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VATS / MICS

Instruments for

*Video Assisted Thoracoscopic Surgery
Minimal Invasive Cardiac Surgery*



Solutions in highest quality and precision

Orders: Email: info@reuchlen.com - Tel.: +49 7461 - 9652-0 - Fax: +49 7461 - 9652-50

Usage and fields of application:

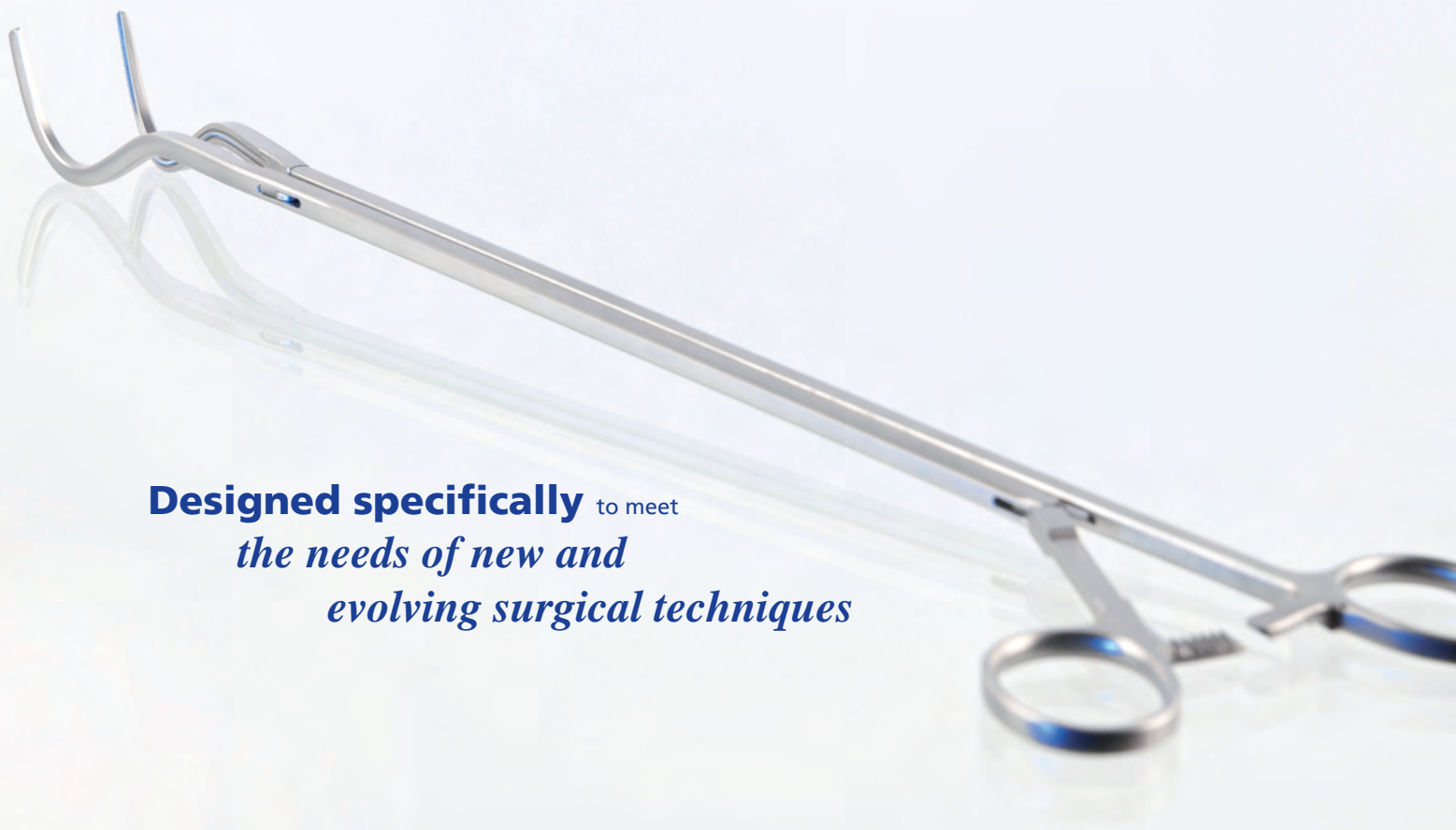
VIDEO ASSISTED THORACOSCOPIC SURGERY (VATS)
MINIMALLY INVASIVE CARDIAC SURGERY (MICS)

