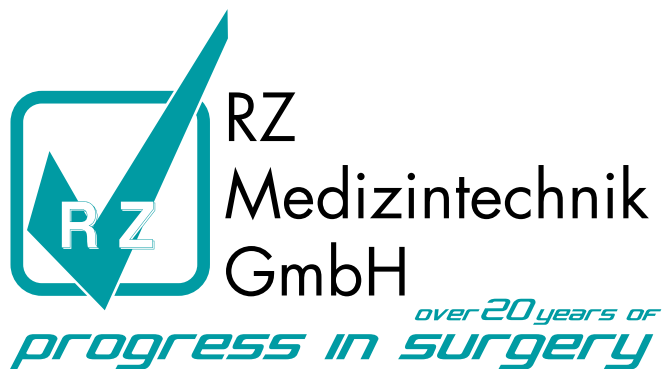
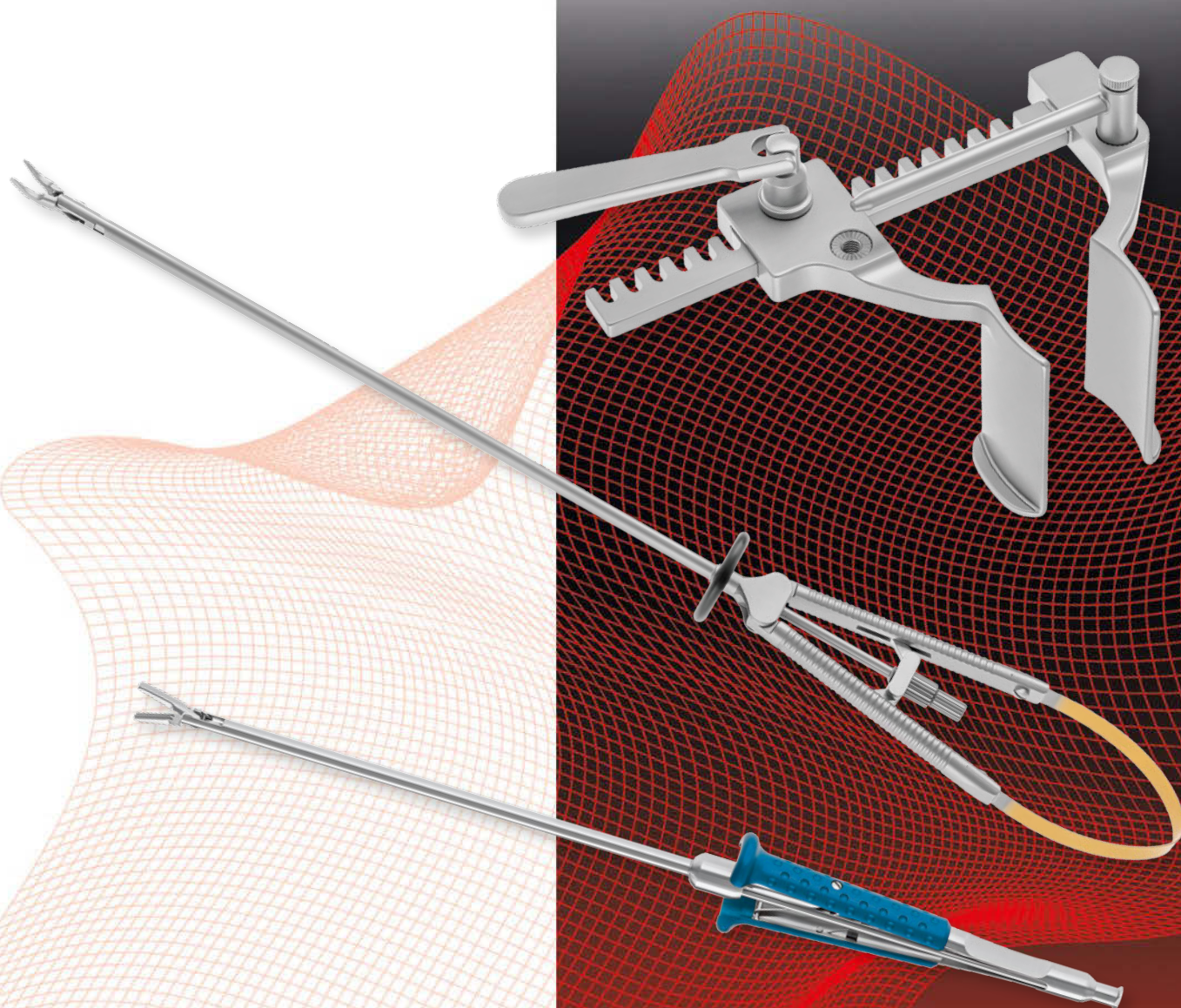


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VATS MICS

INSTRUMENTS



VATS / MICS – SHORT INTRODUCTION

The terms VATS (Video-Assisted Thoracoscopic Surgery) and MICS (Minimal Invasive Cardiac Surgery) describe minimal invasive surgery methods in lung and heart surgery. They have significant advantages compared to traditional operations.

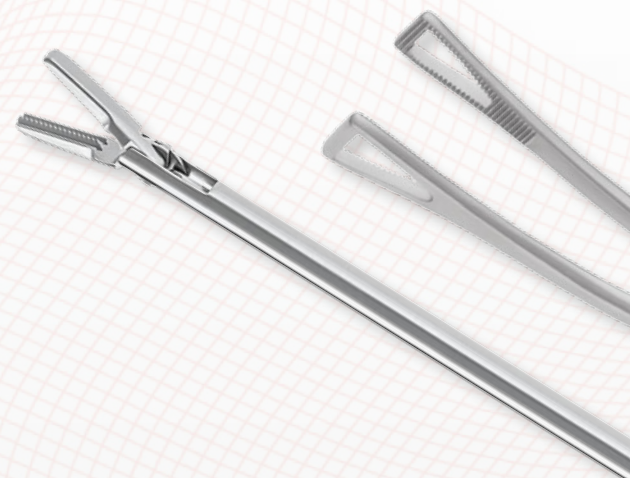
Classic procedures require a median sternotomy, while VATS / MICS operations are performed with several small incisions without cutting the sternum. To ensure a good visibility, endoscopes and small retractors are used. In addition, instruments with long, thin shafts and delicate working elements, provide an excellent and easy access to the deep lying and sensitive anatomy. The usage of best materials and technologies ensures a precise and comfortable working.

The main advantages of VATS/MICS are:

- less blood loss
- reduced post-operative discomfort
- faster healing times
- lower risk of infections
- less traumatic procedure qualifies a larger number of patients (patients with diseases or older patients)

CONTENT

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MICS CARDIO VASCULAR SCISSORS



RED HANDLE

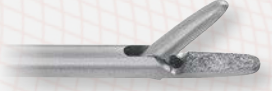
	Ø Shaft	Working length	Order number	Description
	3.5mm	170mm	295-034-045	Potts Scissors, 45° angled, single action
		250mm	295-035-045	
		300mm	295-037-045	
	3.5mm	170mm	295-034-090	Potts Scissors, 90° angled, single action
		250mm	295-035-090	
		300mm	295-037-090	
	3.5mm	170mm	295-034-125	Potts Scissors, 125° angled, single action
		250mm	295-035-125	
		300mm	295-037-125	
	5mm	170mm	295-048-000	Metzenbaum Scissors, straight, single action
		250mm	295-050-000	
		300mm	295-052-000	
	5mm	170mm	295-048-010	Metzenbaum Scissors, straight, double action
		250mm	295-050-010	
		300mm	295-052-010	
	5mm	170mm	295-048-015	Metzenbaum Scissors, 15° curved, double action
		250mm	295-050-015	
		300mm	295-052-015	
	5mm	170mm	295-048-020	Jameson Scissors, 15° curved, double action
		250mm	295-050-020	
		300mm	295-052-020	
	5mm	170mm	295-048-030	Metzenbaum Scissors, 30° curved, double action
		250mm	295-050-030	
		300mm	295-052-030	
	5mm	170mm	295-048-070	Metzenbaum Scissors, 70° curved, double action
		250mm	295-050-070	
		300mm	295-052-070	
	5mm	170mm	295-048-125	Potts Scissors, 125° angled, single action
		250mm	295-050-125	
		300mm	295-052-125	
	7mm	170mm	295-069-015	Metzenbaum Scissors, 15° curved, double action
		250mm	295-070-015	
		300mm	295-071-015	

All instruments shown on this page are also available with a working length of 450mm upon request.

MICS CARDIO VASCULAR NEEDLE HOLDERS



GOLD HANDLE

	Ø Shaft	Working length	Order number	Description
	3.5mm	170mm	295-034-200	TC Mini Needle Holder, straight, 2x6mm, with catch
		250mm	295-035-200	
		300mm	295-037-200	
	3.5mm	170mm	295-034-201	TC Mini Needle Holder, curved, 2x6mm, with catch
		250mm	295-035-201	
		300mm	295-037-201	
	5mm	170mm	295-048-200	TC Needle Holder, straight, 3x10mm, with catch
		250mm	295-050-200	
		300mm	295-052-200	
	5mm	170mm	295-048-201	TC Needle Holder, curved left, 3x10mm, with catch
		250mm	295-050-201	
		300mm	295-052-201	
	5mm	170mm	295-048-202	TC Needle Holder, curved right, 3x10mm, with catch
		250mm	295-050-202	
		300mm	295-052-202	
	5mm	170mm	295-048-210	TC Ryder Needle Holder, straight, 1x8mm, with catch
		250mm	295-050-210	
		300mm	295-052-210	
	5mm	170mm	295-048-212	TC Ryder Needle Holder, straight, 1x10mm, with catch
		250mm	295-050-212	
		300mm	295-052-212	
	5mm	170mm	295-048-214	TC Needle Holder, straight, 2x8mm, with catch
		250mm	295-050-214	
		300mm	295-052-214	
	5mm	170mm	295-048-216	Needle Holder, straight, 3x10mm, diamond dusted, with catch
		250mm	295-050-216	
		300mm	295-052-216	
	5mm	170mm	295-048-217	Needle Holder, curved left, 3x10mm, diamond dusted, with catch
		250mm	295-050-217	
		300mm	295-052-217	
	5mm	170mm	295-048-219	TC Crile Wood Needle Holder, curved left, 3x10mm, with catch
		250mm	295-050-219	
		300mm	295-052-219	

All instruments shown on this page are also available with a working length of 450mm upon request.

