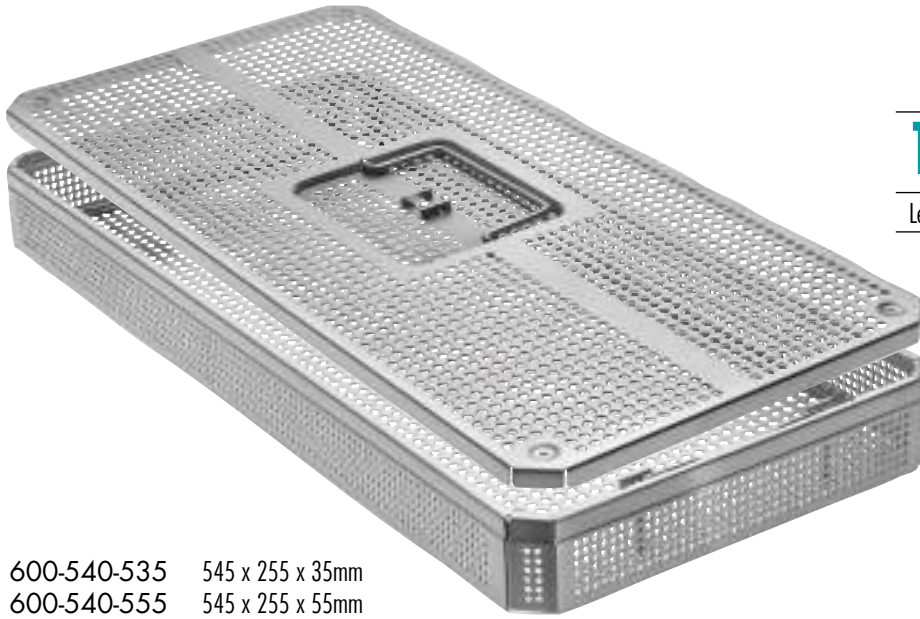




600-513-003
Storage Rack for MIS instruments



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



1/1

Stainless Steel Basket,
round perforation, with lid

Length

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



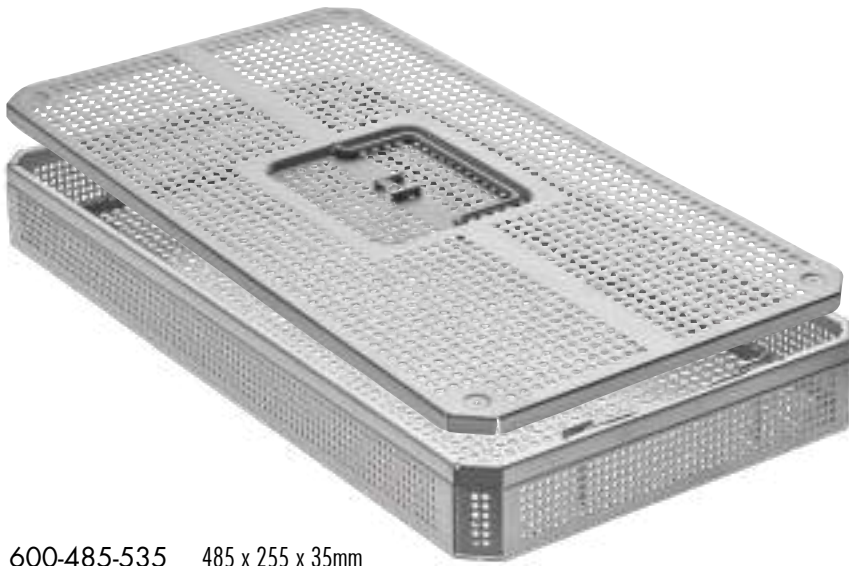
- Lid only
- 600-540-500 545 x 255 mm



- 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

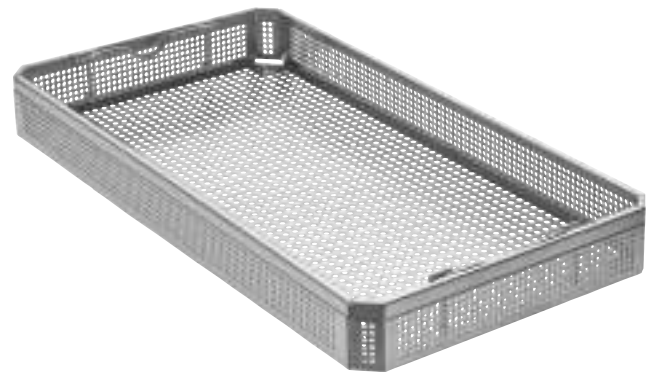
Length

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



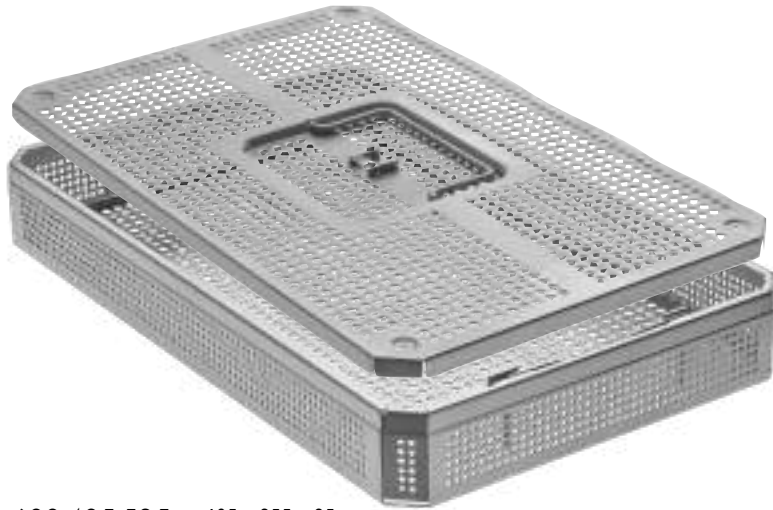
Lid only
 600-485-500 485 x 255 mm



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



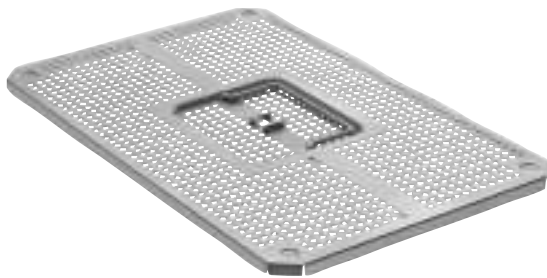
3/4

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 255 mm



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 245 mm



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

❶ 600-908-100 STANDARD

❷ 600-908-000 SMALL



600-909-000
Plastic security seal,
100 pieces per package



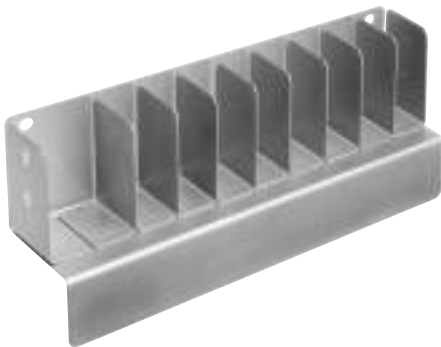
Identification label

with hole for snap hook

56x17mm

50x17mm

	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
marked	600-900-110	600-900-111
	600-900-120	600-900-121
	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



600-100-000
RZ-Aquajet
Water Jet Pistol complete
with 9 tips and 1m pressure
tubing, with strap and
suspension hook



600-050-000
Hand brush, autoclavable
(10 pcs. per box)



600-950-100
RZ - Brush dispenser
for 10 brushes with suspension hook



700-900-220 Special Cotton for polishing metal sheaths and instruments



700-900-160
Instrument Oil in 50ml bottle



700-900-250
Oil Dispenser, 140mm



Cleaning brush (1 piece per box), 500mm length
300-135-905 for \varnothing 5 mm
300-135-910 for \varnothing 10 mm



300-215-000 Cleaning Brush, \varnothing 13mm, 215mm length, 60mm brush length



300-420-065 Cleaning Brush, \varnothing 3mm, 420mm length, 65mm brush length

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)
- Wrench Set (300-902-006)
- 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



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

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*

* standard length

Accessories (included):



Wrench Set (SW30/SW17)
300-902-006



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



300-000-301 (included)
Tubing Set, non-sterile,
autoclavable
300-000-301S (optional)
Tubing Set, single-use,
sterile, moq: 50 pcs.

300-000-307

Pneumatic double footswitch



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



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

4K

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

Technical data

Line voltage	100-240 VAC	Video outputs	1x HDMI 4K 1x HDMI FullHD 1x SDI 4K 1x SDI FullHD
Power consumption	60VA	Dimensions	Control unit: 355 x 103 x 350mm (WxHxD) Weight control unit: 6.2kg Weight camera head: 145g
Image sensor	3 MOS		
Resolution	3840 x 2160 pixels (4K)		
Index ratio	16:9		
N/N ratio	54db		

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



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

Features:

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

DELIVERY CONTAINS:

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

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)

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

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

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

250-020-025 F=25mm (splitting 90/10)
250-020-030 F=30mm (splitting 90/10)
Beamsplitter, allows simultaneous video
and direct views, 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 adaptor

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
- Tiltable 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 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



