



Strategic Business Holdings, Inc.

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100% made in Germany

VATS / MICS

*Instruments for Video Assisted Thoracoscopic Surgery
& Minimal Invasive Cardiac Surgery Solutions*



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)



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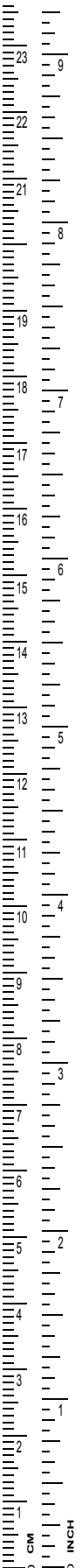
Handle colour coding: black

Cleaning connector: axial



Article No.	Working length	Shaft	Description
SB 02-73-021-S	170 mm	5.0 mm	<i>METZENBAUM Scissors straight, single-action</i>
SB 02-73-021-M	250 mm	5.0 mm	
SB 02-73-021-L	300 mm	5.0 mm	
SB 02-73-022-S	170 mm	5.0 mm	<i>METZENBAUM Scissors straight, double-action</i>
SB 02-73-022-M	250 mm	5.0 mm	
SB 02-73-022-L	300 mm	5.0 mm	
SB 02-73-001-S	170 mm	5.0 mm	<i>METZENBAUM Scissors 15° curved, double-action</i>
SB 02-73-001-S	250 mm	5.0 mm	
SB 02-73-001-S	300 mm	5.0 mm	
SB 02-73-003-S	170 mm	5.0 mm	<i>METZENBAUM Scissors 30° curved, double action</i>
SB 02-73-003-S	250 mm	5.0 mm	
SB 02-73-003-S	300 mm	5.0 mm	
SB 02-73-004-S	170 mm	5.0 mm	<i>METZENBAUM Scissors 70° curved, double-action</i>
SB 02-73-004-S	250 mm	5.0 mm	
SB 02-73-004-S	300 mm	5.0 mm	
SB 02-73-025-S	170 mm	5.0 mm	<i>METZENBAUM Scissors 15° curved, double-action</i>
SB 02-73-025-S	250 mm	5.0 mm	
SB 02-73-025-S	300 mm	5.0 mm	
SB 02-73-005-S	170 mm	5.0 mm	<i>JAMESON Scissors with tenotomy tip, 15° curved</i>
SB 02-73-005-M	250 mm	5.0 mm	
SB 02-73-005-L	300 mm	5.0 mm	
SB 02-73-005-S	170 mm	3.5 mm	<i>POTTS Scissors 45° upward, single-action</i>
SB 02-73-005-M	250 mm	3.5 mm	
SB 02-73-005-L	300 mm	3.5 mm	
SB 02-73-023-S	170 mm	3.5 mm	<i>POTTS Scissors 90° upward, single-action</i>
SB 02-73-023-M	250 mm	3.5 mm	
SB 02-73-023-L	300 mm	3.5 mm	
SB 02-73-006-S	170 mm	3.5 mm	<i>POTTS Scissors 125° upward, single-action</i>
SB 02-73-006-M	250 mm	3.5 mm	
SB 02-73-006-L	300 mm	3.5 mm	
SB 02-73-024S	170 mm	5.0 mm	<i>POTTS Scissors 125° upward, single-action</i>
SB 02-73-024-M	250 mm	5.0 mm	
SB 02-73-024-L	300 mm	5.0 mm	

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





VATS / MICS - Needle Holders



Handle colour coding: gold orange

Cleaning connector: axial



	Article No.	Working length	Shaft	Description
	SB 02-73-026-S	170 mm	3.5 mm	<i>Mini needle holder 2 x 6 mm straight, TC, with ratchet</i>
	SB 02-73-026-M	250 mm	3.5 mm	
	SB 02-73-026-L	300 mm	3.5 mm	
	SB 02-73-027-S	170 mm	3.5 mm	<i>Mini needle holder 2 x 6 mm curved, TC, with ratchet</i>
	SB 02-73-027-M	250 mm	3.5mm	
	SB 02-73-027-L	300 mm	3.5 mm	
	SB 02-73-030-S	170 mm	5.0 mm	<i>Needle holder 2 x 8 mm straight, TC, with ratchet</i>
	SB 02-73-030-S	250 mm	5.0 mm	
	SB 02-73-030-S	300 mm	5.0 mm	
	SB 02-73-009-S	170 mm	5.0 mm	<i>Needle holder 3 x 10 mm straight, TC, with ratchet</i>
	SB 02-73-009-S	250 mm	5.0 mm	
	SB 02-73-009-S	300 mm	5.0 mm	
	SB 02-73-010-S	170 mm	5.0 mm	<i>Needle holder 3 x 10 mm left curved, TC, with ratchet</i>
	SB 02-73-010-S	250 mm	5.0 mm	
	SB 02-73-010-S	300 mm	5.0 mm	
	SB 02-73-028-S	170 mm	5.0 mm	<i>Needle holder 3 x 10 mm right curved, TC, with ratchet</i>
	SB 02-73-028-S	250 mm	5.0 mm	
	SB 02-73-028-S	300 mm	5.0 mm	
	SB 02-73-011-S	170 mm	5.0 mm	<i>RYDER Needle holder 1 x 8 mm straight, TC, with ratchet</i>
	SB 02-73-011-M	250 mm	5.0 mm	
	SB 02-73-011-L	300 mm	5.0 mm	
	SB 02-73-029-S	170 mm	5.0 mm	<i>RYDER Needle holder 1 x 10 mm straight, TC, with ratchet</i>
	SB 02-73-029-M	250 mm	5.0 mm	
	SB 02-73-029-L	300 mm	5.0 mm	
	SB 02-73-023-S	170 mm	5.0 mm	<i>Needle holder 3 x 10 mm straight, with diamond dust coating, with ratchet</i>
	SB 02-73-023-M	250 mm	5.0 mm	
	SB 02-73-023-L	300 mm	5.0 mm	
	SB 02-73-031-S	170 mm	5.0 mm	<i>Needle holder 3 x 10 mm curved, with diamond dust coating, with ratchet</i>
	SB 02-73-031-M	250 mm	5.0 mm	
	SB 02-73-031-L	300 mm	5.0 mm	
	SB 02-73-033S	170 mm	5.0 mm	<i>CRILE WOOD Needle holder 2 x 8 mm left curved, TC</i>
	SB 02-73-033-M	250 mm	5.0 mm	
	SB 02-73-033-L	300 mm	5.0 mm	

