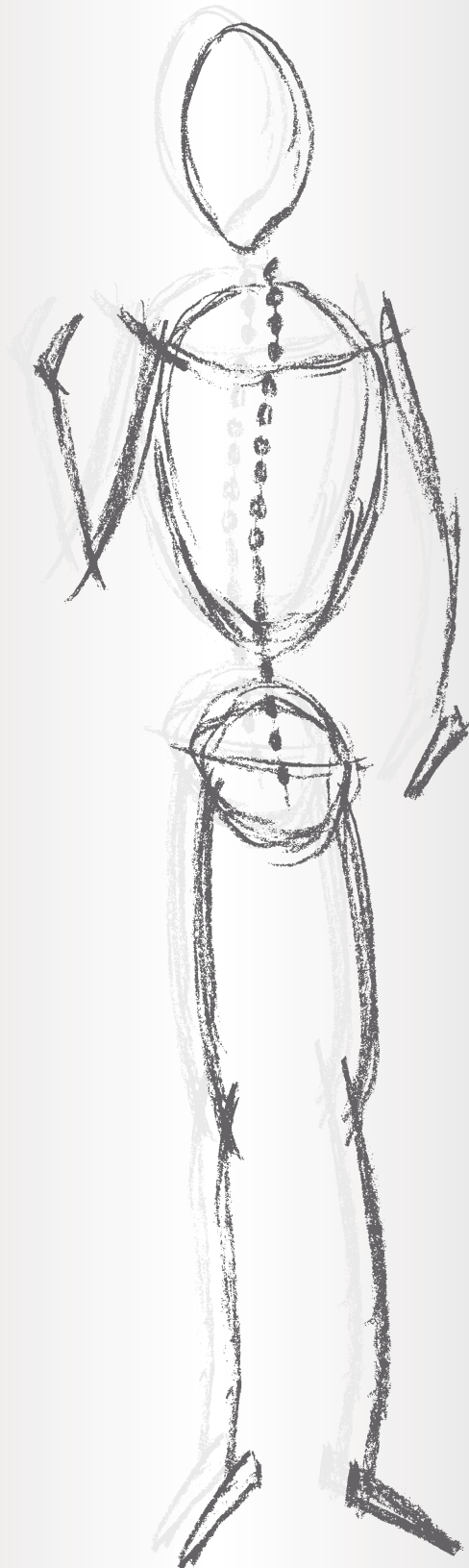




LAPAROSCOPY

**REDA**

INSTRUMENTE GMBH



<b>Laparoscopes</b>	<b>1</b>
<b>Trocar sleeves and accessories</b>	<b>2</b>
<b>Forceps</b>	<b>3</b>
<b>Scissors and biopsy forceps</b>	<b>4</b>
<b>Needleholder and suture instruments</b>	<b>5</b>
<b>HF-Instruments and accessories</b>	<b>6</b>
<b>Suction-Irrigation-Systems and accessories</b>	<b>7</b>
<b>Cholangiography</b>	<b>8</b>
<b>Palpation and retractors</b>	<b>9</b>
<b>Pediatric instruments</b>	<b>10</b>
<b>Thoracic instruments</b>	<b>11</b>
<b>Gynecology instruments</b>	<b>12</b>
<b>Urology retractor</b>	<b>13</b>
<b>Light Cable and connectors</b>	<b>14</b>

## IMPORTANT INFORMATION CONCERNING PREPARING AND STERILIZING SURGICAL INSTRUMENTS

Dear Sirs,  
please read the following instructions very carefully before using the instruments.

### 1. INITIAL USE

All instruments which are being used for the first time must be thoroughly cleaned, rinsed and then sterilized before using.

### 2. TREATING INSTRUMENTS AFTER USAGE

- a.) The instruments might be immediately thoroughly cleaned and disinfected. Please follow the manufacturer's instructions when using cleaning agents and disinfectants.
- b.) Instruments which may be dismantled must be cleaned and disinfected after being taken apart.
- c.) Cleaning may be carried out either manually or with a machine. Care should be taken that only cleaning agents and disinfectants are used, which are changed daily.
- d.) Following chemical disinfection and manual cleaning, all instruments must always be thoroughly rinsed under running water.
- e.) The temperature of water used in a machine for cleaning should not exceed 45°C.
- f.) Whether cleaning is carried out manually or by machine, we especially ask you to ensure that the correct dosage for cleaning solutions or the correct combination of disinfectant and cleaning solution, is employed. Similar importance should be applied to the length of time the agents require to perform properly and to the temperature set.
- g.) Hinged instruments should be opened before cleaning.
- h.) Please ensure that the perforated instrument trays, when loaded, do not exceed 10 kg in weight.
- i.) Please take care that when instruments are being cleaned they are arranged proper in a manne that fluids can circulate freely.
- j.) Deposits remaining after the cleaning process must be completely removed in the first rinse which now follows. The optimum temperature for final rinsing has proved to be between 70° and 90° C. Please use only purified water in this final cleaning stage.
- k.) The instruments must be carefully dried after cleaning and rinsing is completed.
- l.) Moving parts and the cutting edges of shears and scissors must be treated with preservatives which are both suitable and physiologically safe.

### 3. TESTING FOR CORRECT FUNCTIONING

- a.) Instruments must be carefully and thoroughly checked before every occasion that they are used.
- b.) After each time they are cleaned, the instruments must be macroscopically clean, i.e., visibly free from proteinbased residues and other soiling.
- c.) Care should be taken so that cracks, breakages and corrosion are noticed.
- d.) Instruments with flecks should be separated and taken out for special treatment.

- e.) All moving parts as well as working tips and blades should be checked with special care.
- f.) Checking should be carried out according to the extent to which the instruments will be used.
- g.) Instruments which are in any way defective or damaged should be immediately sorted out from the others.

### 4. STERILIZATION

- a.) All stainless steel surgical instruments supplied by us may be sterilized in an autoclave.
- b.) Please follow the manufacturer's operating instructions when using autoclave. All machines used must comply with all current quality and other standards.
- c.) Instruments are being sterilized/ autoclaved at a temperature of 134°C.
- d.) Sterilization packing material must comply with all current standards.
- e.) Instruments with ratchets or self-retaining mechanisms should be sterilized opened or in the first ratchet position.
- f.) Please ensure that perforated instrument trays, when loaded do not exceed 10 kg in weight.

### 5. IN GENERAL

- a.) All surgical instruments supplied by us have been thoroughly inspected before dispatch and leave our factory in perfect condition. Damage which can arise as a result of transporting, cleaning, preserving, sterilizing or storing, must be prevented.
- b.) Please handle surgical instruments always with the utmost care.
- c.) Instruments must be stored in a clean and dry place.
- d.) If you have any queries or problems please contact us at any time:

We should like to point out that, if the above-mentioned directions are not followed or the instruments supplied by us are not properly used, all guarantee claims become void and any consequences must be borne by yourselves.

REV. 2005/01

Laparoscopes with integrated fiberoptic for illumination, autoclavable suitable for HD Systems

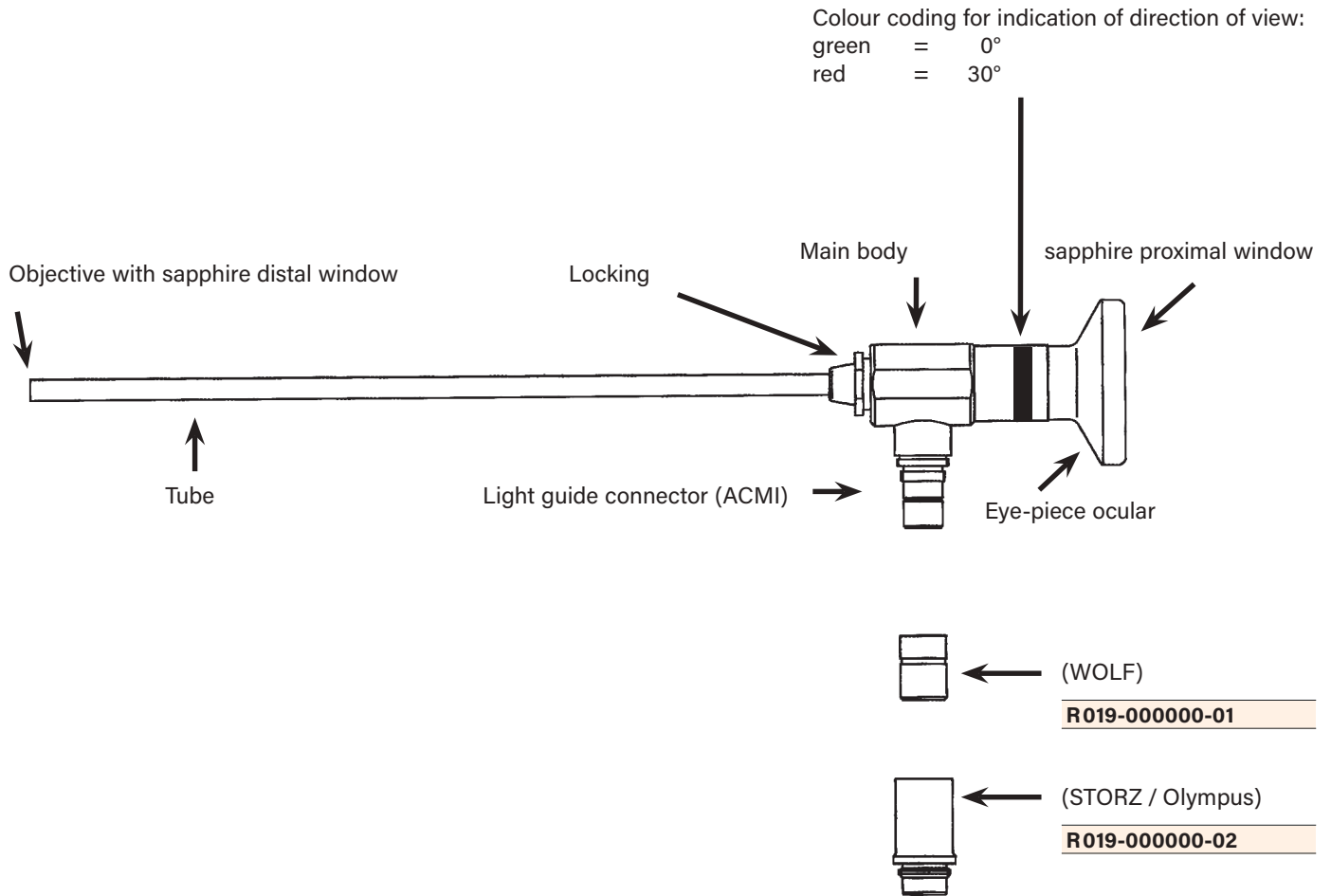


### Compatibility

<b>Light port adapter</b>	ACMI <sup>®</sup> -, Wolf <sup>®</sup> -, Storz <sup>®</sup> / Olympus <sup>®</sup>
<b>Eyepiece</b>	Ocular according DIN 58105 threaded
<b>Objective</b>	Tension-free objective composed-objective
<b>Image transmission</b>	CAD-designed rodience system for optimal sharpness, colorsync and resolution
<b>Light-guiding system</b>	High quality light fibers
<b>Optical glass</b>	Distal and proximal Sapphire
<b>Biocompatibility</b>	All materials that come in contact with the body are biocompatible. All outside metal parts are made of high quality stainless steel.

Ø	working length	direction of view	
		0°	30°
5,0 mm	302 mm	<b>R010-050302-000</b>	<b>R010-050302-030</b>
10,0 mm	310 mm	<b>R010-100309-000</b>	<b>R010-100309-030</b>
10,0 mm	350 mm	<b>R010-100350-000</b>	<b>R010-100350-030</b>

**Endoscope**





Anti Fog liquid Ultra Stop sterile incision bottle 30ml

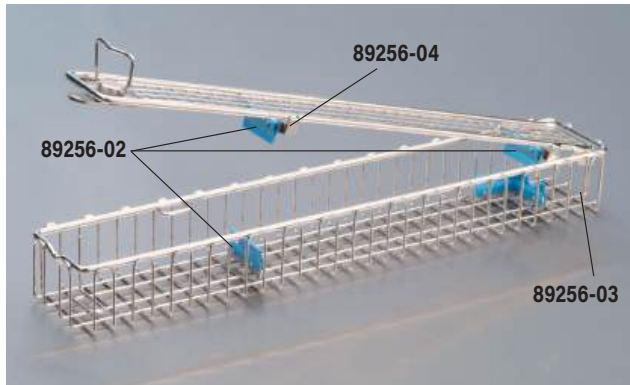
**R019-000000-030**



Cleaning paste, 6gr. f. distal and proximal windows and fiber optic port of endoscopes

**98002-06**

Wire basket for endoscopes



460 x 80 x 52 mm  
for 1 laparoscope or 1 hysteroscope or 1 cystoscope

**89256-46**

460 x 80 x 52 mm  
for 2 laparoscopes or 2 hysteroscopes or 2 cystoscopes

**89257-46**

Storage- and sterilization rack



470 x 250 x 125 mm  
5 / 10 mm Ø  
for 15 MIS instruments suitable for container R 110.20

**89258-47**

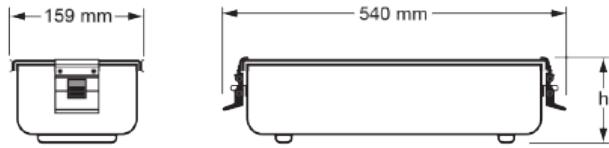
Endoscope Basket (with stand)



Outside dimensions 500 x 135 x 50 mm

**89450-50**

Containers for Endoscopy



540 x 159 x 80 mm

540 x 159 x 80 mm

R 614.08
R 624.08
R 634.08
R 644.08
R 654.08
R 664.08

R 614.10
R 624.10
R 634.10
R 644.10
R 654.10
R 664.10



Containers for Endoscopes  
(with silicone stand, lock and label)

270 x 70 x 65 mm



475 x 80 x 65 mm



R 516.07
R 526.07
R 536.07
R 546.07
R 556.07
R 566.07

R 517.07
R 527.07
R 537.07
R 547.07
R 557.07
R 567.07



R 516.08
R 526.08
R 536.08
R 546.08
R 556.08
R 566.08

R 517.08
R 527.08
R 537.08
R 547.08
R 557.08
R 567.08



S-retractor



7 mm / 2 pcs.	10 mm / 2 pcs.	13 mm / 2 pcs.	16 mm / 2 pcs.
<b>R020-000000-007</b>	<b>R020-000000-010</b>	<b>R020-000000-013</b>	<b>R020-000000-016</b>

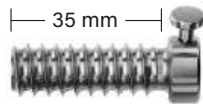
Ø 5 mm

Multi function trocar sleeve,  
valvehousing with thread lock

R025-050092-001



Trocar stop



R020-050035-001

Dilation set



5 < 10 mm

5 < 11 mm

R027-050100-000

R027-050110-000

Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box



Ø 5,0 mm

R020-050000-004

Spare part set consisting of 10 pcs per box



Ø 5,0 mm

R022-050000-000

Ø 5 mm

**Standard trocar**



pyramidal

**R020-050092-001**



conical

**R020-050092-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-050092-051**



conical

**R020-050092-052**

**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-050092-011**



with halfmoon grinding  
and oblique tip

**R020-050092-016**

**Protection trocar**



with halfmoon grinding  
and oblique tip

**R020-050092-024**



with halfmoon grinding  
and V-formed tip

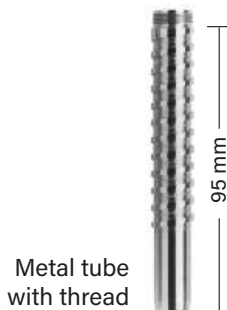
**R020-050092-025**

**Reducer sleeve 5 > 4 mm**



**R026-055030-003**

Ø 5,5 mm



Drap door valve trocar sleeve



R022-055095-001

R022-055098-002

R022-055095-003

R022-055098-004

Silicone valve trocar sleeve



R024-055095-001

Multi function trocar sleeve, valvehousing with thread lock



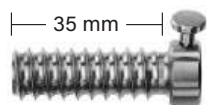
R025-055095-001

R025-055098-002

R025-055095-003

R025-055098-004

Trocar stop



R020-055035-001

Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box



Ø 5,5 mm

R020-050000-004

Spare part set consisting of 10 pcs per box



Ø 5,5 mm

R022-055000-000

Ø 5,5 mm

**Standard trocar**



pyramidal

**R020-055095-001**



conical

**R020-055095-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-055095-051**



conical

**R020-055095-052**

**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-055095-011**



with halfmoon grinding  
and oblique tip

**R020-055095-016**

**Safety trocar with Knife**



Obturator tip "KNIFE DESIGN"

**R020-055095-028**

**Protection trocar**



with halfmoon grinding  
and oblique tip

**R020-055095-024**



with halfmoon grinding  
and V-formed tip

**R020-055095-025**

Ø 5,5 mm / 150 mm WL

Drap door valve trocar sleeve

R022-055150-001



Silicone valve trocar sleeve

R024-055150-001



Multi function trocar sleeve,  
valvehousing with thread lock

R025-055150-001



Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box



Ø 5,5 mm

R020-050000-004

Spare part set consisting of 10 pcs per box



Ø 5,5 mm

R022-055000-000

Ø 5,5 mm / 150 mm WL

**Standard trocar**



pyramidal

**R020-055150-001**



conical

**R020-055150-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-055150-051**



conical

**R020-055150-052**

**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-055150-011**

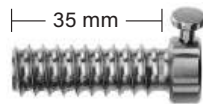
Ø 10 mm

Multi function trocar sleeve,  
valvehousing with thread lock

R025-100097-001



Trocar stop



R020-100035-001

Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box



Ø 10,0 mm

R020-100000-008

Spare part set consisting of 10 pcs per box



Ø 10,0 mm

R022-100000-000

Reducer sleeve 10 > 5,5 mm

Plastic reducer for multi function trocar sleeve only



190 mm

R026-100055-003



reducer with silicone latch

R026-100055-002

Ø 10 mm

**Standard trocar**



pyramidal

**R020-100097-001**



conical

**R020-100097-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-100097-051**



conical

**R020-100097-052**

**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-100097-011**



with halfmoon grinding  
and oblique tip

**R020-100097-016**

**Protection trocar**



with halfmoon grinding  
and oblique tip

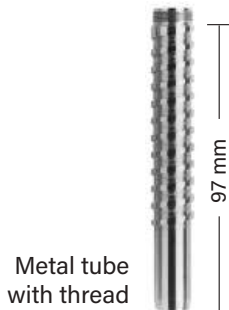
**R020-100097-024**



with halfmoon grinding  
and V-formed tip

**R020-100097-025**

Ø 11 mm



**Drap door valve trocar sleeve**



R022-110101-001

R022-110105-002

R022-110101-003

R022-110105-004

**Silicone valve trocar sleeve**



R024-110101-001

R024-110105-002

R024-110101-003

R024-110105-004

**Multi function trocar sleeve, valvehousing with thread lock**



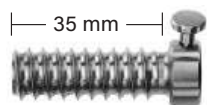
R025-110101-001

R025-110105-002

R025-110101-003

R025-110105-004

**Trocar stop**



R020-110035-001

**Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box**



Ø 11,0 mm

R020-110000-009

**Spare part set consisting of 10 pcs per box**



Ø 11,0 mm

R022-110000-000

Ø 11 mm

**Standard trocar**



pyramidal

**R020-110101-001**



conical

**R020-110101-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-110101-051**



conical

**R020-110101-052**

**Safety trocar with automatic locking**



with pyramidal grinding and rounded tip

**R020-110101-011**



with halfmoon grinding and oblique tip

**R020-110101-016**

**Safety trocar with Knife**



Obturator tip "KNIFE DESIGN"

**R020-110101-028**

**Protection trocar**



with halfmoon grinding and oblique tip

**R020-110101-024**



with halfmoon grinding and V-formed tip

**R020-110101-025**

**Reducer sleeve 11 > 5,5 mm**



190 mm

**R026-110055-003**

**Plastic reducer for multi function trocar sleeve only**



reducer with silicone Latch

**R026-110055-002**



**R026-125055-004**

Ø 11 mm / 150 mm WL

Drap door valve trocar sleeve

R022-110150-001



Silicone valve trocar sleeve

R024-110150-001



Multi function trocar sleeve,  
valvehousing with thread lock

R025-110150-001



Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box



Ø 11,0 mm

R020-110000-009

Spare part set consisting of 10 pcs per box



Ø 11,0 mm

R022-110000-000

Ø 11 mm / 150 mm WL

**Standard trocar**



pyramidal

**R020-110150-001**



conical

**R020-110150-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-110150-051**



conical

**R020-110150-052**

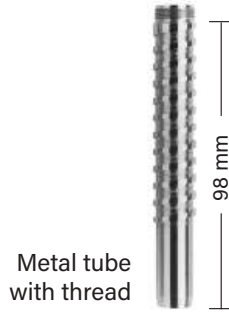
**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-110150-011**

Ø 12,5 mm



**Multi function trocar sleeve, valvehousing with thread lock**



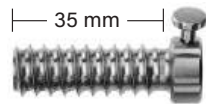
R025-125098-001

R025-125102-002

R025-125098-003

R025-125102-004

**Trocar stop**



R020-125035-001

**Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box**



Ø 12,5 mm

R020-125000-011

**Spare part set consisting of 10 pcs per box**



Ø 12,5 mm

R022-125000-000

**Reducer sleeve 12,5 > 5,5 mm**

**Plastic reducer for multi function trocar sleeve only**



190 mm

R026-125055-003



reducer with silicone latch



12,5 > 10 mm

R026-125100-002

R026-125100-004

12,5 > 5,5 mm

R026-125055-002

R026-125055-004

Ø 12,5 mm

**Standard trocar**



pyramidal

**R020-125098-001**



conical

**R020-125098-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-125098-051**



conical

**R020-125098-052**

**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-125098-011**



with halfmoon grinding  
and oblique tip

**R020-125098-016**

**Safety trocar with Knife**



Obturator tip "KNIFE DESIGN"

**R020-125098-028**

**Protection trocar**



with halfmoon grinding  
and oblique tip

**R020-125098-024**



with halfmoon grinding  
and V-formed tip

**R020-125098-025**

Ø 12,5 mm / 150 mm WL

Multi function trocar sleeve,  
valvehousing with thread lock

R025-125150-001



Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box



Ø 12,5 mm

R020-125000-011

Spare part set consisting of 10 pcs per box



Ø 12,5 mm

R022-125000-000

Ø 12,5 mm / 150 mm WL

**Standard trocar**



pyramidal

**R020-125150-001**



conical

**R020-125150-002**

**Standard trocar with hole, permeable**



pyramidal

**R020-125150-051**



conical

**R020-125150-052**

**Safety trocar with automatic locking**



with pyramidal grinding  
and rounded tip

**R020-125150-011**

**Ø 15 mm** Automatic trocar sleeve with smooth metal tube, housing with winding locking and stopcock

**Trocar sleeve, smooth metal tube**



15 mm Ø / WL 110 mm

**R025-150095-011**

**Standard trocar 15 mm Ø**



pyramidal

**R020-150096-001**



conical

**R020-150096-002**

**Dilatation sleeve with guide rod**



Ø 5,0 mm - 15,0 mm

**R027-050150-000**

Ø 10,0 mm - 15,0 mm

**R027-110150-000**

**Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box**



Ø 15,0 mm

**R020-150000-013**

**Spare part set consisting of 10 pcs per box**



Ø 15,0 mm

**R022-150000-000**

**Reducer sleeve**



15 > 5,5 mm

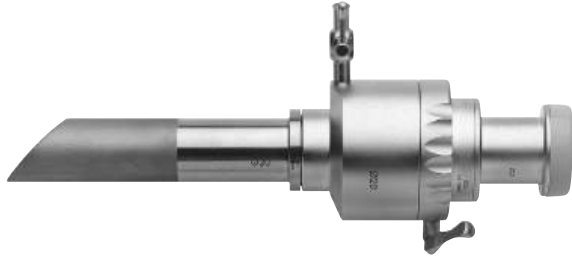
**R026-150055-003**

15 > 10 mm

**R026-150100-003**

**Ø 20 mm** Automatic trocar sleeve with smooth metal tube, housing with winding locking and stopcock

**Trocar sleeve, smooth metal tube**



20 mm Ø / WL 119 mm

**R025-200095-011**

**Standard trocar 20 mm Ø**



pyramidal

**R020-200096-001**



conical

**R020-200096-002**

**Dilatation sleeve with guide rod**



Ø 5,0 mm - 20,0 mm

**R027-050200-000**

Ø 10,0 mm - 20,0 mm

**R027-110200-000**

**Rubber washer for proximal instrument port suitable to lap. trocar sleeves / 10 pcs per box**



Ø 20,0 mm

**R020-200000-018**

**Spare part set consisting of 10 pcs per box**



Ø 20,0 mm

**R022-200000-000**

**Reducer sleeve**



20 > 10 mm

**R026-200100-003**

Hasson automatic trocar sleeve with stopcock, adjustable cone and suture holder at cone



Ø	Sleeve with Cone	Cone alone	Cone alone
5,5 mm	<b>R028-055095-021</b>	<b>R020-055500-001</b>	
11,0 mm	<b>R028-110101-021</b>	<b>R020-110500-001</b>	<b>R020-110700-001</b>
12,5 mm	<b>R028-125098-021</b>	<b>R020-125500-001</b>	

Standard trocar



conical blunt

<b>R020-035070-003</b>	Ø 3,5 mm
<b>R020-055095-003</b>	Ø 5,5 mm
<b>R020-110101-003</b>	<b>Ø 11,0 mm</b>
<b>R020-125098-003</b>	Ø 12,5 mm



Ø 5 und 10 mm



### Mechanical snap-action coupling !

The Ø 5 and 10 mm modular REDA laparoscopic instruments have a unique snap-action coupling which, offering the combined advantage of the speediest possible assembly and a long service life.

The union of the working insert and sleeve shaft is achieved by simply inserting the components axially into each other. A simple click and you are ready!

The groove-and-tongue principle practically rules out the possibility of the locking mechanism coming undone, as is the case with conventional screw or bayonet connections.

REDA - simplicity is so clever !

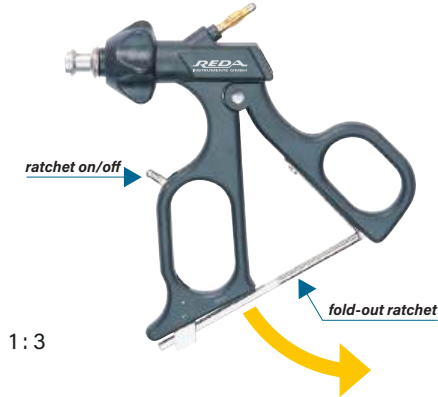


### Nut stopper

An nut on the sleeve shaft of REDA modular instruments prevents bothersome slipping or even the loss of the union nut.

REDA - detail is the decisive factor !