Special features:

- » Long working length
- » Provides the familiarity of traditional handles for secure manipulation and superior tactile response.
- » Available in 5mm, 7mm and 10mm shafts
- » Easy to clean by open structure

The problem it solves:

- Sliding Shafts enable the instrument to be fully functional when placed through a port or very small incision
- Minimize Patient Trauma
- Proper reprocessing



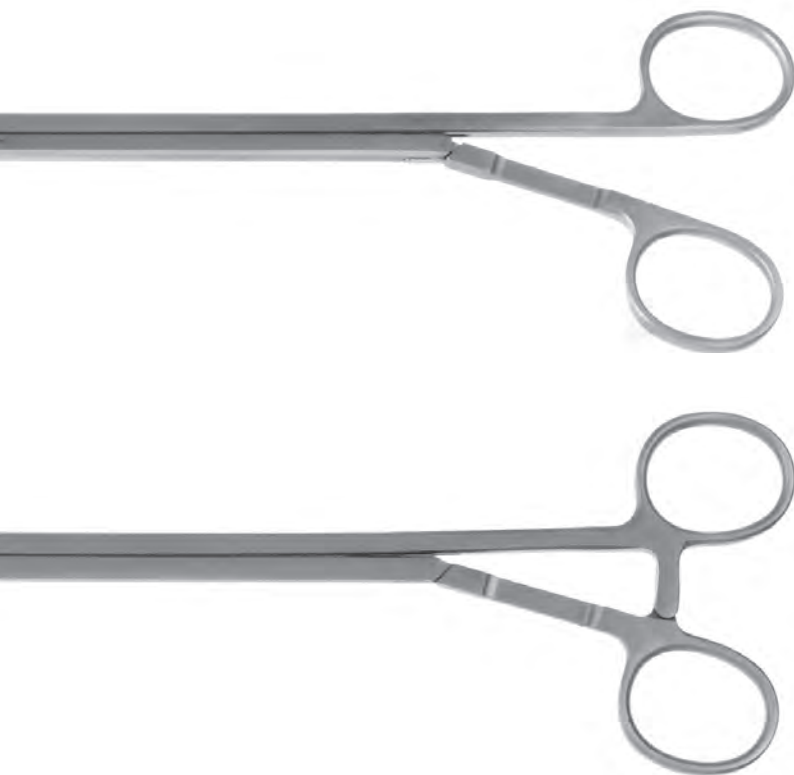
Designed specifically to meet
*the needs of new and
evolving surgical techniques*

VATS / MICS INDEX

| | |
|--|-------|
| VATS/MICS Scissors (Metzenbaum, Supercut) | 4-5 |
| Double Action clamps | 6 |
| DeBakey clamps, Harken & Satinsky clamps ☼ | 7-9 |
| Slider 90° angled clamp ☼ | 10 |
| Dissector clamps (Dennis, DeBakey, and more) | 10 |
| Grasping clamps (Duval, Foerster, and more) | 11-12 |
| Needle Holders | 13 |

Supplies

| | |
|------------------------|----|
| Knot Pushers | 14 |
| Valve Pusher | 14 |
| Suction Instrument | 14 |
| Cardioplegia Needle | 15 |
| Gauge | 15 |
| Suction Tube (Nitinol) | 15 |



*selected clamps are offered
with and/or without ratchet
to facilitate ease of dissection*

To meet your specific needs modifications are available upon request.

Common modifications include:

jaw/tip modifications, ratchet modifications, length modifications, special etching, shaft width / length