MICS CARDIO VASCULAR GRASPING FORCEPS



GREEN HANDLE

	Ø Shaft	Working length	Ord.- No. without catch	Ord.- No. with catch	Description
	3.5mm	170mm	295-034-253	295-033-253	DeBakey Forceps, 2x1 teeth, 45° lateral angled, 2.8 x 14mm, double action
		250mm	295-035-253	295-036-253	
		300mm	295-037-253	295-038-253	
	5mm	170mm	295-048-250	295-049-250	DeBakey Forceps, 2x1 teeth, straight, 1.5 x 10mm, double action
		250mm	295-050-250	295-051-250	
		300mm	295-052-250	295-053-250	
	5mm	170mm	295-048-251	295-049-251	DeBakey Forceps, 2x1 teeth, straight, 2.8 x 10mm, double action
		250mm	295-050-251	295-051-251	
		300mm	295-052-251	295-053-251	
	5mm	170mm	295-048-252	295-049-252	DeBakey Forceps, 2x1 teeth, straight, 1.5x14mm, single action
		250mm	295-050-252	295-051-252	
		300mm	295-052-252	295-053-252	
	5mm	170mm	295-048-253	295-049-253	DeBakey Forceps, 2x1 teeth, 45° angled, 1.5x14mm, single action
		250mm	295-050-253	295-051-253	
		300mm	295-052-253	295-053-253	
	5mm	170mm	295-048-254	295-049-254	DeBakey Forceps, 3x2 teeth, straight, 4.8x10mm, double action
		250mm	295-050-254	295-051-254	
		300mm	295-052-254	295-053-254	
	5mm	170mm	295-048-255	295-049-255	DeBakey Forceps, 2x1 teeth, 45° lateral angled, 1.5x14mm, single action
		250mm	295-050-255	295-051-255	
		300mm	295-052-255	295-053-255	
	5mm	170mm	295-048-260	295-049-260	Knot Pusher, 45° angled, single action
		250mm	295-050-260	295-051-260	
		300mm	295-052-260	295-053-260	
	5mm	170mm	295-048-265	295-049-265	Resano Grasping Forceps, straight, single action
		250mm	295-050-265	295-051-265	
		300mm	295-052-265	295-053-265	
	5mm	170mm	295-048-270	295-049-270	Suture Forceps, straight, conical shape, double action
		250mm	295-050-270	295-051-270	
		300mm	295-052-270	295-053-270	
	5mm	170mm	295-048-280	295-049-280	Gemini Forceps, curved, smooth, double action
		250mm	295-050-280	295-051-280	
		300mm	295-052-280	295-053-280	

All instruments shown on this page are also available with a working length of 450mm upon request.

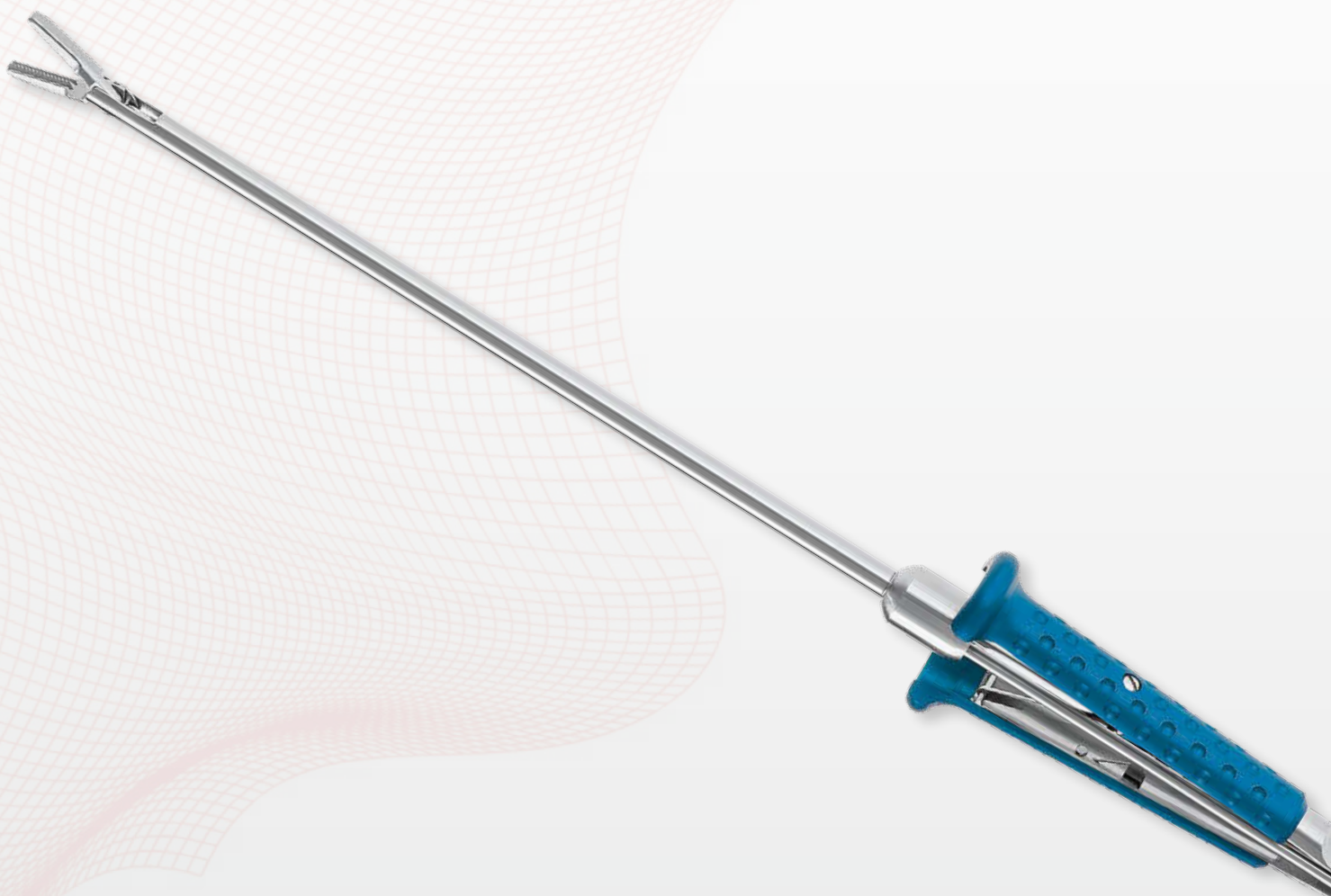
MICS CARDIO VASCULAR SPECIAL INSTRUMENTS



BLUE HANDLE



Ø Shaft	Working length	Order number	Description
4mm	170mm	295-039-300	Valve Rongeur, oval, 4mm, straight, single action
	250mm	295-040-300	
	300mm	295-041-300	
4mm	170mm	295-039-301	Valve Rongeur, oval, 4mm, 30° angled, single action
	250mm	295-040-301	
	300mm	295-041-301	



All instruments shown on this page are also available with a working length of 450mm upon request.

CLAMPS

DISSECTOR CLAMPS

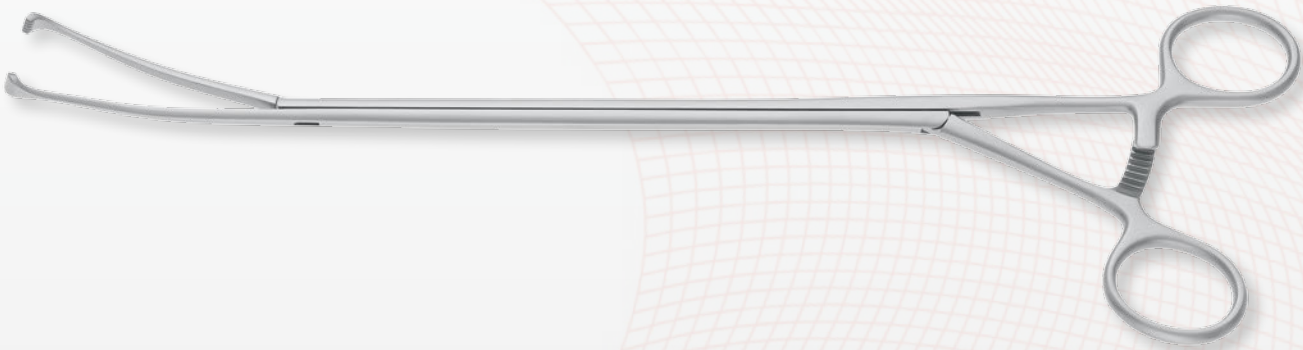


Order number	Working length	Total length	Shaft Ø
295-100-230	230mm	340mm	7mm

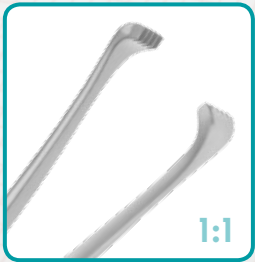


left curved

ALLIS CLAMPS



Order number	Working length	Total length	Shaft Ø	Jaw width
295-310-100	230mm	330mm	7mm	6mm



left curved

CLAMPS

FOERSTER CLAMPS

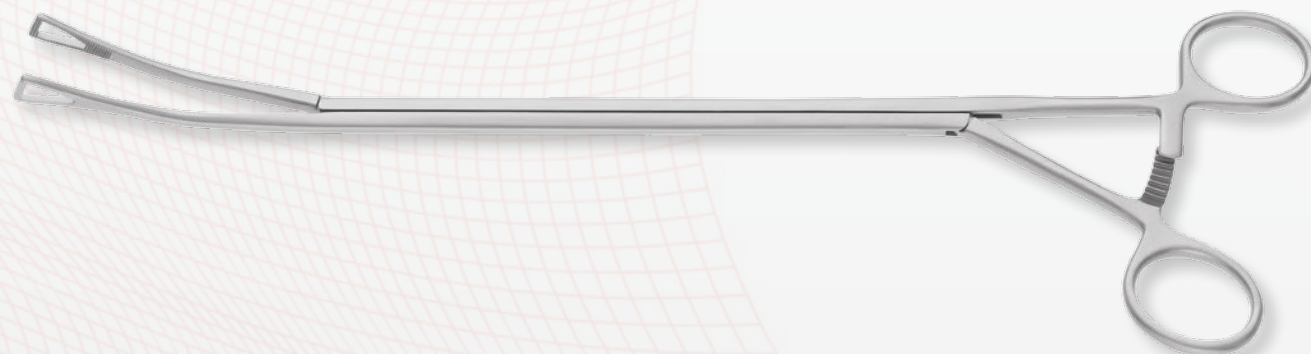


Order number	Working length	Total length	Shaft Ø
295-150-012	230mm	335mm	7mm
295-150-020	240mm	340mm	10mm



left curved, oval shape

DUVAL CLAMPS



Order number	Working length	Total length	Shaft Ø	Jaw width
295-310-001	230mm	330mm	10mm	10mm
295-310-002	235mm	330mm	10mm	25mm



left curved, triangular shape

CLAMPS

DEBAKEY CLAMPS, WITH RATCHET



Order number	Working length	Total length	Shaft Ø	Jaws	Jaw length
295-290-065	230mm	330mm	10mm	1x2	65mm
295-290-075	250mm	340mm	10mm	1x2	75mm
295-290-100	255mm	360mm	10mm	1x2	100mm
295-290-101	250mm	350mm	10mm	2x3	100mm