Ø 3 / 5 / 10 mm



Ergonomic universal carbon handle with ratchet,  
Lever for active or unactiv ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033** - 000000 - 000



Ergonomic carbon handle with stepless ratchet,  
ratchet by finger press resolve, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033P** - 000000 - 000



Ergonomic carbon handle,  
HF-connector Ø 4 mm male 45° lateral, rotating head 360°, autoclavable

**R034** - 000000 - 000



Ergonomic universal carbon handle with ratchet,  
Button for active or unactiv ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

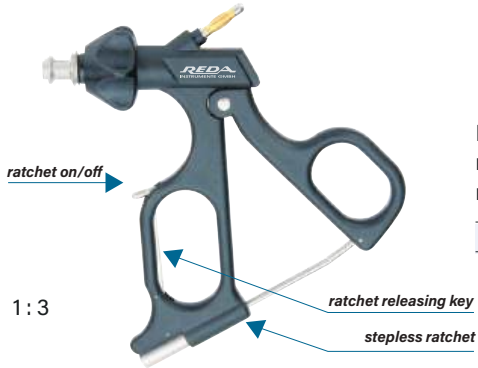
**R032M** - 000000 - 000



Laparoscopy -  
Carbon Handles for Ø 3 / 5 / 10 mm tube shafts



Ø 3 / 5 / 10 mm



Ergonomic carbon handle with stepless ratchet,  
ratchet activating / release lever, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033M - 000000 - 000**



Protection cap for HF-connector Ø 4 mm

**R030 - 000000**

Ø 3 / 5 / 10 mm



1:3

Axial handle, v-shaped type with spreading spring and ratchet

**R038** - 000000 - 000



1:3

Axial handle, with spreading spring

**R048** - 000000 - 000



1:3

Axial handle with rings and ratchet

**R037** - 000000 - 000



1:3

Axial ring handle

**R047** - 000000 - 000



Axial handle, v-shaped angled, type with spreading spring and ratchet

**R039** - 000000 - 000



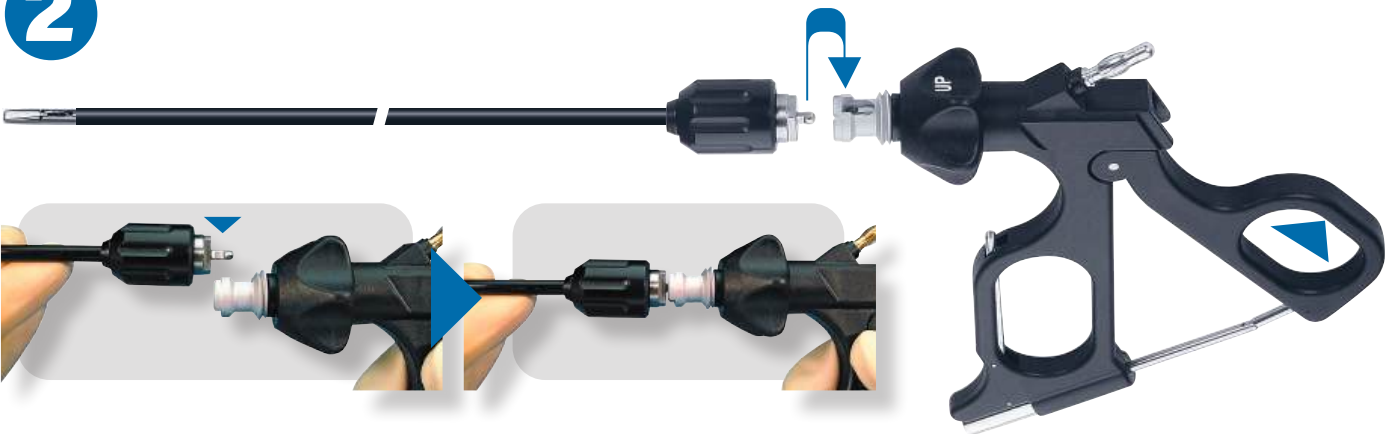
Axial handle, angled, with spreading spring

**R040** - 000000 - 000

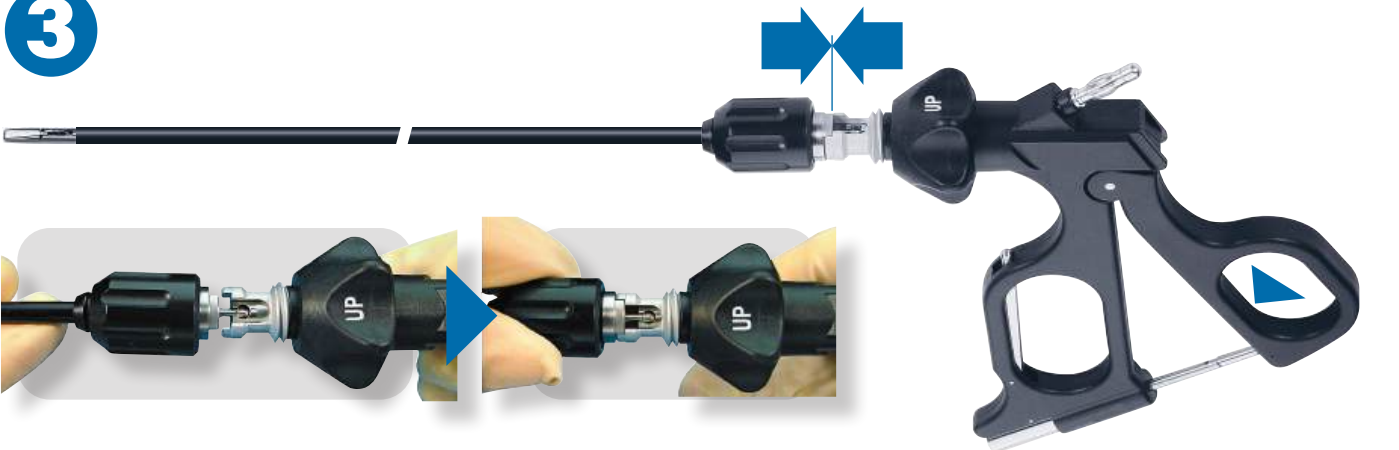
**1**



**2**

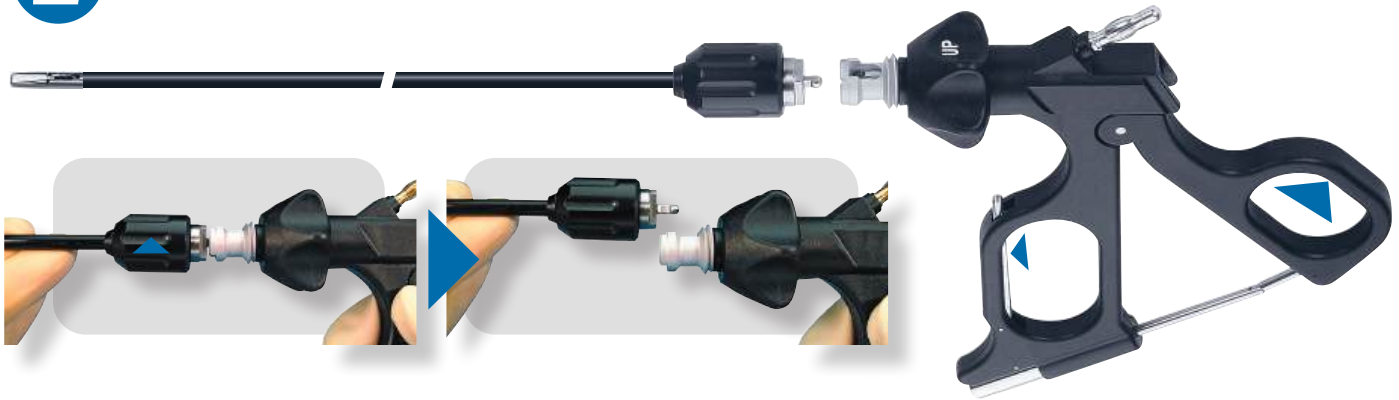
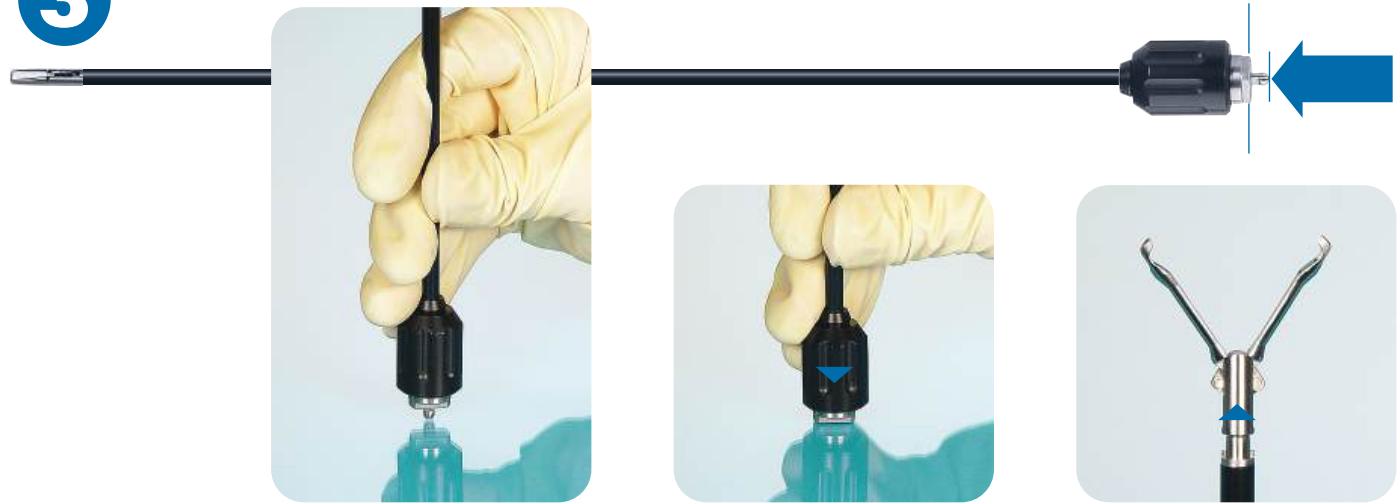


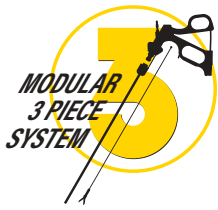
**3**



**4**



**1****2****3****4**



**Ø 5 mm**

Tube Shaft, insulated	shaft length: <b>330 mm</b>
without LUER Lock	with LUER Lock
<b>R030 - 050330 - 000</b>	<b>R030 - 050330 - 000 L</b>

Tube Shaft, insulated	shaft length: <b>360 mm</b>
without LUER Lock	with LUER Lock
<b>R030 - 050360 - 000</b>	<b>R030 - 050360 - 000 L</b>

Tube Shaft, insulated	shaft length: <b>450 mm</b>
without LUER Lock	with LUER Lock
<b>R030 - 050450 - 000</b>	<b>R030 - 050450 - 000 L</b>

**Ø 10 mm**

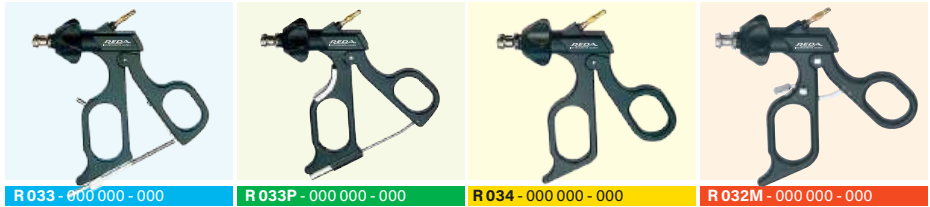
Tube Shaft, insulated	shaft length: <b>330 mm</b>
cylindrical	with LUER Lock
<b>R030 - 100330 - 000</b>	<b>R030 - 100330 - 000 L</b>

Tube Shaft, insulated, for adipose patients	shaft length: <b>360 mm</b>
cylindrical	with LUER Lock
<b>R030 - 100360 - 000</b>	<b>R030 - 100360 - 000 L</b>

Tube Shaft, insulated, for adipose patients	shaft length: <b>450 mm</b>
cylindrical	with LUER Lock
<b>R030 - 100450 - 000</b>	<b>R030 - 100450 - 000 L</b>

**Carbon Handles**

more details at the beginning of the chapter



R 033 - 000 000 - 000

R 033P - 000 000 - 000

R 034 - 000 000 - 000

R 032M - 000 000 - 000

Ø 5 mm

17,5 mm



Universal grasping forceps, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-210	R033-050330-210	R033P-050330-210	R034-050330-210	R032M-050330-210
360 mm	R030-050360-210	R033-050360-210	R033P-050360-210	R034-050360-210	R032M-050360-210
450 mm	R030-050450-210	R033-050450-210	R033P-050450-210	R034-050450-210	R032M-050450-210

17,5 mm



MARYLAND grasping and dissecting forceps, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-212	R033-050330-212	R033P-050330-212	R034-050330-212	R032M-050330-212
360 mm	R030-050360-212	R033-050360-212	R033P-050360-212	R034-050360-212	R032M-050360-212
450 mm	R030-050450-212	R033-050450-212	R033P-050450-212	R034-050450-212	R032M-050450-212

16 mm



Dissecting forceps, fenestrated, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-213	R033-050330-213	R033P-050330-213	R034-050330-213	R032M-050330-213
360 mm	R030-050360-213	R033-050360-213	R033P-050360-213	R034-050360-213	R032M-050360-213
450 mm	R030-050450-213	R033-050450-213	R033P-050450-213	R034-050450-213	R032M-050450-213

15 mm



Dissecting forceps, fenestrated, oval, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-214	R033-050330-214	R033P-050330-214	R034-050330-214	R032M-050330-214
360 mm	R030-050360-214	R033-050360-214	R033P-050360-214	R034-050360-214	R032M-050360-214
450 mm	R030-050450-214	R033-050450-214	R033P-050450-214	R034-050450-214	R032M-050450-214

**Carbon Handles**

more details at the beginning of the chapter

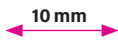


**Ø 5 mm**



Duck Bill-forceps, fenestrated, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-215</b>	<b>R033-050330-215</b>	<b>R033P-050330-215</b>	<b>R034-050330-215</b>	<b>R032M-050330-215</b>
<b>360 mm</b>	<b>R030-050360-215</b>	<b>R033-050360-215</b>	<b>R033P-050360-215</b>	<b>R034-050360-215</b>	<b>R032M-050360-215</b>
<b>450 mm</b>	<b>R030-050450-215</b>	<b>R033-050450-215</b>	<b>R033P-050450-215</b>	<b>R034-050450-215</b>	<b>R032M-050450-215</b>



Dissecting grasping forceps, slim, fenestrated, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-216</b>	<b>R033-050330-216</b>	<b>R033P-050330-216</b>	<b>R034-050330-216</b>	<b>R032M-050330-216</b>
<b>360 mm</b>	<b>R030-050360-216</b>	<b>R033-050360-216</b>	<b>R033P-050360-216</b>	<b>R034-050360-216</b>	<b>R032M-050360-216</b>
<b>450 mm</b>	<b>R030-050450-216</b>	<b>R033-050450-216</b>	<b>R033P-050450-216</b>	<b>R034-050450-216</b>	<b>R032M-050450-216</b>



Grasping forceps with 2 x 4 teeth cobra, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-218</b>	<b>R033-050330-218</b>	<b>R033P-050330-218</b>	<b>R034-050330-218</b>	<b>R032M-050330-218</b>
<b>360 mm</b>	<b>R030-050360-218</b>	<b>R033-050360-218</b>	<b>R033P-050360-218</b>	<b>R034-050360-218</b>	<b>R032M-050360-218</b>
<b>450 mm</b>	<b>R030-050450-218</b>	<b>R033-050450-218</b>	<b>R033P-050450-218</b>	<b>R034-050450-218</b>	<b>R032M-050450-218</b>

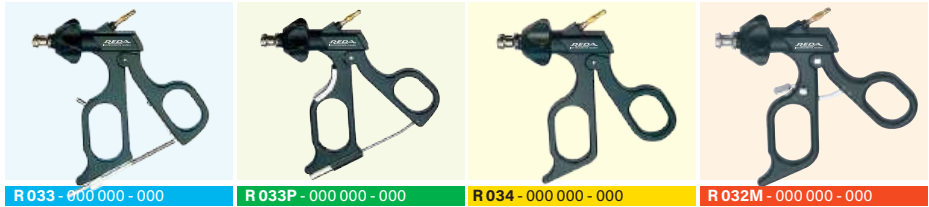


MAHNES Grasping forceps with 2 x 4 teeth cobra, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-219</b>	<b>R033-050330-219</b>	<b>R033P-050330-219</b>	<b>R034-050330-219</b>	<b>R032M-050330-219</b>
<b>360 mm</b>	<b>R030-050360-219</b>	<b>R033-050360-219</b>	<b>R033P-050360-219</b>	<b>R034-050360-219</b>	<b>R032M-050360-219</b>
<b>450 mm</b>	<b>R030-050450-219</b>	<b>R033-050450-219</b>	<b>R033P-050450-219</b>	<b>R034-050450-219</b>	<b>R032M-050450-219</b>

**Carbon Handles**

more details at the beginning of the chapter



R 033 - 000 000 - 000

R 033P - 000 000 - 000

R 034 - 000 000 - 000

R 032M - 000 000 - 000

Ø 5 mm

13,5 mm



Grasping forceps with reservoir, tip blunt, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-220</b>	<b>R033-050330-220</b>	<b>R033P-050330-220</b>	<b>R034-050330-220</b>	<b>R032M-050330-220</b>
<b>360 mm</b>	<b>R030-050360-220</b>	<b>R033-050360-220</b>	<b>R033P-050360-220</b>	<b>R034-050360-220</b>	<b>R032M-050360-220</b>
<b>450 mm</b>	<b>R030-050450-220</b>	<b>R033-050450-220</b>	<b>R033P-050450-220</b>	<b>R034-050450-220</b>	<b>R032M-050450-220</b>

13,5 mm



Grasping forceps with reservoir, tip conical, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-222</b>	<b>R033-050330-222</b>	<b>R033P-050330-222</b>	<b>R034-050330-222</b>	<b>R032M-050330-222</b>
<b>360 mm</b>	<b>R030-050360-222</b>	<b>R033-050360-222</b>	<b>R033P-050360-222</b>	<b>R034-050360-222</b>	<b>R032M-050360-222</b>
<b>450 mm</b>	<b>R030-050450-222</b>	<b>R033-050450-222</b>	<b>R033P-050450-222</b>	<b>R034-050450-222</b>	<b>R032M-050450-222</b>

17,5 mm



Delphin grasping forceps, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-224</b>	<b>R033-050330-224</b>	<b>R033P-050330-224</b>	<b>R034-050330-224</b>	<b>R032M-050330-224</b>
<b>360 mm</b>	<b>R030-050360-224</b>	<b>R033-050360-224</b>	<b>R033P-050360-224</b>	<b>R034-050360-224</b>	<b>R032M-050360-224</b>
<b>450 mm</b>	<b>R030-050450-224</b>	<b>R033-050450-224</b>	<b>R033P-050450-224</b>	<b>R034-050450-224</b>	<b>R032M-050450-224</b>

26 mm

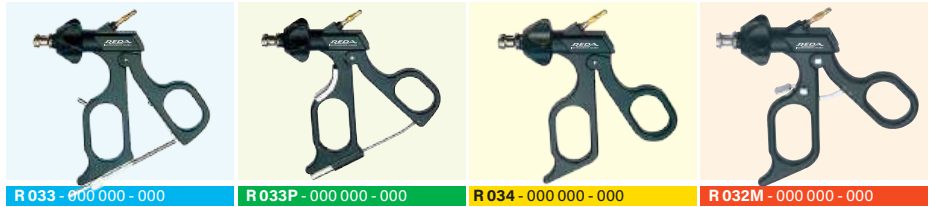


Delphin grasping forceps with reservoir, long, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-225</b>	<b>R033-050330-225</b>	<b>R033P-050330-225</b>	<b>R034-050330-225</b>	<b>R032M-050330-225</b>
<b>360 mm</b>	<b>R030-050360-225</b>	<b>R033-050360-225</b>	<b>R033P-050360-225</b>	<b>R034-050360-225</b>	<b>R032M-050360-225</b>
<b>450 mm</b>	<b>R030-050450-225</b>	<b>R033-050450-225</b>	<b>R033P-050450-225</b>	<b>R034-050450-225</b>	<b>R032M-050450-225</b>

**Carbon Handles**

more details at the beginning of the chapter



**Ø 5 mm**

15 mm



Fallopian tube grasping forceps, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-226</b>	<b>R033-050330-226</b>	<b>R033P-050330-226</b>	<b>R034-050330-226</b>	<b>R032M-050330-226</b>
<b>360 mm</b>	<b>R030-050360-226</b>	<b>R033-050360-226</b>	<b>R033P-050360-226</b>	<b>R034-050360-226</b>	<b>R032M-050360-226</b>
<b>450 mm</b>	<b>R030-050450-226</b>	<b>R033-050450-226</b>	<b>R033P-050450-226</b>	<b>R034-050450-226</b>	<b>R032M-050450-226</b>

14 mm



Grasping forceps crosswise teeth, jaw length 14 mm, conical, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-228</b>	<b>R033-050330-228</b>	<b>R033P-050330-228</b>	<b>R034-050330-228</b>	<b>R032M-050330-228</b>
<b>360 mm</b>	<b>R030-050360-228</b>	<b>R033-050360-228</b>	<b>R033P-050360-228</b>	<b>R034-050360-228</b>	<b>R032M-050360-228</b>
<b>450 mm</b>	<b>R030-050450-228</b>	<b>R033-050450-228</b>	<b>R033P-050450-228</b>	<b>R034-050450-228</b>	<b>R032M-050450-228</b>

18 mm



Grasping forceps crosswise teeth, jaw length 18 mm, conical, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-230</b>	<b>R033-050330-230</b>	<b>R033P-050330-230</b>	<b>R034-050330-230</b>	<b>R032M-050330-230</b>
<b>360 mm</b>	<b>R030-050360-230</b>	<b>R033-050360-230</b>	<b>R033P-050360-230</b>	<b>R034-050360-230</b>	<b>R032M-050360-230</b>
<b>450 mm</b>	<b>R030-050450-230</b>	<b>R033-050450-230</b>	<b>R033P-050450-230</b>	<b>R034-050450-230</b>	<b>R032M-050450-230</b>

11 mm

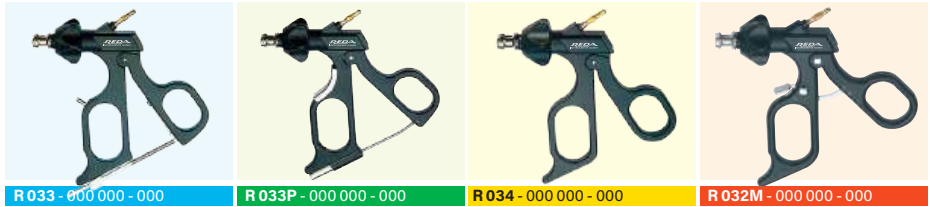


MAHNES grasping forceps, distal fine crosswise teeth, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-231</b>	<b>R033-050330-231</b>	<b>R033P-050330-231</b>	<b>R034-050330-231</b>	<b>R032M-050330-231</b>
<b>360 mm</b>	<b>R030-050360-231</b>	<b>R033-050360-231</b>	<b>R033P-050360-231</b>	<b>R034-050360-231</b>	<b>R032M-050360-231</b>
<b>450 mm</b>	<b>R030-050450-231</b>	<b>R033-050450-231</b>	<b>R033P-050450-231</b>	<b>R034-050450-231</b>	<b>R032M-050450-231</b>

**Carbon Handles**

more details at the beginning of the chapter

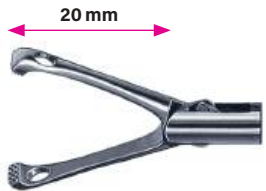


Ø 5 mm



MAHNES grasping forceps, distal fine crosswise teeth, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-232</b>	<b>R033-050330-232</b>	<b>R033P-050330-232</b>	<b>R034-050330-232</b>	<b>R032M-050330-232</b>
<b>360 mm</b>	<b>R030-050360-232</b>	<b>R033-050360-232</b>	<b>R033P-050360-232</b>	<b>R034-050360-232</b>	<b>R032M-050360-232</b>
<b>450 mm</b>	<b>R030-050450-232</b>	<b>R033-050450-232</b>	<b>R033P-050450-232</b>	<b>R034-050450-232</b>	<b>R032M-050450-232</b>



Grasping forceps, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-234</b>	<b>R033-050330-234</b>	<b>R033P-050330-234</b>	<b>R034-050330-234</b>	<b>R032M-050330-234</b>
<b>360 mm</b>	<b>R030-050360-234</b>	<b>R033-050360-234</b>	<b>R033P-050360-234</b>	<b>R034-050360-234</b>	<b>R032M-050360-234</b>
<b>450 mm</b>	<b>R030-050450-234</b>	<b>R033-050450-234</b>	<b>R033P-050450-234</b>	<b>R034-050450-234</b>	<b>R032M-050450-234</b>



REDDICK-OLSEN grasping forceps, strong, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-236</b>	<b>R033-050330-236</b>	<b>R033P-050330-236</b>	<b>R034-050330-236</b>	<b>R032M-050330-236</b>
<b>360 mm</b>	<b>R030-050360-236</b>	<b>R033-050360-236</b>	<b>R033P-050360-236</b>	<b>R034-050360-236</b>	<b>R032M-050360-236</b>
<b>450 mm</b>	<b>R030-050450-236</b>	<b>R033-050450-236</b>	<b>R033P-050450-236</b>	<b>R034-050450-236</b>	<b>R032M-050450-236</b>

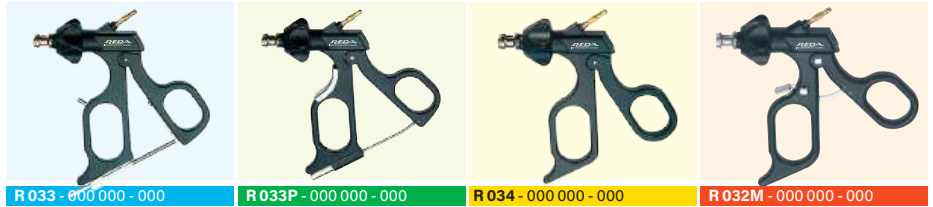


Grasping forceps, distal with a traumatic row of teeth, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-238</b>	<b>R033-050330-238</b>	<b>R033P-050330-238</b>	<b>R034-050330-238</b>	<b>R032M-050330-238</b>
<b>360 mm</b>	<b>R030-050360-238</b>	<b>R033-050360-238</b>	<b>R033P-050360-238</b>	<b>R034-050360-238</b>	<b>R032M-050360-238</b>
<b>450 mm</b>	<b>R030-050450-238</b>	<b>R033-050450-238</b>	<b>R033P-050450-238</b>	<b>R034-050450-238</b>	<b>R032M-050450-238</b>