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



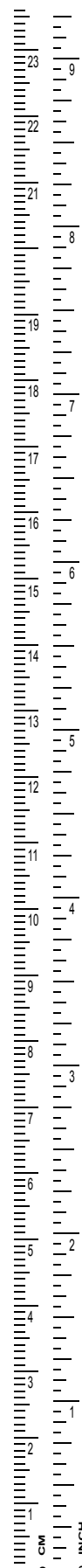
Handle colour coding: titanium blue

Cleaning connector: axial



	Article No.	Working length	Shaft	Description
	SB 02-73-013-S	170 mm	5.0 mm	<i>DEBAKEY Grasping forceps 1 x 2 teeth, 1.5 x 10 mm, double-action</i>
	SB 02-73-013-M	250 mm	5.0 mm	
	SB 02-73-013-L	300 mm	5.0 mm	
	SB 02-73-014-S	170 mm	5.0 mm	<i>DEBAKEY Grasping forceps 1 x 2 teeth, 1.5 x 14 mm, 45° upward, single-action</i>
	SB 02-73-014-M	250 mm	5.0 mm	
	SB 02-73-014-L	300 mm	5.0 mm	
	SB 02-73-015-S	170 mm	5.0 mm	<i>DEBAKEY Grasping forceps 1 x 2 teeth, 2.8 x 10 mm, double-action</i>
	SB 02-73-015-M	250 mm	5.0 mm	
	SB 02-73-015-L	300 mm	5.0 mm	
	SB 02-73-016-S	170 mm	5.0 mm	<i>RESANO Grasping forceps, single-action</i>
	SB 02-73-016-M	250 mm	5.0 mm	
	SB 02-73-016-L	300 mm	5.0 mm	
	SB 02-73-017-S	170 mm	5.0 mm	<i>DEBAKEY Grasping forceps 3 x 2 teeth, 4.8 x 10 mm, double-action</i>
	SB 02-73-017-M	250 mm	5.0 mm	
	SB 02-73-017-L	300 mm	5.0 mm	
	SB 02-73-034-S	170 mm	5.0 mm	<i>DEBAKEY Grasping Forceps 1 x 2 teeth, 1.5 x 11 mm, straight, single-action</i>
	SB 02-73-034-M	250 mm	5.0 mm	
	SB 02-73-034-L	300 mm	5.0 mm	
	SB 02-73-035-S	170 mm	5.0 mm	<i>DeBAKEY Grasping Forceps 1 x 2 teeth, 1.5 x 14 mm, 45° sideward angled, single-action</i>
	SB 02-73-035-M	250 mm	5.0 mm	
	SB 02-73-035-L	300 mm	5.0 mm	
	SB 02-73-036-S	170 mm	5.0 mm	<i>DEBAKEY Grasping Forceps 1 x 2 teeth, 2.8 x 14 mm, 45° sideward angled, double-action</i>
	SB 02-73-036-M	250 mm	5.0 mm	
	SB 02-73-036-L	300 mm	5.0 mm	
	SB 02-73-020-S	170 mm	5.0 mm	<i>Knot pusher, 45° upward, single-action</i>
	SB 02-73-020-M	250 mm	5.0 mm	
	SB 02-73-020-L	300 mm	5.0 mm	
	SB 02-73-043-S	170 mm	5.0 mm	<i>Suture forceps, conical jaw, 8 mm, double-action</i>
	SB 02-73-043-M	250 mm	5.0 mm	
	SB 02-73-043-L	300 mm	5.0 mm	
	SB 02-73-053-S	170 mm	5.0 mm	<i>Gemini forceps, curved, smooth, double action</i>
	SB 02-73-053-M	250 mm	5.0 mm	
	SB 02-73-053-L	300 mm	5.0 mm	

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





VATS / MICS - Special Instruments



Handle colour coding: gold

Cleaning connector: axial

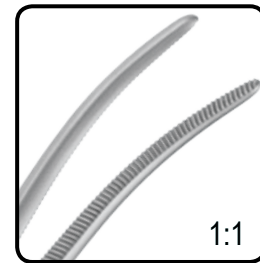


	Article No.	Working length	Shaft	Description
	SB 02-73-008-S	170 mm	5.0 mm	<i>Clip applying forceps medium, for ligating clips</i>
	SB 02-73-008-M	250 mm	5.0 mm	
	SB 02-73-008-L	300 mm	5.0 mm	
	SB 02-73-019-S	170 mm	5.0 mm	<i>GEMINI grasping forcep curved, double-action</i>
	SB 02-73-019-M	250 mm	5.0 mm	
	SB 02-73-019-L	300 mm	5.0 mm	
	SB 02-73-037-S	170 mm	4.0 mm	<i>Valve rongeur oval jaw 4 mm, straight, single-action</i>
	SB 02-73-037-S	250 mm	4.0 mm	
	SB 02-73-037-S	300 mm	4.0 mm	
	SB 02-73-038-S	170 mm	4.0 mm	<i>Valve rongeur oval jaw 4 mm, 30° upward angled</i>
	SB 02-73-038-S	250 mm	4.0 mm	
	SB 02-73-038-S	300 mm	4.0 mm	
	SB 02-73-039-S	170 mm	5.0 mm	<i>Combination instrument grasping forceps, jaw distal, DEBAKEY 3 x 2 teeth – proximal TC inlet</i>
	SB 02-73-039-S	250 mm	5.0 mm	
	SB 02-73-039-S	300 mm	5.0 mm	
	SB 02-73-040-S	170 mm	5.0 mm	<i>Combination instrument, needle holder, straight jaw, distal TC inlet – proximal ligature scissors</i>
	SB 02-73-040-S	250 mm	5.0 mm	
	SB 02-73-040-S	300 mm	5.0 mm	
	SB 02-73-041-S	170 mm	5.0 mm	<i>Combination instrument needle holder, right, jaw distal TC inlet – proximal ligature scissors</i>
	SB 02-73-041-M	250 mm	5.0 mm	
	SB 02-73-041-L	300 mm	5.0 mm	
	SB 02-73-042-S	170 mm	5.0 mm	<i>Combination instrument needle holder, left, jaw distal TC inlet – proximal ligature scissors</i>
	SB 02-73-042-M	250 mm	5.0 mm	
	SB 02-73-042-L	300 mm	5.0 mm	
	SB 02-73-043-S	170 mm	5.0 mm	<i>Valve Rongeur, oval, 4mm, straight, single action</i>
	SB 02-73-043-M	250 mm	5.0 mm	
	SB 02-73-043-L	300 mm	5.0 mm	
	SB 02-73-044-S	170 mm	5.0 mm	<i>Valve Rongeur, oval, 4mm, 30° angled, single action</i>
	SB 02-73-044-M	250 mm	5.0 mm	
	SB 02-73-044-L	300 mm	5.0 mm	