DEBAKEY COOLEY CLAMPS



Order number	Working length	Total length	Shaft Ø	With ratchet
295-290-300	240mm	345mm	10mm	✓
295-290-301	240mm	345mm	10mm	✗



left angled

DEBAKEY HARKEN CLAMPS, WITHOUT RATCHET



Order number	Working length	Total length	Shaft Ø	Teeth	Fig.
295-290-001	250mm	355mm	10mm	1x2	1
295-290-002	270mm	370mm	10mm	1x2	2

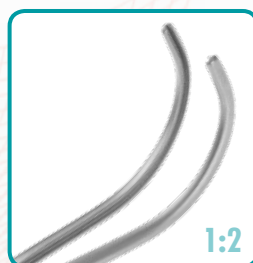


Fig. 1, left curved

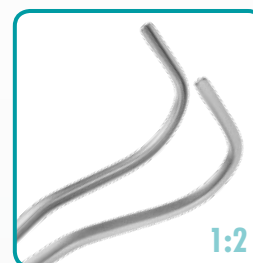
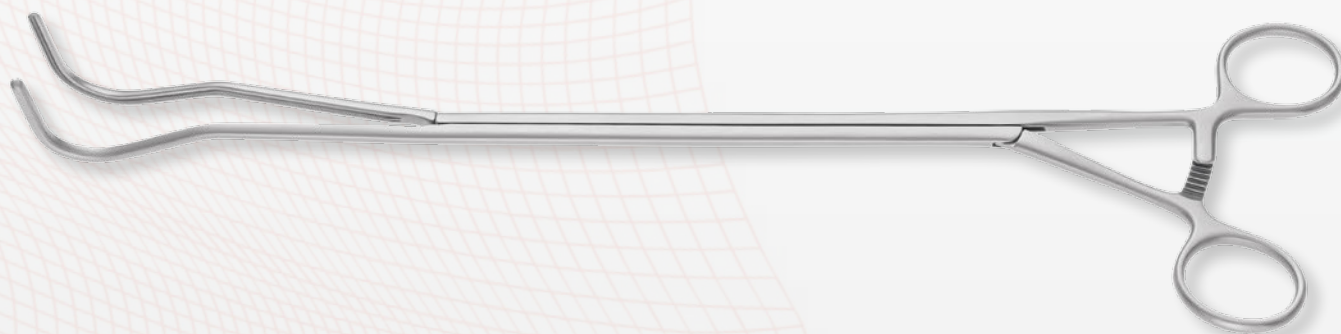


Fig. 2, left curved

DEBAKEY HARKEN CLAMPS, WITH RATCHET



Order number	Working length	Total length	Shaft Ø	Teeth	Fig.
295-290-010	250mm	355mm	10mm	1x2	1
295-290-012	270mm	370mm	10mm	1x2	2

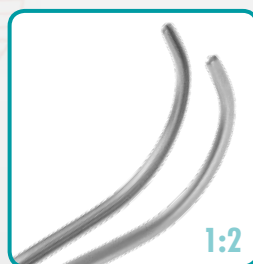


Fig. 1, left curved

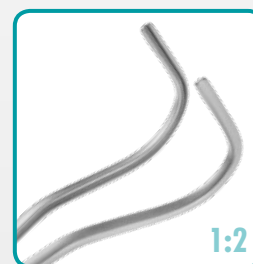
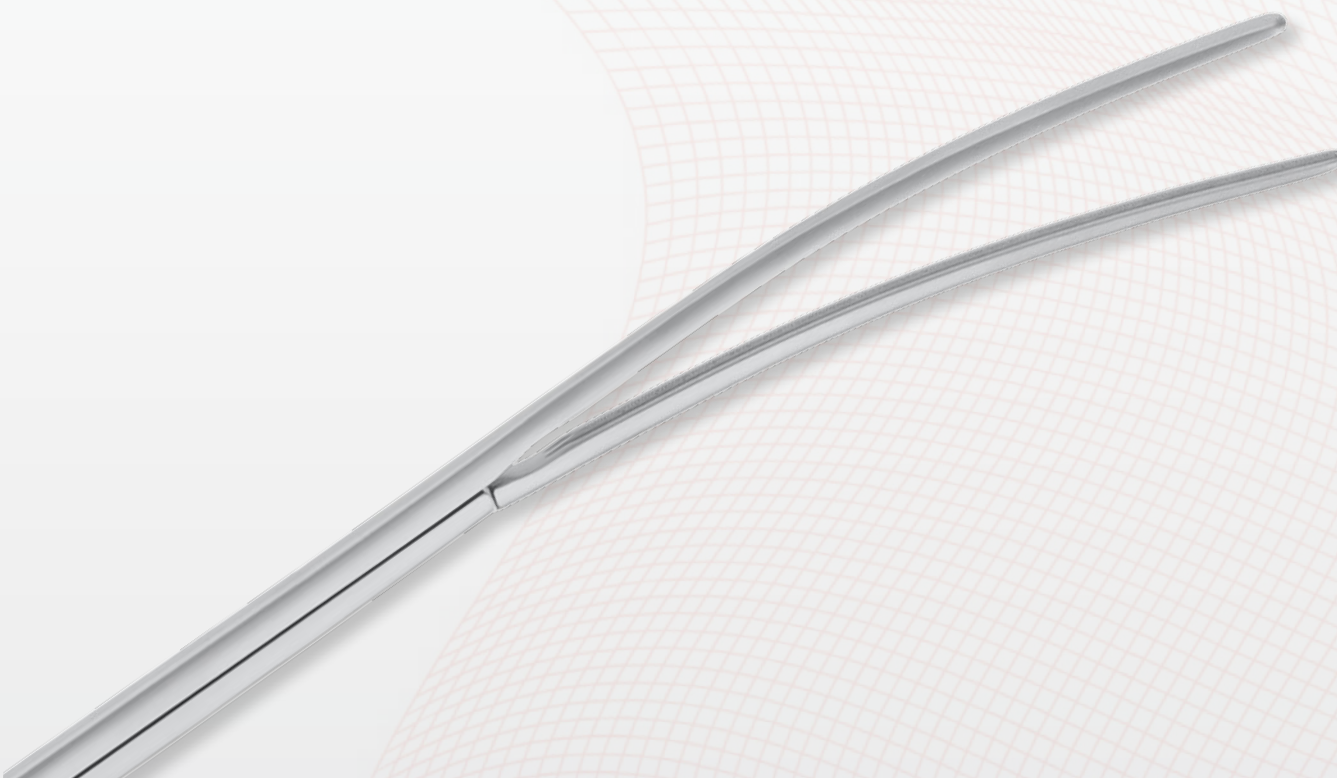


Fig. 2, left curved

VATS DEBAKEY D'AMICO CLAMPS, WITH RATCHET



Order number	Shape	Working length	Total length	Shaft $\varnothing$	Jaw length
295-290-200	straight	270mm	370mm	10mm	110mm
295-290-201	curved	270mm	370mm	10mm	110mm

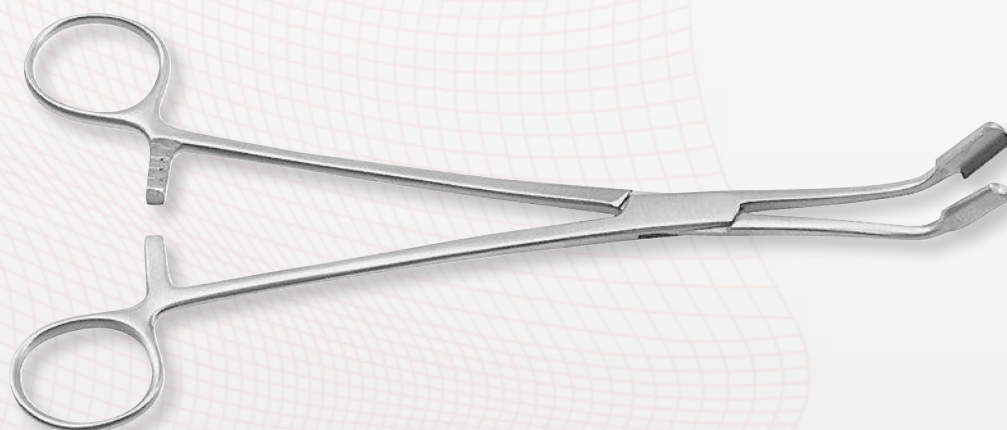


DEBAKEY ATRAUMA BULLDOG CLAMPS



Order number	Total length	Jaw length	Shape
140-120-085	85mm	35mm	straight
140-120-105	100mm	50mm	straight

JOHNS-HOPKINS BULLDOG CLAMP APPLIER



Order number	Total length	Shape
140-152-230	230mm	angled

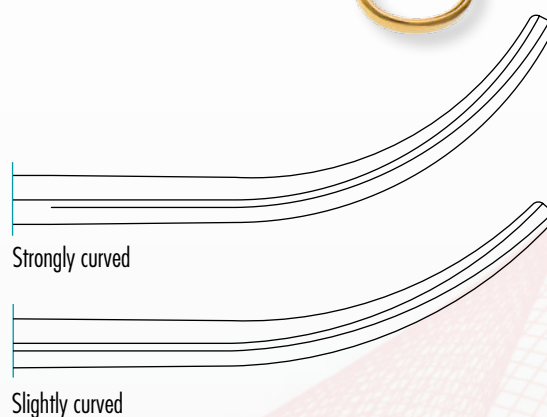
For more bulldog clamps please see our "RZ Bulldog Clamps Family" brochure.