**Carbon Handles**

more details at the beginning of the chapter



**Ø 5 mm**

13,5 mm



MAHNES grasping forceps 1 x 2 teeth, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-240</b>	<b>R033-050330-240</b>	<b>R033P-050330-240</b>	<b>R034-050330-240</b>	<b>R032M-050330-240</b>
<b>360 mm</b>	<b>R030-050360-240</b>	<b>R033-050360-240</b>	<b>R033P-050360-240</b>	<b>R034-050360-240</b>	<b>R032M-050360-240</b>
<b>450 mm</b>	<b>R030-050450-240</b>	<b>R033-050450-240</b>	<b>R033P-050450-240</b>	<b>R034-050450-240</b>	<b>R032M-050450-240</b>

13,5 mm



Grasping forceps with mouseteeth, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-241</b>	<b>R033-050330-241</b>	<b>R033P-050330-241</b>	<b>R034-050330-241</b>	<b>R032M-050330-241</b>
<b>360 mm</b>	<b>R030-050360-241</b>	<b>R033-050360-241</b>	<b>R033P-050360-241</b>	<b>R034-050360-241</b>	<b>R032M-050360-241</b>
<b>450 mm</b>	<b>R030-050450-241</b>	<b>R033-050450-241</b>	<b>R033P-050450-241</b>	<b>R034-050450-241</b>	<b>R032M-050450-241</b>

22 mm



Claw grasping forceps, 3 x 2 teeth, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-242</b>	<b>R033-050330-242</b>	<b>R033P-050330-242</b>	<b>R034-050330-242</b>	<b>R032M-050330-242</b>
<b>360 mm</b>	<b>R030-050360-242</b>	<b>R033-050360-242</b>	<b>R033P-050360-242</b>	<b>R034-050360-242</b>	<b>R032M-050360-242</b>
<b>450 mm</b>	<b>R030-050450-242</b>	<b>R033-050450-242</b>	<b>R033P-050450-242</b>	<b>R034-050450-242</b>	<b>R032M-050450-242</b>

27 mm

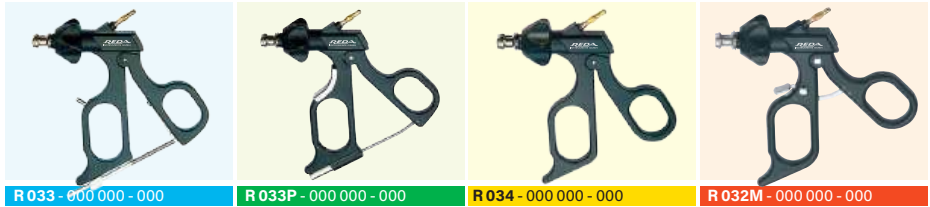


„AGRESSIV“, Claw Grasping forceps, double action jaws

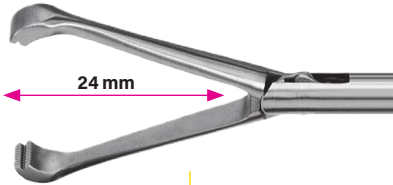
Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-243</b>	<b>R033-050330-243</b>	<b>R033P-050330-243</b>	<b>R034-050330-243</b>	<b>R032M-050330-243</b>
<b>360 mm</b>	<b>R030-050360-243</b>	<b>R033-050360-243</b>	<b>R033P-050360-243</b>	<b>R034-050360-243</b>	<b>R032M-050360-243</b>
<b>450 mm</b>	<b>R030-050450-243</b>	<b>R033-050450-243</b>	<b>R033P-050450-243</b>	<b>R034-050450-243</b>	<b>R032M-050450-243</b>

**Carbon Handles**

more details at the beginning of the chapter



Ø 5 mm



Grasping forceps distal with DEBAKEY teeth, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-244</b>	<b>R033-050330-244</b>	<b>R033P-050330-244</b>	<b>R034-050330-244</b>	<b>R032M-050330-244</b>
<b>360 mm</b>	<b>R030-050360-244</b>	<b>R033-050360-244</b>	<b>R033P-050360-244</b>	<b>R034-050360-244</b>	<b>R032M-050360-244</b>
<b>450 mm</b>	<b>R030-050450-244</b>	<b>R033-050450-244</b>	<b>R033P-050450-244</b>	<b>R034-050450-244</b>	<b>R032M-050450-244</b>



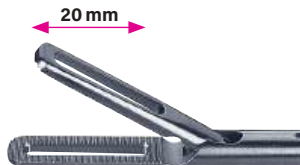
Extracting forceps with retrograd teeth, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-246</b>	<b>R033-050330-246</b>	<b>R033P-050330-246</b>	<b>R034-050330-246</b>	<b>R032M-050330-246</b>
<b>360 mm</b>	<b>R030-050360-246</b>	<b>R033-050360-246</b>	<b>R033P-050360-246</b>	<b>R034-050360-246</b>	<b>R032M-050360-246</b>
<b>450 mm</b>	<b>R030-050450-246</b>	<b>R033-050450-246</b>	<b>R033P-050450-246</b>	<b>R034-050450-246</b>	<b>R032M-050450-246</b>



DORSEY (JOHANN) intestinal grasping forceps, jaw length 20 mm, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-248</b>	<b>R033-050330-248</b>	<b>R033P-050330-248</b>	<b>R034-050330-248</b>	<b>R032M-050330-248</b>
<b>360 mm</b>	<b>R030-050360-248</b>	<b>R033-050360-248</b>	<b>R033P-050360-248</b>	<b>R034-050360-248</b>	<b>R032M-050360-248</b>
<b>450 mm</b>	<b>R030-050450-248</b>	<b>R033-050450-248</b>	<b>R033P-050450-248</b>	<b>R034-050450-248</b>	<b>R032M-050450-248</b>

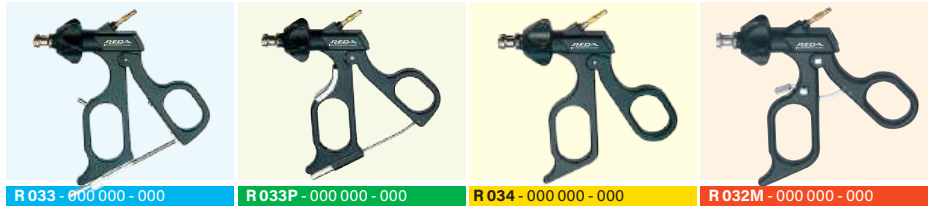


DORSEY (JOHANN) intestinal grasping forceps, jaw length 20 mm, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-249</b>	<b>R033-050330-249</b>	<b>R033P-050330-249</b>	<b>R034-050330-249</b>	<b>R032M-050330-249</b>
<b>360 mm</b>	<b>R030-050360-249</b>	<b>R033-050360-249</b>	<b>R033P-050360-249</b>	<b>R034-050360-249</b>	<b>R032M-050360-249</b>
<b>450 mm</b>	<b>R030-050450-249</b>	<b>R033-050450-249</b>	<b>R033P-050450-249</b>	<b>R034-050450-249</b>	<b>R032M-050450-249</b>

**Carbon Handles**

more details at the beginning of the chapter



R 033 - 000 000 - 000

R 033P - 000 000 - 000

R 034 - 000 000 - 000

R 032M - 000 000 - 000

Ø 5 mm

21,5 mm



DAVIS & GEEK grasping forceps with reservoir, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-050330-250	R033-050330-250	R033P-050330-250	R034-050330-250	R032M-050330-250
<b>360 mm</b>	R030-050360-250	R033-050360-250	R033P-050360-250	R034-050360-250	R032M-050360-250
<b>450 mm</b>	R030-050450-250	R033-050450-250	R033P-050450-250	R034-050450-250	R032M-050450-250

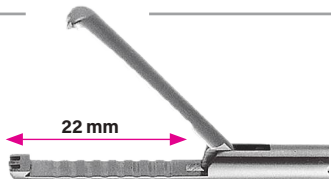
26,5 mm



DAVIS & GEEK grasping forceps with reservoir, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-050330-251	R033-050330-251	R033P-050330-251	R034-050330-251	R032M-050330-251
<b>360 mm</b>	R030-050360-251	R033-050360-251	R033P-050360-251	R034-050360-251	R032M-050360-251
<b>450 mm</b>	R030-050450-251	R033-050450-251	R033P-050450-251	R034-050450-251	R032M-050450-251

22 mm



DAVIS & GEEK grasping forceps with 3 x 2 teeth, single action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-050330-252	R033-050330-252	R033P-050330-252	R034-050330-252	R032M-050330-252
<b>360 mm</b>	R030-050360-252	R033-050360-252	R033P-050360-252	R034-050360-252	R032M-050360-252
<b>450 mm</b>	R030-050450-252	R033-050450-252	R033P-050450-252	R034-050450-252	R032M-050450-252

20 mm

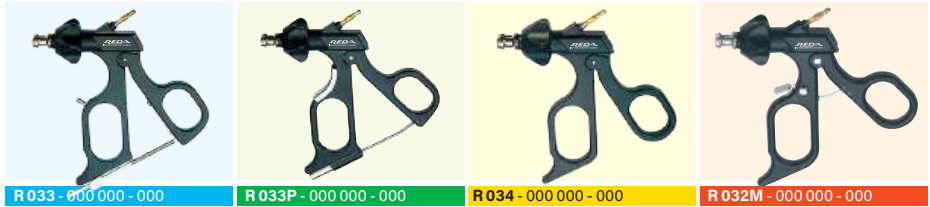


MIXTER grasping forceps 90°, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-050330-258	R033-050330-258	R033P-050330-258	R034-050330-258	R032M-050330-258
<b>360 mm</b>	R030-050360-258	R033-050360-258	R033P-050360-258	R034-050360-258	R032M-050360-258
<b>450 mm</b>	R030-050450-258	R033-050450-258	R033P-050450-258	R034-050450-258	R032M-050450-258

**Carbon Handles**

more details at the beginning of the chapter



R033 - 000 000 - 000

R033P - 000 000 - 000

R034 - 000 000 - 000

R032M - 000 000 - 000

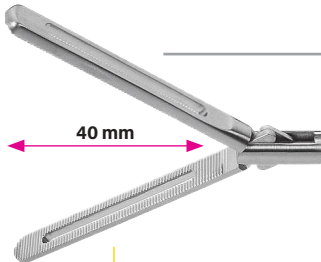
Ø 5 mm

17,5 mm



MIXTER grasping forceps 45°, double action jaws

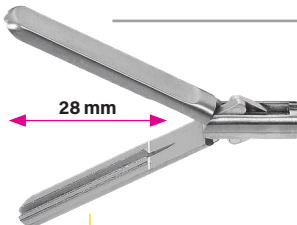
Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-259	R033-050330-259	R033P-050330-259	R034-050330-259	R032M-050330-259
360 mm	R030-050360-259	R033-050360-259	R033P-050360-259	R034-050360-259	R032M-050360-259
450 mm	R030-050450-259	R033-050450-259	R033P-050450-259	R034-050450-259	R032M-050450-259



40 mm

DORSEY intestinal grasping forceps, jaw length 40 mm, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-262	R033-050330-262	R033P-050330-262	R034-050330-262	R032M-050330-262
360 mm	R030-050360-262	R033-050360-262	R033P-050360-262	R034-050360-262	R032M-050360-262
450 mm	R030-050450-262	R033-050450-262	R033P-050450-262	R034-050450-262	R032M-050450-262



28 mm

DEBAKEY clamp, jaw length 30 mm, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-264	R033-050330-264	R033P-050330-264	R034-050330-264	R032M-050330-264
360 mm	R030-050360-264	R033-050360-264	R033P-050360-264	R034-050360-264	R032M-050360-264
450 mm	R030-050450-264	R033-050450-264	R033P-050450-264	R034-050450-264	R032M-050450-264

11 mm

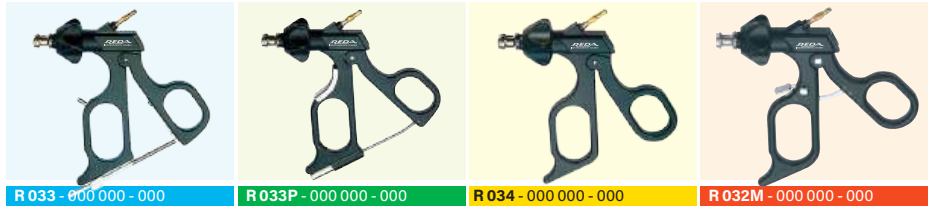


KELLY Grasping forceps, double action jaws

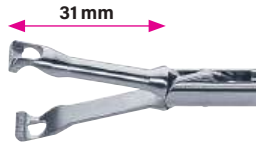
Working length	Working insert alone	Complete instrument			
330 mm	R030-050330-266	R033-050330-266	R033P-050330-266	R034-050330-266	R032M-050330-266
360 mm	R030-050360-266	R033-050360-266	R033P-050360-266	R034-050360-266	R032M-050360-266
450 mm	R030-050450-266	R033-050450-266	R033P-050450-266	R034-050450-266	R032M-050450-266

**Carbon Handles**

more details at the beginning of the chapter

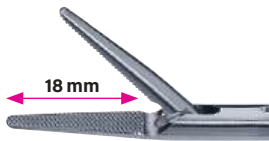


Ø 5 mm



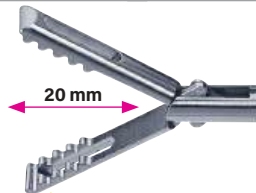
BABCOCK clamp, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-270</b>	<b>R033-050330-270</b>	<b>R033P-050330-270</b>	<b>R034-050330-270</b>	<b>R032M-050330-270</b>
<b>360 mm</b>	<b>R030-050360-270</b>	<b>R033-050360-270</b>	<b>R033P-050360-270</b>	<b>R034-050360-270</b>	<b>R032M-050360-270</b>
<b>450 mm</b>	<b>R030-050450-270</b>	<b>R033-050450-270</b>	<b>R033P-050450-270</b>	<b>R034-050450-270</b>	<b>R032M-050450-270</b>



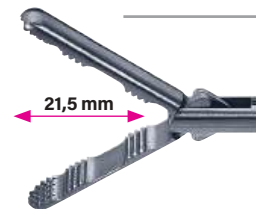
Grasping Forceps, straight, cross-serrated, jaw length 18 mm, single action jaws

		Working length	Working insert alone	Complete instrument	
<b>330 mm</b>	<b>R030-050330-272</b>	<b>R033-050330-272</b>	<b>R033P-050330-272</b>	<b>R034-050330-272</b>	<b>R032M-050330-272</b>
<b>360 mm</b>	<b>R030-050360-272</b>	<b>R033-050360-272</b>	<b>R033P-050360-272</b>	<b>R034-050360-272</b>	<b>R032M-050360-272</b>
<b>450 mm</b>	<b>R030-050450-272</b>	<b>R033-050450-272</b>	<b>R033P-050450-272</b>	<b>R034-050450-272</b>	<b>R032M-050450-272</b>



Grasping forceps „WAVE“, fenestrated, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-274</b>	<b>R033-050330-274</b>	<b>R033P-050330-274</b>	<b>R034-050330-274</b>	<b>R032M-050330-274</b>
<b>360 mm</b>	<b>R030-050360-274</b>	<b>R033-050360-274</b>	<b>R033P-050360-274</b>	<b>R034-050360-274</b>	<b>R032M-050360-274</b>
<b>450 mm</b>	<b>R030-050450-274</b>	<b>R033-050450-274</b>	<b>R033P-050450-274</b>	<b>R034-050450-274</b>	<b>R032M-050450-274</b>

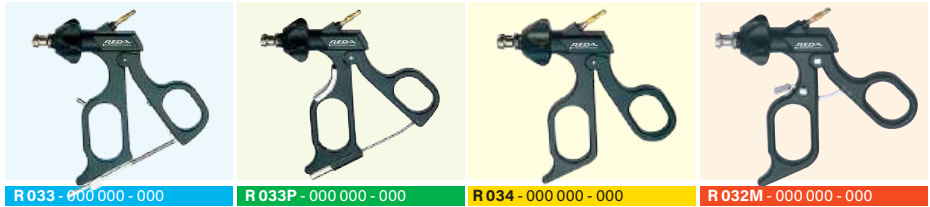


Grasping forceps „MAXIGRIP“, double action jaws

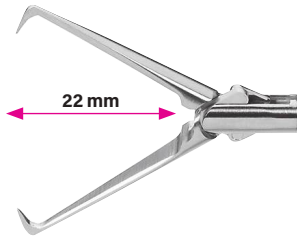
Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-276</b>	<b>R033-050330-276</b>	<b>R033P-050330-276</b>	<b>R034-050330-276</b>	<b>R032M-050330-276</b>
<b>360 mm</b>	<b>R030-050360-276</b>	<b>R033-050360-276</b>	<b>R033P-050360-276</b>	<b>R034-050360-276</b>	<b>R032M-050360-276</b>
<b>450 mm</b>	<b>R030-050450-276</b>	<b>R033-050450-276</b>	<b>R033P-050450-276</b>	<b>R034-050450-276</b>	<b>R032M-050450-276</b>

**Carbon Handles**

more details at the beginning of the chapter

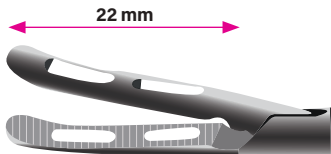


Ø 5 mm



Tenaculum forceps, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-284</b>	<b>R033-050330-284</b>	<b>R033P-050330-284</b>	<b>R034-050330-284</b>	<b>R032M-050330-284</b>
<b>360 mm</b>	<b>R030-050360-284</b>	<b>R033-050360-284</b>	<b>R033P-050360-284</b>	<b>R034-050360-284</b>	<b>R032M-050360-284</b>
<b>450 mm</b>	<b>R030-050450-284</b>	<b>R033-050450-284</b>	<b>R033P-050450-284</b>	<b>R034-050450-284</b>	<b>R032M-050450-284</b>

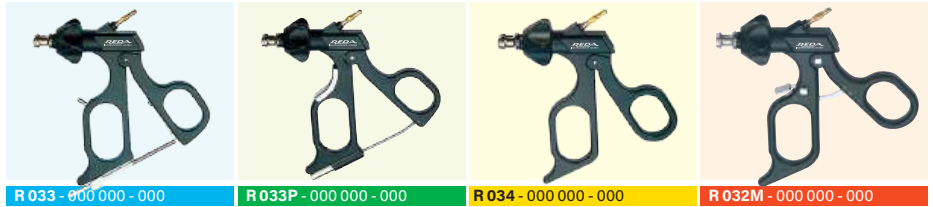


CROCE-OLMI grasping forceps, atrumatic, fenestrated, curved

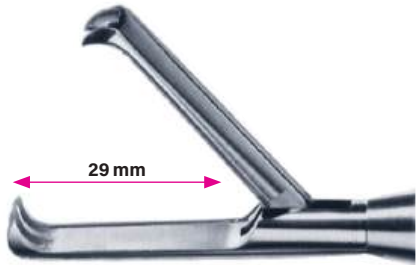
Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-050330-217</b>	<b>R033-050330-217</b>	<b>R033P-050330-217</b>	<b>R034-050330-217</b>	<b>R032M-050330-217</b>
<b>360 mm</b>	<b>R030-050360-217</b>	<b>R033-050360-217</b>	<b>R033P-050360-217</b>	<b>R034-050360-217</b>	<b>R032M-050360-217</b>
<b>450 mm</b>	<b>R030-050450-217</b>	<b>R033-050450-217</b>	<b>R033P-050450-217</b>	<b>R034-050450-217</b>	<b>R032M-050450-217</b>

**Carbon Handles**

more details at the beginning of the chapter



Ø 10 mm



Claw grasping forceps, 3 x 2 teeth, single action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-100330-610	R033-100330-610	R033P-100330-610	R034-100330-610	R032M-100330-610
360 mm	R030-100360-610	R033-100360-610	R033P-100360-610	R034-100360-610	R032M-100360-610
450 mm	R030-100450-610	R033-100450-610	R033P-100450-610	R034-100450-610	R032M-100450-610



MARYLAND grasping and dissecting forceps, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-100330-612	R033-100330-612	R033P-100330-612	R034-100330-612	R032M-100330-612
360 mm	R030-100360-612	R033-100360-612	R033P-100360-612	R034-100360-612	R032M-100360-612
450 mm	R030-100450-612	R033-100450-612	R033P-100450-612	R034-100450-612	R032M-100450-612

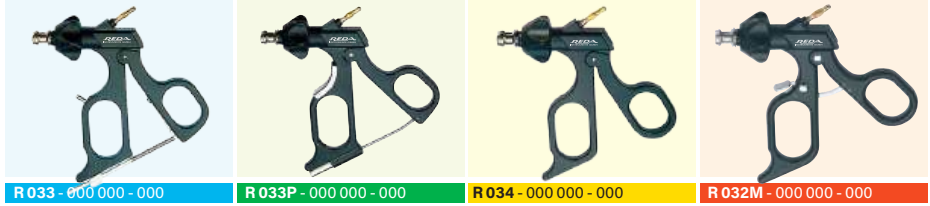


Grasping forceps distal with DEBAKEY teeth, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-100330-614	R033-100330-614	R033P-100330-614	R034-100330-614	R032M-100330-614
360 mm	R030-100360-614	R033-100360-614	R033P-100360-614	R034-100360-614	R032M-100360-614
450 mm	R030-100450-614	R033-100450-614	R033P-100450-614	R034-100450-614	R032M-100450-614

**Carbon Handles**

more details at the beginning of the chapter

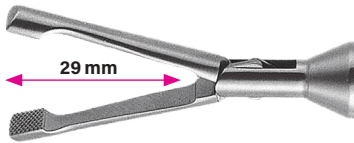


Ø 10 mm



**BABCOCK** grasping forceps, strong, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-100330-616	R033-100330-616	R033P-100330-616	R034-100330-616	<b>R032M-100330-616</b>
<b>360 mm</b>	R030-100360-616	R033-100360-616	R033P-100360-616	R034-100360-616	R032M-100360-616
<b>450 mm</b>	R030-100450-616	R033-100450-616	R033P-100450-616	R034-100450-616	R032M-100450-616



Grasping forceps, cross-serrated teeth, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-100330-642	R033-100330-642	R033P-100330-642	R034-100330-642	R032M-100330-642
<b>360 mm</b>	R030-100360-642	R033-100360-642	R033P-100360-642	R034-100360-642	R032M-100360-642
<b>450 mm</b>	R030-100450-642	R033-100450-642	R033P-100450-642	R034-100450-642	R032M-100450-642



MIXTER grasping forceps, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-100330-646	R033-100330-646	R033P-100330-646	R034-100330-646	R032M-100330-646
<b>360 mm</b>	R030-100360-646	R033-100360-646	R033P-100360-646	R034-100360-646	R032M-100360-646
<b>450 mm</b>	R030-100450-646	R033-100450-646	R033P-100450-646	R034-100450-646	R032M-100450-646



DORSEY intestinal grasping forceps, double action jaws

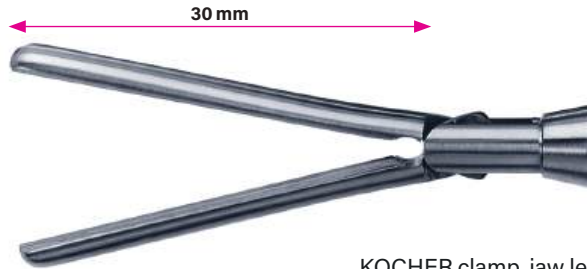
Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	R030-100330-648	R033-100330-648	R033P-100330-648	R034-100330-648	R032M-100330-648
<b>360 mm</b>	R030-100360-648	R033-100360-648	R033P-100360-648	R034-100360-648	R032M-100360-648
<b>450 mm</b>	R030-100450-648	R033-100450-648	R033P-100450-648	R034-100450-648	R032M-100450-648

**Carbon Handles**

more details at the beginning of the chapter



Ø 10 mm



KOCHER clamp, jaw length 30 mm, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-100330-622	R033-100330-622	R033P-100330-622	R034-100330-622	R032M-100330-622
360 mm	R030-100360-622	R033-100360-622	R033P-100360-622	R034-100360-622	R032M-100360-622
jaw length 40 mm					
330 mm	R030-100330-623	R033-100330-623	R033P-100330-623	R034-100330-623	R032M-100330-623
360 mm	R030-100360-623	R033-100360-623	R033P-100360-623	R034-100360-623	R032M-100360-623
jaw length 50 mm					
330 mm	R030-100330-624	R033-100330-624	R033P-100330-624	R034-100330-624	R032M-100330-624
360 mm	R030-100360-624	R033-100360-624	R033P-100360-624	R034-100360-624	R032M-100360-624



DEBAKEY clamp, double teeth, jaw length 30 mm, double action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R030-100330-631	R033-100330-631	R033P-100330-631	R034-100330-631	R032M-100330-631
360 mm	R030-100360-631	R033-100360-631	R033P-100360-631	R034-100360-631	R032M-100360-631
jaw length 40 mm					
330 mm	R030-100330-632	R033-100330-632	R033P-100330-632	R034-100330-632	R032M-100330-632
360 mm	R030-100360-632	R033-100360-632	R033P-100360-632	R034-100360-632	R032M-100360-632
jaw length 50 mm					
330 mm	R030-100330-633	R033-100330-633	R033P-100330-633	R034-100330-633	R032M-100330-633
360 mm	R030-100360-633	R033-100360-633	R033P-100360-633	R034-100360-633	R032M-100360-633

**Carbon Handles**

more details at the beginning of the chapter



R033 - 000 000 - 000



R033P - 000 000 - 000



R034 - 000 000 - 000



R032M - 000 000 - 000

Ø 10 mm

40 mm



BABCOCK grasping forceps fine, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-100330-618</b>	<b>R033-100330-618</b>	<b>R033P-100330-618</b>	<b>R034-100330-618</b>	<b>R032M-100330-618</b>
<b>360 mm</b>	<b>R030-100360-618</b>	<b>R033-100360-618</b>	<b>R033P-100360-618</b>	<b>R034-100360-618</b>	<b>R032M-100360-618</b>

26,5 mm



COLLIN clamp, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-100330-620</b>	<b>R033-100330-620</b>	<b>R033P-100330-620</b>	<b>R034-100330-620</b>	<b>R032M-100330-620</b>
<b>360 mm</b>	<b>R030-100360-620</b>	<b>R033-100360-620</b>	<b>R033P-100360-620</b>	<b>R034-100360-620</b>	<b>R032M-100360-620</b>