DISSECTOR CLAMPS



Order number	Working length	Total length	Shaft Ø
SB 295100230	230mm	340mm	7mm

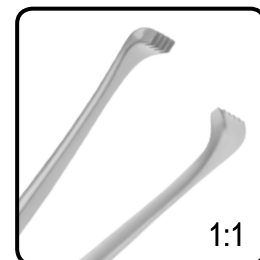


left curved

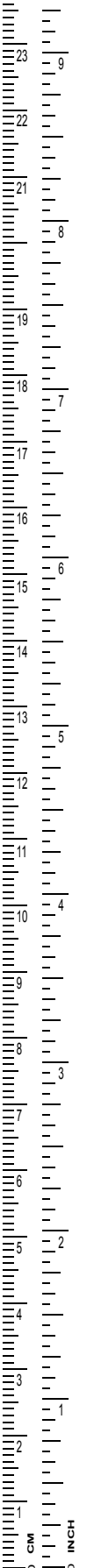
ALLIS CLAMPS



Order number	Working length	Total length	Shaft Ø	Jaw width
SB 295310100	230mm	330mm	7mm	6mm



left curved

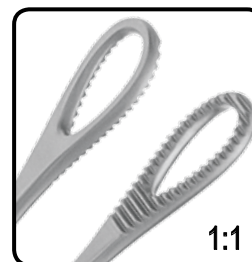




FOERSTER CLAMPS



Order number	Working length	Total length	Shaft Ø
SB 295150012	230mm	335mm	7mm
SB 295150020	240mm	340mm	10mm



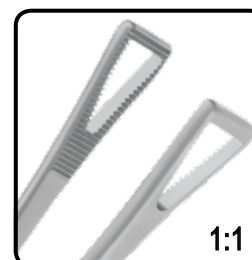
1:1

left curved, oval shape

DUVAL CLAMPS



Order number	Working length	Total length	Shaft Ø	Jaw width
SB 295310001	230mm	330mm	10mm	10mm
SB 295310002	235mm	330mm	10mm	25mm



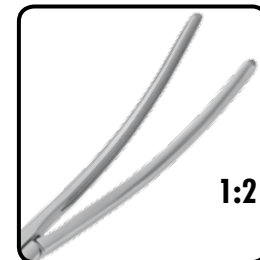
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left curved, triangular shape

DEBAKEY CLAMPS, WITH RATCHET



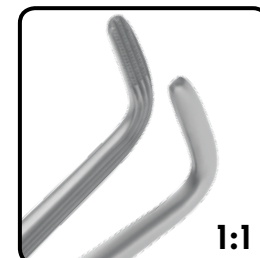
Order number	Working length	Total length	Shaft Ø	Jaws	Jaw length
SB 295290065	230mm	330mm	10mm	1x2	65mm
SB 295290075	250mm	340mm	10mm	1x2	75mm
SB 295290100	255mm	360mm	10mm	1x2	100mm
SB 295290101	250mm	350mm	10mm	2x3	100mm



DEBAKEY COOLEY CLAMPS



Order number	Working length	Total length	Shaft Ø	With ratchet
SB 295290300	240mm	345mm	10mm	✓
SB 295290301	240mm	345mm	10mm	×



left angled



DEBAKEY HARKEN CLAMPS, WITHOUT RATCHET



Order number	Working length	Total length	Shaft Ø	Teeth	Fig.
SB 295290001	250mm	355mm	10mm	1x2	1
SB 295290002	270mm	370mm	10mm	1x2	2

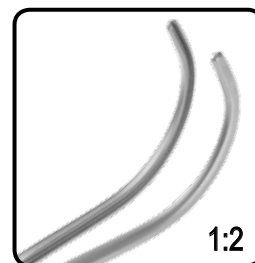


Fig. 1, left curved

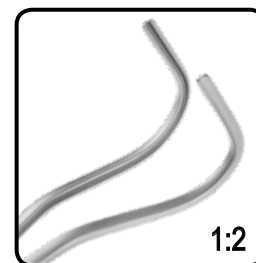
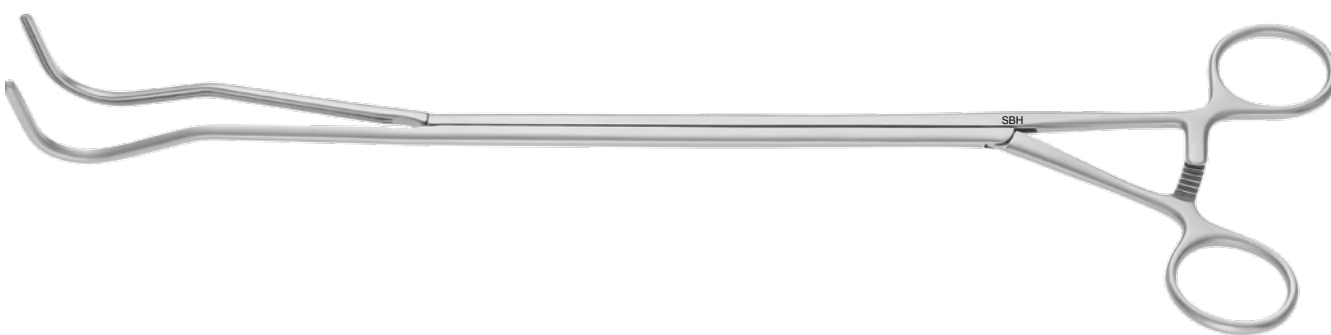