DOUBLE ACTION SCISSORS



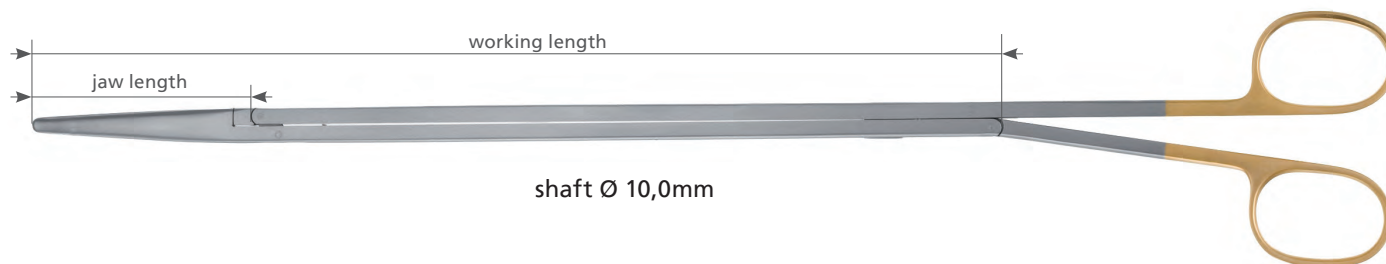
Metzenbaum scissors slightly curved

| Art.No. | shaft | jaw length | working length | total length | info |
|---------|-------|------------|----------------|--------------|----------------------|
| RA 8100 | 10mm | 73mm | 214mm | 326mm | slightly curved jaws |
| RA 8104 | 10mm | 73mm | 214mm | 366mm | slightly curved jaws |

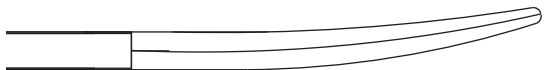


Metzenbaum scissors strongly curved

| Art.No. | shaft | jaw length | working length | total length | info |
|---------|-------|------------|----------------|--------------|----------------------|
| RA 8102 | 10mm | 67mm | 208mm | 320mm | strongly curved jaws |
| RA 8106 | 10mm | 67mm | 208mm | 360mm | strongly curved jaws |

SLIDING SHAFT SCISSORS




SuperCut slider scissors cvd.

| | Art.No. | shaft | jaw length | working length | total length | info |
|--|---------|-------|------------|----------------|--------------|--|
|  standard jaw | RA 8110 | 10mm | 55mm | 250mm | 360mm | curved jaws |
|  standard jaw with extra thin tip | RA 8112 | 10mm | 55mm | 250mm | 360mm | curved jaws (as RA 8110, but extra thin tip) |
|  short jaw | RA 8114 | 10mm | 35mm | 180mm | 290mm | curved short jaws |



SuperCut slider scissors cvd.

| | Art.No. | shaft | jaw length | working length | total length | info |
|---|------------|-------|------------|----------------|--------------|-------------------|
|  short jaw | RA 8116 | 5mm | 35mm | 228mm | 355mm | curved short jaws |
| | RA 8118-05 | 5mm | 35mm | 195mm | 320mm | curved short jaws |
| | RA 8120-05 | 5mm | 30mm | 165mm | 290mm | curved short jaws |

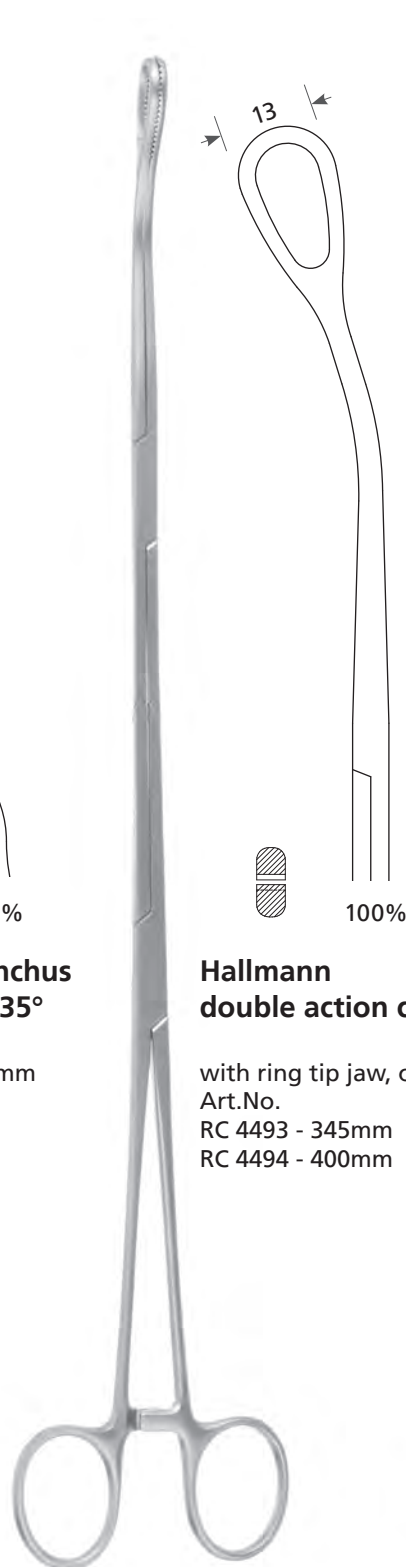
DOUBLE ACTION GRASPERS



Cooley bronchus clamp, jaw 35°

Art.No.
RC 5048 - 207mm

100%



Hallmann double action clamp

with ring tip jaw, cross teeth
Art.No.
RC 4493 - 345mm
RC 4494 - 400mm

100%



DeBakey Hallmann-Gregory double action clamp










with round ring tip jaw Ø 15mm
DB2x3 teeth
Art.No.
RC 4975 - 380mm
RC 4976 - 480mm