30 mm



PENNINGTON clamp, double action jaws

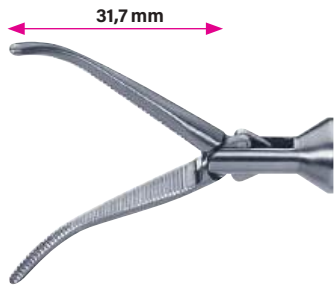
Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-100330-650</b>	<b>R033-100330-650</b>	<b>R033P-100330-650</b>	<b>R034-100330-650</b>	<b>R032M-100330-650</b>
<b>360 mm</b>	<b>R030-100360-650</b>	<b>R033-100360-650</b>	<b>R033P-100360-650</b>	<b>R034-100360-650</b>	<b>R032M-100360-650</b>

**Carbon Handles**

more details at the beginning of the chapter

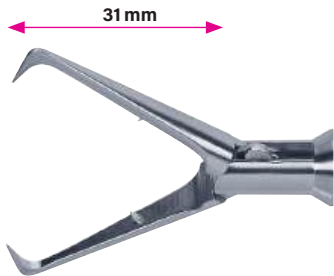


Ø 10 mm



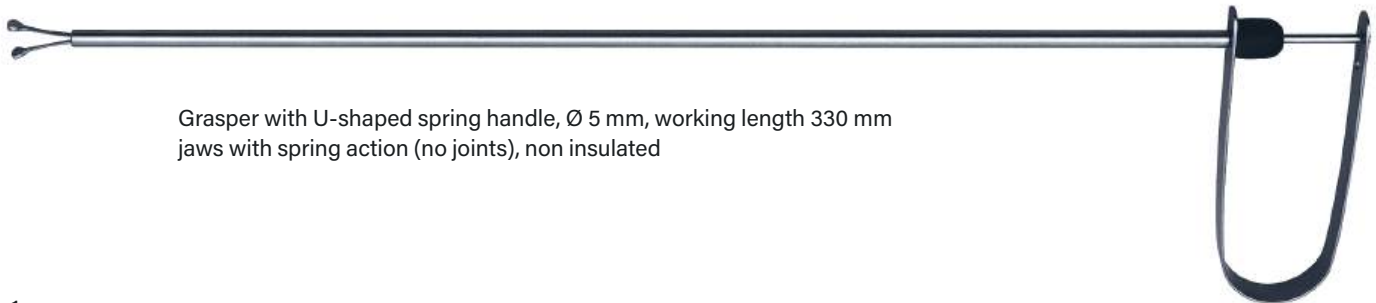
OVERHOLT clamp with fine teeth, curved, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-100330-654</b>	<b>R033-100330-654</b>	<b>R033P-100330-654</b>	<b>R034-100330-654</b>	<b>R032M-100330-654</b>
<b>360 mm</b>	<b>R030-100360-654</b>	<b>R033-100360-654</b>	<b>R033P-100360-654</b>	<b>R034-100360-654</b>	<b>R032M-100360-654</b>



Tenaculum forceps, double action jaws

Working length	Working insert alone	Complete instrument			
<b>330 mm</b>	<b>R030-100330-656</b>	<b>R033-100330-656</b>	<b>R033P-100330-656</b>	<b>R034-100330-656</b>	<b>R032M-100330-656</b>
<b>360 mm</b>	<b>R030-100360-656</b>	<b>R033-100360-656</b>	<b>R033P-100360-656</b>	<b>R034-100360-656</b>	<b>R032M-100360-656</b>



Grasper with U-shaped spring handle, Ø 5 mm, working length 330 mm  
jaws with spring action (no joints), non insulated

1:1



Atraumatic grasper

**R039 - 0533 - 001**



Bowl grasper, square pattern jaws

**R039 - 0533 - 002**



Bowl grasper, T-shaped jaws

**R039 - 0533 - 003**



Tissue and bowel grasper, ball and socket type

**R039 - 0533 - 004**



Fallopian tube grasper

**R039 - 0533 - 006**



1 x 2 teeth grasper slim

**R039 - 0533 - 007**



Bowel grasper, round

**R039 - 0533 - 010**



Atraumatic grasper, fenestrated

**R039 - 0533 - 013**

1:1



Tissue grasper, U-shaped jaws

**R039 - 0533 - 014**



Grasper, blunt

**R039 - 0533 - 015**



Falopian grasper, blunt

**R039 - 0533 - 016**

**Pack of 10 pieces**

length, diameter	
480 mm, Ø 3 mm	<b>96000-03</b>
480 mm, Ø 5 mm	<b>96000-05</b>
480 mm, Ø 7 mm	<b>96000-07</b>
480 mm, Ø 12 mm	<b>96000-12</b>

Scissors / Biopsy forceps



Ø 5 und 10 mm



### **Mechanical snap-action coupling !**

The Ø 5 and 10 mm modular REDA laparoscopic instruments have a unique snap-action coupling which, offering the combined advantage of the speediest possible assembly and a long service life.

The union of the working insert and sleeve shaft is achieved by simply inserting the components axially into each other. A simple click and you are ready!

The groove-and-tongue principle practically rules out the possibility of the locking mechanism coming undone, as is the case with conventional screw or bayonet connections.

REDA - simplicity is so clever !



### **Nut stopper**

An nut on the sleeve shaft of REDA modular instruments prevents bothersome slipping or even the loss of the union nut.

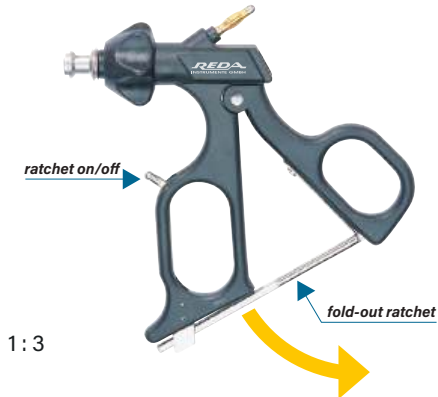
REDA - detail is the decisive factor !



Laparoscopy -  
Carbon Handles for Ø 3 / 5 / 10 mm tube shafts



Ø 3 / 5 / 10 mm



Ergonomic universal carbon handle with ratchet,  
Lever for active or unactive ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033** - 000000 - 000



Ergonomic carbon handle with stepless ratchet,  
ratchet by finger press resolve, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033P** - 000000 - 000



Ergonomic carbon handle,  
HF-connector Ø 4 mm male 45° lateral, rotating head 360°, autoclavable

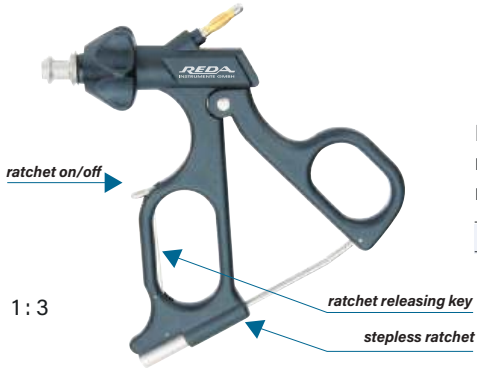
**R034** - 000000 - 000



Ergonomic universal carbon handle with ratchet,  
Button for active or unactive ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R032M** - 000000 - 000

Ø 3 / 5 / 10 mm



Ergonomic carbon handle with stepless ratchet,  
ratchet activating / release lever, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033M - 000000 - 000**



Protection cap for HF-connector Ø 4 mm

**R030 - 000000**



Laparoscopy -  
Handles for Ø 3 / 5 / 10 mm tube shafts



Ø 3 / 5 / 10 mm



Axial handle, v-shaped type with spreading spring and ratchet

**R038 - 000000 - 000**



Axial handle, with spreading spring

**R048 - 000000 - 000**



Axial handle with rings and ratchet

**R037 - 000000 - 000**



Axial ring handle

**R047 - 000000 - 000**



Axial handle, v-shaped angled, type with spreading spring and ratchet

**R039 - 000000 - 000**



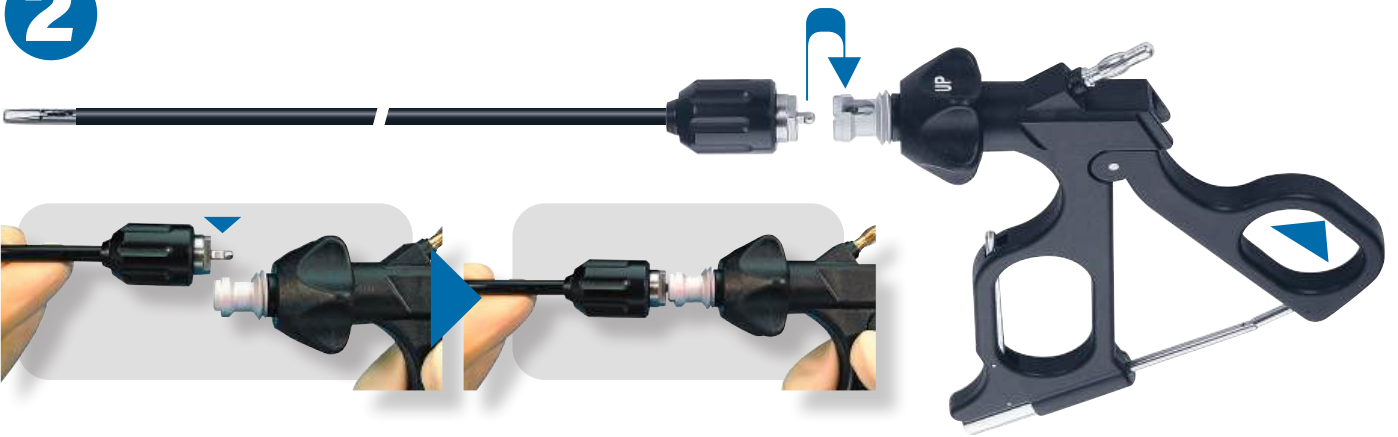
Axial handle, angled, with spreading spring

**R040 - 000000 - 000**

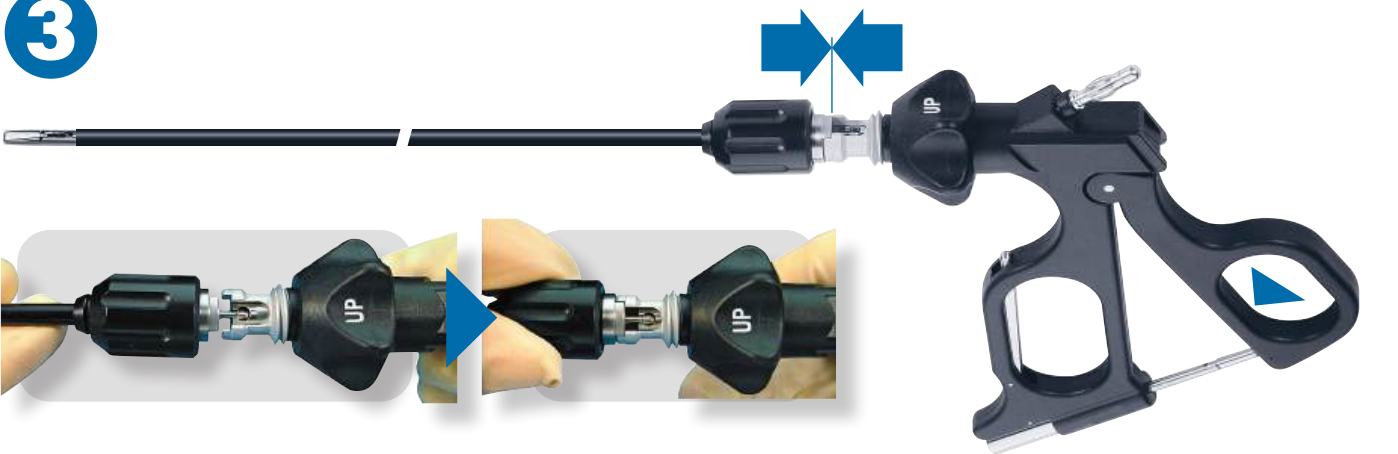
**1**



**2**

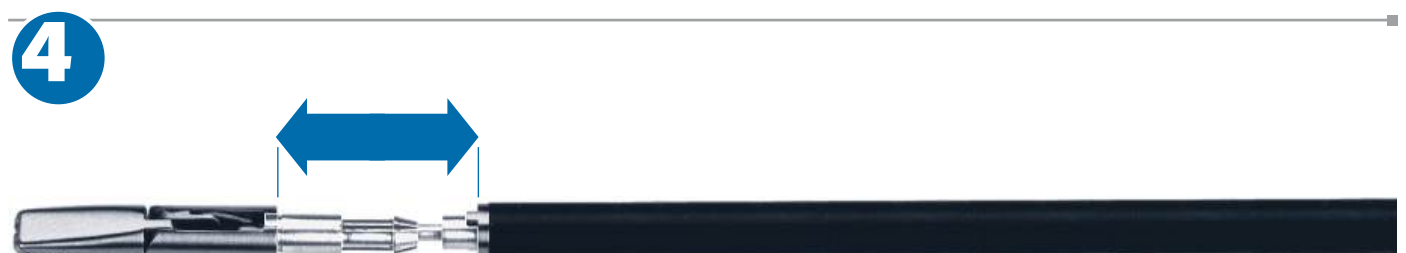
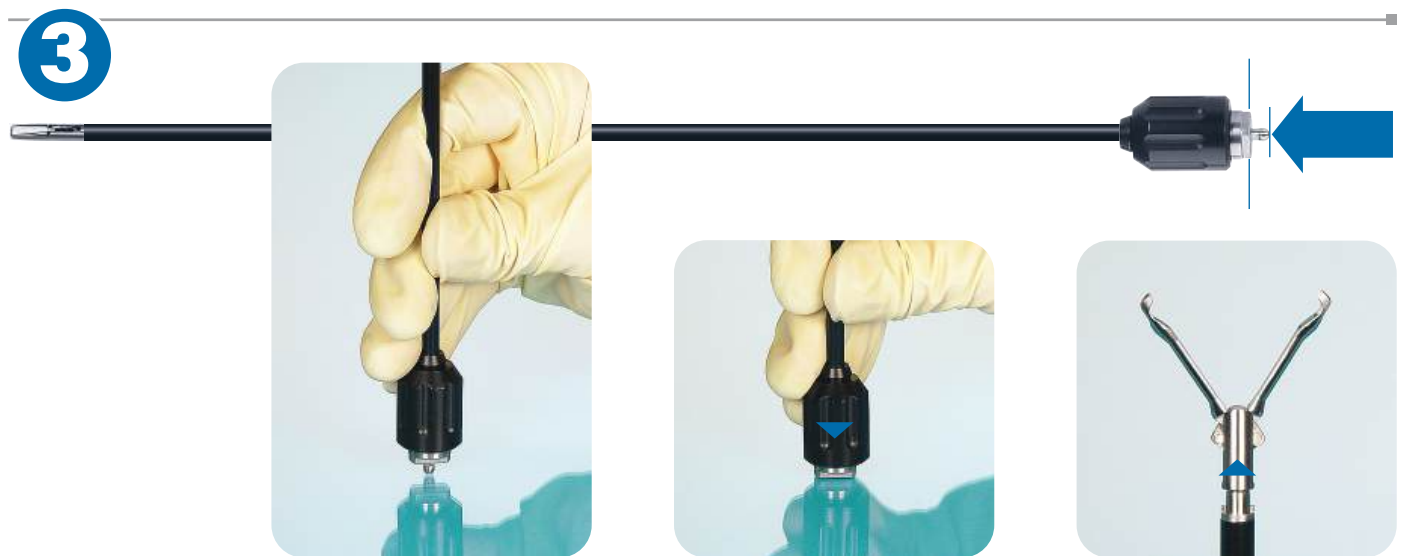
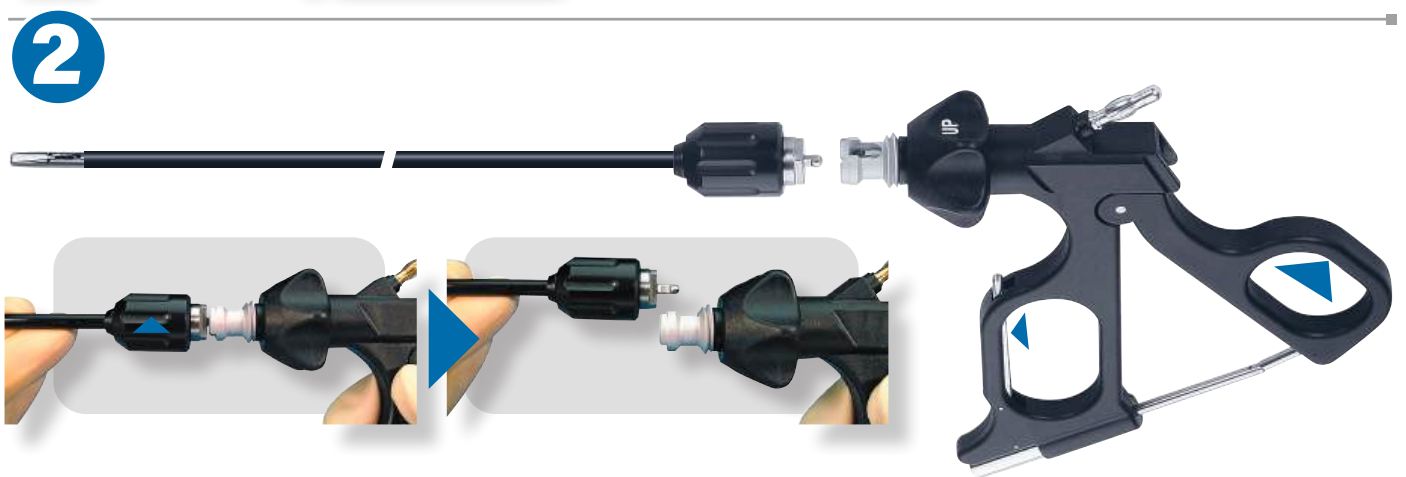
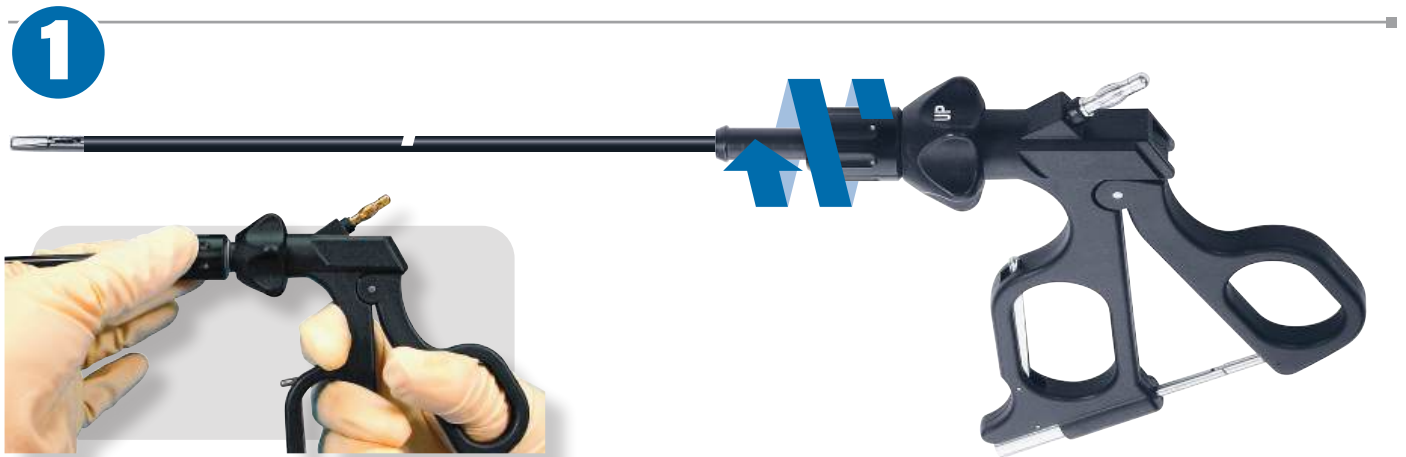


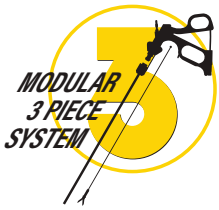
**3**




**4**










**Ø 5 mm**



Tube Shaft, insulated	shaft length: <b>330 mm</b>	
without LUER Lock	with LUER Lock	
<b>R030 - 050330 - 000</b>	<b>R030 - 050330 - 000 L</b>	




Tube Shaft, insulated	shaft length: <b>360 mm</b>
without LUER Lock	with LUER Lock
<b>R030 - 050360 - 000</b>	<b>R030 - 050360 - 000 L</b>




Tube Shaft, insulated	shaft length: <b>450 mm</b>
without LUER Lock	with LUER Lock
<b>R030 - 050450 - 000</b>	<b>R030 - 050450 - 000 L</b>


**Ø 10 mm**



Tube Shaft, insulated	shaft length: <b>330 mm</b>	
cylindrical	with LUER Lock	
<b>R030 - 100330 - 000</b>	<b>R030 - 100330 - 000 L</b>	



Tube Shaft, insulated, for adipose patients	shaft length: <b>360 mm</b>
cylindrical	with LUER Lock
<b>R030 - 100360 - 000</b>	<b>R030 - 100360 - 000 L</b>



Tube Shaft, insulated, for adipose patients	shaft length: <b>450 mm</b>
cylindrical	with LUER Lock
<b>R030 - 100450 - 000</b>	<b>R030 - 100450 - 000 L</b>

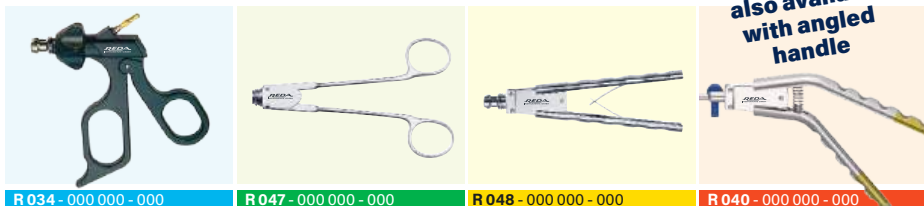


**Carbon Handles**

more details at the beginning of the chapter

**Stainless steel Handles**

more details at the beginning of the chapter



also available with angled handle

Ø 5 mm

18 mm



METZENBAUM preparation scissors, straight, double action jaws

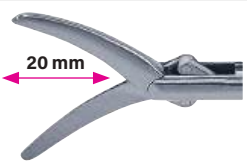
Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-110	R044-050330-110	R057-050330-110	R058-050330-110
360 mm	R040-050360-110	R044-050360-110	R057-050360-110	R058-050360-110
450 mm	R040-050450-110	R044-050450-110	R057-050450-110	R058-050450-110



17 mm

METZENBAUM preparation scissors, curved, double action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-112	R044-050330-112	R057-050330-112	R058-050330-112
360 mm	R040-050360-112	R044-050360-112	R057-050360-112	R058-050360-112
450 mm	R040-050450-112	R044-050450-112	R057-050450-112	R058-050450-112



20 mm

Preparation scissors „WONDERCUT“, curved, double action jaws

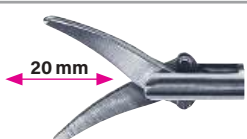
Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-113	R044-050330-113	R057-050330-113	R058-050330-113
360 mm	R040-050360-113	R044-050360-113	R057-050360-113	R058-050360-113
450 mm	R040-050450-113	R044-050450-113	R057-050450-113	R058-050450-113



17 mm

METZENBAUM preparation scissors, strong version, serrated, curved, double action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-125	R044-050330-125	R057-050330-125	R058-050330-125
360 mm	R040-050360-125	R044-050360-125	R057-050360-125	R058-050360-125
450 mm	R040-050450-125	R044-050450-125	R057-050450-125	R058-050450-125



20 mm

METZENBAUM preparation scissors, soft, curved, double action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-122	R044-050330-122	R057-050330-122	R058-050330-122
360 mm	R040-050360-122	R044-050360-122	R057-050360-122	R058-050360-122
450 mm	R040-050450-122	R044-050450-122	R057-050450-122	R058-050450-122



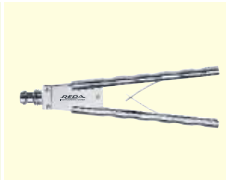
also available  
with angled  
handle

**Carbon Handles**

more details at the beginning of the chapter

**Stainless steel Handles**

more details at the beginning of the chapter



R 034 - 000 000 - 000

R 047 - 000 000 - 000

R 048 - 000 000 - 000

R 040 - 000 000 - 000

Ø 5 mm

10,5 mm



Peritoneal scissors, serrated, straight, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-114</b>	<b>R044-050330-114</b>	<b>R057-050330-114</b>	<b>R058-050330-114</b>
<b>360 mm</b>	<b>R040-050360-114</b>	<b>R044-050360-114</b>	<b>R057-050360-114</b>	<b>R058-050360-114</b>
<b>450 mm</b>	<b>R040-050450-114</b>	<b>R044-050450-114</b>	<b>R057-050450-114</b>	<b>R058-050450-114</b>

9 mm



Hook scissors, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-116</b>	<b>R044-050330-116</b>	<b>R057-050330-116</b>	<b>R058-050330-116</b>
<b>360 mm</b>	<b>R040-050360-116</b>	<b>R044-050360-116</b>	<b>R057-050360-116</b>	<b>R058-050360-116</b>
<b>450 mm</b>	<b>R040-050450-116</b>	<b>R044-050450-116</b>	<b>R057-050450-116</b>	<b>R058-050450-116</b>

5,5 mm



Micro scissors, straight, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-118</b>	<b>R044-050330-118</b>	<b>R057-050330-118</b>	<b>R058-050330-118</b>
<b>360 mm</b>	<b>R040-050360-118</b>	<b>R044-050360-118</b>	<b>R057-050360-118</b>	<b>R058-050360-118</b>
<b>450 mm</b>	<b>R040-050450-118</b>	<b>R044-050450-118</b>	<b>R057-050450-118</b>	<b>R058-050450-118</b>

5,3 mm



Micro scissors, curved, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-120</b>	<b>R044-050330-120</b>	<b>R057-050330-120</b>	<b>R058-050330-120</b>
<b>360 mm</b>	<b>R040-050360-120</b>	<b>R044-050360-120</b>	<b>R057-050360-120</b>	<b>R058-050360-120</b>
<b>450 mm</b>	<b>R040-050450-120</b>	<b>R044-050450-120</b>	<b>R057-050450-120</b>	<b>R058-050450-120</b>

**Carbon Handles**  
more details at the beginning of the chapter

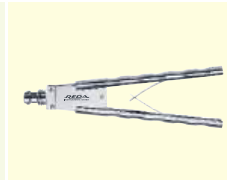
**Stainless steel Handles**  
more details at the beginning of the chapter