SCISSORS

TC METZENBAUM SCISSORS



Order number	Description	Blade length	Total length
295-120-000	slightly curved, double action	70mm	325mm
295-120-001	strongly curved, double action	70mm	325mm
295-120-002	slightly curved, double action	70mm	365mm
295-120-003	strongly curved, double action	70mm	365mm



DISSECTING SCISSORS



Order number	Working length	Total length	Shaft Ø
295-123-180	180mm	285mm	5mm



slightly curved, single action

NEEDLE HOLDERS

TC SLIDER NEEDLE HOLDER



Order number	Working length	Total length	Shaft Ø	Jaws
295-180-000	210mm	345mm	7mm	straight
295-180-001	210mm	345mm	7mm	curved
295-180-002	210mm	345mm	10mm	straight
295-180-003	210mm	345mm	10mm	curved

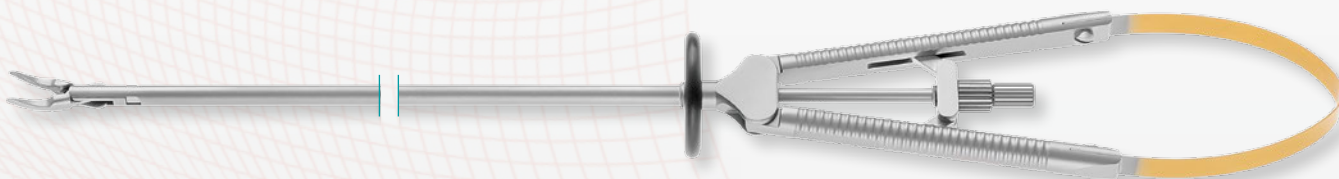


curved



straight

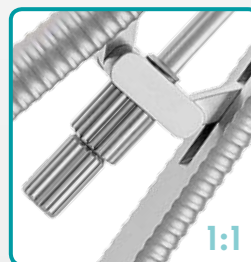
DIAMOND DUSTED ENDO NEEDLE HOLDER, WITH SPRING HANDLE



Order number	Total length	Working length	Shape
295-250-430	390mm	235mm	curved



diamond dusted



easy disassembling for optimal cleaning

MISCELLANEOUS RING HANDLE INSTRUMENTS

ANTERIOR DISC RONGEUR



Order number	Working length	Jaw width	Shape
250-103-280	280mm	3mm	straight
250-113-280	280mm	3mm	upward



upward



straight

CHITWOOD SUTURE CUTTER



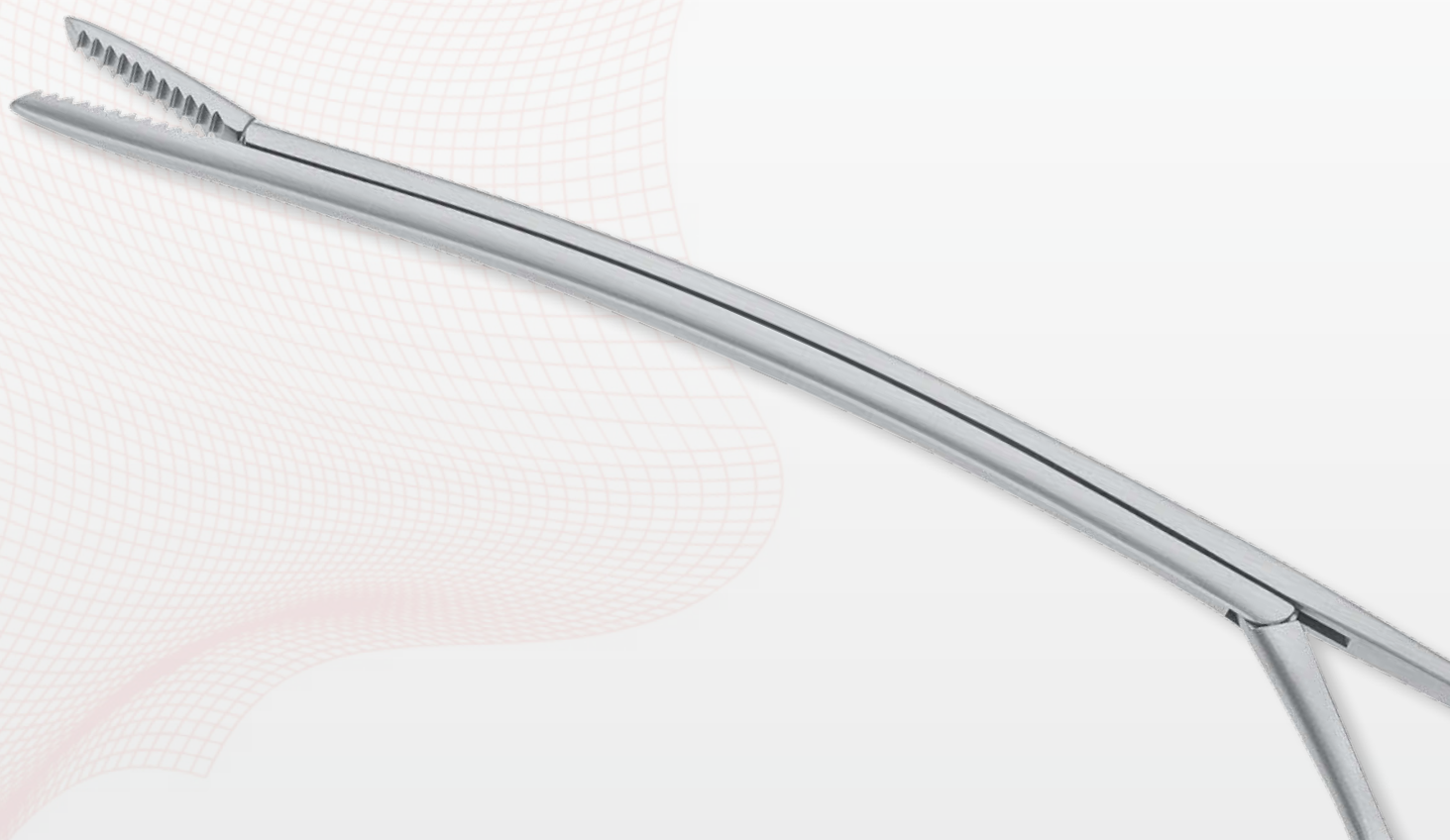
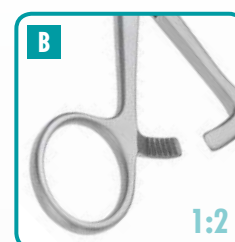
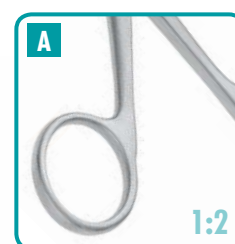
Order number	Working length	Shaft Ø
295-121-180	180mm	5mm
295-121-230	230mm	5mm
295-121-280	280mm	5mm



CHEST TUBE PASSER



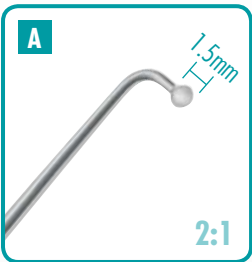
Order number	Working length	Total length	Shaft Ø	Type
295-080-150	160mm	250mm	10mm	A
295-080-170	155mm	240mm	10mm	B
295-080-280	280mm	355mm	10mm	A
295-080-281	280mm	355mm	10mm	B



NERVE AND VESSEL HOOK FOR VALVE SURGERY



Order number	Tip $\varnothing$	Tip length	Tip shape	Total length
295-000-001	1.5mm	4.5mm	A	350mm
295-000-002	1mm	5mm	B	350mm
295-000-003	1.5mm	9mm	B	350mm

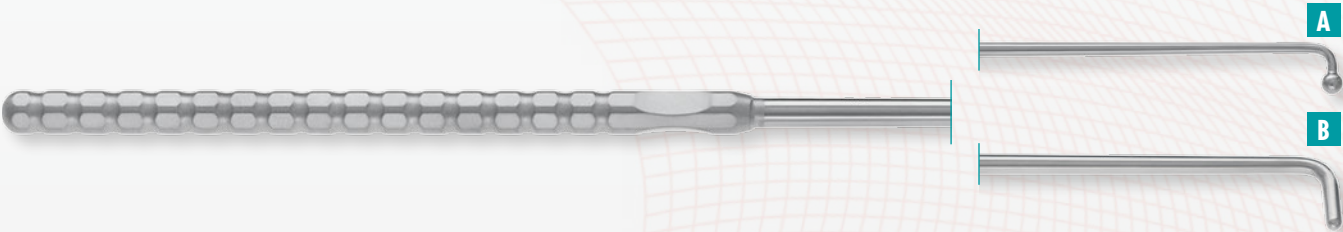


with probe



without probe

NERVE AND VESSEL HOOK FOR VALVE SURGERY



Order number	Tip $\varnothing$	Tip length	Tip shape	Total length
295-000-101	3.0mm	5mm	A	300mm
295-000-102	1.4mm	5mm	B	300mm
295-000-103	2.3mm	9mm	B	300mm



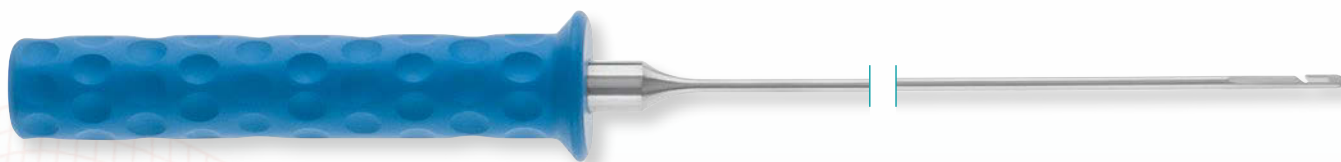
with probe



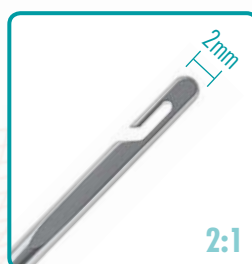
without probe

SUTURE CATCHERS

SUTURE CATCHER FOR VALVE SURGERY



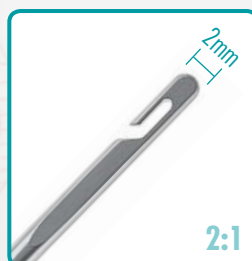
Order number	Tip width	Total length
295-000-010	2mm	350mm



