

VATS MICS



Video Assisted Thoracoscopic Surgery

VATS MICS

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.

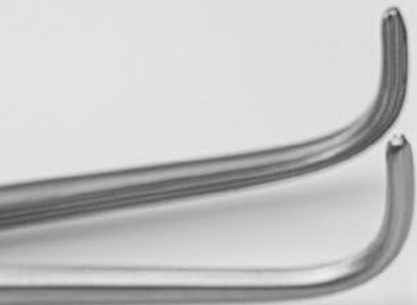
Classic procedures require a median sternotomy, while VATS / MICS operations are performed with several small incisions without cutting the sternum. RZ offers high quality instruments and endoscopes for the video assisted approach.

- less blood loss
- reduced post-operative discomfort
- faster healing times
- lower risk of infections
- less traumatic procedure qualifies a larger number of patients



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VASCULAR RING HANDLE CLAMPS



FOERSTER
 left curved, oval shape,
 Ø 7mm shaft, 230mm working length
 335mm, 13¹/₄" 295-150-012
 Ø 10mm shaft, 240mm working length
 340mm, 13¹/₃" 295-150-020



DUVAL
 left curved, triangular shape, 10mm jaw width
 Ø 10mm shaft, 230mm working length
 330mm, 13" 295-310-001
 25mm jaw width
 235mm working length
 330mm, 13" 295-310-002



ALLIS
 left curved, 6mm jaw width
 Ø 7mm shaft, 240mm working length
 330mm, 13" 295-310-100



DEBAKEY
 1x2 teeth, Ø 10mm shaft,
 65mm jaw length, 230mm working length
 330mm, 13" 295-290-065
 75mm jaw length, 250mm working length
 340mm, 13¹/₃" 295-290-075
 100mm jaw length, 255mm working length
 360mm, 14¹/₄" 295-290-100
 2x3 teeth,
 100mm jaw length, 250mm working length
 350mm, 14" 295-290-101

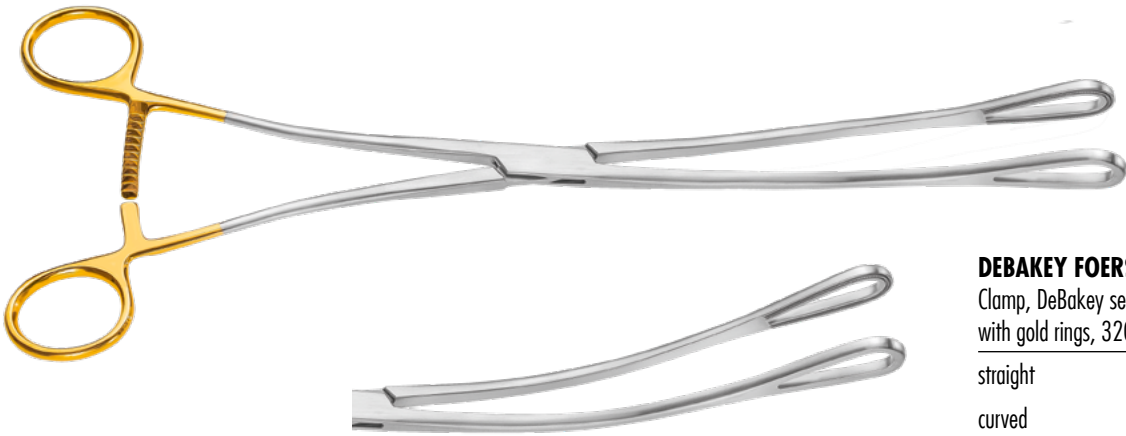


Fig. 1



Fig. 2

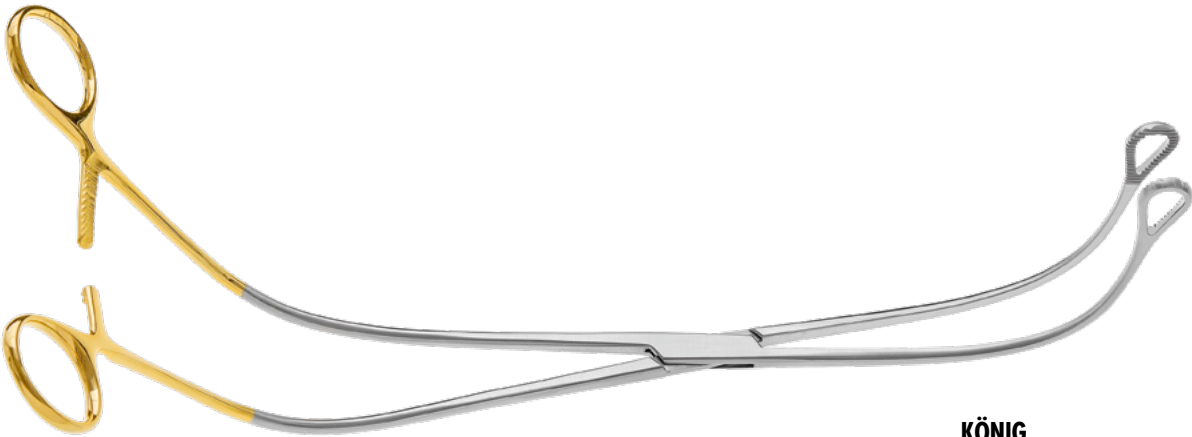
HARKEN
 1x2 teeth, Ø 10mm shaft, with ratchet
 250mm working length, Fig. 1
 355mm, 14" 295-290-010
 270mm working length, with ratchet, Fig. 2
 370mm, 14¹/₂" 295-290-012



DEBAKEY FOERSTER

Clamp, DeBaKey serrations,
with gold rings, 320mm, 12⁵/₈"