R 034 - 000 000 - 000



R 047 - 000 000 - 000



R 048 - 000 000 - 000



R 040 - 000 000 - 000

also available  
with angled  
handle

Ø 10 mm



MAYO operating scissors, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-100330-710</b>	<b>R044-100330-710</b>	<b>R057-100330-710</b>	<b>R058-100330-710</b>
<b>360 mm</b>	<b>R040-100360-710</b>	<b>R044-100360-710</b>	<b>R057-100360-710</b>	<b>R058-100360-710</b>
<b>450 mm</b>	<b>R040-100450-710</b>	<b>R044-100450-710</b>	<b>R057-100450-710</b>	<b>R058-100450-710</b>



also available with angled handle

**Carbon Handles**  
more details at the beginning of the chapter

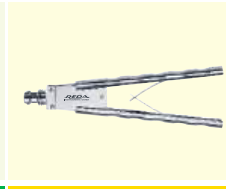
**Stainless steel Handles**  
more details at the beginning of the chapter



R 034 - 000 000 - 000



R 047 - 000 000 - 000



R 048 - 000 000 - 000



R 040 - 000 000 - 000

Ø 5 mm

15 mm



BLAKESLEY tumor forceps, pointed, single action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-268	R044-050330-268	R057-050330-268	R058-050330-268
360 mm	R040-050360-268	R044-050360-268	R057-050360-268	R058-050360-268
450 mm	R040-050450-268	R044-050450-268	R057-050450-268	R058-050450-268

8 mm



Biopsy cup, sharp, without thorn, double action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-310	R044-050330-310	R057-050330-310	R058-050330-310
360 mm	R040-050360-310	R044-050360-310	R057-050360-310	R058-050360-310
450 mm	R040-050450-310	R044-050450-310	R057-050450-310	R058-050450-310

8 mm



Biopsy cup, sharp, with thorn, double action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-312	R044-050330-312	R057-050330-312	R058-050330-312
360 mm	R040-050360-312	R044-050360-312	R057-050360-312	R058-050360-312
450 mm	R040-050450-312	R044-050450-312	R057-050450-312	R058-050450-312

11 mm



Alligator, cup, grasping and biopsy forceps, double action jaws

Working length	Working insert alone	Complete instrument		
330 mm	R040-050330-314	R044-050330-314	R057-050330-314	R058-050330-314
360 mm	R040-050360-314	R044-050360-314	R057-050360-314	R058-050360-314
450 mm	R040-050450-314	R044-050450-314	R057-050450-314	R058-050450-314

**Carbon Handles**

more details at the beginning of the chapter

**Stainless steel Handles**

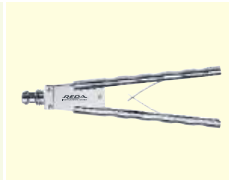
more details at the beginning of the chapter



R 034 - 000 000 - 000



R 047 - 000 000 - 000



R 048 - 000 000 - 000



R 040 - 000 000 - 000

also available  
with angled  
handle

Ø 5 mm

14,5 mm



Biopsy cup, long, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-316</b>	<b>R044-050330-316</b>	<b>R057-050330-316</b>	<b>R058-050330-316</b>
<b>360 mm</b>	<b>R040-050360-316</b>	<b>R044-050360-316</b>	<b>R057-050360-316</b>	<b>R058-050360-316</b>
<b>450 mm</b>	<b>R040-050450-316</b>	<b>R044-050450-316</b>	<b>R057-050450-316</b>	<b>R058-050450-316</b>

14,5 mm



Biopsy cup, long, with thorn, single action jaws

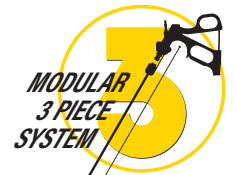
Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-318</b>	<b>R044-050330-318</b>	<b>R057-050330-318</b>	<b>R058-050330-318</b>
<b>360 mm</b>	<b>R040-050360-318</b>	<b>R044-050360-318</b>	<b>R057-050360-318</b>	<b>R058-050360-318</b>
<b>450 mm</b>	<b>R040-050450-318</b>	<b>R044-050450-318</b>	<b>R057-050450-318</b>	<b>R058-050450-318</b>

10 mm



Biopsy cup, tapering, fenestrated, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-320</b>	<b>R044-050330-320</b>	<b>R057-050330-320</b>	<b>R058-050330-320</b>
<b>360 mm</b>	<b>R040-050360-320</b>	<b>R044-050360-320</b>	<b>R057-050360-320</b>	<b>R058-050360-320</b>
<b>450 mm</b>	<b>R040-050450-320</b>	<b>R044-050450-320</b>	<b>R057-050450-320</b>	<b>R058-050450-320</b>



also available  
with angled  
handle

**Carbon Handles**  
more details at the beginning of the chapter

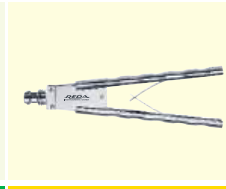
**Stainless steel Handles**  
more details at the beginning of the chapter



R 034 - 000 000 - 000



R 047 - 000 000 - 000



R 048 - 000 000 - 000



R 040 - 000 000 - 000

Ø 5 mm

8,5 mm



Biopsy punch without thorn, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-410</b>	<b>R044-050330-410</b>	<b>R057-050330-410</b>	<b>R058-050330-410</b>
<b>360 mm</b>	<b>R040-050360-410</b>	<b>R044-050360-410</b>	<b>R057-050360-410</b>	<b>R058-050360-410</b>
<b>450 mm</b>	<b>R040-050450-410</b>	<b>R044-050450-410</b>	<b>R057-050450-410</b>	<b>R058-050450-410</b>

8,5 mm



Biopsy punch with thorn, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-050330-412</b>	<b>R044-050330-412</b>	<b>R057-050330-412</b>	<b>R058-050330-412</b>
<b>360 mm</b>	<b>R040-050360-412</b>	<b>R044-050360-412</b>	<b>R057-050360-412</b>	<b>R058-050360-412</b>
<b>450 mm</b>	<b>R040-050450-412</b>	<b>R044-050450-412</b>	<b>R057-050450-412</b>	<b>R058-050450-412</b>

**Carbon Handles**

more details at the beginning of the chapter

**Stainless steel Handles**

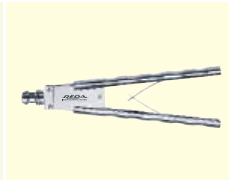
more details at the beginning of the chapter



R 034 - 000 000 - 000



R 047 - 000 000 - 000



R 048 - 000 000 - 000



R 040 - 000 000 - 000

also available  
with angled  
handle

Ø 10 mm



Cup forceps, big, sharp, without thorn, single action jaws

Working length	Working insert alone	Complete instrument		
<b>330 mm</b>	<b>R040-100330-810</b>	<b>R044-100330-810</b>	<b>R057-100330-810</b>	<b>R058-100330-810</b>
<b>360 mm</b>	<b>R040-100360-810</b>	<b>R044-100360-810</b>	<b>R057-100360-810</b>	<b>R058-100360-810</b>
<b>450 mm</b>	<b>R040-100450-810</b>	<b>R044-100450-810</b>	<b>R057-100450-810</b>	<b>R058-100450-810</b>

Ø 5 und 10 mm



### **Mechanical snap-action coupling !**

The Ø 5 and 10 mm modular REDA laparoscopic instruments have a unique snap-action coupling which, offering the combined advantage of the speediest possible assembly and a long service life.

The union of the working insert and sleeve shaft is achieved by simply inserting the components axially into each other. A simple click and you are ready!

The groove-and-tongue principle practically rules out the possibility of the locking mechanism coming undone, as is the case with conventional screw or bayonet connections.

REDA - simplicity is so clever !



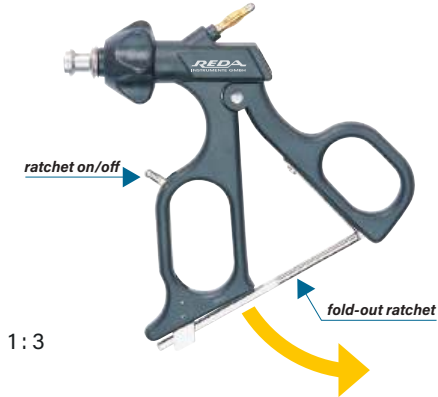
### **Nut stopper**

An nut on the sleeve shaft of REDA modular instruments prevents bothersome slipping or even the loss of the union nut.

REDA - detail is the decisive factor !



Ø 3 / 5 / 10 mm



1:3

Ergonomic universal carbon handle with ratchet,  
Lever for active or unactive ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033** - 000000 - 000



1:3

Ergonomic carbon handle with stepless ratchet,  
ratchet by finger press resolve, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033P** - 000000 - 000



1:3

Ergonomic carbon handle,  
HF-connector Ø 4 mm male 45° lateral, rotating head 360°, autoclavable

**R034** - 000000 - 000

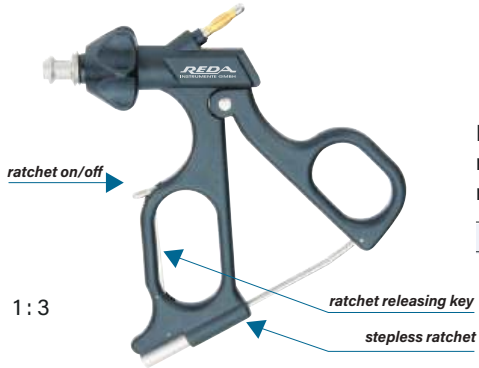


1:3

Ergonomic universal carbon handle with ratchet,  
Button for active or unactive ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R032M** - 000000 - 000

Ø 3 / 5 / 10 mm



Ergonomic carbon handle with stepless ratchet,  
ratchet activating / release lever, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033M - 000000 - 000**



Protection cap for HF-connector Ø 4 mm

**R030 - 000000**



Laparoscopy -  
Carbon Handles for Ø 3 / 5 / 10 mm



Ø 3 / 5 / 10 mm



Axial handle, v-shaped type with spreading spring and ratchet

**R038** - 000000 - 000

1:3



Axial handle, with spreading spring

**R048** - 000000 - 000

1:3



Axial handle with rings and ratchet

**R037** - 000000 - 000

1:3



Axial ring handle

**R047** - 000000 - 000

1:3



Axial handle, v-shaped angled, type with spreading spring and ratchet

**R039** - 000000 - 000



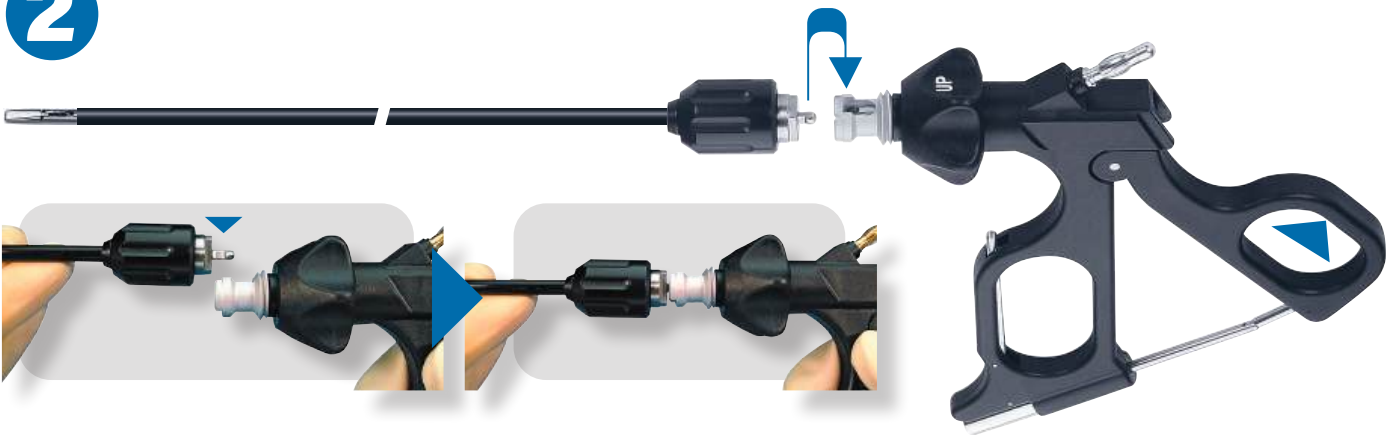
Axial handle, angled, with spreading spring

**R040** - 000000 - 000

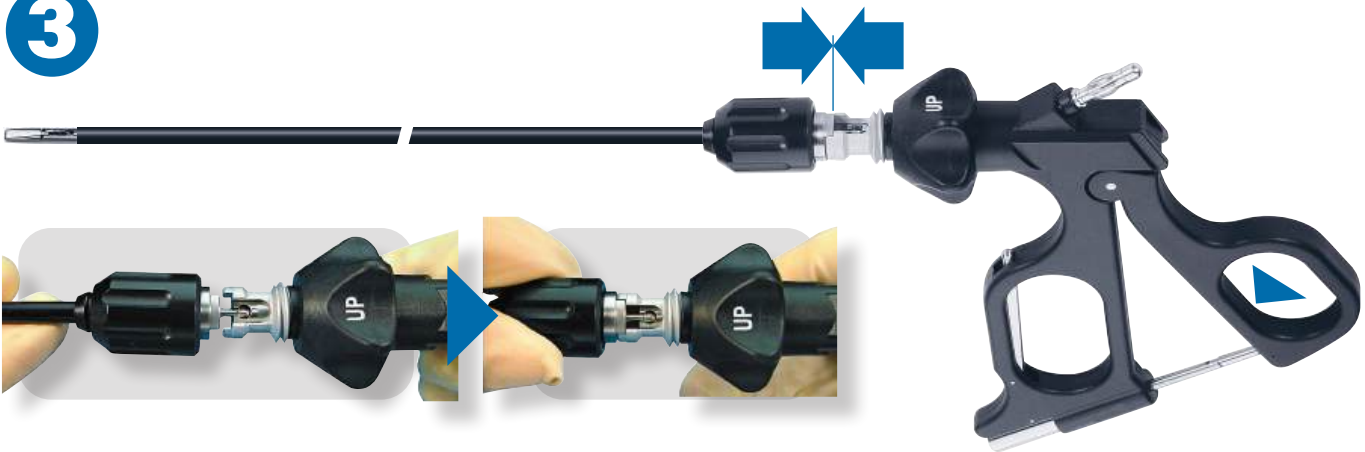
**1**



**2**

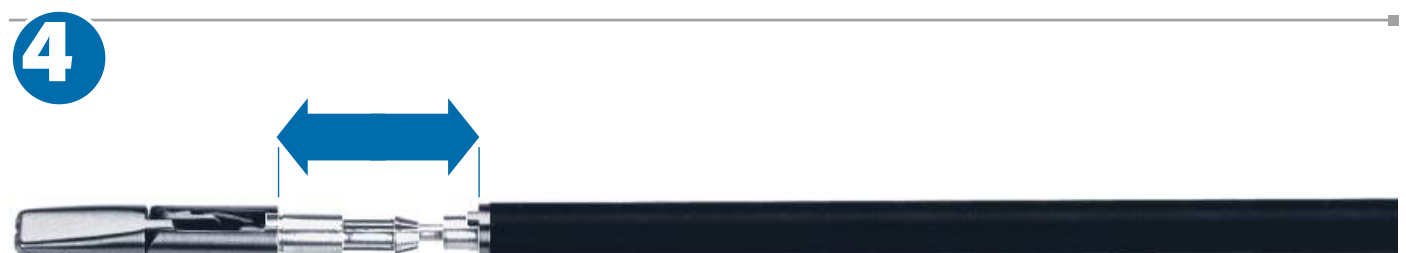
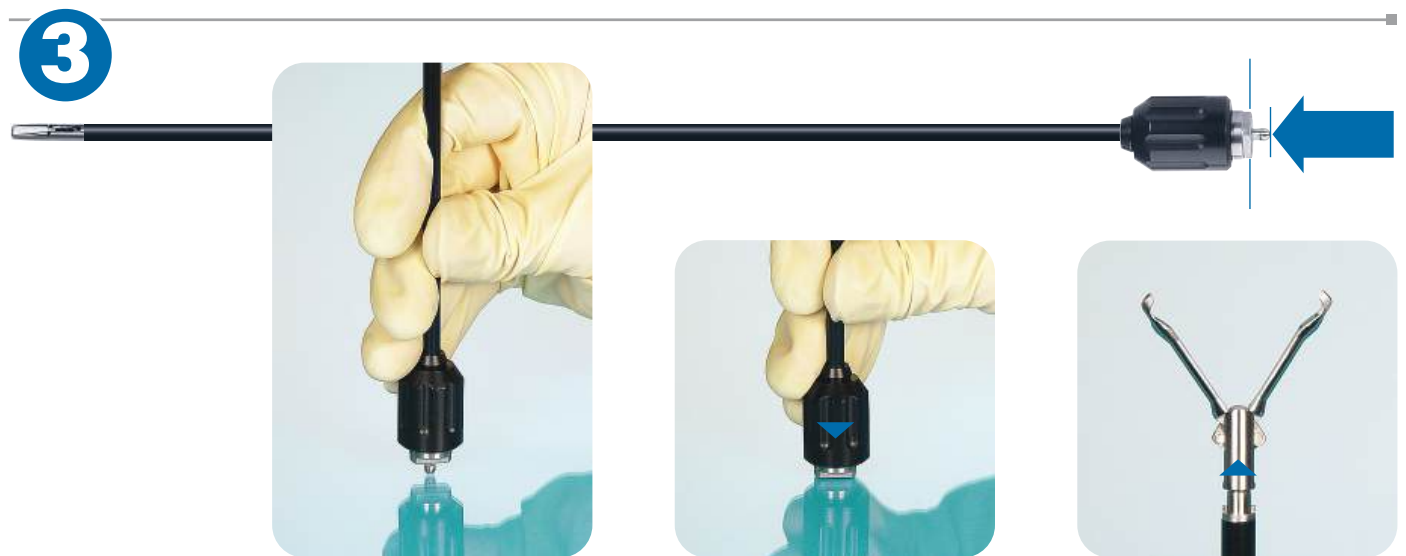
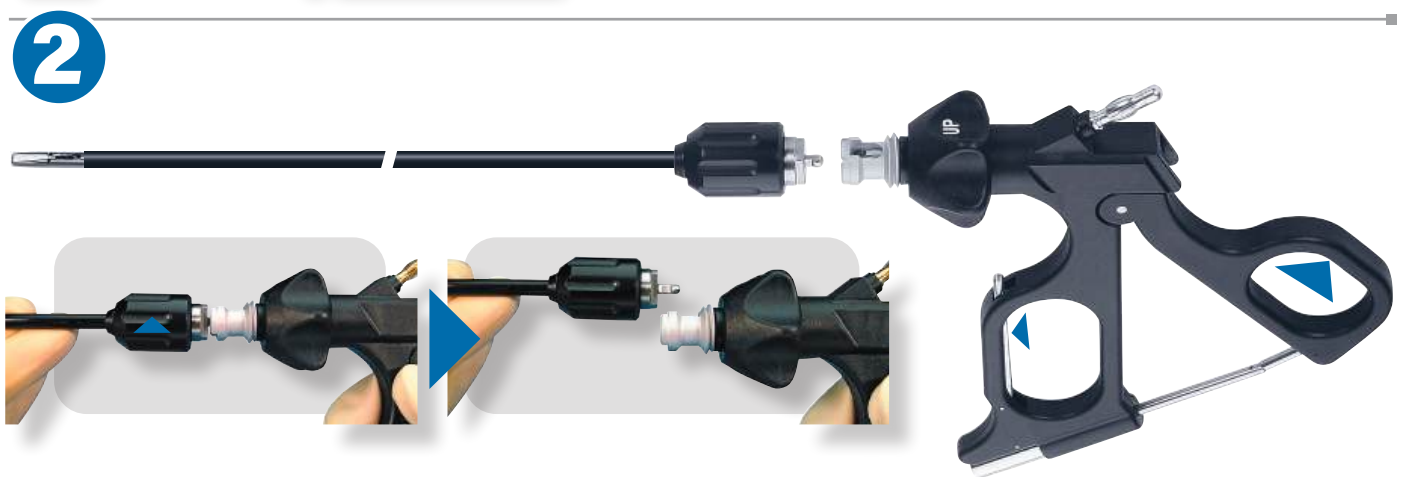
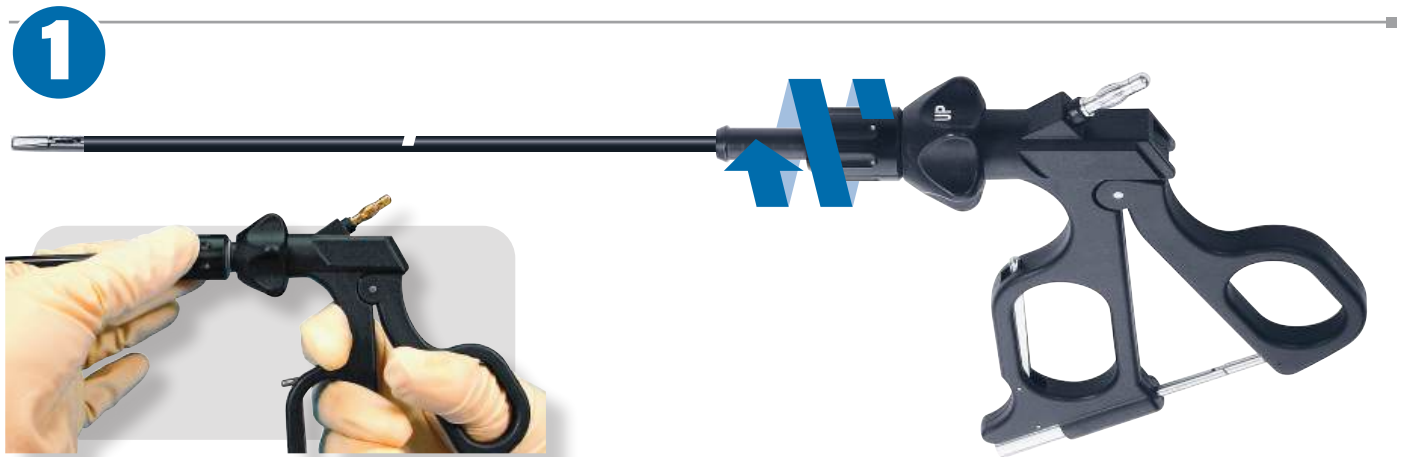


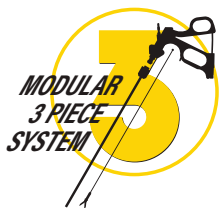
**3**



**4**





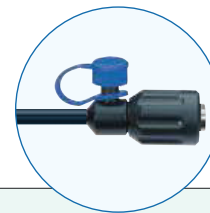


**Ø 5 mm**



Tube Shaft, insulated shaft length: **330 mm**  
 without LUER Lock with LUER Lock

**R030 - 050330 - 000** **R030 - 050330 - 000 L**



Tube Shaft, insulated shaft length: **360 mm**  
 without LUER Lock with LUER Lock

**R030 - 050360 - 000** **R030 - 050360 - 000 L**



Tube Shaft, insulated shaft length: **450 mm**  
 without LUER Lock with LUER Lock

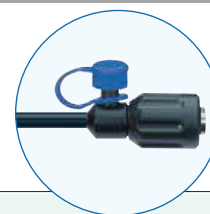
**R030 - 050450 - 000** **R030 - 050450 - 000 L**

**Ø 10 mm**



Tube Shaft, insulated shaft length: **330 mm**  
 cylindrical with LUER Lock

**R030 - 100330 - 000** **R030 - 100330 - 000 L**



Tube Shaft, insulated, for adipose patients shaft length: **360 mm**  
 cylindrical with LUER Lock

**R030 - 100360 - 000** **R030 - 100360 - 000 L**



Tube Shaft, insulated, for adipose patients shaft length: **450 mm**  
 cylindrical with LUER Lock

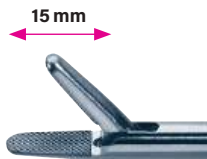
**R030 - 100450 - 000** **R030 - 100450 - 000 L**

Ø 5 mm



**Needle holder**

with axial-ratchet-handle and LUER lock irrigation adapter, Ø 5 mm, working length 330 mm - four jaw types available.