Fig. 2, left curved

DEBAKEY HARKEN CLAMPS, WITH RATCHET



Order number	Working length	Total length	Shaft Ø	Teeth	Fig.
SB 295290010	250mm	355mm	10mm	1x2	1
SB 295290012	270mm	370mm	10mm	1x2	2

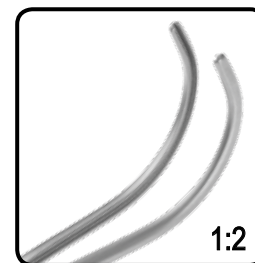


Fig. 1, left curved

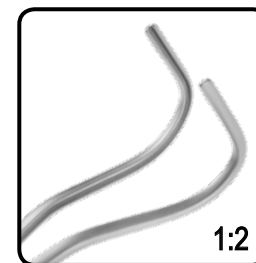


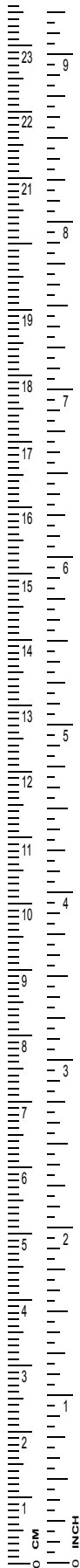
Fig. 2, left curved



VATS DEBAKEY D'AMICO CLAMPS, WITH RATCHET



Order number	Shape	Working length	Total length	Shaft Ø	Jaw length
SB 295290200	straight	270mm	370mm	10mm	110mm
SB 295290201	curved	270mm	370mm	10mm	110mm



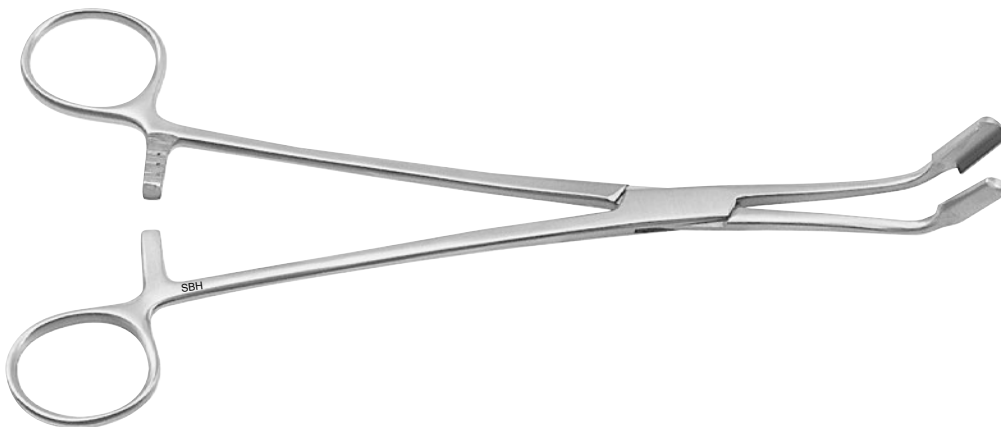


DEBAKEY ATRAUMA BULLDOG CLAMPS



Order number	Total length	Jaw length	Shape
SB 140120085	85mm	35mm	straight
SB 140120105	100mm	50mm	straight

JOHN-HOPKINS BULLDOG CLAMP APPLIER



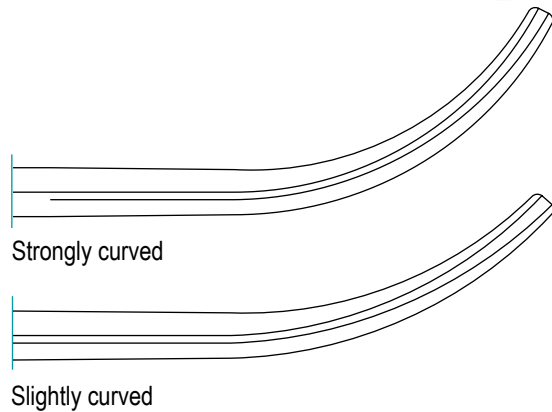
Order number	Total length	Shape
SB 140152230	230mm	angled



TC METZENBAUM SCISSORS



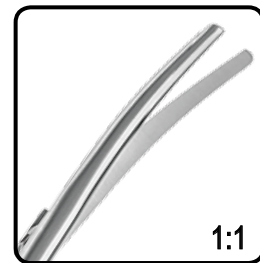
Order number	Description	Blade length	Total length
SB 295120000	slightly curved, double action	70mm	325mm
SB 295120001	strongly curved, double action	70mm	325mm
SB 295120002	slightly curved, double action	70mm	365mm
SB 295120003	strongly curved, double action	70mm	365mm



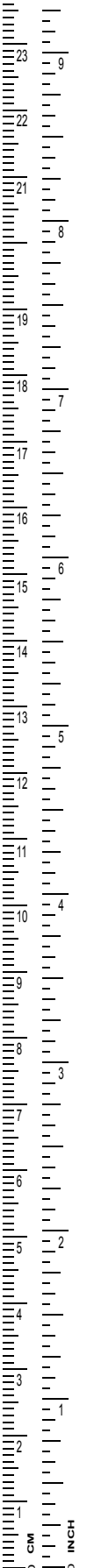
DISSECTING SCISSORS



Order number	Working length	Total length	Shaft Ø
SB 295123180	180mm	285mm	5mm



slightly curved, single action

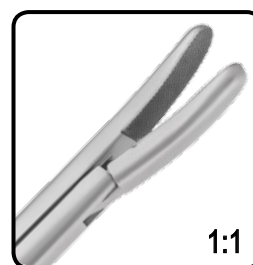




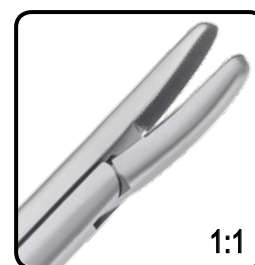
TC SLIDER NEEDLE HOLDERS



Order number	Working length	Total length	Shaft Ø	Jaws
SB 295180000	210mm	345mm	7mm	straight
SB 295180001	210mm	345mm	7mm	curved
SB 295180002	210mm	345mm	10mm	straight
SB 295180003	210mm	345mm	10mm	curved