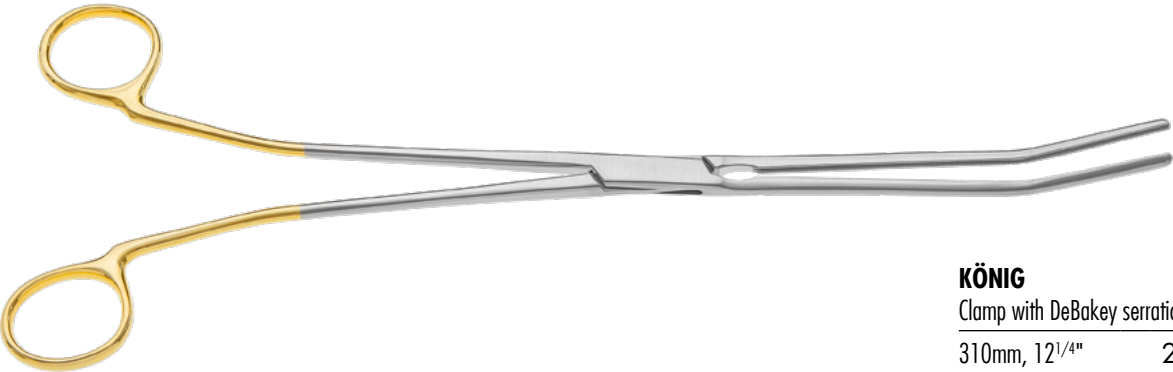
straight	290-000-320
curved	290-000-321



KÖNIG

Ring forceps for thoracic surgery

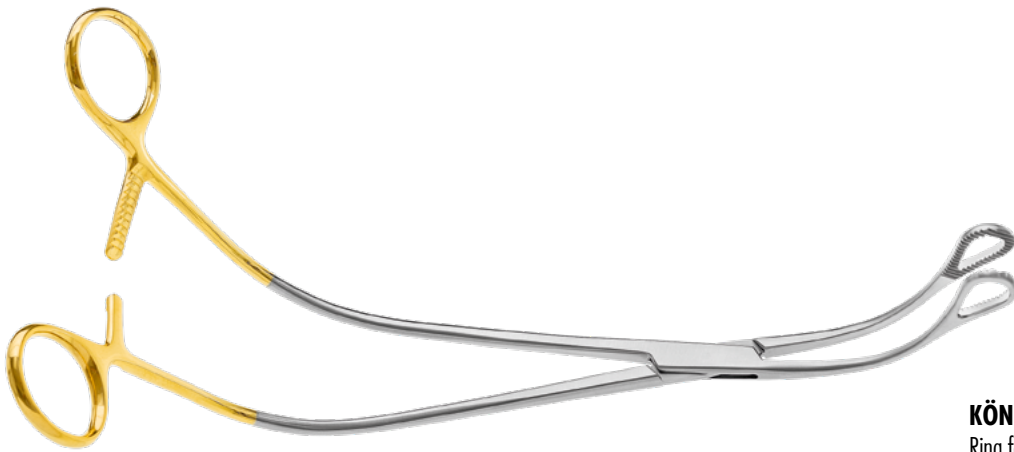
310mm, 12 ¹ / ₄ "	290-000-315
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KÖNIG

Clamp with DeBaKey serration

310mm, 12 ¹ / ₄ "	290-000-310
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KÖNIG
Ring forceps for thoracic surgery
255mm, 10" 290-000-255



KÖNIG
T-Clamp with DeBakey serration
305mm, 12" 290-000-305



Dissecting Forceps, left curved,
 Ø 7mm shaft, 230mm working length
 340mm, 13¹/₃" 295-100-230



D'AMICO
 Ø 10mm shaft, 110mm jaw length
 270mm working length, 370mm, 14¹/₂"
 straight 295-290-200
 curved 295-290-201



Fig.1

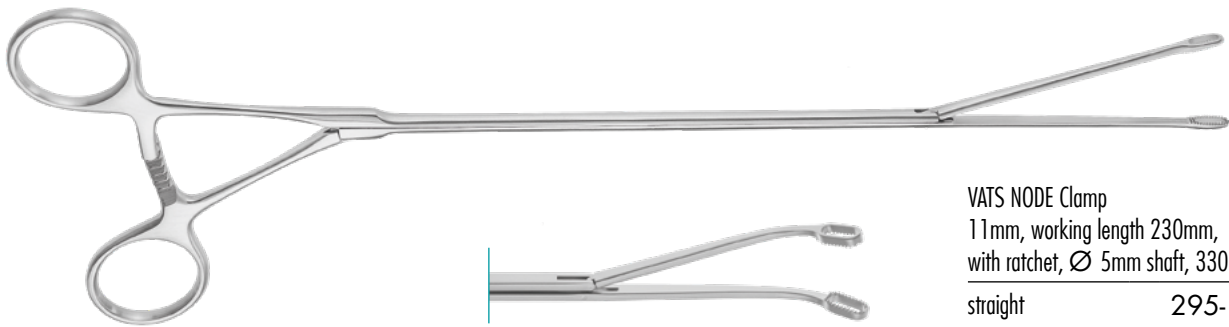


Fig.2

HARKEN
 1x2 teeth, Ø 10mm shaft, without ratchet,
 250mm working length, Fig. 1
 355mm, 14" 295-290-001
 270mm working length, without ratchet, Fig. 2
 370mm, 14¹/₂" 295-290-002



COOLEY
 1x2 teeth, Ø 10mm shaft,
 240mm working length, 345mm, 13¹/₂"
 with ratchet 295-290-300
 without ratchet 295-290-301