300-001-168
Endovue 32" HD Monitor

300-001-158
Endovue 24" HD Monitor

Technical data

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



300-001-232
Radiance 32" HD Monitor

300-010-226
Radiance 27" HD Monitor

Technical data

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



300-001-031
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 SOi (3G), 2 x SOi (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

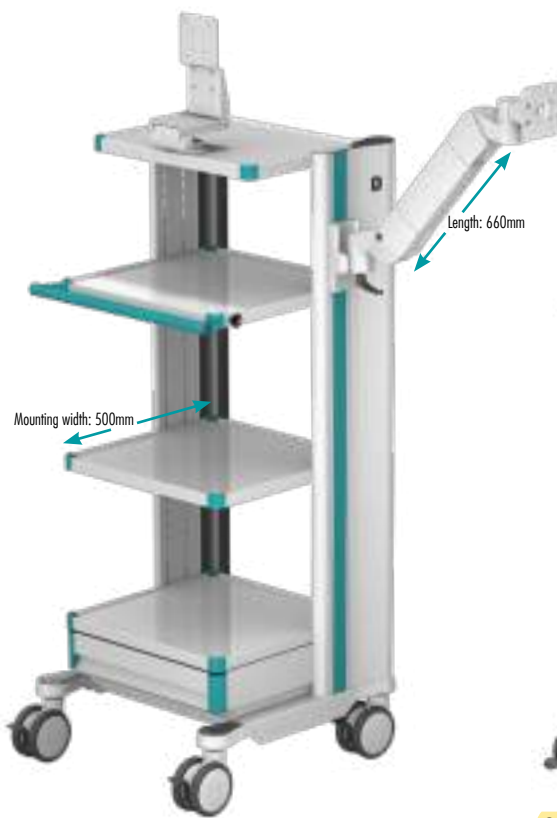
Column height	305mm, 12"
Oriantations	Landscape or page mode
Adjustments	+/- 20°
Max. load	31" / 13.6kg / 30lbs

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



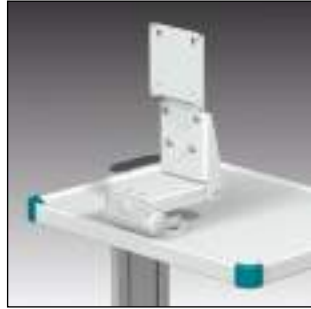
300-001-970
 RZ Standard Trolley



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



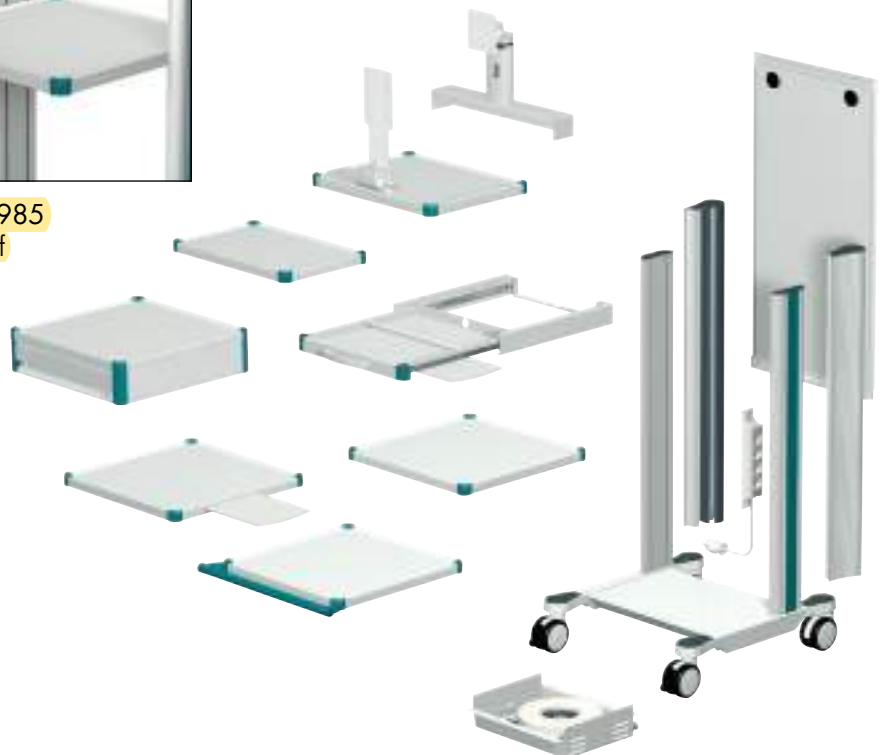
300-001-991
Computer Holder, load capacity max. 20kg

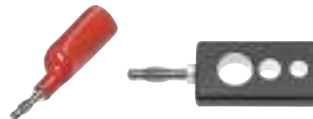


300-001-983
Rear Panel



300-001-985
Additional Shelf





700-999-000 RZ Insulation & Continuity Tester complete, including accessories, carrying case and foot control