100%

DEBAKEY CLAMPS

SLIDING SHAFT CLAMPS





| DeBakey clamps | Art.No. teeth DB 1x2 | Art.No. teeth DB 2x3 | shaft | working length | total length | info |
|--|--|--|-------|-------------------|-----------------|--|
|  | RC 1794  | RC 1699  | 10mm | 200mm | 290mm | curved jaws 82mm jaw length with ratchet |
|  | RC 1793  | RC 1698  | | 240mm | 330mm | curved jaws 62mm jaw length with ratchet |
|  | RC 1792  | RC 1697  | | 270mm | 360mm | curved jaws 92mm jaw length with ratchet |

Rounded blunt ends - perfect for blunt dissection to mobilize the artery, vein and bronchus for **VATS procedures**:

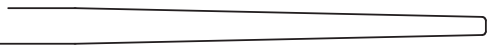
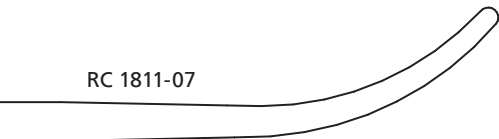
- as a **guide prior to stapling** by passing behind to replicate the direction of the linear stapler
- to clamp the lung tissue parallel to the stapler; this creates even tissue tension. The result: **smooth, even staple line**

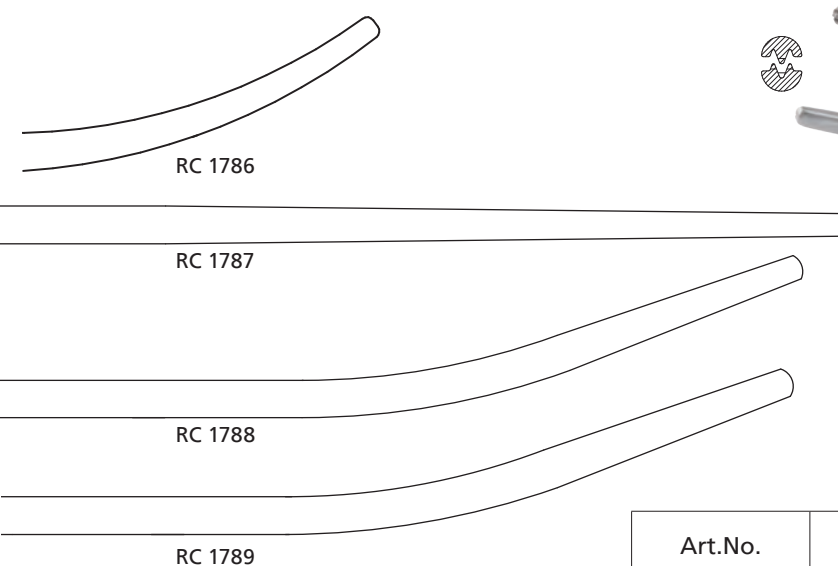
These clamps are used as an aortic cross-clamp for **MICS procedures** such as **mitral valve replacement or repair**.

Three jaw lengths (62mm, 82mm, 92mm) and two styles of DeBakey teeth,  and  accommodate a wide range of patient sizes and anatomy.

DEBAKEY CLAMPS

SLIDING SHAFT CLAMPS

| DeBakey clamp | Art.No. | shaft | working length | total length | info |
|--|------------|-------|----------------|--------------|--|
|  RC 1810-07 | RC 1810-07 | 7mm | 190mm | 290mm | straight jaws 65mm jaw length 2,5mm jaw tip width with ratchet |
|  RC 1811-07 | RC 1811-07 | | 230mm | 330mm | curved jaws 65mm jaw length 2,5mm jaw tip width with ratchet |



- Straight narrow jaws are to be used as a guide prior to stapling.
- Curved narrow jaws are perfect for blunt dissection to mobilize the artery, vein and bronchus.