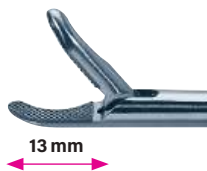
Needle holder, straight, with inserted tungsten carbide, crosswise teeth, single action jaws

Working length	Handle, straight	Handle, angled
<b>330 mm</b>	<b>R058-0533-350</b>	<b>R059-0533-350</b>
<b>450 mm</b>	<b>R058-0545-350</b>	<b>R059-0545-350</b>



Needle holder, curved left, with inserted tungsten carbide, crosswise teeth, single action jaws

Working length	Handle, straight	Handle, angled
<b>330 mm</b>	<b>R058-0533-352</b>	<b>R059-0533-352</b>
<b>450 mm</b>	<b>R058-0545-352</b>	<b>R059-0545-352</b>



Needle holder, curved right, with inserted tungsten carbide, crosswise teeth, single action jaws

Working length	Handle, straight	Handle, angled
<b>330 mm</b>	<b>R058-0533-354</b>	<b>R059-0533-354</b>
<b>450 mm</b>	<b>R058-0545-354</b>	<b>R059-0545-354</b>



Needle holder/-positioner, convex/concave shaped jaws, with fixation teeth, straight, with wolfram-carbide-coated tips, single action jaws

Working length	Handle, straight	Handle, angled
<b>330 mm</b>	<b>R058-0533-360</b>	<b>R059-0533-360</b>

**Carbon Handles**  
more details at the beginning of the chapter



Ø 5 mm

15 mm



Needleholder with inserted tungsten carbide, straight, single action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R050-050330-350	R053-050330-350	R053P-050330-350	R051-050330-350	R052-050330-350
360 mm	R050-050360-350	R053-050360-350	R053P-050360-350	R051-050360-350	R052-050360-350
450 mm	R050-050450-350	R053-050450-350	R053P-050450-350	R051-050450-350	R052-050450-350

11 mm



Needleholder with inserted tungsten carbide, curved left, single action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R050-050330-352	R053-050330-352	R053P-050330-352	R051-050330-352	R052-050330-352
360 mm	R050-050360-352	R053-050360-352	R053P-050360-352	R051-050360-352	R052-050360-352
450 mm	R050-050450-352	R053-050450-352	R053P-050450-352	R051-050450-352	R052-050450-352



13 mm

Needleholder with inserted tungsten carbide, curved right, single action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R050-050330-354	R053-050330-354	R053P-050330-354	R051-050330-354	R052-050330-354
360 mm	R050-050360-354	R053-050360-354	R053P-050360-354	R051-050360-354	R052-050360-354
450 mm	R050-050450-354	R053-050450-354	R053P-050450-354	R051-050450-354	R052-050450-354



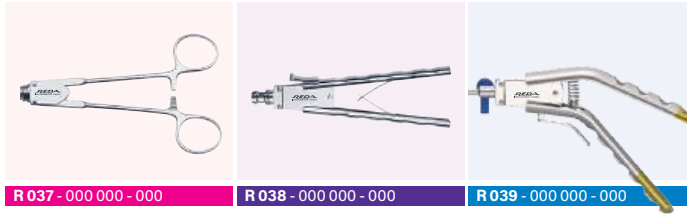
14,5 mm

Needleholder/-positioner insert, convex/concav shaped jaws with fixation-teeth, Wolfram-Karbit finish, single action jaws

Working length	Working insert alone	Complete instrument			
330 mm	R050-050330-360	R053-050330-360	R053P-050330-360	R051-050330-360	R052-050330-360
360 mm	R050-050360-360	R053-050360-360	R053P-050360-360	R051-050360-360	R052-050360-360
450 mm	R050-050450-360	R053-050450-360	R053P-050450-360	R051-050450-360	R052-050450-360

**Stainless steel Handles**

more details at the beginning of the chapter



Ø 5 mm



R 037 - 000 000 - 000

R 038 - 000 000 - 000

R 039 - 000 000 - 000

Needleholder with inserted tungsten carbide, straight, single action jaws

Complete instrument

Working length  
mm

R057-050330-350	R058-050330-350	R059-050330-350	330
R057-050360-350	R058-050360-350	R059-050360-350	360
R057-050450-350	R058-050450-350	R059-050450-350	450

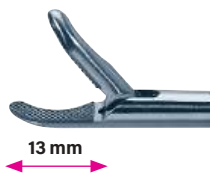


Needleholder with inserted tungsten carbide, curved left, single action jaws

Complete instrument

Working length  
mm

R057-050330-352	R058-050330-352	R059-050330-352	330
R057-050360-352	R058-050360-352	R059-050360-352	360
R057-050450-352	R058-050450-352	R059-050450-352	450



Needleholder with inserted tungsten carbide, curved right, single action jaws

Complete instrument

Working length  
mm

R057-050330-354	R058-050330-354	R059-050330-354	330
R057-050360-354	R058-050360-354	R059-050360-354	360
R057-050450-354	R058-050450-354	R059-050450-354	450

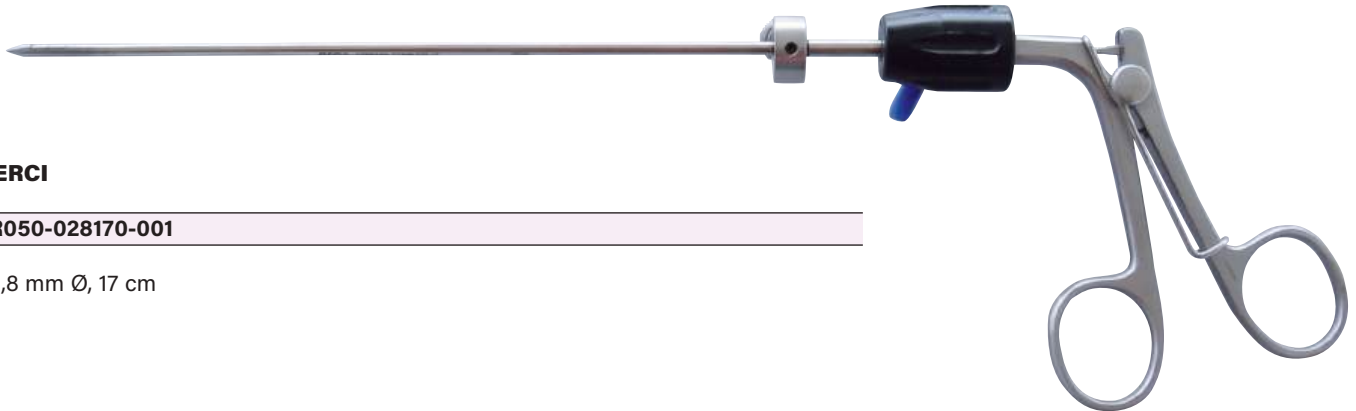


Needleholder/-positioner insert, convex/concav shaped jaws with fixation-teeth, Wolfram-Karbit finish, single action jaws

Complete instrument

Working length  
mm

R057-050330-360	R058-050330-360	R059-050330-360	330
R057-050360-360	R058-050360-360	R059-050360-360	360
R057-050450-360	R058-050450-360	R059-050450-360	450

**Ø 2,8 mm****BERCI****R050-028170-001**

2,8 mm Ø, 17 cm

Ø 4 mm



**R050-050330-01**

Knot tier with eye 4 mm Ø, 330 mm working length



**R050-050330-02**

Knot guide with slot 4 mm Ø, 330 mm working length



**R050-050330-03**

Knot pusher with closed eye 4 mm Ø, 330 mm working length

Ø 2,3 mm



R050-050340-00

The fascia-suture assisting device („fsad“) 2,3 mm Ø, 140 mm working length

Pic. 1



Push down the ring handle so that the needle is positioned outside the cannula. Set the thread into the „fsad“ and make sure that the thread is positioned in the middle. Pull back the ring handle with your thumb so that the catcher hook will be retracted into the cannula.

Pic. 2



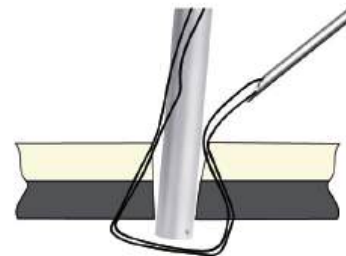
Penetrate the „fsad“ through the subcutaneous tissue (using the incision of the trocar) in the abdominal wall. Make sure that the catcher hook is always retracted during this procedure. After that, push down the ring handle so that the catcher hook comes out of the cannula. Now you can release the thread. Then retract the catcher hook by pulling the ring handle and extract the „fsad“

Pic. 3



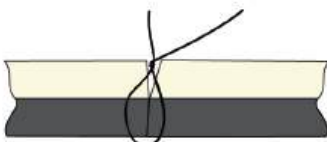
Now penetrate the „fsad“ on the other side of the Trocar (Pic. 2). - Please make sure again that the catcher hook is retracted during this procedure. When you have come through the subcutaneous tissue push down the ring handle so that the catcher hook comes out. Take the loose end of the thread by making use of the catcher-hook.

Pic. 4



Pull the ring handle to retract the catcher hook again. Then remove the „fsad“ with the thread followed by the extraction of the trocar sleeve.

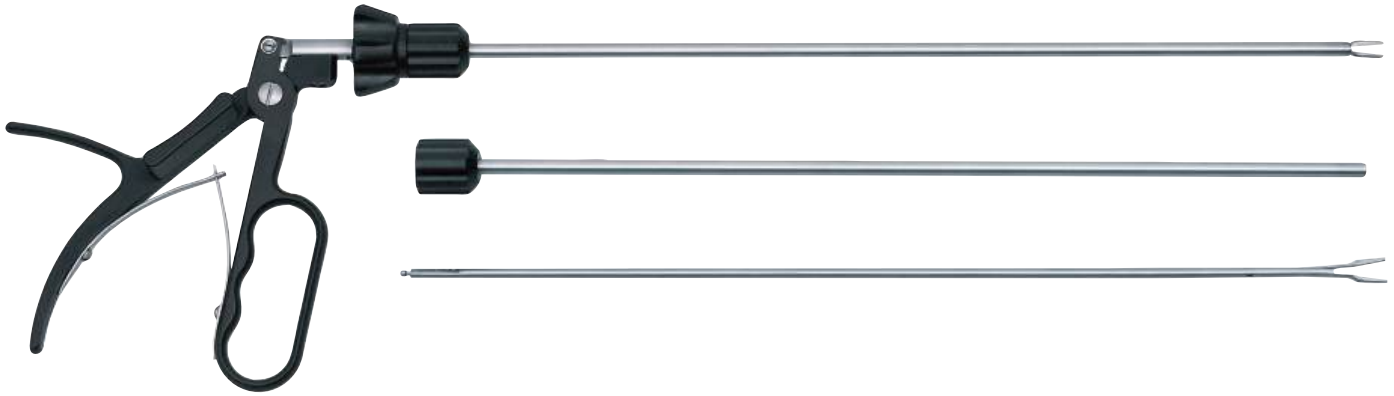
Pic. 5



Knot the thread tightly in the subcutaneous tissue. This ensures an easy and safe handling of the abdominal wall closure.

**Ø 5 mm**

Clip applying forceps, 5 mm Ø, 330 mm working length, detachable (3-parts), 360° rotatable, for TITAN-Clips



for Clips-Type	Forceps complete	Insert alone	Handle alone	Shaft tube alone
Ethicon - small	<b>R056-050330-01</b>	<b>R056-050000-01</b>	<b>R056-050000-00</b>	<b>R056-050330-00</b>
Ethicon - medium	<b>R056-050330-02</b>	<b>R056-050000-02</b>		
Weck - small	<b>R056-050330-11</b>	<b>R056-050000-11</b>		
Weck - medium	<b>R056-050330-12</b>	<b>R056-050000-12</b>		
Pilling - small	<b>R056-050330-21</b>	<b>R056-050000-21</b>		
Pilling - medium	<b>R056-050330-22</b>	<b>R056-050000-22</b>		
Horizon - small	<b>R056-050330-41</b>	<b>R056-050000-41</b>		
Horizon - medium	<b>R056-050330-42</b>	<b>R056-050000-42</b>		

Ø 10 mm

Clip applying forceps, 10 mm Ø, 330 mm working length, 360° rotatable, with LL-rinsing channel, for TITAN-Clips

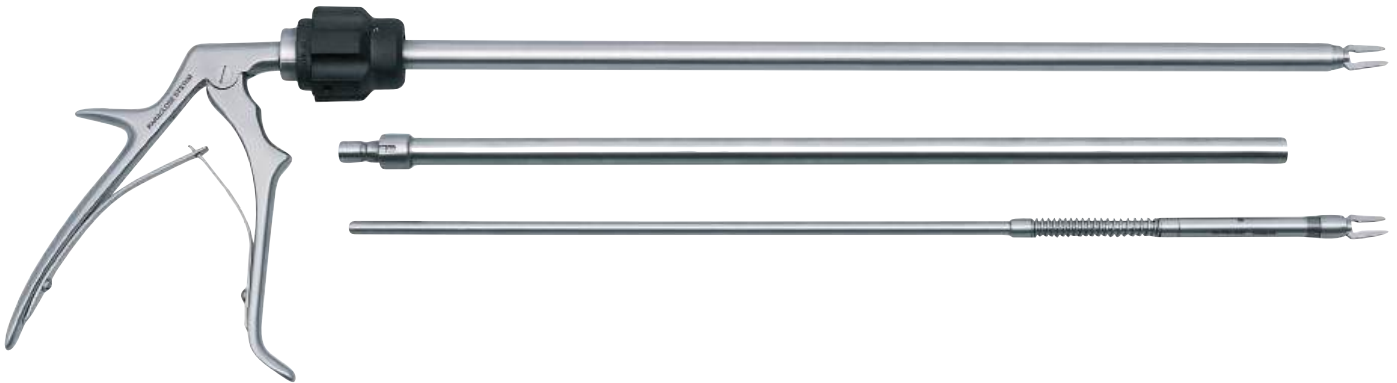


for Clips-Type	
Ethicon - small	<b>R055-100330-01</b>
Ethicon - medium	<b>R055-100330-02</b>
Ethicon - medium-large	<b>R055-100330-03</b>
Ethicon - large	<b>R055-100330-04</b>
Weck - small	<b>R055-100330-11</b>
Weck - medium	<b>R055-100330-12</b>
Weck - medium-large	<b>R055-100330-13</b>
Pilling - small	<b>R055-100330-21</b>
Pilling - medium	<b>R055-100330-22</b>
Pilling - medium-large	<b>R055-100330-23</b>

for Clips-Type	
SLS - small	<b>R055-100330-31</b>
SLS - medium	<b>R055-100330-32</b>
SLS - medium-large	<b>R055-100330-33</b>
SLS - large	<b>R055-100330-34</b>
Horizon - small	<b>R055-100330-41</b>
Horizon - medium	<b>R055-100330-42</b>
Horizon - medium-large	<b>R055-100330-43</b>
Horizon - large	<b>R055-100330-44</b>

**Ø 10 mm**

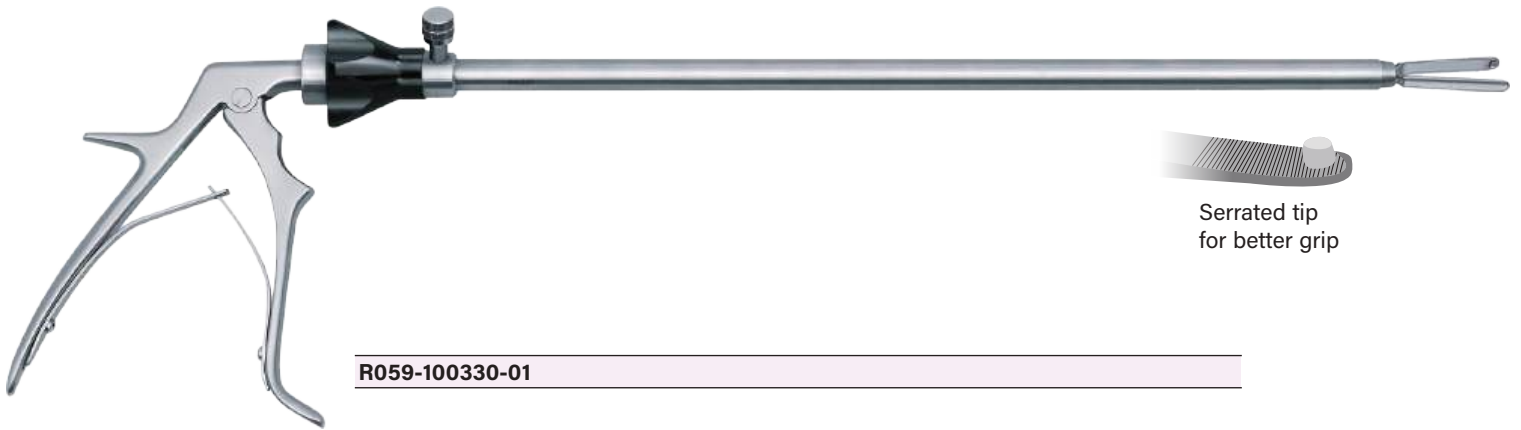
Clip applying forceps, 10 mm Ø, 330 mm working length, detachable (3-parts), 360° rotatable, for TITAN-Clips



for Clips-Type	Forceps complete	Insert alone
Ethicon - small	<b>R056-100330-01</b>	<b>R056-100000-01</b>
Ethicon - medium	<b>R056-100330-02</b>	<b>R056-100000-02</b>
Ethicon - medium-large	<b>R056-100330-03</b>	<b>R056-100000-03</b>
Ethicon - large	<b>R056-100330-04</b>	<b>R056-100000-04</b>
Weck - small	<b>R056-100330-11</b>	<b>R056-100000-11</b>
Weck - medium	<b>R056-100330-12</b>	<b>R056-100000-12</b>
Weck - medium-large	<b>R056-100330-13</b>	<b>R056-100000-13</b>
Weck - large	<b>R056-100330-14</b>	<b>R056-100000-14</b>
Pilling - small	<b>R056-100330-21</b>	<b>R056-100000-21</b>
Pilling - medium	<b>R056-100330-22</b>	<b>R056-100000-22</b>
Pilling - medium-large	<b>R056-100330-23</b>	<b>R056-100000-23</b>
SLS - small	<b>R056-100330-31</b>	<b>R056-100000-31</b>
SLS - medium	<b>R056-100330-32</b>	<b>R056-100000-32</b>
SLS - medium-large	<b>R056-100330-33</b>	<b>R056-100000-33</b>
SLS - large	<b>R056-100330-34</b>	<b>R056-100000-34</b>
Horizon - small	<b>R056-100330-41</b>	<b>R056-100000-41</b>
Horizon - medium	<b>R056-100330-42</b>	<b>R056-100000-42</b>
Horizon - medium-large	<b>R056-100330-43</b>	<b>R056-100000-43</b>

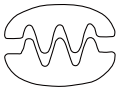
Ø 10 mm

Endoscopic bulldog clamp applier, 10 mm Ø, 330 mm working length, 360° rotatable, with LL-rinsing channel


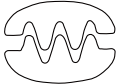


R059-100330-01

Bulldog clamps

	Jaws length	Straight	Curved
 <b>2 x 3 Teeth</b>	17 mm	<b>R059-100-17</b>	<b>R059-101-17</b>
	25 mm	<b>R059-100-25</b>	<b>R059-101-25</b>
	45 mm	<b>R059-100-45</b>	<b>R059-101-45</b>
	60 mm	<b>R059-100-60</b>	<b>R059-101-60</b>






Bulldog clamps (Satinsky) 2 x 3 teeth

	Jaws length	Curved	Angled upwards
  <b>2 x 3 Teeth</b>	60 mm	<b>R059-102-01</b>	<b>R059-103-01</b>

**Ø 5 mm**






Monopolar electrode with small handle, HF-connector 5 mm male



	Type	Working length 330 mm	Working length 450 mm
	Button type electrode	<b>R062-050330-001</b>	<b>R062-050450-001</b>
	J-hook electrode	<b>R062-050330-002</b>	<b>R062-050450-002</b>
	90°-hook electrode	<b>R062-050330-003</b>	<b>R062-050450-003</b>
	Spatula electrode	<b>R062-050330-004</b>	<b>R062-050450-004</b>
	Needle electrode	<b>R062-050330-005</b>	<b>R062-050450-005</b>

Monopolar electrode with small handle, HF-connector 5 mm male








	Type	Working length 330 mm	Working length 450 mm
	Button type electrode	<b>R060-050330-001</b>	<b>R060-050450-001</b>
	J-hook electrode	<b>R060-050330-002</b>	<b>R060-050450-002</b>
	<b>L-hook electrode</b>	<b>R060-050330-003</b>	<b>R060-050450-003</b>
	Spatula electrode	<b>R060-050330-004</b>	<b>R060-050450-004</b>
	Needle electrode	<b>R060-050330-005</b>	<b>R060-050450-005</b>

**Ø 5 mm**

Monopolar electrode with trumpet valve and LL-adapter, HF-connector 5 mm male








	type	Working length 330 mm	Working length 450 mm
	Button type electrode	<b>R063-050330-001</b>	<b>R063-050450-001</b>
	J-hook electrode	<b>R063-050330-002</b>	<b>R063-050450-002</b>
	L-hook electrode	<b>R063-050330-003</b>	<b>R063-050450-003</b>
	Spatula electrode	<b>R063-050330-004</b>	<b>R063-050450-004</b>
	Needle electrode	<b>R063-050330-005</b>	<b>R063-050450-005</b>

**Ø 5 mm**

Monopolar electrode modular, adaptable on handles (see page 6/5, LL-connector)



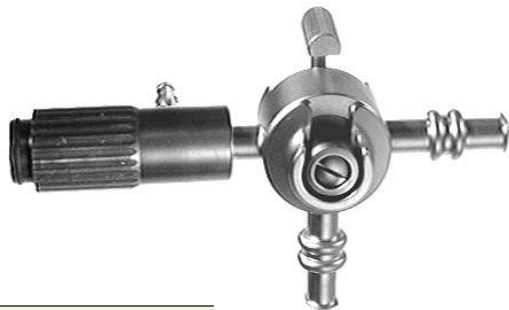
	type	Working length 330 mm
	Button type electrode	<b>R064-050330-001</b>
	J-hook electrode	<b>R064-050330-002</b>
	L-hook electrode	<b>R064-050330-003</b>
	Spatula electrode	<b>R064-050330-004</b>
	Needle electrode	<b>R064-050330-005</b>



R064-050000-006

**Pistol Handle with Sliding Valve**

for exchangeable electrodes, with rotatable adapter and sidewise HF-Connector two combined Luer-Lock / Tube Connectors



R064-050000-010

**Suction-Irrigation-Sliding Valve with Electrode Adapter**

for exchangeable electrodes, with rotatable adapter and side HF-Connector combined Luer-Lock / Tube Connector



R064-050000-011






**Trumpet Valve with Electrode Adapter**

for exchangeable electrodes, with rotatable adapter and side HF-Connector combined Luer-Lock / Tube Connector

**Monopolar**

**Unit side**

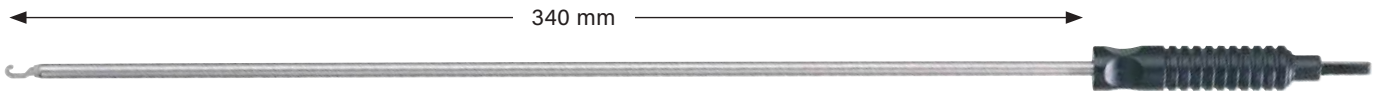
**Instrument side**

	Cable length Meter	female 4 mm Ø 
Erbe / Storz 5 mm Ø 	3	<b>R060-050040-003</b>
	5	<b>R060-050040-005</b>
Aesculap / Martin / Berchtold 4 mm Ø 	3	<b>R060-040040-003</b>
	5	<b>R060-040040-005</b>
Valleylab / Conmed / Soering Bowa / Bovie 8 mm Ø 	3	<b>R060-080040-003</b>
	5	<b>R060-080040-005</b>
Eschmann / Erbe T-Serie alte Geräte / old units 	3	<b>R060-040040-203</b>
	5	<b>R060-040040-205</b>

**BIPOLAR**



Ø 5 mm



Bipolar electrodes 340 mm working length



L-hook electrode

**R067-050340-003**

**Ø 5 mm**

For use in laparoscopy for grasping or cutting tissue during bipolar coagulation. This instrument is for connecting to the bipolar output of HF-generators with maximum power output 60 Watt. The electrode is 360° rotatable, there is no receding of the jaws when closing. This allows precise grasping or cutting of the tissue.

Standard handle  
**R066-000000-500**



Ring handle  
**R066-000000-600**



**HIRSCH**



Working length	Working insert alone	complete with handle	complete with handle
200 mm	<b>R066-000200-501</b>	<b>R066-050200-501</b>	<b>R066-050200-601</b>
340 mm	<b>R066-000340-501</b>	<b>R066-050340-501</b>	<b>R066-050340-601</b>
450 mm	<b>R066-000450-501</b>	<b>R066-050450-501</b>	<b>R066-050450-601</b>

**Micro**



Working length	Working insert alone	complete with handle	complete with handle
200 mm	<b>R066-000200-507</b>	<b>R066-050200-507</b>	<b>R066-050200-607</b>
340 mm	<b>R066-000340-507</b>	<b>R066-050340-507</b>	<b>R066-050340-607</b>
450 mm	<b>R066-000450-507</b>	<b>R066-050450-507</b>	<b>R066-050450-607</b>

Ø 5 mm

Standard handle  
R066-000000-500



Ring handle  
R066-000000-600



**KLEPPINGER**



Working length	Working insert alone	complete with handle	complete with handle
200 mm	R066-000200-508	R066-050200-508	R066-050200-608
340 mm	R066-000340-508	R066-050340-508	R066-050340-608
450 mm	R066-000450-508	R066-050450-508	R066-050450-608

**Atraumatic 3 mm smooth**



Working length	Working insert alone	complete with handle	complete with handle
200 mm	R066-000200-503	R066-050200-503	R066-050200-603
340 mm	R066-000340-503	R066-050340-503	R066-050340-603
450 mm	R066-000450-503	R066-050450-503	R066-050450-603

**METZENBAUM scissors curved**



Working length	Working insert alone	complete with handle	complete with handle
200 mm	R066-000200-509	R066-050200-509	R066-050200-609
340 mm	R066-000340-509	R066-050340-509	R066-050340-609
450 mm	R066-000450-509	R066-050450-509	R066-050450-609

**Ø 5 mm**

Standard handle  
R066-000000-500



Ring handle  
R066-000000-600



**METZENBAUM** scissors curved TC blades



Working length	Working insert alone	complete with handle	complete with handle
200 mm	R066-000200-510	R066-050200-510	R066-050200-610
<b>340 mm</b>	R066-000340-510	R066-050340-510	<b>R066-050340-610</b>
450 mm	R066-000450-510	R066-050450-510	R066-050450-610

**MARYLAND**



Working length	Working insert alone	complete with handle	complete with handle
200 mm	R066-000200-521	R066-050200-521	R066-050200-621
340 mm	R066-000340-521	R066-050340-521	R066-050340-621
450 mm	R066-000450-521	R066-050450-521	R066-050450-621

**Outer shaft tube**



Working length	
200 mm	<b>R066-050200-001</b>
340 mm	<b>R066-050340-001</b>
450 mm	<b>R066-050450-001</b>

**Inner shaft tube**



Working length	
200 mm	<b>R066-050200-000</b>
<b>340 mm</b>	<b>R066-050340-000</b>
450 mm	<b>R066-050450-000</b>



Adapter for european flat plug

**R066-000000-002**



Adapter for US-cables

**R066-000000-012**

Ø 5 mm



Handle  
R067-000000-700



Shaft  
R067-050340-700

Insert alone



Large grasping forceps

R067-000340-713



Grasping forceps, curved

R067-000340-724



Forceps, curved

R067-000340-722



Scissors, curved

R067-000340-709



Delta Grasper

R067-000340-723



MARYLAND dissector, curved

R067-000340-721

**Bipolar**

**Unit / Equipment side**

**Instrument side**

	Cable length Meter	Europe flat plug	
			
Erbe / Storz 12,5 mm Ø 	3	<b>R065-040125-003</b>	<b>R065-040125-103</b>
	5	<b>R065-040125-005</b>	<b>R065-040125-105</b>
Martin / Berchtold 8 mm Ø AESCULAP Wolf 	3	<b>R065-020080-003</b>	<b>R065-020080-103</b>
	5	<b>R065-020080-005</b>	<b>R065-020080-105</b>
Valleylab / Lamidey / EMC 	3	<b>R065-040285-003</b>	<b>R065-040285-103</b>
	5	<b>R065-040285-005</b>	<b>R065-040285-105</b>
2-Pin U.S. Standard Eschmann 	3	<b>R065-040000-003</b>	<b>R065-040000-103</b>
	5	<b>R065-040000-005</b>	<b>R065-040000-105</b>



**Bipolar forceps with rotating handle**

This new innovative design provides the surgeon with comfortable ergonomic handling in all working positions.

The handles rotate independently of the shaft, so the instrument can be controlled in a relaxed natural way, reducing fatigue and enabling precise handling and control during surgery.