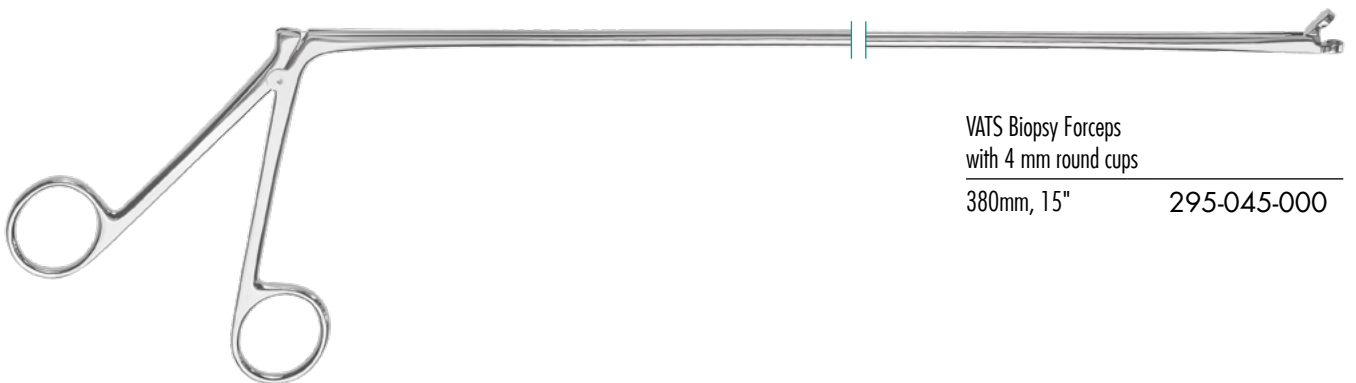
VATS NODE Clamp
11mm, working length 230mm,
with ratchet, Ø 5mm shaft, 330mm, 13"

straight	295-150-222
left curved	295-150-223



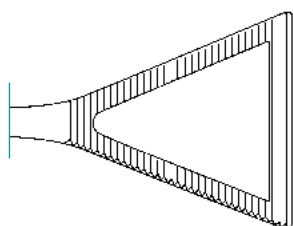
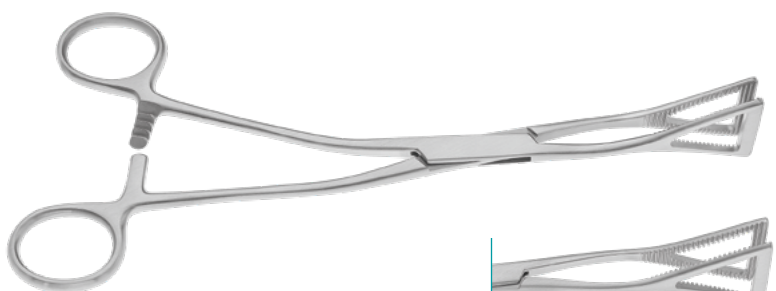
Chest Tube Passer, Ø 10mm shaft,
160mm working length, without ratchet

250mm, 9 ⁷ / ₈ "	295-080-150
280mm, 11"	295-080-280
155mm working length, with ratchet	
240mm, 9 ¹ / ₂ "	295-080-170
280mm working length, with ratchet	
355mm, 14"	295-080-281



VATS Biopsy Forceps
with 4 mm round cups

380mm, 15"	295-045-000
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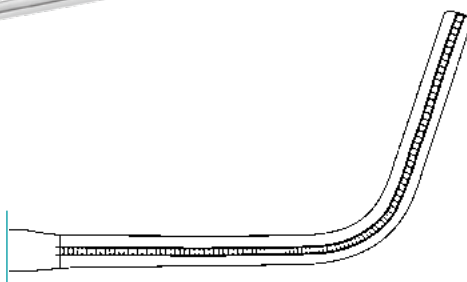


LOVELACE

Lung Grasping Forceps, 200mm, 8"

straight 290-286-200

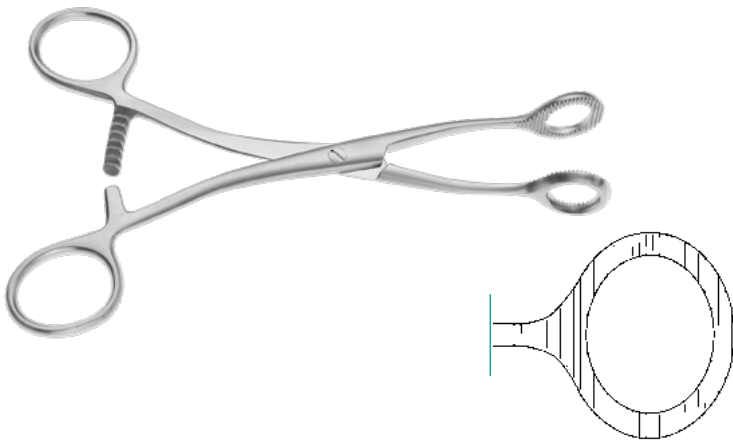
curved 290-287-200



DEBAKEY MIXTER

Thoracic Forceps, strong serration

280mm, 11" 290-600-230

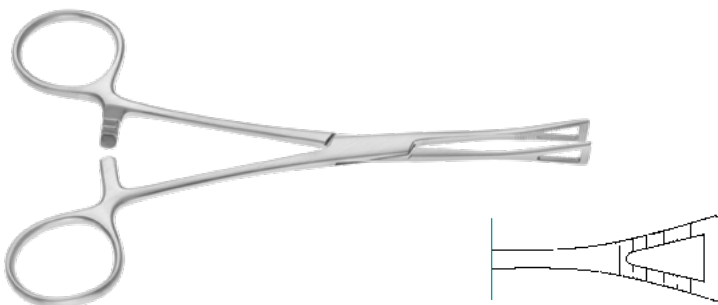


COLLIN

Hemostatic Forceps

160mm, 6¹/₄"