| Art.No. | shaft | working length | total length | info |
|---------|-------|----------------|--------------|---|
| RC 1786 | 10mm | 190mm | 290mm | curved jaws 50mm jaw length 3,0mm jaw tip width with ratchet |
| RC 1787 | | 290mm | 380mm | straight jaws 110mm jaw length 3,0mm jaw tip width with ratchet |
| RC 1788 | | 290mm | 380mm | curved jaws 110mm jaw length 3,0mm jaw tip width with ratchet |
| RC 1789 | | 280mm | 370mm | curved jaws 105mm jaw length 3,8mm jaw tip width (stronger) |

The **narrowed jaws** (compared to DB 1x2 and DB 2x3 jaws from RC 1792/93/94 + RC 1697/98/99 on the opposite page) are specifically to facilitate and ease dissection of key structures during VATS procedures.

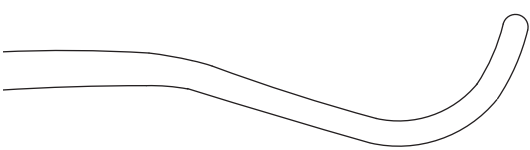
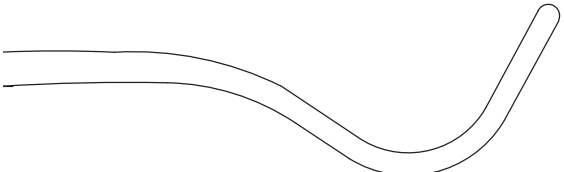
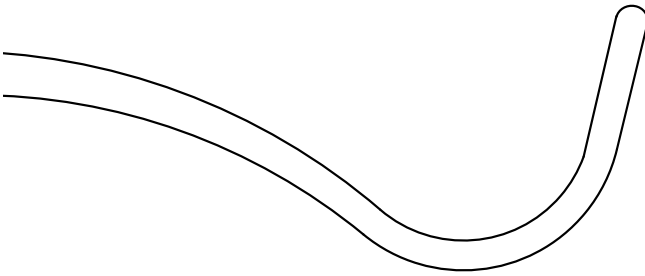
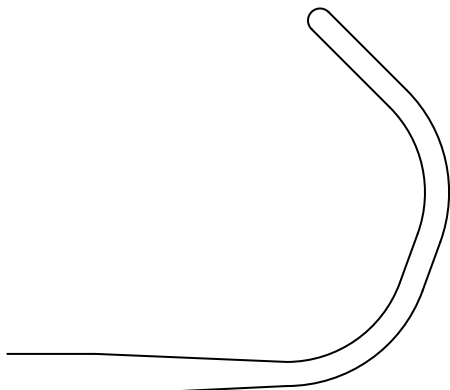
DEBAKEY CLAMPS

SLIDING SHAFT CLAMPS

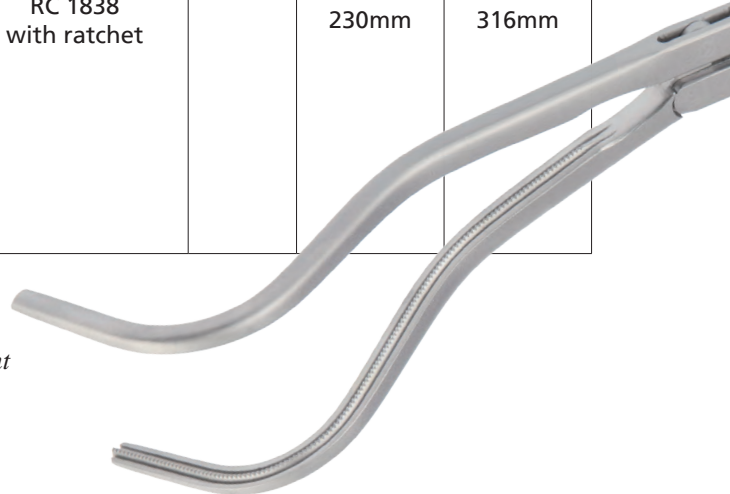
Harken & Satinsky Clamps



Sometimes also known as „pedicle clamp“ or „semb clamp“.

| | Art.No. | shaft | working length | total length |
|--|----------------------------|-------|----------------|--------------|
|  slightly cvd. | RC 1796 with ratchet | 10mm | 260mm | 349mm |
| | RC 1798 without ratchet | | | |
|  strongly cvd. | RC 1795 with ratchet | | 260mm | 347mm |
| | RC 1797 without ratchet | | | |
|  strongly cvd. (3,3mm jaw tip width) | RC 1799 with ratchet | | 270mm | 357mm |
|  satinsky jaw (3,0mm jaw tip width) | RC 1838 with ratchet | | 230mm | 316mm |

The blunt ends and curved shapes make them very useful for blunt dissection to mobilize and encircle the artery, vein and bronchus for a wide range of patient anatomy.