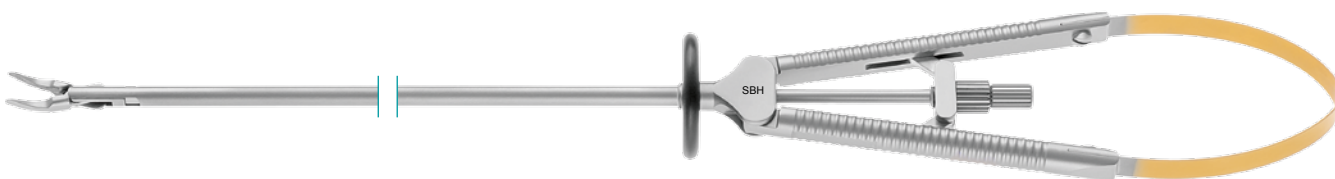


curved

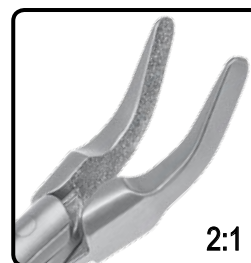


straight

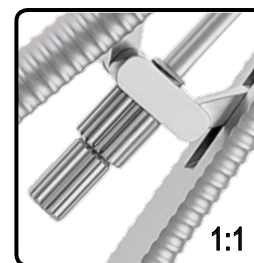
DIAMOND DUSTED ENDO NEEDLE HOLDER WITH SPRING HANDLE



Order number	Total length	Working length	Shape
SB 295250430	390mm	235mm	curved

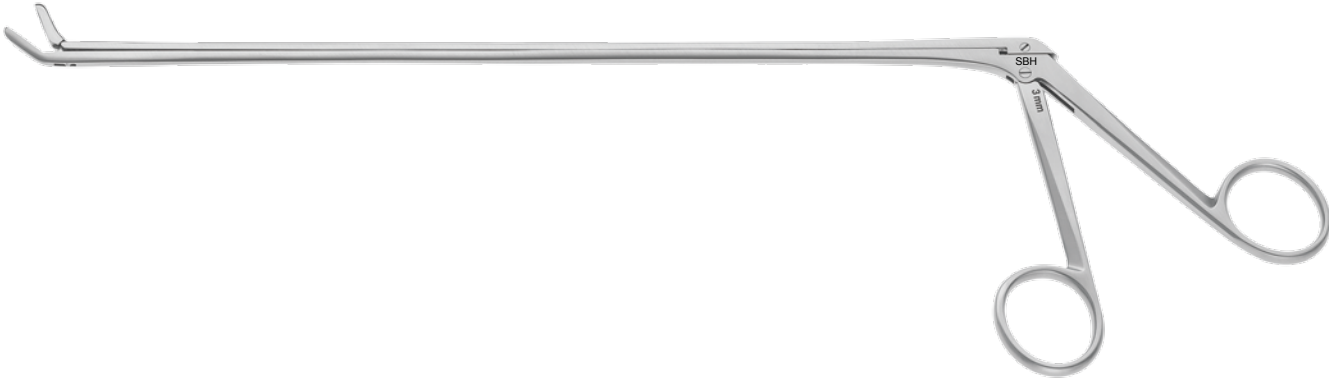


diamond dusted

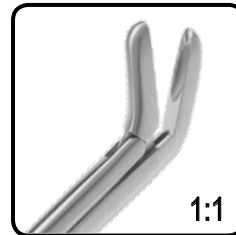


easy disassembling
for optimal cleaning

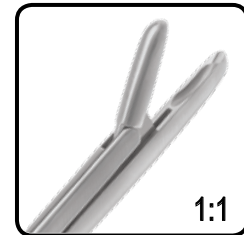
ANTERIOR DISC RONGEUR



Order number	Working length	Jaw width	Shape
SB 250103280	280mm	3mm	straight
SB 250113280	280mm	3mm	upward



upward

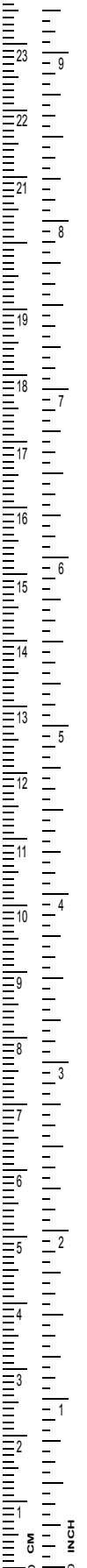


straight

CHITWOOD SUTURE CUTTER



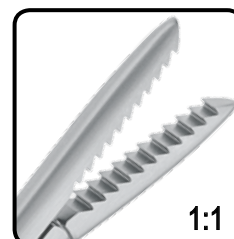
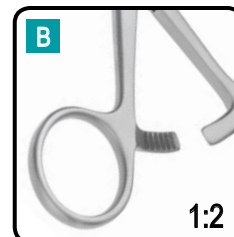
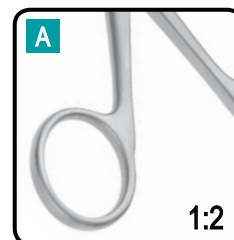
Order number	Working length	Shaft Ø
SB 295121180	180mm	5mm
SB 295121230	230mm	5mm
SB 295121280	280mm	5mm