140-236-160

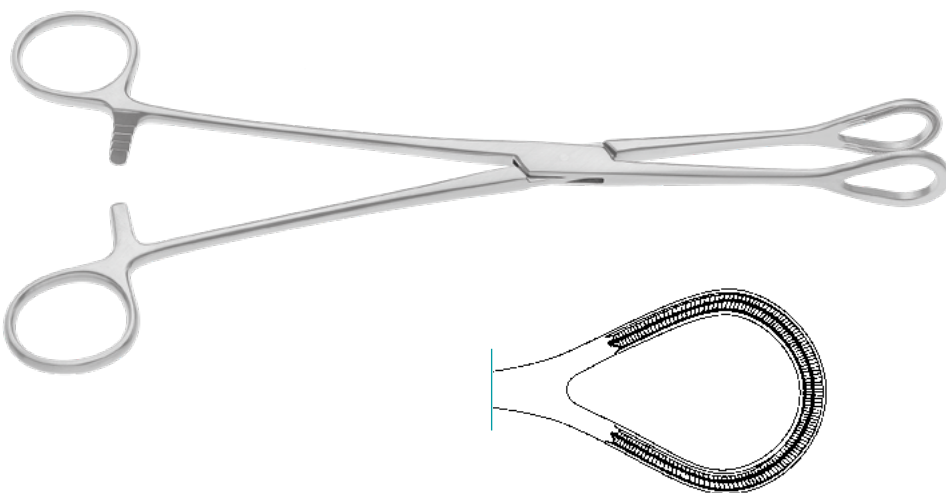


PENNINGTON

Tissue Holding Forceps

155mm, 6¹/₈"

140-240-155



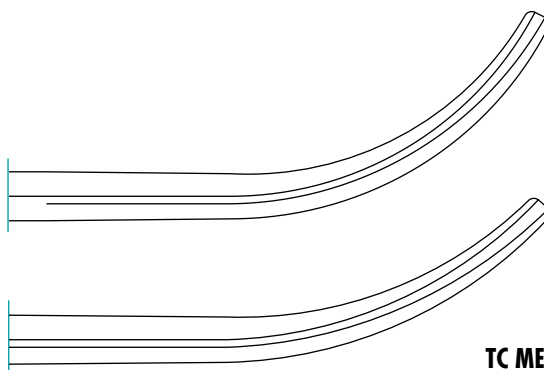
DEBAKEY

Intestinal and Organ Grasping Forceps,
atraumatic serrations, small ring

260mm, 10¹/₄"

140-220-260

VASCULAR RING HANDLE SCISSORS



TC METZENBAUM

70mm blade length, double action,
slightly curved

325mm, 12³/₄" 295-120-000

365mm, 14¹/₃" 295-120-002

strongly curved

325mm, 12³/₄" 295-120-001

365mm, 14¹/₃" 295-120-003



Dissecting Scissors, slightly curved, single action
180mm working length, Ø 5mm shaft

285mm, 11¹/₄" 295-123-180

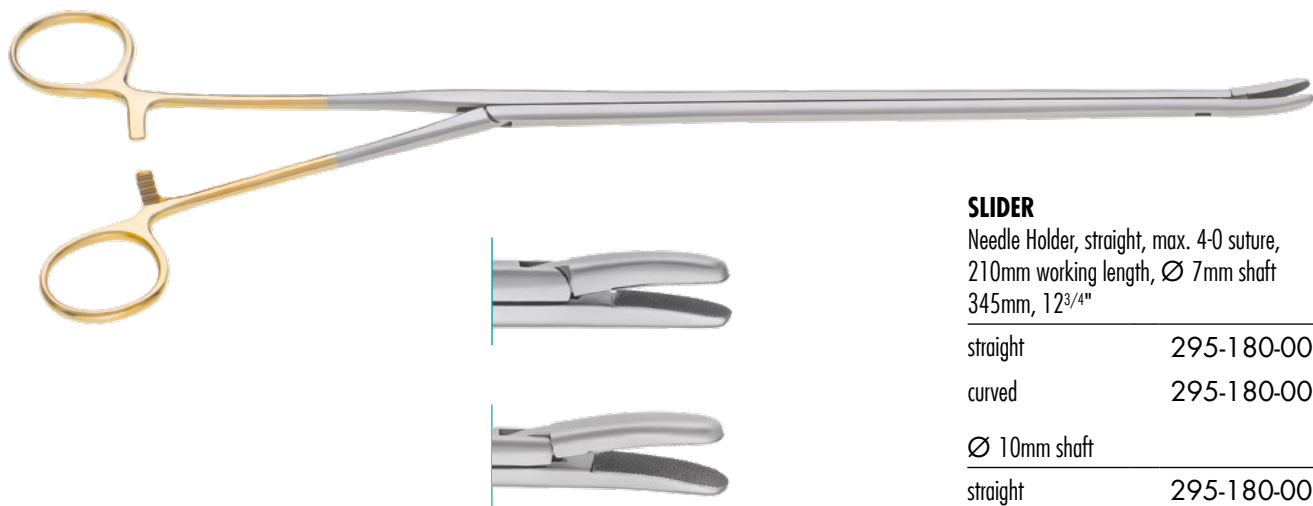
SUTURE INSTRUMENTS



CHITWOOD

Suture Cutter, Ø 5mm shaft

180mm, 7"	295-121-180
230mm, 9"	295-121-230
280mm, 11"	295-121-280



SLIDER

Needle Holder, straight, max. 4-0 suture,
210mm working length, Ø 7mm shaft
345mm, 12³/₄"

straight	295-180-000
curved	295-180-001
Ø 10mm shaft	
straight	295-180-002
curved	295-180-003



Knot Pusher for valve surgery
Ø 8.0mm tip

345mm, 12 ³ / ₄ "	295-000-020
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Cardioplega Needle
310mm, 12¹/₄"

Ø 2.0mm	295-165-002
Ø 3.0mm	295-165-003



Magnetic Retriever
370mm, 14¹/₂"