SUTURE CATCHER FOR VALVE SURGERY



Order number	Tip width	Total length
295-000-110	2mm	320mm



KNOT PUSHER FOR VALVE SURGERY



Order number	Tip Ø	Total length
295-000-020	8mm	345mm



CARDIOPLEGIA NEEDLE



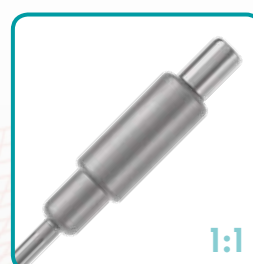
Order number	Total length	Needle Ø
295-165-002	310mm	2mm
295-165-003	310mm	3mm



MAGNETIC RETRIEVER



Order number	Total length
295-300-000	370mm



1:1

SUTURE RULER



Order number	Measuring range	Total length
295-100-350	0-60mm	430mm



1:1



1:1

MINI THORACOTOMY RETRACTOR, WITH DOUBLE HINGE

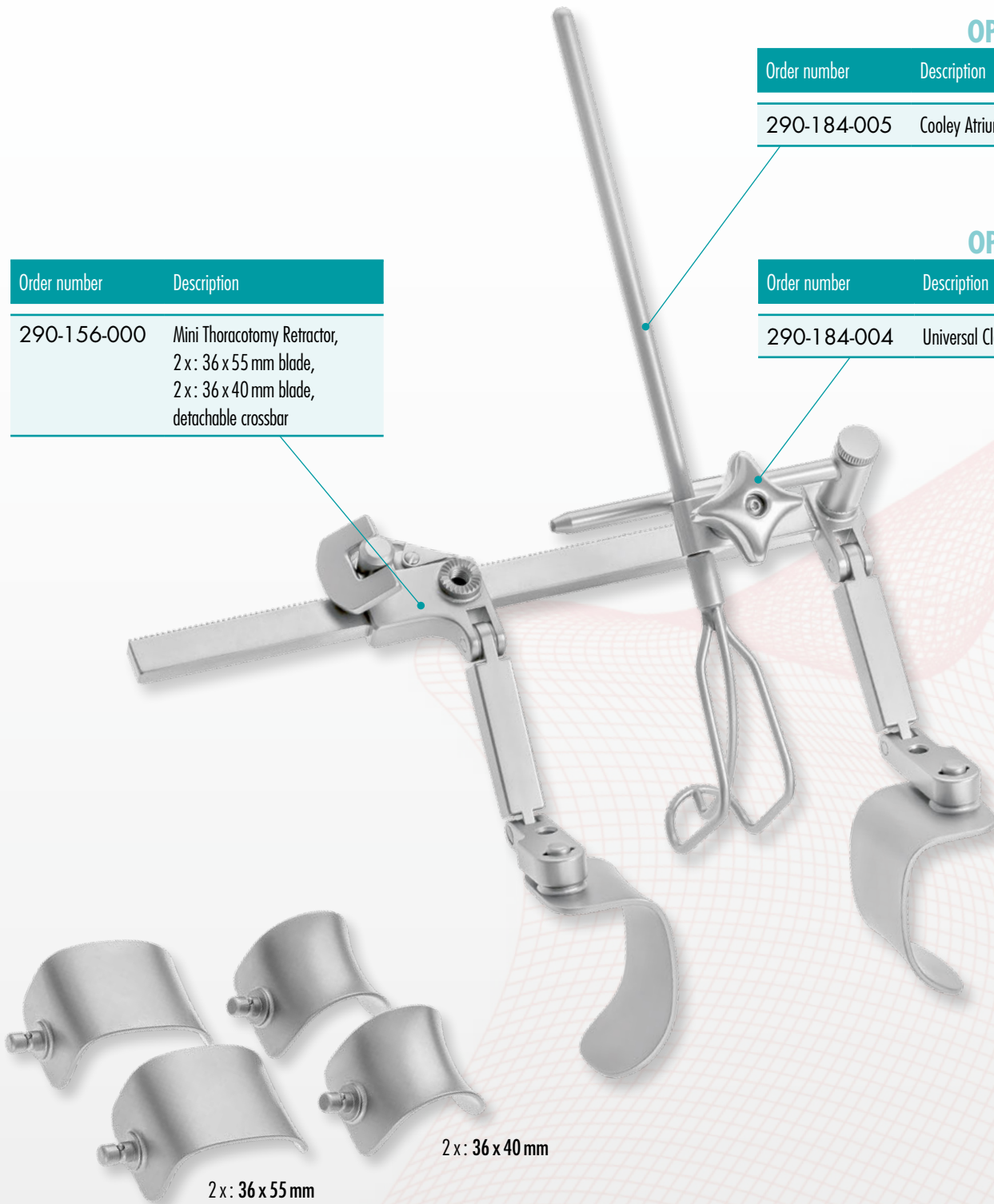
OPTIONAL

Order number	Description
290-184-005	Cooley Atrium Retractor*

OPTIONAL

Order number	Description
290-184-004	Universal Clamp*

Order number	Description
290-156-000	Mini Thoracotomy Retractor, 2 x: 36 x 55 mm blade, 2 x: 36 x 40 mm blade, detachable crossbar



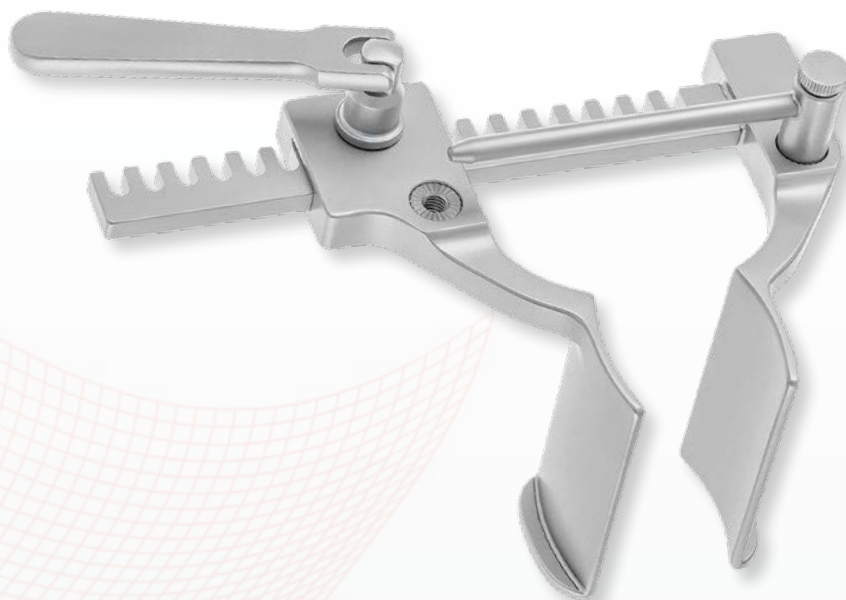
* Configuration example. For more accessories please see pages 24 & 25.

MINI THORACOTOMY RETRACTOR

Order number	Blade size
290-155-045	36 x 45 mm
290-155-060	36 x 60 mm
290-155-080	36 x 80 mm

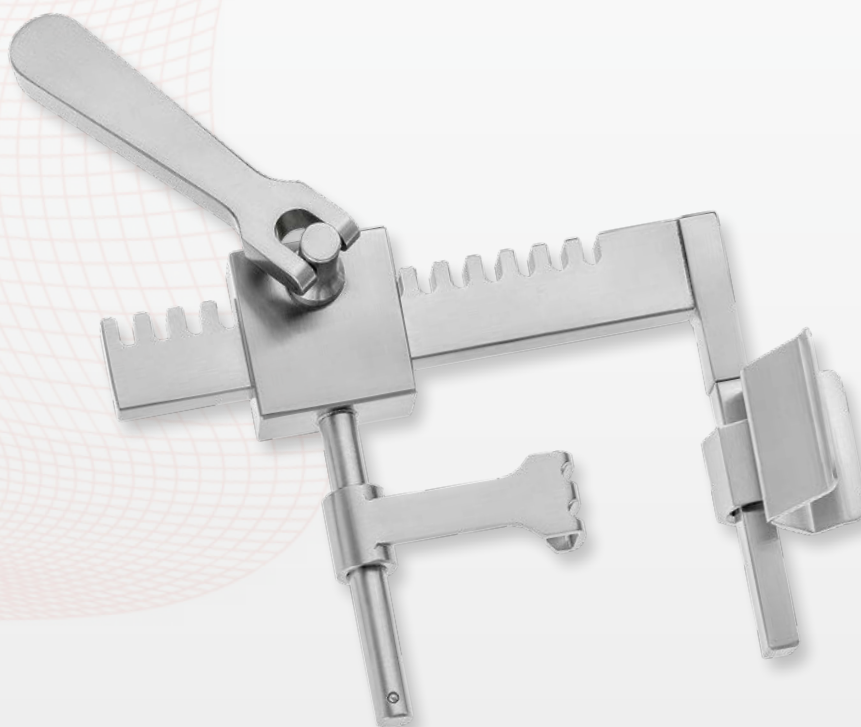


detachable crossbar



IMA MINI-STERNOTOMY RETRACTOR, COMPLETE

Order number	Description
290-184-030	120mm, U-blade 38mm, 2x french hook



For more retractors please see our "Cardiac Retractors" brochure.