DISSECTORS

SLIDING SHAFT CLAMPS

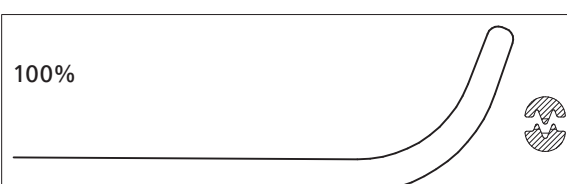



Slider 90° angled clamp

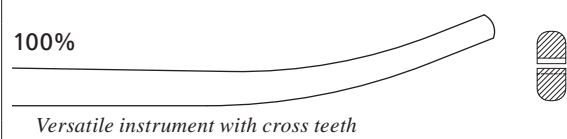
| | Art.No. | shaft | working length | total length | info |
|---|--|-------|----------------|--------------|---|
|  | 1. RC 1833 with ratchet | 10mm | 240mm | 330mm | 90° angled jaws DeBakey 1x2 teeth  |
| | RC 1834 without ratchet | | | | |
| | 2. RC 1812-10 without ratchet | | 250mm | 340mm | 90° angled jaws longitudinal teeth  |
| | 3. RC 1813-10 with ratchet RC 1813-11 without ratchet | | 250mm | 340mm | 90° angled jaws longitudinal and cross teeth  |

Fine, yet blunt 90° angled jaws is used for blunt dissection to mobilize and encircle the artery, vein and bronchus during VATS and MICS procedures.

DeBakey Slider dissecting clamp

| | Art.No. | shaft | working length | total length | info |
|---|------------|-------|----------------|--------------|---|
|  | RC 1851-05 | 5mm | 190mm | 290mm | Curved jaws DeBakey 1x2 teeth Without ratchet  |

Dennis dissecting clamp

| | Art.No. | shaft | working length | total length | info |
|---|------------|-------|----------------|--------------|---|
|  | RC 1835 | 10mm | 240mm | 330mm | Curved jaws 110mm Without ratchet |
| | RC 1835-07 | 7mm | 230mm | | Curved jaws 105mm With ratchet |
| | RC 1837-07 | | 280mm | 380mm | Curved jaws 105mm Without ratchet |





May be used for both VATS and MICS procedures such as: Haemostat, Dissector, an instrument that passes silk ties or a tube into the operative field for encircling the artery, vein and bronchus.

SLIDING SHAFT CLAMPS



Useful instrument for grasping and manipulating tissue.

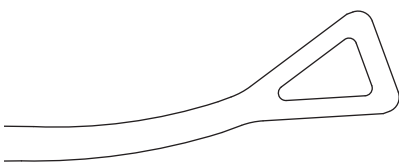


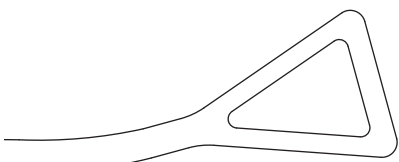


Grasping clamps

| 100% | Art.No. | | shaft | working length | total length | info |
|---|---|------------------------------------|-------|----------------|--------------|---|
|  |  | RC 1836 Glassman Allis teeth | 10mm | 250mm | 340mm | Curved jaws 67mm Jaw tip 8,2mm with ratchet |
|  |  | RC 1849-10 Allis 5x6 teeth | 10mm | 250mm | 330mm | Curved jaws 70mm Jaw tip 7,2mm with ratchet |

Grasping Clamps may be used for both VATS and MICS procedures such as: Lymph nodes, Bronchus, Pericardium, stiff or fibrous tissue