295-300-000



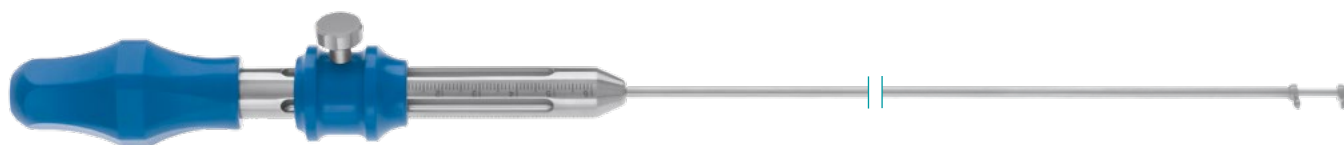
Suture Catcher
2mm tip width
320mm, 12¹/₂"

295-000-110



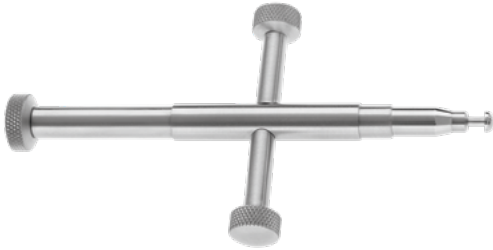
Suture Catcher for valve surgery
2mm tip width
350mm, 14"

295-000-010



Suture Ruler, 0 - 60mm measuring range
430mm, 17"

295-100-350

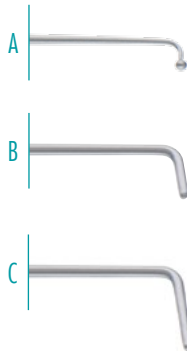


Aortic Punch
120mm, 4^{3/4}"

Ø 3mm	290-712-030
Ø 4mm	290-712-040
Ø 4.5mm	290-712-045
Ø 5mm	290-712-050
Ø 6mm	290-712-060

150mm, 6"

Ø 3mm	290-715-030
Ø 4mm	290-715-040
Ø 4.5mm	290-715-045
Ø 5mm	290-715-050
Ø 6mm	290-715-060



Nerve and Vessel Hook for valve surgery
A 4.5mm tip length, Ø 1.5mm tip

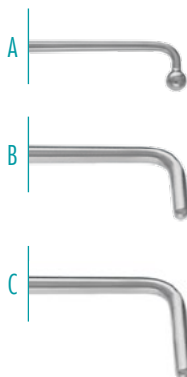
350mm, 14"	295-000-001
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B 5.0mm tip length, Ø 1.0mm tip

350mm, 14"	295-000-002
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C 9.0mm tip length, Ø 1.5mm tip

350mm, 14"	295-000-003
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Nerve and Vessel Hook for valve surgery
A 5.0mm tip length, Ø 3.0mm tip

330mm, 13"	295-000-101
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B 5.0mm tip length, Ø 1.4mm tip

330mm, 13"	295-000-102
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C 9.0mm tip length, Ø 2.3mm tip

330mm, 13"	295-000-103
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VASCULAR SCISSORS



POTTS

Ø 3.5mm, 45° angled, single action
working length:

170mm, 6 ² / ₃ "	295-034-045
250mm, 9 ⁷ / ₈ "	295-035-045
300mm, 11 ⁷ / ₈ "	295-037-045



POTTS

Ø 3.5mm, 90° angled, single action
working length:

170mm, 6 ² / ₃ "	295-034-090
250mm, 9 ⁷ / ₈ "	295-035-090
300mm, 11 ⁷ / ₈ "	295-037-090



POTTS

Ø 3.5mm, 125° angled, single action
working length:

170mm, 6 ² / ₃ "	295-034-125
250mm, 9 ⁷ / ₈ "	295-035-125
300mm, 11 ⁷ / ₈ "	295-037-125



POTTS

Ø 5.0mm, 125° angled, single action
working length:

170mm, 6 ² / ₃ "	295-048-125
250mm, 9 ⁷ / ₈ "	295-050-125
300mm, 11 ⁷ / ₈ "	295-052-125



METZENBAUM

Ø 5.0mm, straight, single action
working length:

170mm, 6 ² / ₃ "	295-048-000
250mm, 9 ⁷ / ₈ "	295-050-000
300mm, 11 ⁷ / ₈ "	295-052-000



METZENBAUM

Ø 5.0mm, straight, double action
working length:

170mm, 6 ² / ₃ "	295-048-010
250mm, 9 ⁷ / ₈ "	295-050-010
300mm, 11 ⁷ / ₈ "	295-052-010



METZENBAUM

Ø 5.0mm, 15° curved, double action
working length:

170mm, 6 ² / ₃ "	295-048-015
250mm, 9 ⁷ / ₈ "	295-050-015
300mm, 11 ⁷ / ₈ "	295-052-015



JAMESON

Ø 5.0mm, 15° curved, double action
working length:

170mm, 6 ² / ₃ "	295-048-020
250mm, 9 ⁷ / ₈ "	295-050-020
300mm, 11 ⁷ / ₈ "	295-052-020



METZENBAUM

Ø 5.0mm, 30° curved, double action
working length:

170mm, 6 ² / ₃ "	295-048-030
250mm, 9 ⁷ / ₈ "	295-050-030
300mm, 11 ⁷ / ₈ "	295-052-030



METZENBAUM

Ø 5.0mm, 70° curved, double action
working length:

170mm, 6 ² / ₃ "	295-048-070
250mm, 9 ⁷ / ₈ "	295-050-070
300mm, 11 ⁷ / ₈ "	295-052-070



METZENBAUM

Ø 7.0mm, 15° curved, double action
working length:

170mm, 6 ² / ₃ "	295-069-015
250mm, 9 ⁷ / ₈ "	295-070-015
300mm, 11 ⁷ / ₈ "	295-071-015

VASCULAR NEEDLE HOLDER



Ø 3.5mm shaft, 2x6mm, with ratchet, TC straight

170mm, 6 ² / ₃ "	295-034-200
250mm, 9 ⁷ / ₈ "	295-035-200
300mm, 11 ⁷ / ₈ "	295-037-200