VATS / MICS - Miscellaneous Ring Handle Instruments

CHEST TUBE PASSER



Order number	Working length	Total length	Shaft Ø	Type
SB 295080150	160mm	250mm	10mm	A
SB 295080170	155mm	240mm	10mm	B
SB 295080280	280mm	355mm	10mm	A
SB 295080281	280mm	355mm	10mm	B

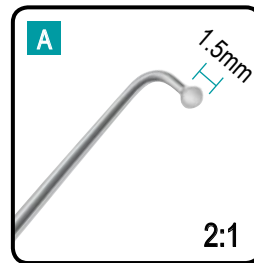




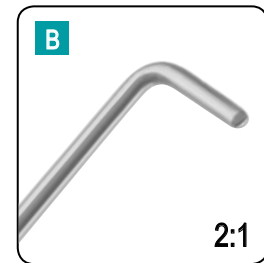
NERVE AND VESSEL HOOK FOR VALVE SURGERY



Order number	Tip Ø	Tip length	Tip shape	Total length
SB 295000001	1.5mm	4.5mm	A	350mm
SB 295000002	1mm	5mm	B	350mm
SB 295000003	1.5mm	9mm	B	350mm



with probe

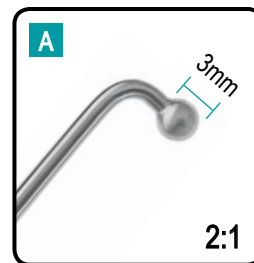


without probe

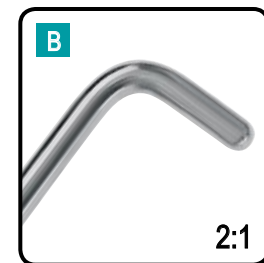
NERVE AND VESSEL HOOK FOR VALVE SURGERY



Order number	Tip Ø	Tip length	Tip shape	Total length
SB 295000101	3.0mm	5mm	A	300mm
SB 295000102	1.4mm	5mm	B	300mm
SB 295000-103	2.3mm	9mm	B	300mm



with probe



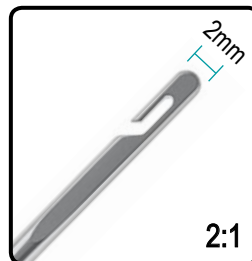
without probe



SUTURE CATCHER FOR VALVE SURGERY



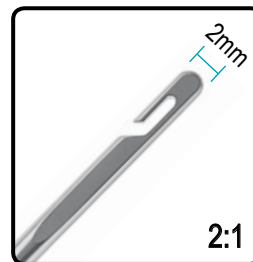
Order number	Tip width	Total length
SB 295000010	2mm	350mm



SUTURE CATCHER FOR VALVE SURGERY



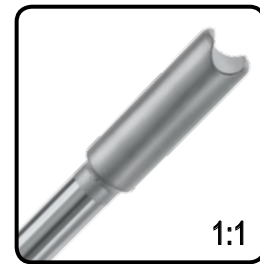
Order number	Tip width	Total length
SB 295000110	2mm	320mm



KNOT PUSHER FOR VALVE SURGERY



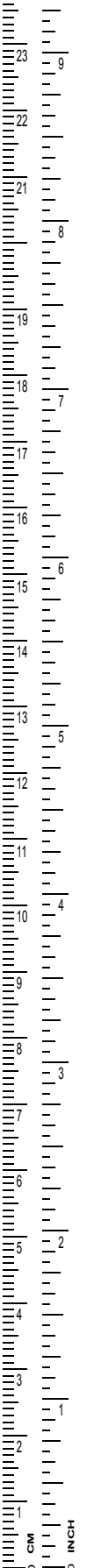
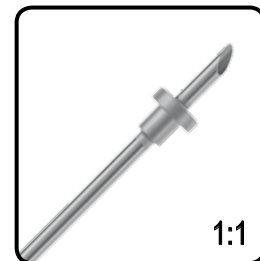
Order number	Tip Ø	Total length
SB 295000020	8mm	345mm



CARDIOPLEGIA NEEDLE



Order number	Total length	Needle Ø
SB 295165002	310mm	2mm
SB 295165003	310mm	3mm



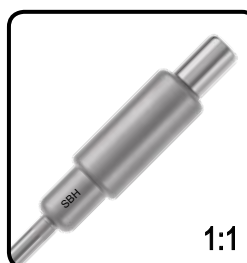


MAGNETIC RETRIEVER

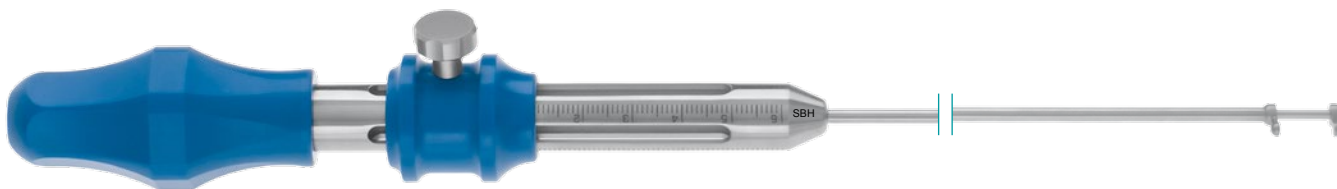


Order number	Total length
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SB 295300000	370mm
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SUTURE RULER



Order number	Measuring range	Total length
--------------	-----------------	--------------

SB 295100350	0-60mm	430mm
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MINI THORACOTOMY RETRACTOR, WITH DOUBLE HINGE