SPARE PARTS



700-999-009 Test Plate



700-999-004 Cable male-female



700-999-007 Brush Test Electrode



700-999-010 Foot pedal



700-999-006 Adapter male-alligator



250-930-100 Fiberoptic Lightc able Testing Unit
for RZ - Fiberoptic Light Cables

Fiber optic Cable Testing Unit

250-930-103 for WOLF - Fiberoptic Lightcable

250-930-104 for ACMI - Fiberoptic Lightcable

250-930-105 for OLYMPUS- Fiberoptic Lightcable



Connect Fiber optic Cable's - Instrument end
on the left ("out")



Plug in remaining end of Fiber optic Cable on the
right ("in")

Display 70% - 100% : Cable OK

Display <70% : Cable defect

110-110-003	7	250-048-230	6, 179	300-001-840	172
120-511-145	7	250-048-234	179	300-001-841	172
120-611-180	8	250-048-300	179	300-001-970	184
130-140-120	7	250-051-000	179	300-001-978	185
140-254-125	8	250-052-000	179	300-001-979	185
140-573-130	8	250-059-000	179	300-001-980	185
150-050-180	8	250-930-100	187	300-001-982	185
170-801-500	10	250-930-103	187	300-001-983	185
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170-802-521	11	300-000-305	170	300-012-106	29
170-802-522	11	300-000-306	170	300-012-116	29
180-550-160	8	300-000-307	170	300-012-121	29
250-015-030	175	300-001-028	183	300-012-405	4, 29, 116
250-015-036	175	300-001-031	183	300-012-410	29
250-020-025	175	300-001-055	183	300-012-412	29
250-020-030	175	300-001-158	182	300-012-415	29
250-025-230	179	300-001-168	182	300-012-416	29
250-025-300	179	300-001-198	176	300-012-420	29
250-035-180	179	300-001-199	176	300-012-421	29
250-035-230	179	300-001-232	182	300-012-425	29
250-035-300	179	300-001-521	171	300-012-455	4, 29
250-037-000	179	300-001-600	174	300-013-115	30
250-037-400	179	300-001-601	174	300-013-510	30
250-038-000	179	300-001-602	174	300-013-511	30
250-039-000	7, 179	300-001-610	172, 173, 174	300-013-512	30
250-039-400	179	300-001-615	172, 173, 174	300-013-522	30
250-040-000	179	300-001-800	173	300-014-111	30
250-041-000	179	300-001-802	173	300-014-113	30
250-042-000	179	300-001-804	173	300-014-155	30
250-042-400	179	300-001-813	175	300-014-711	30
250-044-000	179	300-001-814	175	300-019-500	34
250-045-000	179	300-001-823	175	300-019-501	34, 35, 131, 142
250-048-000	179	300-001-824	175	300-019-600	34
250-048-180	179	300-001-825	175	300-019-601	34, 35, 131, 142

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300-019-701	142	300-025-359	28	300-099-006	17, 90
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300-019-780	34, 142	300-042-000	7	300-100-122	90
300-019-790	34, 142	300-042-005	88	300-100-125	90
300-019-805	131	300-042-010	88	300-100-127	90
300-019-810	131	300-063-000	85	300-100-131	41
300-020-015	24	300-065-000	85	300-100-132	41
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300-020-220	28	300-071-000	87	300-100-688	109
300-020-255	31	300-071-450	87	300-100-689	109
300-020-711	31	300-072-000	86	300-100-691	109
300-020-755	31	300-072-450	86	300-100-692	109
300-020-915	28	300-073-000	86	300-100-693	109
300-020-920	28	300-073-450	86	300-100-694	109
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300-021-310	29	300-076-101	87	300-100-702	109
300-021-355	29	300-077-000	87	300-100-703	109
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300-021-410	29	300-091-145	15	300-100-772	98, 100, 132
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300-021-755	31	300-091-433	15	300-100-774	98, 100
300-023-100	32	300-091-445	15	300-100-776	98
300-023-111	31	300-092-100	16	300-100-777	98
300-023-255	31	300-092-130	6, 16	300-100-778	98
300-023-711	31	300-092-145	16	300-100-779	98
300-023-755	31	300-096-450	16	300-100-786	98, 132
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300-024-711	31	300-097-100	16	300-100-799	99
300-024-755	31	300-097-130	16	300-101-588	112

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300-226-013	22	300-241-055	4, 26, 141	300-300-161	107
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300-231-013	23	300-243-055	27	300-300-241	107
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300-232-013	23	300-243-155	131	300-300-261	107
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300-300-501	111	300-400-030	72	300-400-200	74
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