Ø 3.5mm shaft, 2x6mm, with ratchet, TC curved

170mm, 6 ² / ₃ "	295-034-201
250mm, 9 ⁷ / ₈ "	295-035-201
300mm, 11 ⁷ / ₈ "	295-037-201



Ø 5.0mm shaft, 3x10mm, with ratchet, TC straight

170mm, 6 ² / ₃ "	295-048-200
250mm, 9 ⁷ / ₈ "	295-050-200
300mm, 11 ⁷ / ₈ "	295-052-200



Ø 5.0mm shaft, 3x10mm, with ratchet, TC curved left

170mm, 6 ² / ₃ "	295-048-201
250mm, 9 ⁷ / ₈ "	295-050-201
300mm, 11 ⁷ / ₈ "	295-052-201



Ø 5.0mm shaft, 3x10mm, with ratchet, TC curved right

170mm, 6 ² / ₃ "	295-048-202
250mm, 9 ⁷ / ₈ "	295-050-202
300mm, 11 ⁷ / ₈ "	295-052-202



RYDER
Ø 5.0mm shaft, 1x8mm, with ratchet, TC straight

170mm, 6 ² / ₃ "	295-048-210
250mm, 9 ⁷ / ₈ "	295-050-210
300mm, 11 ⁷ / ₈ "	295-052-210



RYDER
Ø 5.0mm shaft, 1x10mm, with ratchet, TC straight

170mm, 6 ² / ₃ "	295-048-212
250mm, 9 ⁷ / ₈ "	295-050-212
300mm, 11 ⁷ / ₈ "	295-052-212



Ø 5.0mm shaft, 2x8mm, with ratchet, TC straight

170mm, 6 ² / ₃ "	295-048-214
250mm, 9 ⁷ / ₈ "	295-050-214
300mm, 11 ⁷ / ₈ "	295-052-214



RYDER
Ø 5.0mm shaft, 3x10mm, with ratchet, diamond dusted, straight

170mm, 6 ² / ₃ "	295-048-216
250mm, 9 ⁷ / ₈ "	295-050-216
300mm, 11 ⁷ / ₈ "	295-052-216



RYDER
Ø 5.0mm shaft, 3x10mm, with ratchet, diamond dusted, curved left

170mm, 6 ² / ₃ "	295-048-217
250mm, 9 ⁷ / ₈ "	295-050-217
300mm, 11 ⁷ / ₈ "	295-052-217



CRILE WOOD
Ø 5.0mm shaft, 3x10mm, with ratchet, TC curved left

170mm, 6 ² / ₃ "	295-048-219
250mm, 9 ⁷ / ₈ "	295-050-219
300mm, 11 ⁷ / ₈ "	295-052-219

VASCULAR CLAMPS AND RONGEURS



DEBAKEY

Ø 3.5mm shaft, 2x1 teeth, 2.8 x 14mm,
double action, 45° lateral angled
without ratchet ●

170mm, 6 ² / ₃ "	295-034-253
250mm, 9 ⁷ / ₈ "	295-035-253
300mm, 11 ⁷ / ₈ "	295-037-253

with ratchet

170mm, 6 ² / ₃ "	295-033-253
250mm, 9 ⁷ / ₈ "	295-036-253
300mm, 11 ⁷ / ₈ "	295-038-253

DEBAKEY

Ø 5.0mm shaft, 2x1 teeth, 1.5 x 10mm,
double action, straight
without ratchet ●

170mm, 6 ² / ₃ "	295-048-250
250mm, 9 ⁷ / ₈ "	295-050-250
300mm, 11 ⁷ / ₈ "	295-052-250

with ratchet

170mm, 6 ² / ₃ "	295-049-250
250mm, 9 ⁷ / ₈ "	295-051-250
300mm, 11 ⁷ / ₈ "	295-053-250

DEBAKEY

Ø 5.0mm shaft, 2x1 teeth, 2.8 x 10mm,
double action, straight
without ratchet ●

170mm, 6 ² / ₃ "	295-048-251
250mm, 9 ⁷ / ₈ "	295-050-251
300mm, 11 ⁷ / ₈ "	295-052-251

with ratchet

170mm, 6 ² / ₃ "	295-049-251
250mm, 9 ⁷ / ₈ "	295-051-251
300mm, 11 ⁷ / ₈ "	295-053-251



DEBAKEY

Ø 5.0mm shaft, 2x1 teeth, 1.5 x 14mm,
single action, straight
without ratchet ●

170mm, 6 ² / ₃ "	295-048-252
250mm, 9 ⁷ / ₈ "	295-050-252
300mm, 11 ⁷ / ₈ "	295-052-252

with ratchet

170mm, 6 ² / ₃ "	295-049-252
250mm, 9 ⁷ / ₈ "	295-051-252
300mm, 11 ⁷ / ₈ "	295-053-252



DEBAKEY

Ø 5.0mm shaft, 2x1 teeth, 1.5 x 14mm,
single action, 45° angled
without ratchet ●

170mm, 6 ² / ₃ "	295-048-253
250mm, 9 ⁷ / ₈ "	295-050-253
300mm, 11 ⁷ / ₈ "	295-052-253

with ratchet

170mm, 6 ² / ₃ "	295-049-253
250mm, 9 ⁷ / ₈ "	295-051-253
300mm, 11 ⁷ / ₈ "	295-053-253

DEBAKEY

Ø 5.0mm shaft, 3x2 teeth, 4.8 x 10mm,
double action, straight
without ratchet ●

170mm, 6 ² / ₃ "	295-048-254
250mm, 9 ⁷ / ₈ "	295-050-254
300mm, 11 ⁷ / ₈ "	295-052-254

with ratchet

170mm, 6 ² / ₃ "	295-049-254
250mm, 9 ⁷ / ₈ "	295-051-254
300mm, 11 ⁷ / ₈ "	295-053-254