Duval clamps

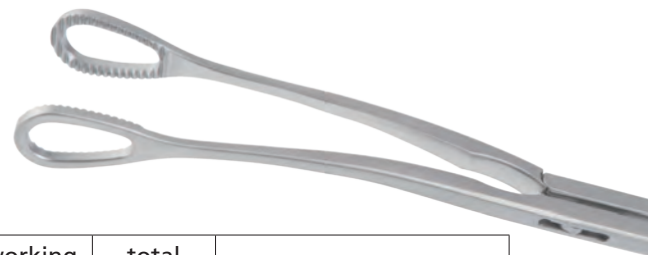
| 100% | Art.No. | | shaft | working length | total length | info |
|---|---|---------------------------|-------|----------------|--------------|---|
|  |  | RC 1831 DB1x2 teeth | 10mm | 250mm | 330mm | 14mm width triangular ring jaws cvd. with ratchet |
| |  | RC 1852-10 cross teeth | | | | |
|  |  | RC 1832 DB1x2 teeth | | 250mm | 330mm | 20mm width triangular ring jaws cvd. with ratchet |
| |  | RC 1850-10 cross teeth | | | | |





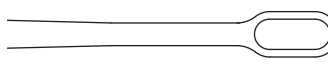












The triangular shape of the jaws are used during dissection of lymph nodes to securely grasp the nodes.

LUNG GRASPING CLAMPS

SLIDING SHAFT CLAMPS

Foerster grasping clamp







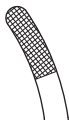


| 100% | | Art. No. | shaft | working length | total length | info |
|---|---|--|-------|----------------|--------------|---|
|  |  | RC 1827-05 (5mm tip in the top view) | 5mm | 240mm | 335mm | 6x11mm oval ring jaws curved with ratchet |
| |  | RC 1827-05S (3mm tip in the top view) | | | | |
| |  | RC 1858-05 | 5mm | 180mm | 280mm | |
|  |  | RC 1828-05 | 5mm | 240mm | 335mm | 6x11mm oval ring jaws straight with ratchet |
| |  | RC 1828 | 10mm | | | |
|  |  | RC 1829-07 | 7mm | 240mm | 335mm | 7x12mm oval ring jaws curved with ratchet |
| |  | RC 1829 | 10mm | | | |
|  |  | RC 1826-07 | 7mm | 240mm | 335mm | 10x16mm oval ring jaws curved with ratchet |
|  |  | RC 1830 | 10mm | 260mm | 350mm | 13x26mm oval ring jaws curved with ratchet |
|  |  | RC 1859-07 | 7mm | 180mm | 280mm | 20x35mm oval ring jaws curved with ratchet |
| |  | RC 1846-10 | 10mm | 250mm | 343mm | |

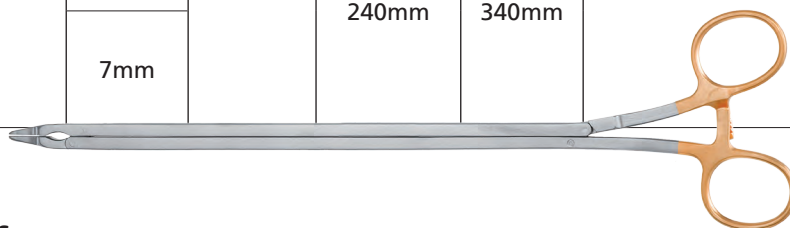
The oval shape of the jaws are used for both blunt dissection and also to apply pressure for control of bleeders.

NEEDLE HOLDERS

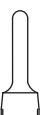
TC Needle Holders

Ring handle needle holders have the balance and confident feel of conventional ring handle needle holders

| straight jaw Art.No. | | curved jaw Art.No. | | suture size | shaft | jaw tip width | working length | total length | info |
|--|------------|--|------------|-----------------|-------|---------------|----------------|--------------|---|
|  | RN 2728 | — | | 5-0 thread max. | 10mm | 2,0mm | 200mm | 248mm | <div></div> <div>Tungsten-Carbide inserts Gold ring handle With ratchet</div> <div><i>Tungsten Carbide (TC) inserts provide a very secure grasp of the needle, even when driving the needle through fibrous or calcified tissue</i></div> <div></div> |
|  | RN 2730 |  | RN 2732 | 4-0 thread max. | 10mm | 3,0mm | 200mm | 248mm | |
|  | RN 2740 |  | RN 2742 | 2-0 thread max. | 10mm | 4,0mm | 180mm | 285mm | |
| | — | | 7mm | | | | | | |
| | RN 2741 | | RN 2743-10 | | 10mm | | | | |
| | RN 2741-07 | | RN 2743-07 | | 7mm | | 240mm | 340mm | |