RIBBON MICS VALVES, MALLEABLE



Order number	Description
290-184-008	Length 250mm, blades 75x25mm

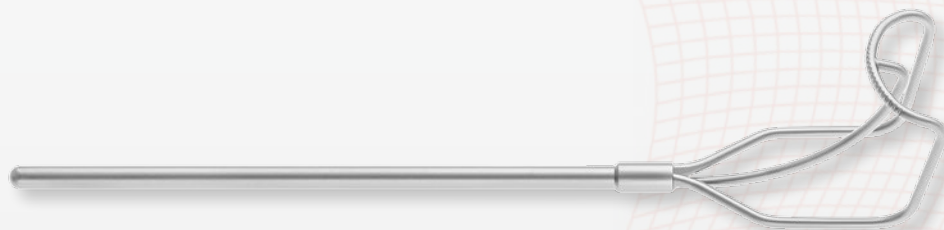


Order number	Description
290-156-003	Length 250mm, blades 65x18mm
290-156-004	Length 280mm, blades 95x18mm
290-156-005	Length 280mm, blades 95x22mm

COOLEY BLADE RETRACTOR



Order number	Size
290-184-005	62 x 25mm



Order number	Size
290-184-006	68 x 40mm



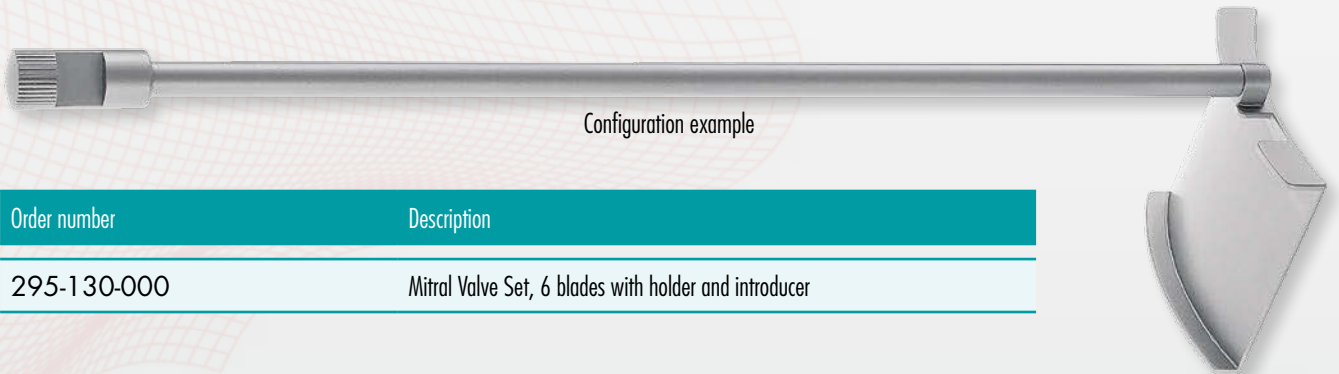
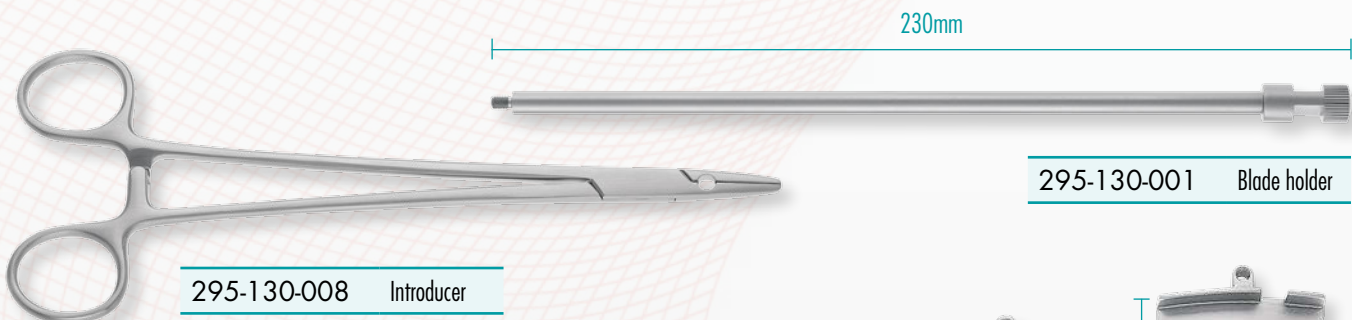
Order number	Size
290-184-007	74 x 50mm

UNIVERSAL CLAMP



Order number	Description
290-184-004	Universal Clamp with two rotatable interlocking brackets

MITRAL VALVE SET



Order number	Description
295-130-000	Mitral Valve Set, 6 blades with holder and introducer

CONE RETRACTOR



Order number	Total length	Teeth	Shape
170-782-160	160mm	3x4	blunt

RETRACTOR



Order number	Width	Total length	Description
170-975-160	16mm	200mm	malleable
170-975-190	19mm	200mm	malleable
170-975-250	25mm	200mm	malleable

SCALPEL HANDLES & BLADES



Order number	Working length	Description
110-116-133	360mm	Scalpel handle No. 3XXL

Order number	Description
110-200-011	Scalpel blade, Fig. 11, non-sterile, 100 pieces



Order number	Working length	Description
110-150-370	360mm	Scalpel handle for micro blades

Order number	Description
110-013-065	Scalpel blade, Fig. 65, sterile, 10 pieces

ROSS VENTRICULAR VENT



Order number	Ø	Used for
165-150-000	8mm	Adults

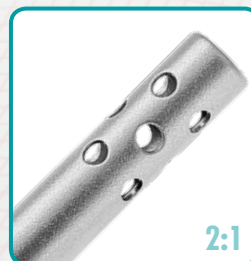
Order number	Ø	Used for
165-150-001	6.5mm	Children

Order number	Ø	Used for
165-150-002	5mm	Infants

MICS D'AMICO SUCTION TUBE



Order number	Working length	Total length	Shaft Ø
295-165-475	350mm	475mm	5mm



Suction tip

2:1

YANKAUER SUCTION TUBE



Order number	Working length	Total length	Shaft Ø
165-544-450	320mm	450mm	5mm



Suction tip, non-detachable

YANKAUER SUCTION TUBE, WITH FINGER STOP



Order number	Working length	Total length	Shaft Ø
165-544-435	300mm	435mm	5mm



Suction tip, non-detachable



Finger stop

LAPAROSCOPE



FULL HD

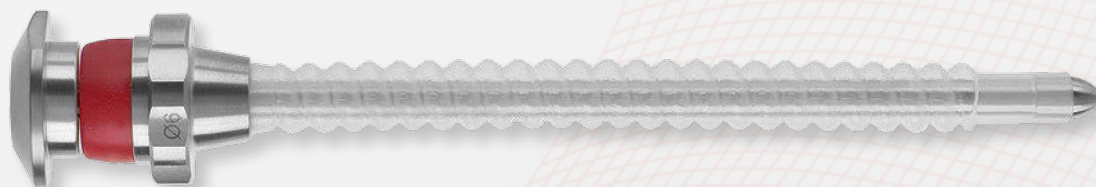
Order number	Working length	Total length	Ø Shaft	Direction of view	Color code
300-092-100	302mm	355mm	5.5mm	0°	green
300-092-130	302mm	355mm	5.5mm	30°	red
300-091-100	350mm	420mm	10mm	0°	green
300-091-130	350mm	420mm	10mm	30°	red

THORACOSCOPE



Order number	Working length	Total length	Ø Shaft	Direction of view	Color code
300-310-170	180mm	240mm	10mm	0°	green
300-330-170	180mm	240mm	10mm	30°	red

FLEXIBLE THORAX TROCAR SYSTEM



Order number	Working length	Ø	Color code
300-020-255	100mm	5.5mm	red
300-020-755	70mm	5.5mm	red

Order number	Working length	Ø	Color code
300-020-211	100mm	11mm	blue
300-020-711	70mm	11mm	blue

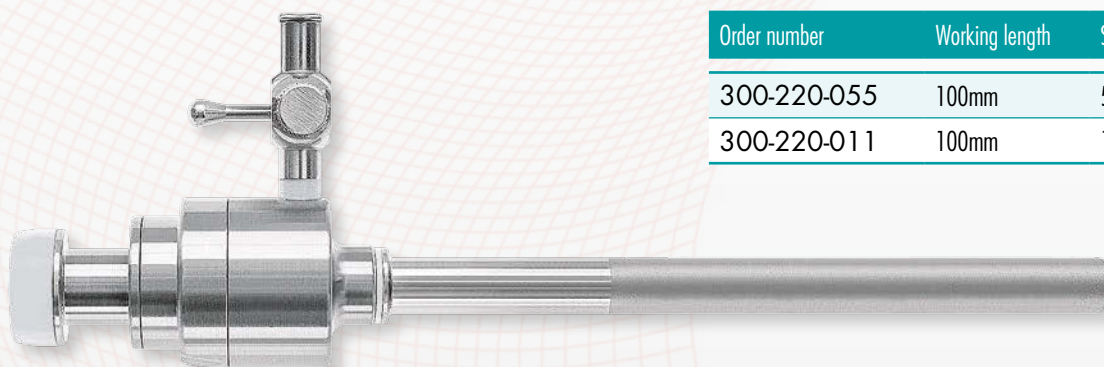
For more trocars and accessories please see our brochure "RZ Advanced Trocar Systems".

SiliPort TROCAR SYSTEM, WITH SILICON VALVE



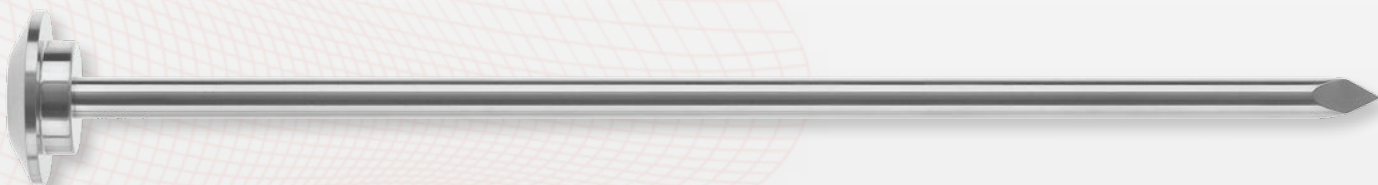
Order number	Working length	Shaft Ø	Color code
300-233-055	100mm	5.5mm	white
300-233-011	100mm	11mm	blue

MultiPort TROCAR SYSTEM



Order number	Working length	Shaft Ø	Color code
300-220-055	100mm	5.5mm	white
300-220-011	100mm	11mm	blue

STANDARD TROCAR



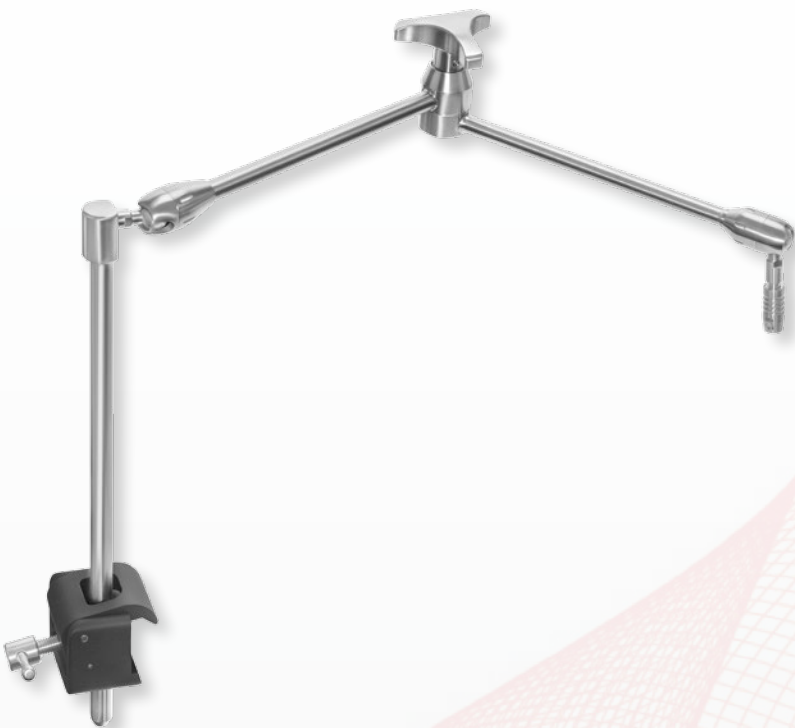
Order number	Tip shape	Ø
300-241-055	pyramidal	5.5mm
300-241-011	pyramidal	11mm

For more trocars and accessories please see our brochure "RZ Advanced Trocar Systems".