Ø 4.0mm shaft, Valve Rongeur, oval, 4mm,
single action, straight ●

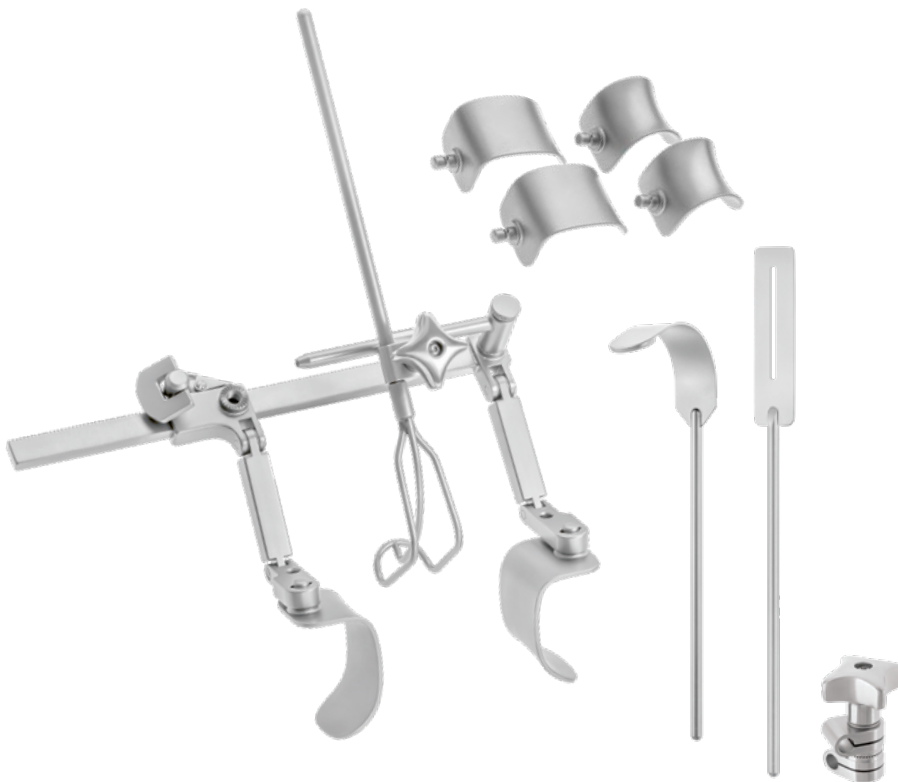
170mm, 6 ² / ₃ "	295-039-300
250mm, 9 ⁷ / ₈ "	295-040-300
300mm, 11 ⁷ / ₈ "	295-041-300



Ø 4.0mm shaft, Valve Rongeur, oval, 4mm,
single action, 30° angled ●

170mm, 6 ² / ₃ "	295-039-301
250mm, 9 ⁷ / ₈ "	295-040-301
300mm, 11 ⁷ / ₈ "	295-041-301

RETRACTORS AND ACCESSOIRES



Mini Thoracotomy Retractor,
double hinge, set with 2 blades pairs
36 x 55 / 36 x 40mm, detachable crossbar

290-156-000

Blade Pair

40 x 70mm 290-156-001

Blades, 280mm length

95 x 18mm 290-156-004
95 x 22mm 290-156-005

Universal Clamp

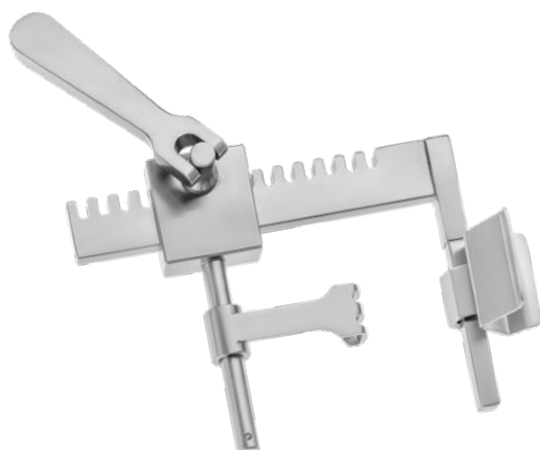
290-184-004



Detachable crossbar

Mini Thoracotomy Retractor

36 x 45mm blades 290-155-045
36 x 60mm blades 290-155-060
36 x 80mm blades 290-155-080



IMA Mini-Sternotomy Retractor,
complete with U-Blade 38mm, 2x french hooks
120mm, 4^{3/4}" 290-184-030



COOLEY

Valve Retractor

small, 62 x 25mm	290-184-005
medium, 68 x 40mm	290-184-006
large, 74 x 50mm	290-184-007



Ribbon Valve, malleable

250mm length, 75 x 25mm	290-184-008
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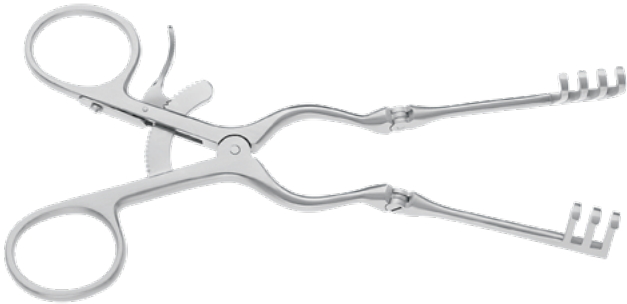
Ribbon Valve, fenestrated, malleable

250mm length, 65 x 18mm	290-156-003
280mm length, 95 x 18mm	290-156-004
280mm length, 95 x 22mm	290-156-005