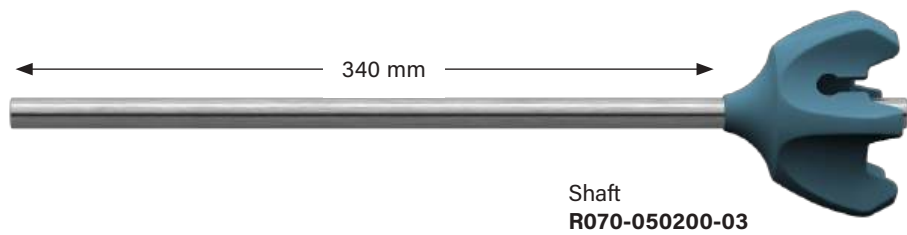
Ø 5 mm

bipolar forceps with rotatable handle



Handle  
R070-050200-01

Handle, lockable  
R070-050200-02



Shaft  
R070-050200-03

**Insert alone**



Large grasping forceps  
R070-050200-04



Scissors, curved  
R070-050200-05



Grasping forceps,  
fenestrated, curved  
R070-050200-06



MARYLAND dissector, curved  
R070-050200-07

Suction-Irrigation-Handle  
with Tube Connection

**R071-000000-000**



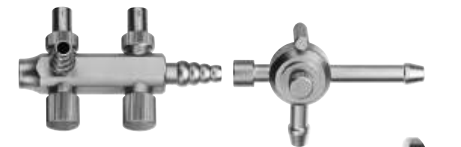
Suction-Irrigation-Handle  
with Sliding Valve and  
Tube Connection

**R072-000000-000**



**Ø 5 / 10 mm**

**Suction-Irrigation-Tubes**



working length	Shaft tube alone		Roundhole Sucker, complete with handle	
330 mm	<b>R070-050330-004</b>	4 Drillings, Ø 5 mm	<b>R071-050330-004</b>	<b>R072-050330-004</b>
330 mm	<b>R070-050330-016</b>	16 Drillings, Ø 5 mm	<b>R071-050330-016</b>	<b>R072-050330-016</b>
330 mm	<b>R070-050330-032</b>	32 Drillings, Ø 10 mm	<b>R071-050330-032</b>	<b>R072-050330-032</b>

working length	Shaft tube alone		Roundhole-Bee Hive Sucker, complete with handle	
330 mm	<b>R070-050330-048</b>	48 Drillings, Ø 5 mm	<b>R071-050330-048</b>	<b>R072-050330-048</b>

working length	Shaft tube alone		Stump Bee Hive Sucker, complete with handle	
330 mm	<b>R070-050330-049</b>	48 Drillings, Ø 5 mm	<b>R071-050330-049</b>	<b>R072-050330-049</b>
500 mm	<b>R070-050500-049</b>	48 Drillings, Ø 5 mm	<b>R071-050500-049</b>	<b>R072-050500-049</b>

working length	Shaft tube alone		Punction Needle Sucker, complete with handle	
330 mm	<b>R070-050330-002</b>	Ø 5 mm	<b>R071-050330-002</b>	<b>R072-050330-002</b>

working length	Shaft tube alone		Aqua Dissector Cannula, complete with handle	
330 mm	<b>R070-050330-001</b>	Ø 5 mm	<b>R071-050330-001</b>	<b>R072-050330-001</b>

working length	Shaft tube alone		Stump Sucker, complete with handle	
330 mm	<b>R070-050330-012</b>	12 Drillings, Ø 5 mm	<b>R071-050330-012</b>	<b>R072-050330-012</b>

**Ø 3,5 / 5 / 10 mm**

**Suction-Irrigation-Handle**

with color-coding

- **20% less weight**
- **less individual parts**
- **color-coding**  
 blue - irrigation  
 green - suction



with large Tube-Connection and sidewise Tube-Luer-Lock-Connection

**R078-000000-100** Handle

complete with both Suction-Irrigation-Tubes

complete with Tube-Set Ø 5 mm

/ 10 mm

**R078-000000-199**

**R078-050330-116**

**R078-100330-116**

- **two in one**  
**sidewise Tube-Luer-Lock-Connection**



with small Tube-Connection and sidewise Tube-Luer-Lock-Connection

**R079-000000-100** Handle

complete with both Suction-Irrigation-Tubes

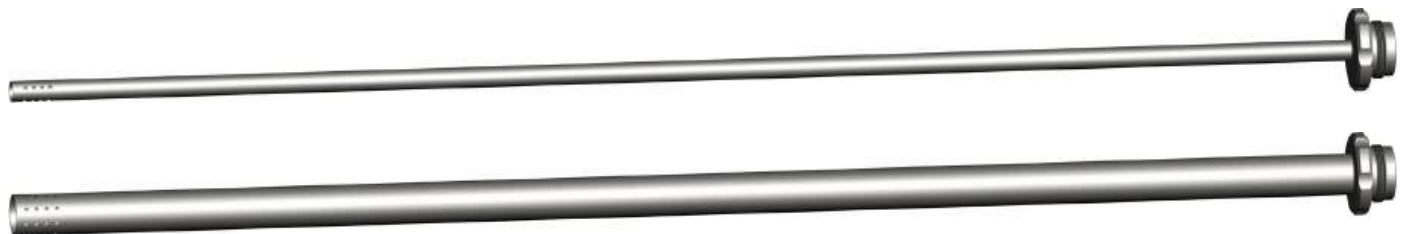
complete with Tube-Set Ø 5 mm

/ 10 mm

**R079-000000-199**

**R079-050330-116**

**R079-100330-116**



working length

240 mm	<b>R070-035240-116</b>	Ø 3,5 mm
330 mm	<b>R070-050330-116</b>	Ø 5 mm
330 mm	<b>R070-100330-116</b>	Ø 10 mm
450 mm	<b>R070-050450-116</b>	Ø 5 mm
450 mm	<b>R070-100450-116</b>	Ø 10 mm

Suction-Irrigation-Pistol-Handle  
with sliding valve for exchangeable  
shafts, two combined Luer-Lock,  
Tube Connectors



**R079-000000-200**

**Ø 3,0 mm**

Suction-Irrigation-Tubes



working length Shaft tube alone

complete with 4 sidewise drillings

**340 mm R070-030340-204**

**R079-030340-204**

complete with 16 sidewise drillings

**340 mm R070-030340-216**

**R079-030340-216**

**Ø 5,0 mm**



working length Shaft tube alone

complete with 4 sidewise drillings

**340 mm R070-050340-204**

**R079-050340-204**

complete with 16 sidewise drillings

**340 mm R070-050340-216**

**R079-050340-216**

**Ø 10 mm**



working length Shaft tube alone

complete with 4 sidewise drillings

**340 mm R070-100340-204**

**R079-100340-204**

complete with 16 sidewise drillings

**340 mm R070-100340-216**

**R079-100340-216**

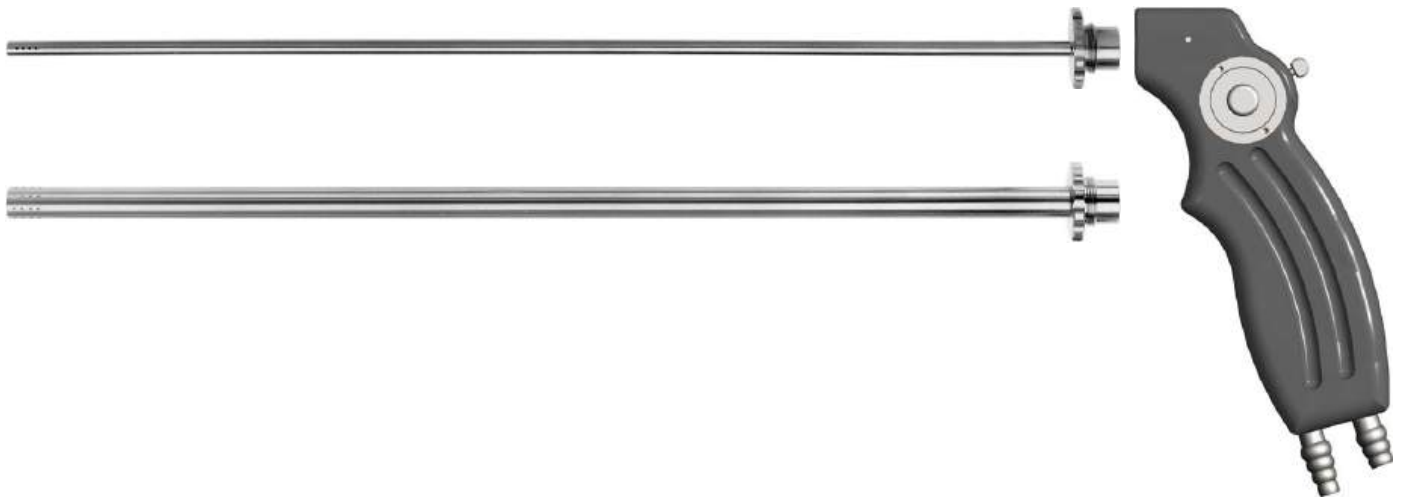
**1 Handle**  
**2 Functions**



**Suction-Irrigation-Pistol-Handle**

with two-way sliding valve and tube connections

- ergonomic handle design
- enlarged suction channel
- straight passages for suction-irrigation liquid
- comfortable operation due to short swivel movement of sliding valve



Handle

**R064-050000-001**

**Ø 3 / 5 / 10 mm**

**Suction-Irrigation-Tubes**

working length	Shaft tube alone	complete with Tube Ø 3,0 m with distal 4x4 hole
<b>330 mm</b>	<b>R070-030330-416</b>	<b>R079-030330-416</b>
		complete with Tube Ø 5,0 mm with distal 4x4 hole
<b>330 mm</b>	<b>R070-050330-416</b>	<b>R079-050330-416</b>
		complete with Tube Ø 10 mm with distal 4x4 hole
<b>330 mm</b>	<b>R070-100330-416</b>	<b>R079-100330-416</b>

**Ø 5 mm**



**R075-050340-000**

Complete set

**R075-050340-016**

Suction-Irrigation Tube 5 mm Ø with 2 lateral trumpet valves with LL-adapters, 340 mm working length, distal 4x1 hole, proximal with LL-adapter for laser fiber guide insert

**Ø 5 mm**

Puncture- and Injection Needle 5 mm Ø distal with needle, proximal with LL-adapter



Needle Ø	330 mm working length	450 mm working length
0,7 mm	R075-050330-007	
0,9 mm	R075-050330-009	
1,2 mm	R075-050330-012	R075-050450-012
1,4 mm	R075-050330-014	R075-050450-014
1,5 mm	R075-050330-015	R075-050450-015
1,8 mm	R075-050330-018	R075-050450-018

**Ø 6 mm**

Puncture Tube for NaCl - Fluid, 6 mm Ø

Luer-Lock = Pressure



Tube = Suction

working length	
235 mm	R940-5130-235

**Ø 2 mm**

Insufflation cannula 2 mm Ø, with LL-adapter



Needle working length

100 mm	<b>R075-020100-001</b>
<b>120 mm</b>	<b>R075-020120-001</b>
150 mm	<b>R075-020150-001</b>
180 mm	<b>R075-020180-001</b>

**Ø 2,7 mm**

High-Flow insufflation cannula 2,7 mm Ø, with LL-adapter



Needle working length

100 mm	<b>R075-027100-001</b>
120 mm	<b>R075-027120-001</b>
150 mm	<b>R075-027150-001</b>

**Ø 2 mm**

Insufflation cannula acc. to Veress with stopcock and Luer-Lock-Connection **Stainless Steel**, 2 mm Ø



working length	
100 mm	<b>R080-020100-001</b>
120 mm	<b>R080-020120-001</b>
150 mm	<b>R080-020150-001</b>

**Ø 2,7 mm**

Insufflation cannula acc. to Veress **High-Flow**, stopcock and Luer-Lock-Connection **Stainless Steel**, 2,7 mm Ø



working length	
100 mm	<b>R080-027100-001</b>
120 mm	<b>R080-027120-001</b>
150 mm	<b>R080-027150-001</b>

Ø 5 mm

Cholangiography fixation clamp with ratchet 5 mm Ø, with working channel, 330 mm working length



R081-050330-001



**Ø 5 mm**

Palpation probe graduated 5 mm Ø



working length

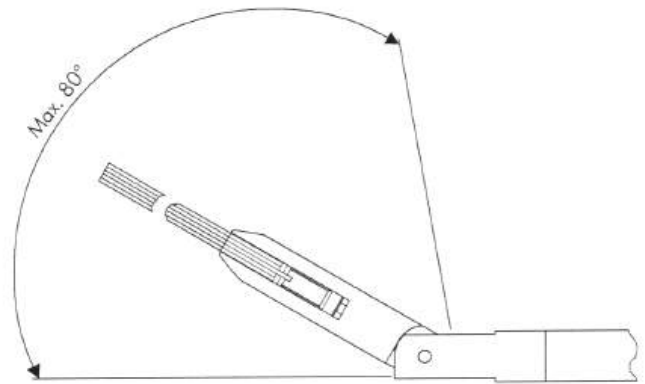
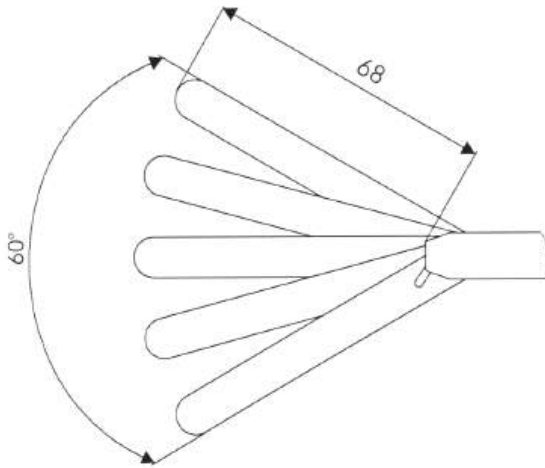
330 mm	<b>R090-050330-001</b>
450 mm	<b>R090-050450-001</b>

Ø 10 mm

Lever retractor 5-fingers spreadable, distal 80° movable, 10 mm Ø, 330 mm working length



R091-100330-005



Endo-Retractor for elastic abdominal bands, blunt fenestrated tip, adjustable, 360 mm working length, LL-adaptor for cleaning



Ø 5 mm



R094-050360-001

Ø 10 mm



R094-100360-001

**Ø 5 mm**

Endo-Retractor 5 mm Ø with 3 fingers spreadable, LL-adapter for cleaning



working length

340 mm	<b>R091-050340-003</b>
450 mm	<b>R091-050450-003</b>



working length

adjustable

340 mm	<b>R092-050340-003</b>
450 mm	<b>R092-050450-003</b>

**Ø 10 mm**

Endo-Retractor 10 mm Ø with 5 fingers spreadable, LL-adapter for cleaning



working length

380 mm	<b>R091-100380-005</b>
450 mm	<b>R091-100450-005</b>



working length

adjustable

380 mm	<b>R092-100380-005</b>
450 mm	<b>R092-100450-005</b>

**Ø 5 mm**

Endo-Retractor 5 mm Ø with 5 fingers spreadable, 340 mm working length rigid, 42 mm spreader, LL-adapter for cleaning



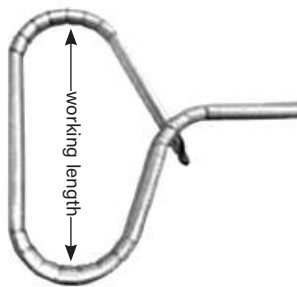
R091-050340-005

Endo-Retractor 5 mm Ø with 5 fingers spreadable a. adjustable, 340 mm working length, 55 mm spreader, LL-adapter for cleaning



R092-050340-005

Ø 5 mm | 380 mm



working length

80 mm	R093-050550-001
60 mm	R093-050550-002

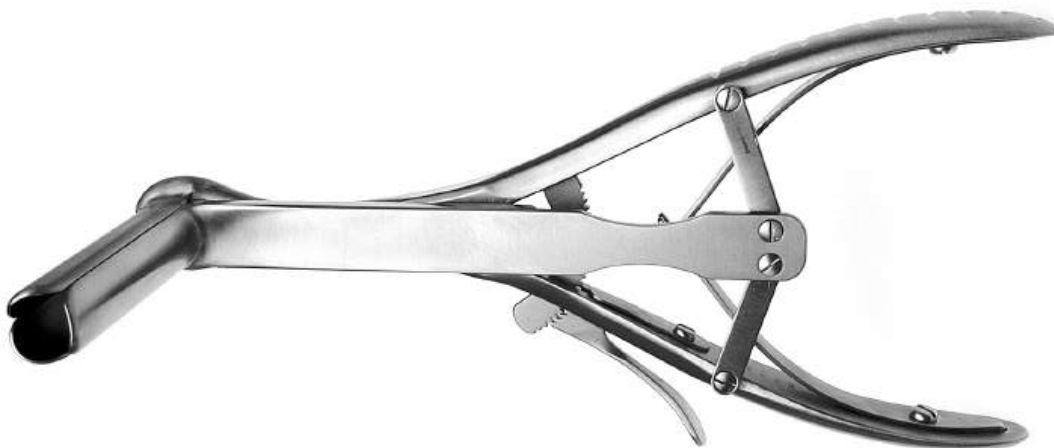
Ø 5 mm | 430 mm



R093-050470-001	90°
-----------------	-----

Speculum retractor, 3 blades for gall bladder extraction

R099-000250-003



Ø 2,0

Laparoscopes with integrated fiberoptic  
for illumination, autoclavable



diameter	working length	direction of view 0°
Ø 2,0 mm	187,5 mm	R010-020187-000

Ø 3,5 mm

Multi function valve trocar sleeve



diameter	working length	Art. No.
Ø 3,5 mm	70 mm	R023-035070-001

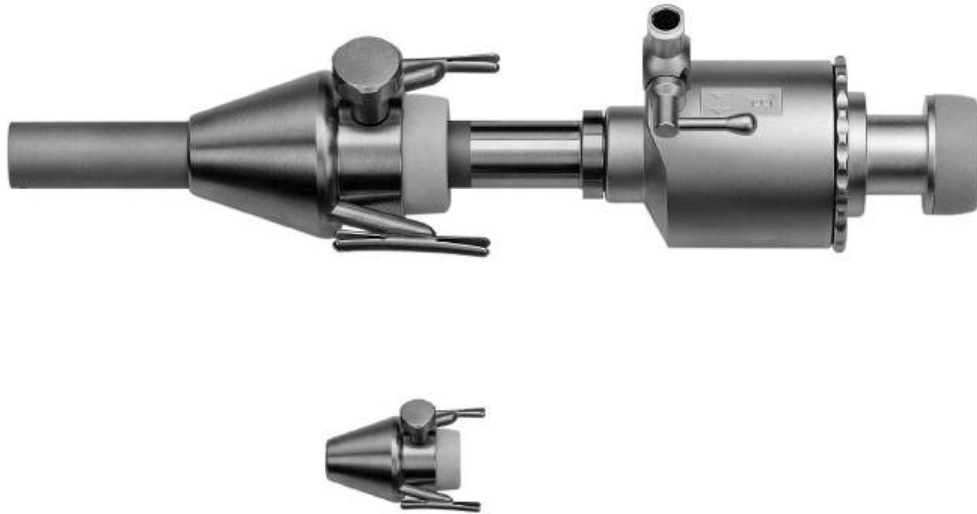
Standard trocar



diameter	for tube length	pyramidal	conical	conical blunt
Ø 3,5 mm	70 mm	R020-035070-001	R020-035070-002	R020-035070-003

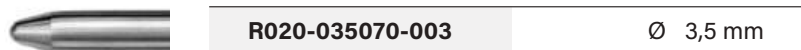
Ø 3,5 mm

HASSON automatic trocar sleeve with stopcock,  
adjustable cone and suture holder at cone



Ø	Cone alone
3,5 mm	<b>R020-035500-001</b>

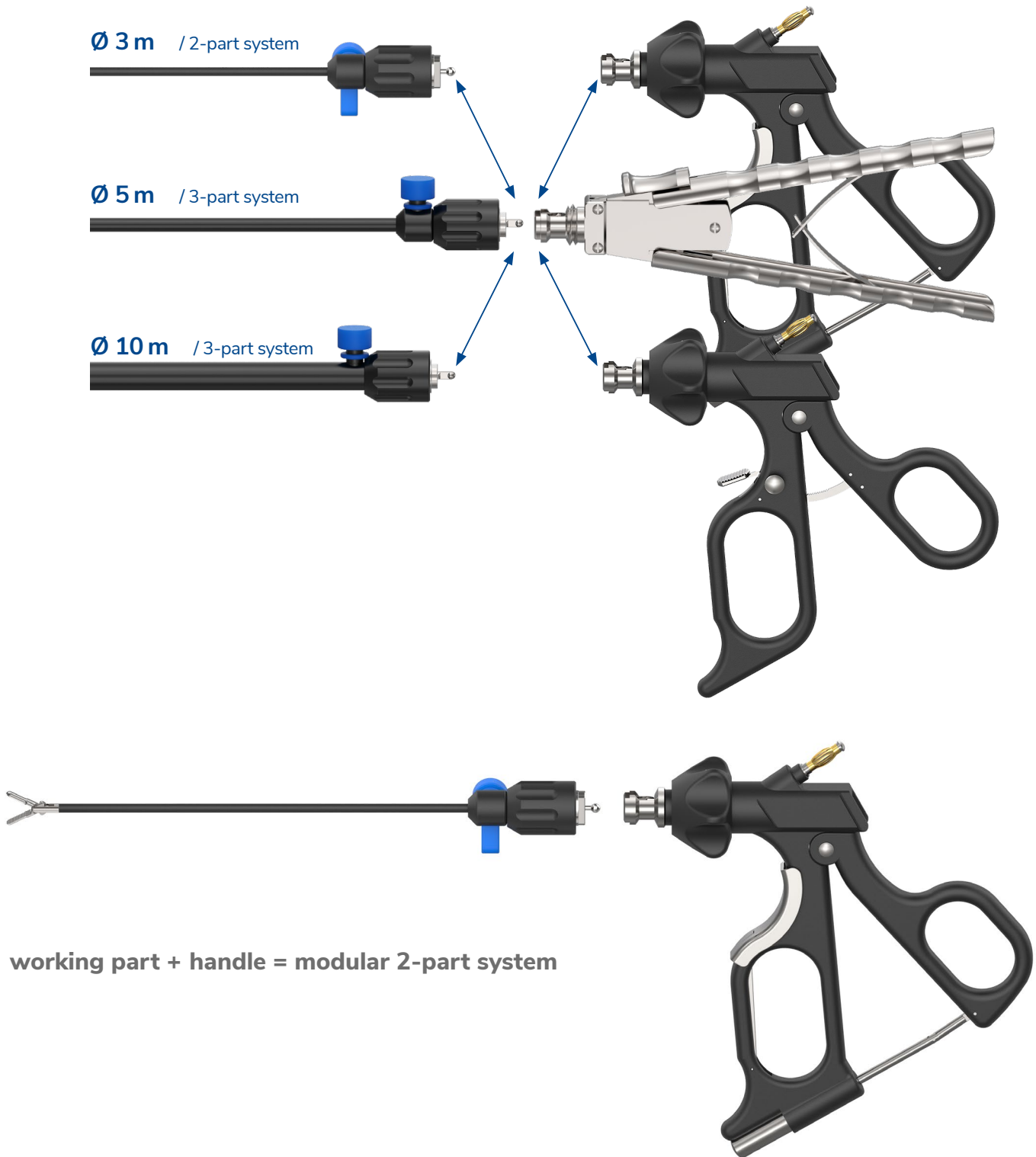
Standard trocar  
conical blunt





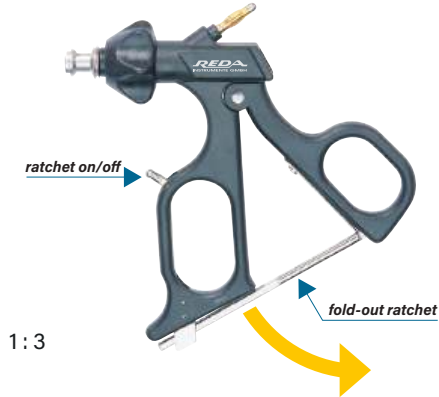
Ø 3 mm

## Pediatric modular 2 piece system



working part + handle = modular 2-part system

Ø 3 / 5 / 10 mm



1:3

Ergonomic universal carbon handle with ratchet,  
Lever for active or unactive ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033** - 000000 - 000



1:3

Ergonomic carbon handle with stepless ratchet,  
ratchet by finger press resolve, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R033P** - 000000 - 000



1:3

Ergonomic carbon handle,  
HF-connector Ø 4 mm male 45° lateral, rotating head 360°, autoclavable

**R034** - 000000 - 000



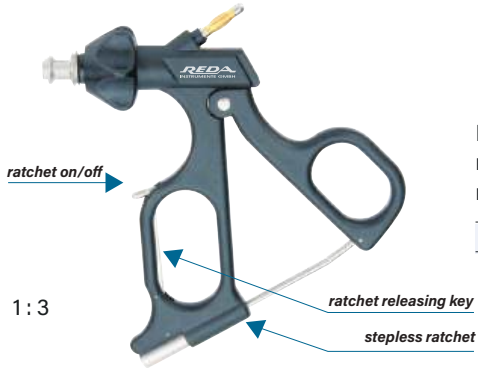
1:3

Ergonomic universal carbon handle with ratchet,  
Button for active or unactive ratchet, HF-connector Ø 4 mm male 45° lateral,  
rotating head 360°, autoclavable

**R032M** - 000000 - 000



Ø 3 / 5 / 10 mm



Ergonomic carbon handle with stepless ratchet, ratchet activating / release lever, HF-connector Ø 4 mm male 45° lateral, rotating head 360°, autoclavable

**R033M - 000000 - 000**



Protection cap for HF-connector Ø 4 mm

**R030 - 000000**

Ø 3 / 5 / 10 mm



Axial handle, v-shaped type with spreading spring and ratchet

**R038** - 000000 - 000



Axial handle, with spreading spring

**R048** - 000000 - 000



Axial handle with rings and ratchet

**R037** - 000000 - 000



Axial ring handle

**R047** - 000000 - 000



Axial handle, v-shaped angled, type with spreading spring and ratchet

**R039** - 000000 - 000

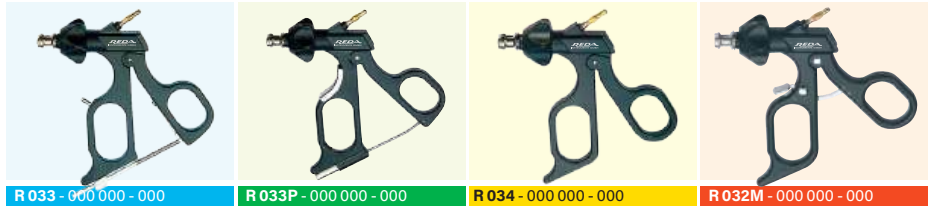


Axial handle, angled, with spreading spring

**R040** - 000000 - 000

**Carbon Handles**

more details at the beginning of the chapter



**Ø 3 mm**



Universal grasping forceps, straight, double action jaws

Working length	Working insert alone	Complete instrument			
<b>180 mm</b>	<b>R100-030180-210</b>	<b>R103-030180-210</b>	<b>R103P-030180-210</b>	<b>R104-030180-210</b>	<b>R102M-030180-210</b>
<b>210 mm</b>	<b>R100-030210-210</b>	<b>R103-030210-210</b>	<b>R103P-030210-210</b>	<b>R104-030210-210</b>	<b>R102M-030210-210</b>
<b>330 mm</b>	<b>R100-030330-210</b>	<b>R103-030330-210</b>	<b>R103P-030330-210</b>	<b>R104-030330-210</b>	<b>R102M-030330-210</b>