VATS/MICS SUPPORTER ARM SETS

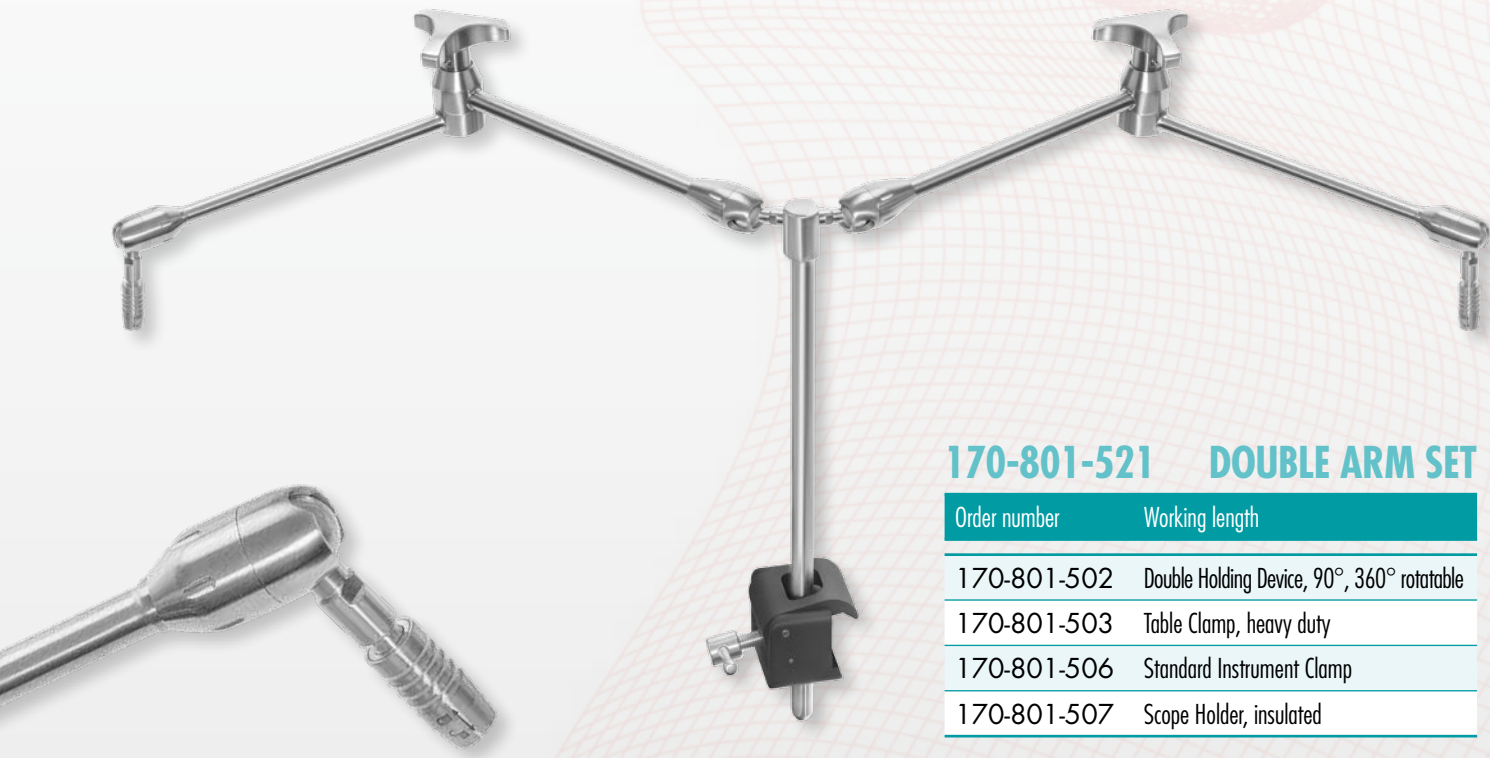
170-801-520 ONE ARM SET

Order number	Working length
170-801-501	Holding Device, 90°, 360° rotatable
170-801-503	Table Clamp, heavy duty
170-801-506	Standard Instrument Clamp
170-801-507	Scope Holder, insulated

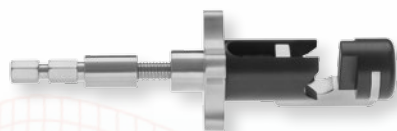


170-801-521 DOUBLE ARM SET

Order number	Working length
170-801-502	Double Holding Device, 90°, 360° rotatable
170-801-503	Table Clamp, heavy duty
170-801-506	Standard Instrument Clamp
170-801-507	Scope Holder, insulated



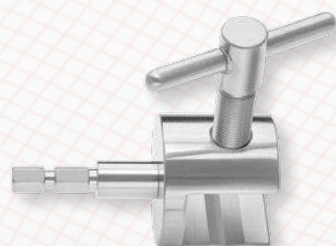
VATS/MICS SUPPORTER ARM ACCESSORIES



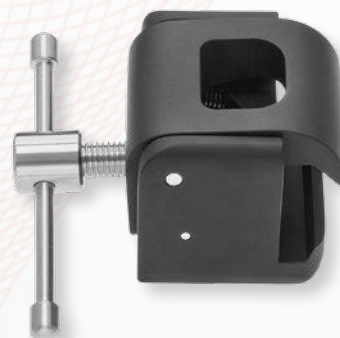
Order number	Description
170-801-507	Scope holder, insulated



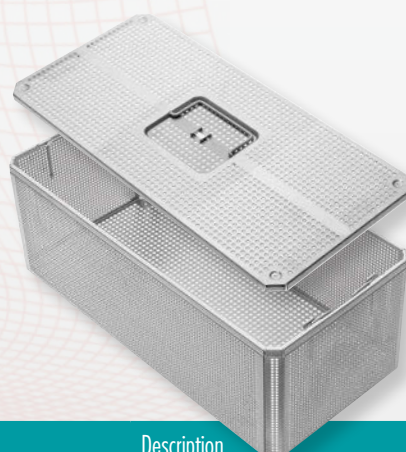
Order number	Description
170-801-506	Standard Instrument Clamp