Spatula, malleable, 200mm

16mm	170-975-160
19mm	170-975-190
25mm	170-975-250

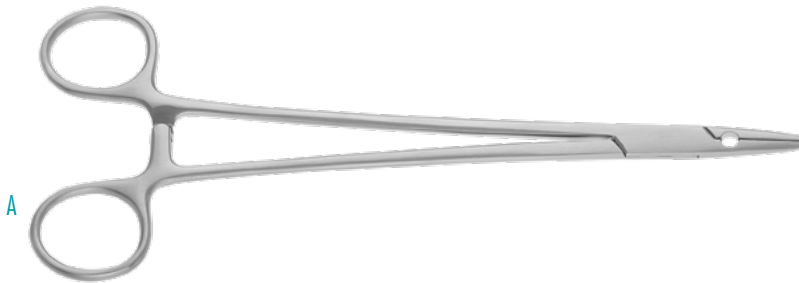


CONE

Self Retaining Retractor, 3x4 teeth, blunt

160mm, 6^{1/4}"

170-782-160



A

Valve Set

295-130-000

consisting of:

A Clamp

230mm

295-130-008

B Stick

190mm

295-130-001

C Valve

30 x 35mm

295-130-002

40 x 35mm

295-130-003

50 x 35mm

295-130-004

50 x 45mm

295-130-005

60 x 45mm

295-130-006

75 x 45mm

295-130-007



B



C

SUCTION INSTRUMENTS



ROSS

Ventricular Vent

Ø 8.0mm, adults 165-150-000

Ø 6.5mm, children 165-150-001

Ø 5.0mm, infants 165-150-002



D'AMICO

Suction Tube for MICS, straight, Ø 5mm
350mm working length

475mm, 18^{3/4}" 295-165-475



YANKAUER

Suction Tube, 320mm working length,
Ø 5mm shaft

450mm, 17^{3/4}" 165-544-450



YANKAUER

Suction Tube, 300mm working length,
Ø 5mm shaft, with finger stop

435mm, 17^{1/8}" 165-544-435

LAPAROSCOPES

4K



0° DIRECTION OF VIEW

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

30° DIRECTION OF VIEW

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



0° DIRECTION OF VIEW

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

30° DIRECTION OF VIEW

300mm working length	300-155-43
356mm overall length	
424mm working length	300-255-430
480mm overall length	

FULL HD



∅
10 mm



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



∅
5 mm



0° DIRECTION OF VIEW

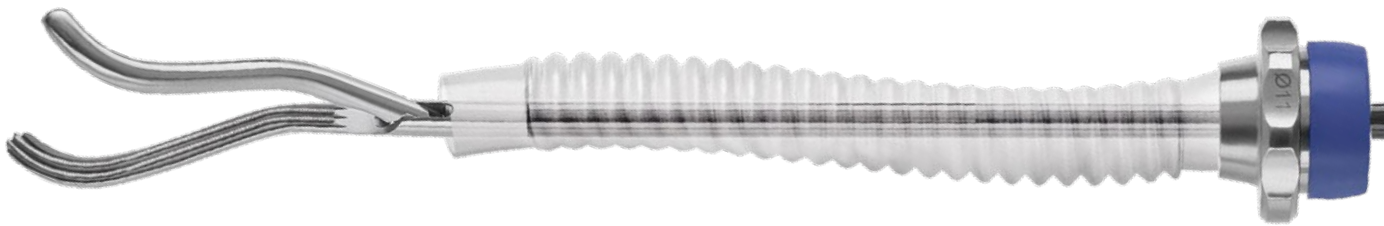
300mm working length 356mm overall length	300-092-100
424mm working length 480mm overall length	300-096-455

30° DIRECTION OF VIEW

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

VATS MICS

FLEXIBLE TROCAR SYSTEM



Thorax Trocar System, flexible, complete,
Ø 11mm

100mm working length	300-020-211
70mm working length	300-020-711



Thorax Trocar Sheath, Ø 11mm,

for 100mm	300-021-111
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Thorax Trocar System, flexible, complete,
Ø 5.5mm

100mm working length	300-020-255
70mm working length	300-020-755



Thorax Trocar Sheath, Ø 5.5mm

for 100mm	300-021-155
for 70mm	300-021-755



Obturator for flexible Thorax Trocar System

Ø 11.0mm, 100mm	300-023-111
Ø 11.0mm, 70mm	300-023-711
Ø 5.5mm, 100mm	300-023-255
Ø 5.5mm, 70mm	300-023-755



Gasket for Thorax Trocar System
Ø 11mm (package of 10 pcs.)

blue	300-250-011
white	300-250-055



Plastic Trocar Sleeve, flexible,
package of 5 pieces

Ø 11.0mm, 100mm	300-024-111
Ø 11.0mm, 70mm	300-024-711
Ø 5.5mm, 100mm	300-024-155
Ø 5.5mm, 70mm	300-024-755

TROCARS



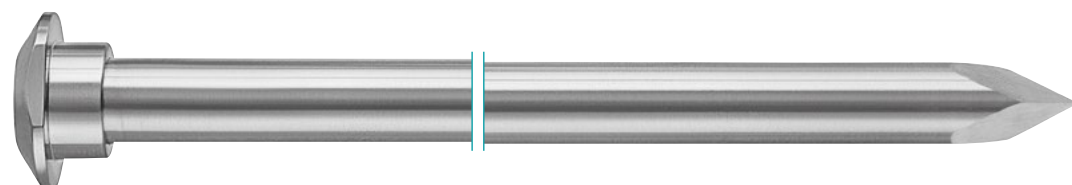
Siliport Trocar, with silicon valve
100mm working length

Ø 5.5mm ○	300-233-055
Ø 11.0mm ●	300-233-011



Multiport Trocar,
100mm working length

Ø 5.5mm ○	300-220-055
Ø 11.0mm ●	300-220-011



Standard Trocar, pyramidal tip

Ø 5.5mm	300-241-055
Ø 11.0mm	300-241-011

SCALPEL HANDLES AND BLADES



Scalpel Handle, 360mm working length
No. 3XXL 110-116-133

Scalpel blade, non-sterile, 100 pcs.
Fig. 11 110-200-011



Scalpel Handle, for micro blades,
360mm working length
110-150-370

Scalpel blade, sterile, 10 pcs.
Fig. 65 110-013-065



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