Diamond Dusted Ring Handle Needle Holders

| | Art.No. | suture size | shaft | jaw tip width | working length | total length | info |
|---|---------|-----------------|-------|------------------|----------------|--------------|--|
|  | RN 2720 | 5-0 thread max. | 10mm | 2,0mm (standard) | 190mm | 278mm | straight jaws Diamond Dusted jaws Ring Handle |
| | RN 2722 | 5-0 thread max. | 10mm | 1,4mm (delicate) | 190mm | 278mm | <i>Diamond Dusted jaws provide a very secure grip on the most delicate needles yet won't damage them</i> |



Spring-Style ENDO Needle Holder

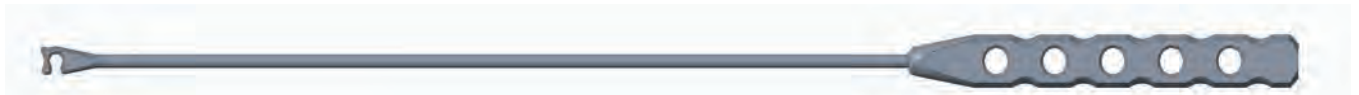
| | Art.No. | suture size | shaft | jaw tip width | working length | total length | info |
|---|---------|-----------------|-------|---------------|----------------|--------------|---|
|  | RN 2724 | 5-0 thread max. | 5mm | 2mm | 230mm | 433mm | straight jaws Diamond Dusted jaws Spring-style handle design ENDO |

Suction Instrument



| Art.No. | shaft | jaw tip width | working length | total length | info |
|---------|-------|---------------|----------------|--------------|--|
| RL 2021 | 5mm | 5mm | 350mm | 475mm | MICS Suction Instrument <i>Side holes provide gentle and very functional suction. 5mm shaft and tip opening prevents clog during procedure. Blunted tip can safely be used for both: suction and dissection.</i> |

Knot Pusher



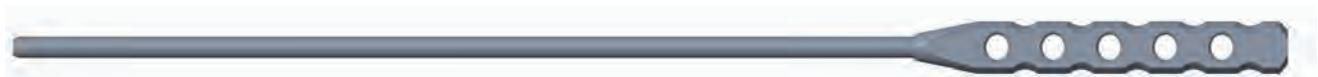
| Art.No. | shaft | working length | total length |
|---------|-------|----------------|--------------|
| RC 0455 | 5mm | 150mm | 250mm |
| RC 0456 | 5mm | 200mm | 300mm |
| RC 0461 | 5mm | 220mm | 320mm |

Knot Pusher



| Art.No. | shaft | working length | total length |
|---------|-------|----------------|--------------|
| RC 0451 | 5mm | 230mm | 330mm |

Valve Pusher



| Art.No. | shaft | working length | total length |
|---------|-------|----------------|--------------|
| RC 0459 | 5mm | 240mm | 340mm |

Cardioplegia Needle



| Art.No. | jaw tip width | total length |
|---------|---------------|--------------|
| RC 0462 | 2,0mm | 340mm |
| RC 0463 | 3,0mm | 340mm |

Nitinol Suction Tube



| Art. No. | jaw tip width | total length |
|----------|---------------|--------------|
| RL 1410 | 2,0mm | 180mm |
| RL 1411 | 3,0mm | 180mm |
| RL 1412 | 4,0mm | 180mm |

Gauge

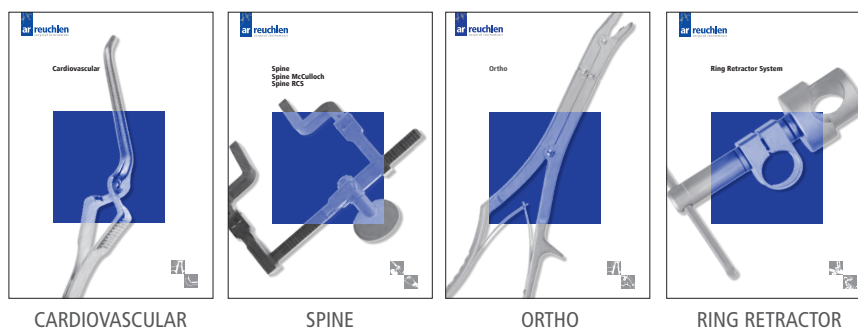


| Art.No. | total length | info |
|---------|--------------|--------|
| RK 2119 | 340mm | 3-30mm |

Brochures available



Catalogs available



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