Order number	Description
170-801-504	Universal Retractor Holder

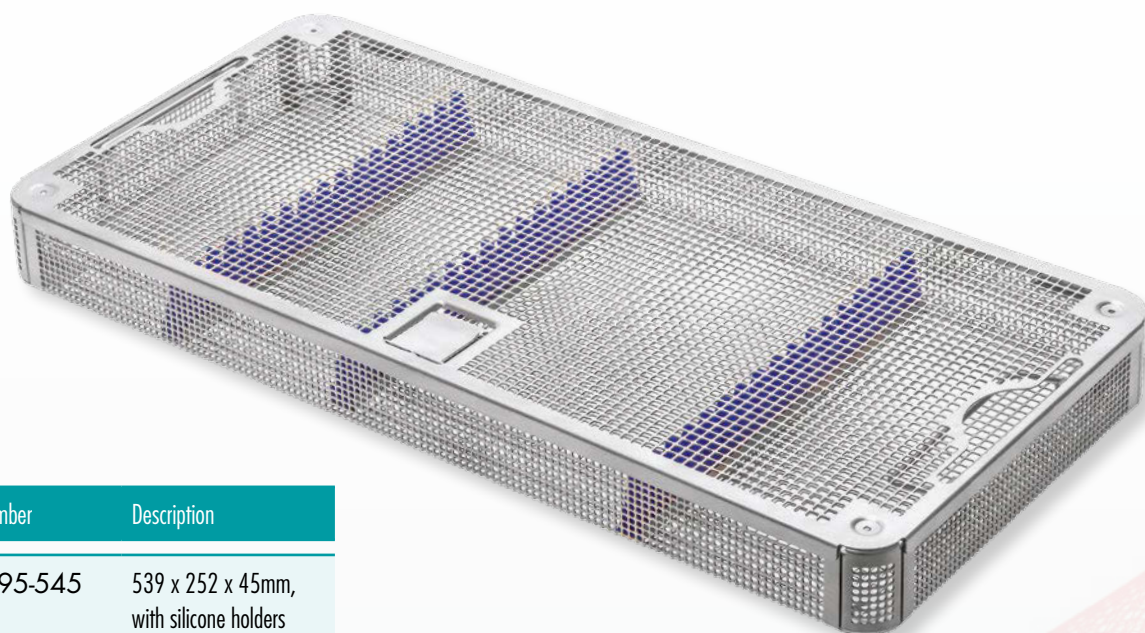


Order number	Description
170-801-503	Table Clamp, heavy duty



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

1/1 STAINLESS STEEL TRAY, PERFORATED



Order number	Description
600-295-545	539 x 252 x 45mm, with silicone holders

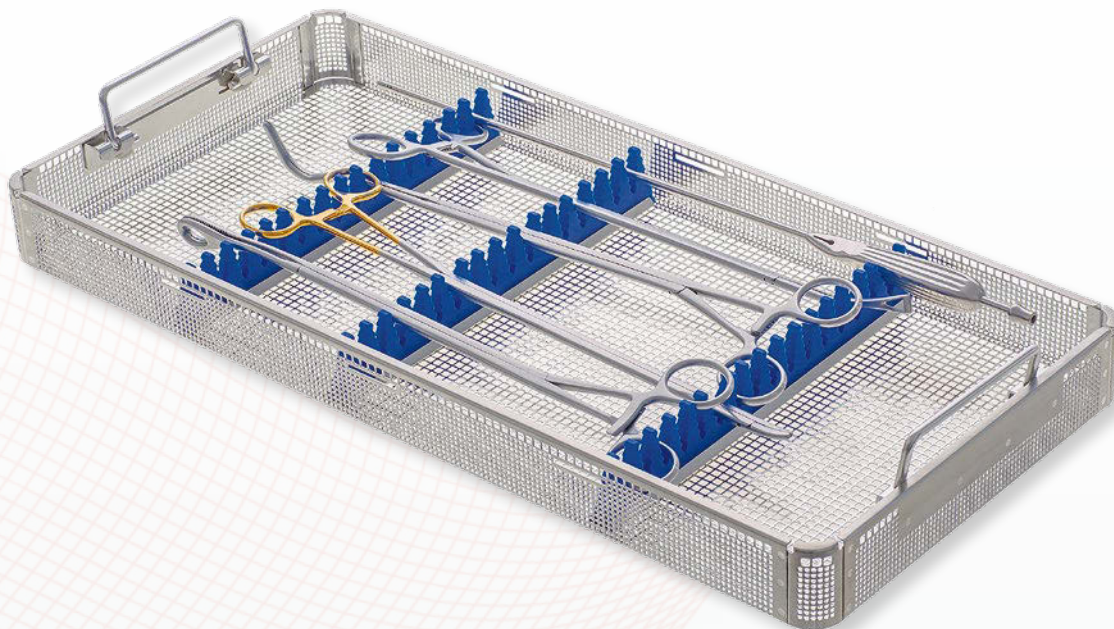
1/1 STERILIZATION CONTAINER, SAFETY MODEL



Order number	Dimensions
600-580-103	580 x 280 x 100mm
600-580-133	580 x 280 x 135mm

For more trays and containers please see our catalogue "Sterilization and Preparation" and our brochure "Advanced Safety Container".

VATS INSTRUMENT KITS WITH TRAYS AND CONTAINERS



295-900-900 LARGE KIT

Order number	Quantity	Description
295-290-100	1x	DeBakey Clamp, jaw length 100mm
295-290-065	1x	DeBakey Clamp, jaw length 65mm
295-290-075	1x	DeBakey Clamp, jaw length 75mm
295-310-100	1x	Allis Clamp
295-290-301	1x	DeBakey Cooley Clamp, without ratchet
295-290-001	1x	DeBakey Harken Clamp, Fig. 1
295-290-002	1x	DeBakey Harken Clamp, Fig. 2
295-150-020	1x	Foerster Clamp, shaft Ø 10mm
295-150-012	1x	Foerster Clamp, shaft Ø 7mm
295-310-001	1x	Duval Clamp, jaw width 10mm
295-310-002	1x	Duval Clamp, jaw width 25mm
295-120-002	1x	TC Metzenbaum Scissors, slightly curved
295-180-003	1x	TC Slider Needle Holder, shaft Ø 10mm, curved
165-544-450	1x	Yankauer Suction Tube, WL 320mm
165-544-435	1x	Yankauer Suction Tube, WL 300mm, finger stop
600-295-545	2x	Stainless Steel Tray, perforated, 539x252x45mm
600-580-133	1x	1/1 Sterilization Container, safety model, 580x280x135mm

295-900-901 SMALL KIT

Order number	Quantity	Description
295-290-100	1x	DeBakey Clamp, jaw length 100mm
295-150-020	1x	Foerster Clamp, shaft Ø 10mm
295-150-012	1x	Foerster Clamp, shaft Ø 7mm
295-310-001	1x	Duval Clamp, jaw width 10mm
295-120-002	1x	TC Metzenbaum Scissors, slightly curved
295-180-003	1x	TC Slider Needle Holder, shaft Ø 10mm, curved
165-544-450	1x	Yankauer Suction Tube, WL 320mm
600-295-545	1x	Stainless Steel Tray, perforated, 539x252x45mm
600-580-103	1x	1/1 Sterilization Container, safety model, 580x280x100mm

AIRFLOW A3H INSUFFLATOR SET

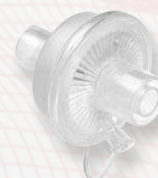


Order number	300-900-031
Max. gasflow	30L/min*
Heating unit	✓

ACCESSORIES INCLUDED IN SET



300-902-006 Wrench Set (SW30/SW14)



300-902-007 Sterile Filter (1 pcs.)



300-902-005 Standard Silicone Tube



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



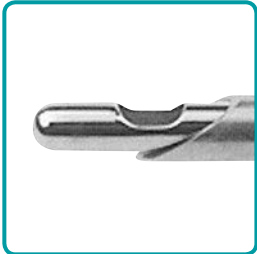
300-902-003 CO₂ High Pressure Tube



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

* Also available with other gasflows. For more details please see our "RZ Device Family" brochure.

INSUFFLATION NEEDLE BY VERESS



blunt stylet safety mechanism

	80mm	100mm	120mm	150mm	170mm	200mm
Matt, Ø 2mm	300-195-080	300-195-100	300-195-120	300-195-150	300-195-170	300-195-200
Polished, Ø 2.7mm, High-Flow	–	300-195-300	300-195-320	300-195-350	300-195-370	–

CO₂ BOTTLE



Order number	Description
300-902-008	CO ₂ Bottle, 0.75kg, empty, GER connector

STERILE FILTER



Order number	Description
300-902-007	Sterile Filter, with LL-Connector, 50pcs.

3 CHIP HD-CAMERA F4



Full HD recording function



USB pen drive included



Ergonomic high-end camera head included

FULL HD

Order number	Description
300-001-804	3 Chip HD-Camera F4

We are proud to introduce our new milestone. The brand new F4 camera system combines our F3 system with a Full HD recording function. Pictures and videos can be stored easily on a USB pen drive. Recorded data can be used for an extensive documentation of the procedures.

Delivery contains:

- Main unit
- Camera head
- HDMI-DVI cable
- HDMI cable
- S-Video cable
- Mains cable
- User manual

Features:

- 3 Chip HD-Camera with latest MOS technology for brilliant picture quality
- Pure Natural Colors technology
- Multitude of digital video outputs for best possible picture transmission to medical grade monitors
- Ergonomic camera head with 3 programmable remote control buttons
- User-friendly multilingual menu allows a large variety of setups for individual procedures and surgeons preferences
- Full HD 60fps video recording
- Full HD image saving
- USB pen drive included
- Boost function
- On-screen-menu
- 3 user settings storable
- 2.5x digital zoom
- Freeze function
- Text generator (optional with keyboard)

ACCESSORIES FOR HD-CAMERA F4



FULL HD

300-001-802 High-End 3-Chip Camera Head
(included) Full HD 1920 x 1080p



300-001-616 Title generator keyboard, waterproof
(optional) IP68, US-Layout, USB Connector,
cable 1.8m, Color: grey,
305x140x15mm, 600gr.



300-001-610 Footswitch for HD Cameras,
(optional) cable length: 2m

Technical data

Camera head	Aspect ratio: 16:9
	Image sensor: 3 MOS
	Immersible (using the attached cap)
System	Image resolution: Full HD 1920 x 1080p
	TV resolution: > 1000 lines
	Sensitivity: < 3 lux (1/1.4)
	White balance automatically, with data hold shutter speed: 1/50 (1/60) to 1/100.000 sec
	Power supply: 100/240 VAC, 50-60 Hz
	Power consumption: 20W
	Fuses: 2 Fine fuses, 5x20 mm, delay acting 3,15 AH (I=1500A)

Technical data

Video recording	Video format: Full HD 1920x1080p/Mpeg4 (H.264 Codec)/Frame rate: 60fps Image format: JPG (1920x1080)
Video out	2 x HD SDI
	1 x HDMI / DVI
	1 x YPbPr (Component)
	1 x Y/C (Pal / NTSC)
	1 x CVBS (Pal / NTSC)
Standard	Protection class: I; Application part: Type BF
	IEC 601-1, EN 60601-1C; classification acc. 93/42/EEC: I
Dimensions	Control unit: 380 x 120 x 360 mm (WxHxD); 11 kg
	Camera head: Ø 38.5mm, length: 81mm, 145g

LUMEN LED 3 – HIGH INTENSITY LIGHT SOURCE



Order number	Description
300-900-300	LUMEN LED 3 High Intensity Light Source

PHASER® TECHNOLOGY

Latest PHASER® Technology for unsurpassed medical lighting. Excellent light sources are characterized by high color rendering, high luminance and a very low ultraviolet and infrared radiation. With the LUMEN LED 3 light source RZ Medizintechnik offers the latest technology in medical lighting, Made in Germany. Whether the light source is used with modern head lights or in endoscopic surgeries, the new PHASER® technology always generates enough light for meaningful pictures.

Features:

- More than 10.000h lamp lifetime
- Latest PHASER® – Technology
- Waterproof touch control panel
- High color rendering
- High luminance
- Daylight color temperature
- Low noise level
- No UV or IR light
- Low power consumption
- Automatic light control
- Adjustable output intensity

Delivery contains:

- Main unit
- BNC cable
- Mains cable
- User manual

Technical data	
Mains voltage	100-240 VAC, 50-60 Hz
Power consumption	300W
Mains fuses	2 Fine fuses, 5x20mm
LED Lifetime	> 10.000h
Color temperature	6000 – 6500° K
Connections	Light guide STORZ
Video-IN terminal	1 x VHS (BNC)
Service	1 x RJ45
Storage temperature	- 20°C to +60°C
Operation temperature	+10°C to +40°C
Relative humidity (Storage)	10% to 90%
Relative humidity (Operation)	30% to 75%
Atmospheric pressure (Storage)	600 mbar to 1300 mbar
Atmospheric pressure (Operation)	700 mbar to 1060 mbar
Classification / Conformity	1 / BF
Test according to	IEC 601-1ff, EN 60601-1ff
CE marking according to	MDD 93/42/EEC

NOTES



A series of horizontal lines for writing notes, overlaid with a faint, wavy, grid-like pattern in the background.