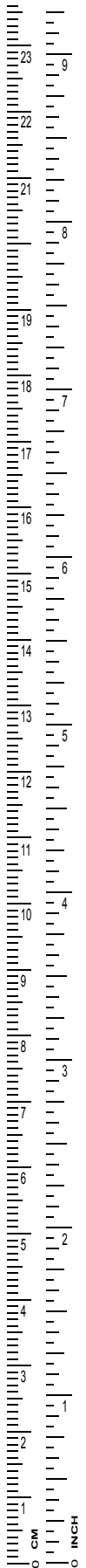
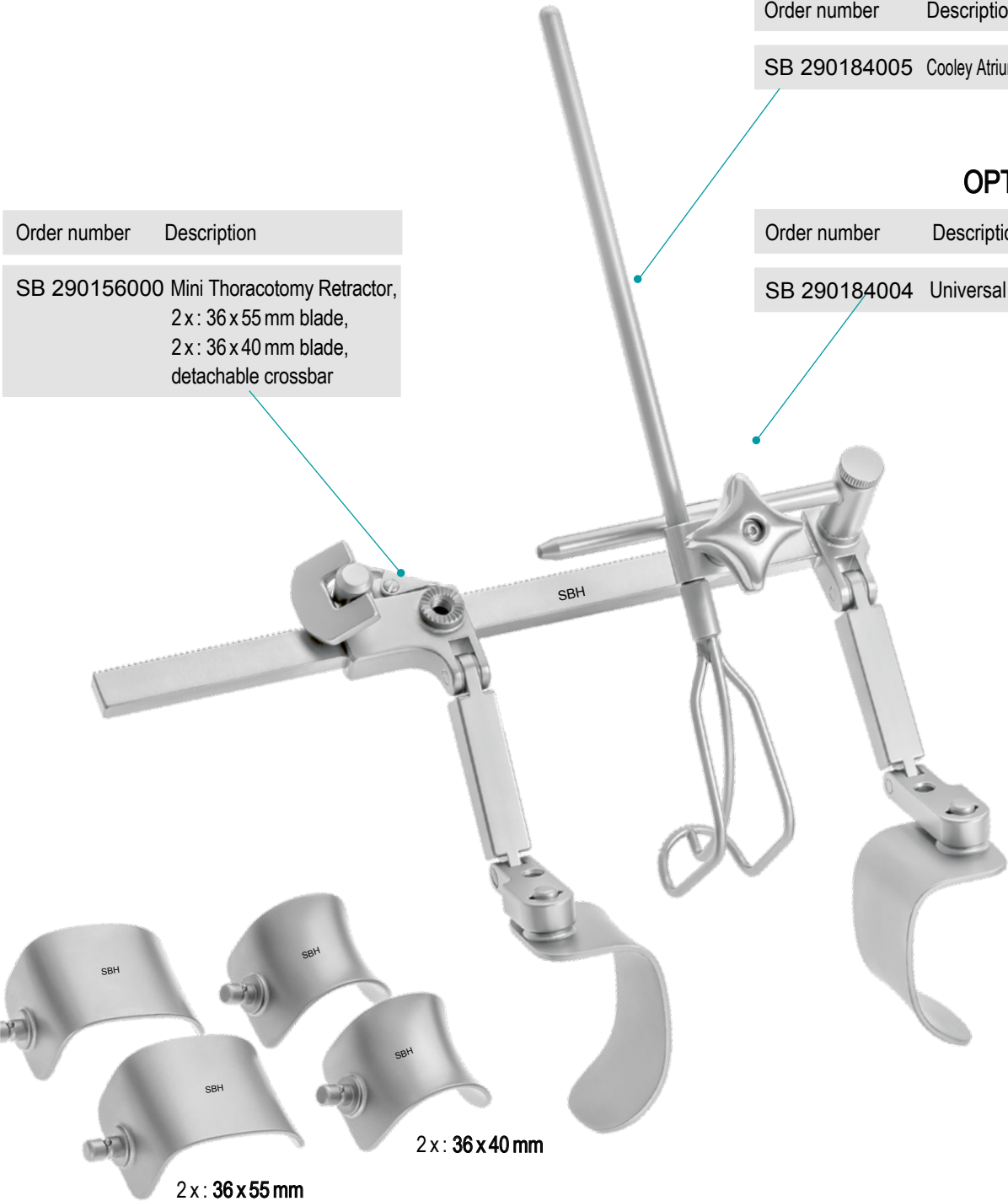
OPTIONAL

Order number	Description
SB 290184005	Cooley Atrium Retractor*

OPTIONAL

Order number	Description
SB 290184004	Universal Clamp*

Order number	Description
SB 290156000	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 22, 23, 24



MINI THORACOTOMY RETRACTOR

Order number	Blade size
SB 290155045	36 x 45 mm
SB 290155060	36 x 60 mm
SB 290155080	36 x 80 mm



detachable crossbar



IMA MINI-STERNOTOMY RETRACTOR, COMPLETE

Order number	Description
SB 290184030	120mm, U-blade 38mm, 2x french hook





RIBBON MICS VALVES, MALLEABLE



Order number	Description
SB 290184008	Length 250mm, blades 75x25mm



Order number	Description
SB 290156003	Length 250mm, blades 65x18mm
SB 290156004	Length 280mm, blades 95x18mm
SB 290156005	Length 280mm, blades 95x22mm

COOLEY BLADE RETRACTOR



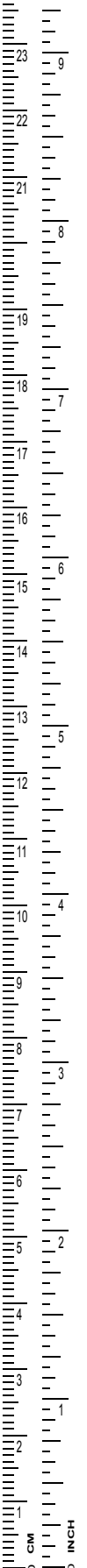
Order number	Size
SB 290184005	62 x 25mm



Order number	Size
SB 290184006	68 x 40mm



Order number	Size
SB 290184007	74 x 50mm





UNIVERSAL CLAMP



Order number	Description
SB 290184004	Universal Clamp with two rotatable interlocking brackets

MITRAL VALVE SET



SB 295130001 Blade holder

SB 295130008 Introducer



SB 295130002

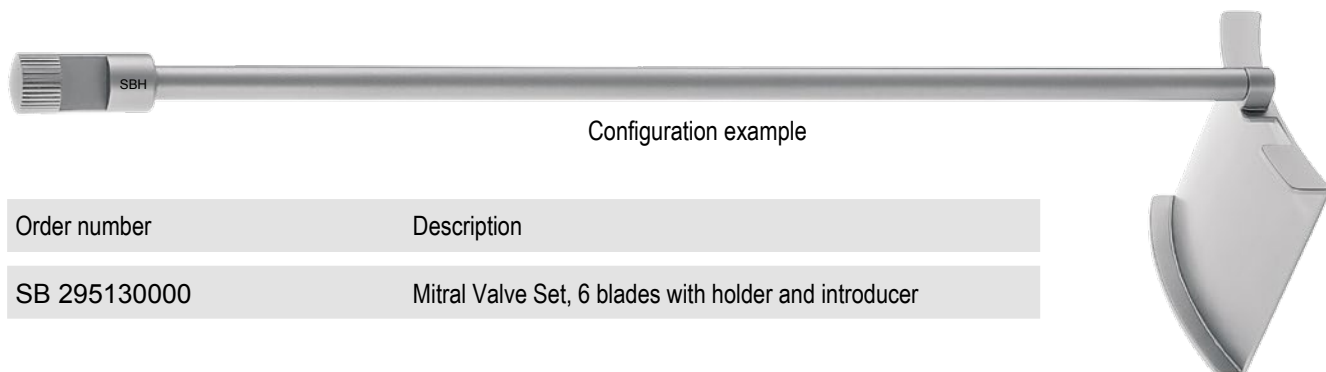
SB 295130003

SB 295130004

SB 295130005

SB 295130006

SB 295130007

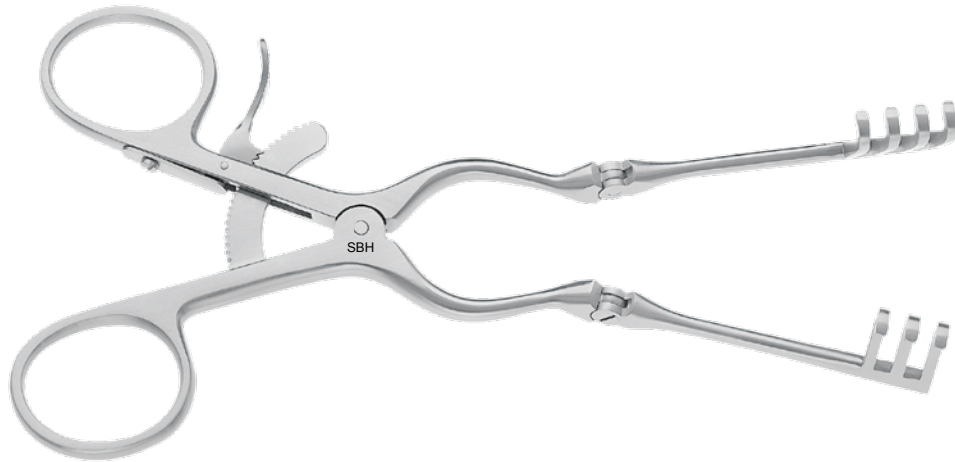


Configuration example

Order number	Description
SB 295130000	Mitral Valve Set, 6 blades with holder and introducer



CONE RETRACTOR

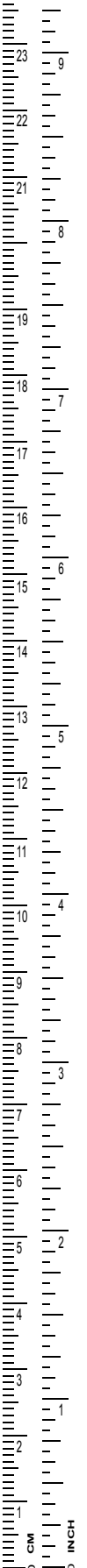


Order number	Total length	Teeth	Shape
SB 170782160	160mm	3x4	blunt

RETRACTOR



Order number	Width	Total length	Description
SB 170975160	16mm	200mm	malleable
SB 170975190	19mm	200mm	malleable
SB 170975250	25mm	200mm	malleable





SCALPEL HANDLES & BLADES



Order number	Working length	Description
SB 110116133	360mm	Scalpel handle No. 3XXL

Order number	Description
SB 110200011	Scalpel blade, Fig. 11, non-sterile, 100 pieces



Order number	Working length	Description
SB 110150370	360mm	Scalpel handle for micro blades

Order number	Description
SB 110013065	Scalpel blade, Fig. 65, sterile, 10 pieces



ROSS VENTRICULAR VENT



Order number	Ø	Used for
SB 165150000	8mm	Adults

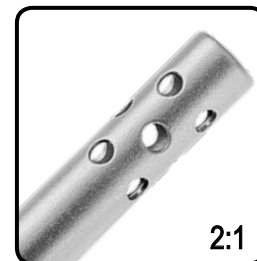
Order number	Ø	Used for
SB 165150001	6.5mm	Children

Order number	Ø	Used for
SB 165150002	5mm	Infants

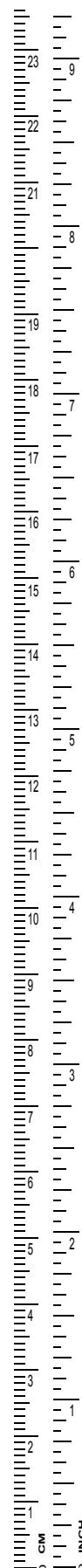
MICS D'AMICO SUCTION TUBE



Order number	Working length	Total length	Shaft Ø
SB 295165475	350mm	475mm	5mm



Suction tip





YANKAUER SUCTION TUBE



Order number	Working length	Total length	Shaft Ø
SB 165544450	320mm	450mm	5mm



Suction tip, non-detachable

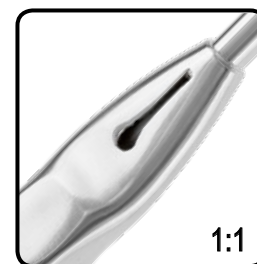
YANKAUER SUCTION TUBE, WITH FINGER STOP



Order number	Working length	Total length	Shaft Ø
SB 165544435	300mm	435mm	5mm



Suction tip, non-detachable



Finger stop



Notes:

[illegible]



Notes:

[illegible]



Notes:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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