MARYLAND grasping forceps, curved, double action jaws

Working length	Working insert alone	Complete instrument			
<b>180 mm</b>	<b>R100-030180-212</b>	<b>R103-030180-212</b>	<b>R103P-030180-212</b>	<b>R104-030180-212</b>	<b>R102M-030180-212</b>
<b>210 mm</b>	<b>R100-030210-212</b>	<b>R103-030210-212</b>	<b>R103P-030210-212</b>	<b>R104-030210-212</b>	<b>R102M-030210-212</b>
<b>330 mm</b>	<b>R100-030330-212</b>	<b>R103-030330-212</b>	<b>R103P-030330-212</b>	<b>R104-030330-212</b>	<b>R102M-030330-212</b>



Dissections forceps, fenestrated, oval, double action jaws

Working length	Working insert alone	Complete instrument			
<b>180 mm</b>	<b>R100-030180-214</b>	<b>R103-030180-214</b>	<b>R103P-030180-214</b>	<b>R104-030180-214</b>	<b>R102M-030180-214</b>
<b>210 mm</b>	<b>R100-030210-214</b>	<b>R103-030210-214</b>	<b>R103P-030210-214</b>	<b>R104-030210-214</b>	<b>R102M-030210-214</b>
<b>330 mm</b>	<b>R100-030330-214</b>	<b>R103-030330-214</b>	<b>R103P-030330-214</b>	<b>R104-030330-214</b>	<b>R102M-030330-214</b>

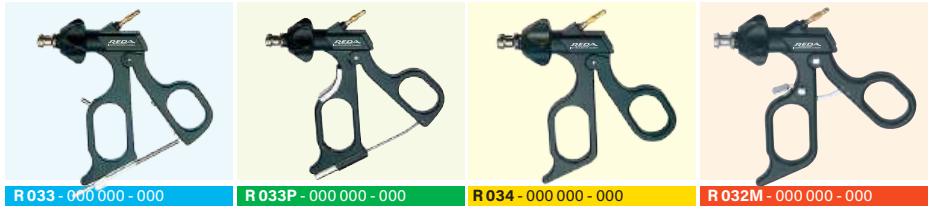


Grasping forceps with reservoir, tip blunt, double action jaws

Working length	Working insert alone	Complete instrument			
<b>180 mm</b>	<b>R100-030180-220</b>	<b>R103-030180-220</b>	<b>R103P-030180-220</b>	<b>R104-030180-220</b>	<b>R102M-030180-220</b>
<b>210 mm</b>	<b>R100-030210-220</b>	<b>R103-030210-220</b>	<b>R103P-030210-220</b>	<b>R104-030210-220</b>	<b>R102M-030210-220</b>
<b>330 mm</b>	<b>R100-030330-220</b>	<b>R103-030330-220</b>	<b>R103P-030330-220</b>	<b>R104-030330-220</b>	<b>R102M-030330-220</b>

**Carbon Handles**

more details at the beginning of the chapter



R 033 - 000 000 - 000

R 033P - 000 000 - 000

R 034 - 000 000 - 000

R 032M - 000 000 - 000

Ø 3 mm

13,5 mm



Grasping forceps with reservoir, tip conical, double action jaws

Working length	Working insert alone	Complete instrument			
180 mm	R100-030180-222	R103-030180-222	R103P-030180-222	R104-030180-222	R102M-030180-222
210 mm	R100-030210-222	R103-030210-222	R103P-030210-222	R104-030210-222	R102M-030210-222
330 mm	R100-030330-222	R103-030330-222	R103P-030330-222	R104-030330-222	R102M-030330-222

17,5 mm



Delphin grasping forceps with reservoir, double action jaws

Working length	Working insert alone	Complete instrument			
180 mm	R100-030180-224	R103-030180-224	R103P-030180-224	R104-030180-224	R102M-030180-224
210 mm	R100-030210-224	R103-030210-224	R103P-030210-224	R104-030210-224	R102M-030210-224
330 mm	R100-030330-224	R103-030330-224	R103P-030330-224	R104-030330-224	R102M-030330-224

18 mm



Grasping forceps, crosswise teeth, jaw length 14 mm, conical, double action jaws

Working length	Working insert alone	Complete instrument			
180 mm	R100-030180-230	R103-030180-230	R103P-030180-230	R104-030180-230	R102M-030180-230
210 mm	R100-030210-230	R103-030210-230	R103P-030210-230	R104-030210-230	R102M-030210-230
330 mm	R100-030330-230	R103-030330-230	R103P-030330-230	R104-030330-230	R102M-030330-230



22 mm

Claw grasping forceps, 3 x 2 teeth, single action jaws

Working length	Working insert alone	Complete instrument			
180 mm	R100-030180-242	R103-030180-242	R103P-030180-242	R104-030180-242	R102M-030180-242
210 mm	R100-030210-242	R103-030210-242	R103P-030210-242	R104-030210-242	R102M-030210-242
330 mm	R100-030330-242	R103-030330-242	R103P-030330-242	R104-030330-242	R102M-030330-242

**Carbon Handles**

more details at the beginning of the chapter

**Stainless steel Handles**

more details at the beginning of the chapter



**Ø 3 mm**



METZENBAUM scissors, straight, double action jaws

Working length	Working insert alone	Complete instrument		
<b>180 mm</b>	<b>R100-030180-110</b>	<b>R104-030180-110</b>	<b>R147-030180-110</b>	<b>R148-030180-110</b>
<b>210 mm</b>	<b>R100-030210-110</b>	<b>R104-030210-110</b>	<b>R147-030210-110</b>	<b>R148-030210-110</b>
<b>330 mm</b>	<b>R100-030330-110</b>	<b>R104-030330-110</b>	<b>R147-030330-110</b>	<b>R148-030330-110</b>



METZENBAUM scissors, curved, double action jaws

Working length	Working insert alone	Complete instrument		
<b>180 mm</b>	<b>R100-030180-112</b>	<b>R104-030180-112</b>	<b>R147-030180-112</b>	<b>R148-030180-112</b>
<b>210 mm</b>	<b>R100-030210-112</b>	<b>R104-030210-112</b>	<b>R147-030210-112</b>	<b>R148-030210-112</b>
<b>330 mm</b>	<b>R100-030330-112</b>	<b>R104-030330-112</b>	<b>R147-030330-112</b>	<b>R148-030330-112</b>



Peritoneal scissors, serrated, straight, single action jaws

Working length	Working insert alone	Complete instrument		
<b>180 mm</b>	<b>R100-030180-114</b>	<b>R104-030180-114</b>	<b>R147-030180-114</b>	<b>R148-030180-114</b>
<b>210 mm</b>	<b>R100-030210-114</b>	<b>R104-030210-114</b>	<b>R147-030210-114</b>	<b>R148-030210-114</b>
<b>330 mm</b>	<b>R100-030330-114</b>	<b>R104-030330-114</b>	<b>R147-030330-114</b>	<b>R148-030330-114</b>

**Carbon Handles**

more details at the beginning of the chapter

**Stainless steel Handles**

more details at the beginning of the chapter



R 034 - 000 000 - 000

Ø 3 mm

9 mm



Hook scissors, straight

Working length	Working insert alone	Complete instrument
<b>180 mm</b>	<b>R100-030180-116</b>	<b>R104-030180-116</b>
<b>210 mm</b>	<b>R100-030210-116</b>	<b>R104-030210-116</b>
<b>330 mm</b>	<b>R100-030330-116</b>	<b>R104-030330-116</b>

5,5 mm



Micro scissors, straight

Working length	Working insert alone	Complete instrument
<b>180 mm</b>	<b>R100-030180-118</b>	<b>R104-030180-118</b>
<b>210 mm</b>	<b>R100-030210-118</b>	<b>R104-030210-118</b>
<b>330 mm</b>	<b>R100-030330-118</b>	<b>R104-030330-118</b>

**Carbon Handles**

more details at the beginning of the chapter



R 034 - 000 000 - 000

**Ø 3 mm**

8 mm



Biopsy cup, sharp, without thorn, double action jaws

Working length	Working insert alone	Complete instrument
<b>180 mm</b>	<b>R100-030180-310</b>	<b>R104-030180-310</b>
<b>210 mm</b>	<b>R100-030210-310</b>	<b>R104-030210-310</b>
<b>330 mm</b>	<b>R100-030330-310</b>	<b>R104-030330-310</b>

8 mm



Biopsy cup, sharp, with thorn, double action jaws

Working length	Working insert alone	Complete instrument
<b>180 mm</b>	<b>R100-030180-312</b>	<b>R104-030180-312</b>
<b>210 mm</b>	<b>R100-030210-312</b>	<b>R104-030210-312</b>
<b>330 mm</b>	<b>R100-030330-312</b>	<b>R104-030330-312</b>

Ø 3 mm



**Needle holder**

with axial-ratchet-handle and LUER lock irrigation adapter, Ø 3 mm, working length 330 mm - four jaw types available.

15 mm



Needle holder, straight,

with inserted tungsten carbide, crosswise teeth, single action jaws

Handle	straight	angled
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	<b>R158-0533-350</b>	<b>R159-0533-350</b>
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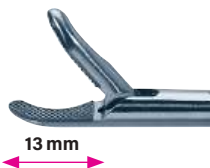
11 mm

Needle holder, curved left,

with inserted tungsten carbide, crosswise teeth, single action jaws

Handle	straight	angled
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	<b>R158-0533-352</b>	<b>R159-0533-352</b>
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13 mm

Needle holder, curved right,

with inserted tungsten carbide, crosswise teeth, single action jaws

Handle	straight	angled
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	<b>R158-0533-354</b>	<b>R159-0533-354</b>
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14,5 mm

Needle holder/-positioner, convex/concave shaped jaws, with fixation teeth, straight, with wolfram-carbide-coated tips, single action jaws

Handle	straight	angled
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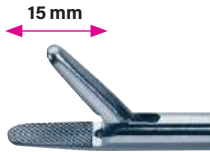
	<b>R158-0533-360</b>	<b>R159-0533-360</b>
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**Carbon Handles**

more details at the beginning of the chapter



**Ø 3 mm**



Needleholder with inserted tungsten carbide, straight, single action jaws

Working length	Working insert alone	Complete instrument		
<b>210 mm</b>	<b>R150-030210-350</b>	<b>R153-030210-350</b>	<b>R153P-030210-350</b>	<b>R151-030210-350</b>
<b>330 mm</b>	<b>R150-030330-350</b>	<b>R153-030330-350</b>	<b>R153P-030330-350</b>	<b>R151-030330-350</b>



Needleholder with inserted tungsten carbide, curved left, single action jaws

Working length	Working insert alone	Complete instrument		
<b>210 mm</b>	<b>R150-030210-352</b>	<b>R153-030210-352</b>	<b>R153P-030210-352</b>	<b>R151-030210-352</b>
<b>330 mm</b>	<b>R150-030330-352</b>	<b>R153-030330-352</b>	<b>R153P-030330-352</b>	<b>R151-030330-352</b>



Needleholder with inserted tungsten carbide, curved right, single action jaws

Working length	Working insert alone	Complete instrument		
<b>210 mm</b>	<b>R150-030210-354</b>	<b>R153-030210-354</b>	<b>R153P-030210-354</b>	<b>R151-030210-354</b>
<b>330 mm</b>	<b>R150-030330-354</b>	<b>R153-030330-354</b>	<b>R153P-030330-354</b>	<b>R151-030330-354</b>



Needleholder/-positioner insert, convex/concave with teeth, TC

Working length	Working insert alone	Complete instrument		
<b>210 mm</b>	<b>R150-030210-360</b>	<b>R153-030210-360</b>	<b>R153P-030210-360</b>	<b>R151-030210-360</b>
<b>330 mm</b>	<b>R150-030330-360</b>	<b>R153-030330-360</b>	<b>R153P-030330-360</b>	<b>R151-030330-360</b>

**Stainless steel Handles**

more details at the beginning of the chapter



R 037 - 000 000 - 000

R 038 - 000 000 - 000

R 039 - 000 000 - 000

Ø 3 mm

15 mm



Needleholder with inserted tungsten carbide, straight, single action jaws

Complete instrument			Working length mm
R157-030210-350	R158-030210-350	R159-030210-350	210
R157-030330-350	R158-030330-350	R159-030330-350	330

11 mm



Needleholder with inserted tungsten carbide, curved left, single action jaws

Complete instrument			Working length mm
R157-030210-352	R158-030210-352	R159-030210-352	210
R157-030330-352	R158-030330-352	R159-030330-352	330

13 mm



Needleholder with inserted tungsten carbide, curved right, single action jaws

Complete instrument			Working length mm
R157-030210-354	R158-030210-354	R159-030210-354	210
R157-030330-354	R158-030330-354	R159-030330-354	330



14,5 mm








Needleholder/-positioner insert, convex/concave with teeth, TC

Complete instrument			Working length mm
R157-030210-360	R158-030210-360	R159-030210-360	210
R157-030330-360	R158-030330-360	R159-030330-360	330

**Ø 2,8 mm**

Monopolar electrode with small handle,  
Ø 2,8 mm



	Type	working length	
		<b>330 mm</b>	<b>250 mm</b>
	Button type electrode	<b>R060-028330-001</b>	<b>R060-028250-001</b>
	J-hook electrode	<b>R060-028330-002</b>	<b>R060-028250-002</b>
	L-hook electrode	<b>R060-028330-003</b>	<b>R060-028250-003</b>
	Spatula electrode	<b>R060-028330-004</b>	<b>R060-028250-004</b>
	Needle electrode	<b>R060-028330-005</b>	<b>R060-028250-005</b>

**Suction-Irrigation-Cannula**  
with sliding valves  
and tube with 8 drillings



working length complete with handle

<b>330 mm</b>	<b>R072-028330-008</b>
<b>250 mm</b>	<b>R072-028250-008</b>

Handle with sliding valve

**R072-000000-000**

working length roundhole Sucker with 8 drillings

<b>330 mm</b>	<b>R070-028330-008</b>
<b>250 mm</b>	<b>R070-028250-008</b>

**Ø 1,2 mm**

**Puncture- and Injection Needle**  
distal with needle,  
proximal with LL-adapter



working length Nadel / Needle

<b>330 mm</b>	<b>R075-028330-012</b>
<b>250 mm</b>	<b>R075-028250-012</b>

**Ø 3,5 mm**
**Suction-Irrigation-Handle**

with color-coding

- **20% less weight**
- **less individual parts**
- **color-coding**  
blue - irrigation  
green - suction
- **two in one**  
**sidewise Tube-Luer-Lock-Connection**


**Suction-Irrigation-Handle 10 mm**

with large Tube-Connection and sidewise Tube-Luer-Lock-Connection

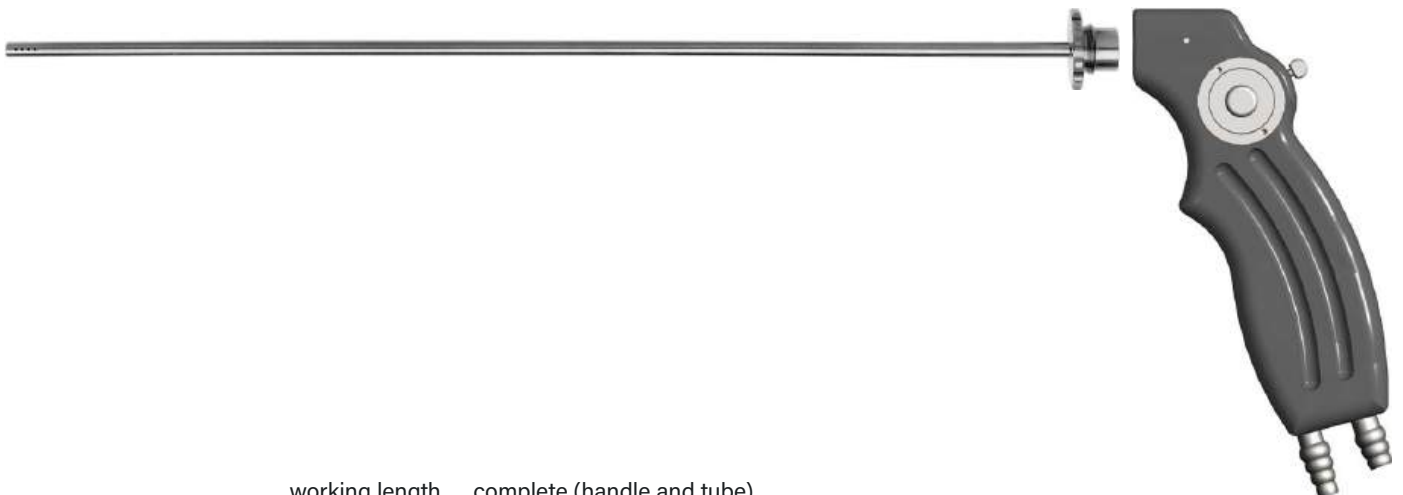
**R078-000000-100**

 working length **Tube for 10 mm Suction-Irrigation-Handle, Ø 3,5 mm**
**240 mm R070-035240-116**
**Ø 3 mm**
**1 Handle**  
**2 Functions**

**Suction-Irrigation-Handle**

with two-way sliding valve and tube connections

- **ergonomic handle design**
- **enlarged suction channel**
- **straight passages for suction-irrigation liquid**
- **comfortable operation due to short swivel movement of the valve**



working length complete (handle and tube)

**330 mm R079-030330-416**

Handle with sliding valve

**R064-050000-001**

Tube only Ø 3,0 mm

**R070-030330-416**

Valve Handle for Shaft M8 x 1

Suction-Irrigation-Handle  
with Trumpet Valve

for exchangeable shafts with threads M8 x 1  
combined Luer-Lock / Tube connector



**R076-000000-200**

Suction-Irrigation-Pistol-Handle  
with Sliding Valve

for exchangeable shafts with threads M8 x 1  
two combined Luer-Lock / Tube connector



**R079-000000-200**

Ø 3,0 mm

Exchangeable Suction-Irrigation-Tube  
with threads M8 x 1



working length 4 side drill holes

**340 mm R070-030340-204**

working length 16 side drill holes

**340 mm R070-030340-216**

**DENNIS** dissector  
Working length: 9" (23 cm)  
Total length: 13 1/4" (33.5 cm)



Serrated jaws  
7 mm shaft



**R119-93527-04**

Working length: 9 1/2" (24 cm)  
Total length: 13 1/4" (33.5 cm)



sliding shaft  
10 mm, straight

**R119-93527-17**



sliding shaft  
slim 7 mm, curved

**R119-93527-16**

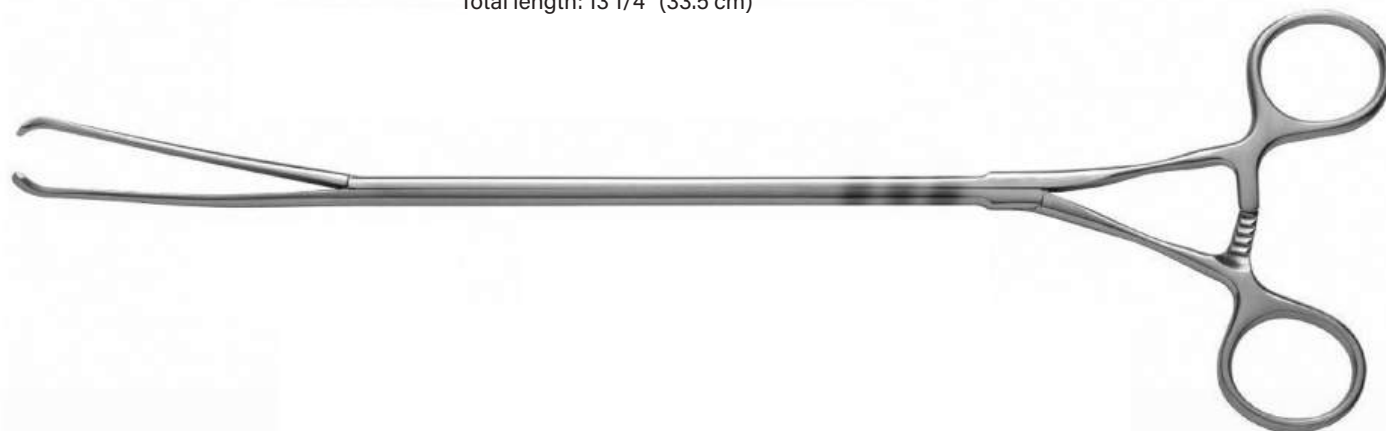
sliding shaft  
regular 10 mm, curved

**R119-93527-01**

**ALLIS** forceps

Working length: 9" (23 cm)

Total length: 13 1/4" (33.5 cm)



6 mm width jaws

7 mm shaft



**R119-93527-13**

**STERN** chest tube passer

Working length: 6 7/8" (17.5 cm)

Total length: 9 3/4" (24.8 cm)



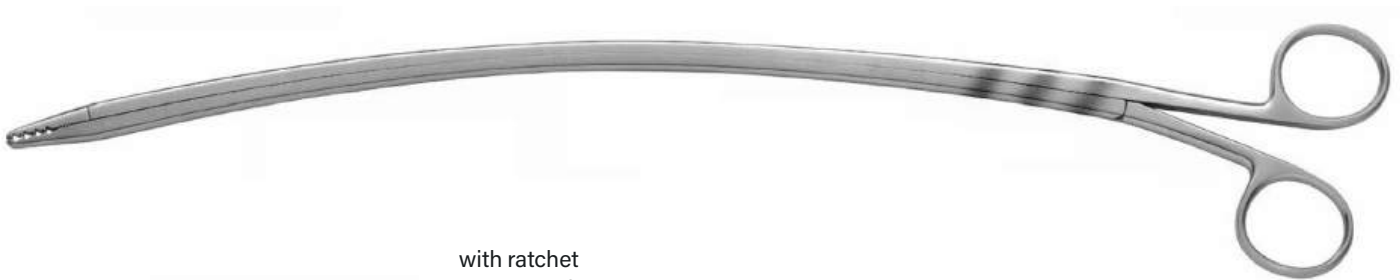
without ratchet  
10 mm shaft

**R119-93527-21**

**STERN** chest tube passer

Working length: 11" (28 cm)

Total length: 14" (35.6 cm)



with ratchet  
10 mm shaft

**R119-93527-18**

without ratchet  
10 mm shaft

**R119-93527-19**

**DEBAKEY COOLEY** forceps  
Working length: 9 1/2" (24 cm)  
Total length: 13 1/2" (34 cm)



without ratchet  
DeBakey Cooley jaws  
10 mm shaft

**R119-93527-06**

with ratchet  
DeBakey Cooley jaws  
10 mm shaft

**R119-93527-10**

**HARKEN** clamps

Working length: 9 7/8" (24.8 cm)

Total length: 14" (35.5 cm)



without ratchet  
HARKEN #1  
DEBAKEY jaws  
10 mm shaft



**R119-93527-14**

without ratchet  
HARKEN #2  
DEBAKEY jaws  
10 mm shaft



**R119-93527-15**

**DEBAKEY** clamps

Working length: 10" (25.4 cm)

Total length: 14 1/4" (36 cm)



6.5 cm jaw length  
1 x 2 DEBAKEY jaws  
10 mm shaft

**R119-93527-05**



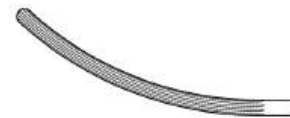
10 cm jaw length  
1 x 2 DEBAKEY jaws  
10 mm shaft

**R119-93527-12**



10 cm jaw length  
2 x 3 DEBAKEY jaws  
10 mm shaft

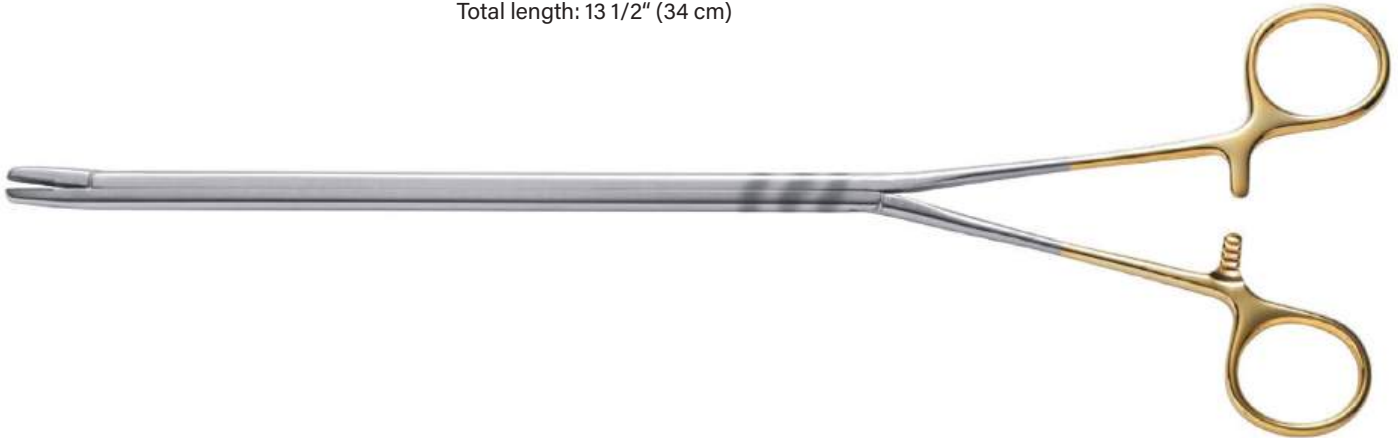
**R119-93527-11**



**Needle Holders for 2-0 Suture**

Working length: 8 1/4" (21 cm)

Total length: 13 1/2" (34 cm)



2-0 and smaller suture  
Straight, Carbon-inlay jaws  
10 mm shaft

**R119-93527-07**



2-0 and smaller suture  
Curved, Carbon-inlay jaws  
10 mm shaft

**R119-93527-08**

**DUVAL** clamps

Working length: 9 1/4" (23.5 cm)

Total length: 13 1/2" (34 cm)



DUVAL clamp  
2.5 cm width jaws  
10 mm shaft

**R119-93527-20**



**Hysteroscopes**

with integrated fiberoptic for illumination, autoclavable



**Compatibility**

<b>Light port adapter</b>	ACMI-, Wolf-, Storz / Olympus
<b>Eyepiece</b>	Ocular according DIN 58105 threaded
<b>Objective</b>	Tension-free objective composed-objective
<b>Image transmission</b>	CAD-designed rodence system for optimal sharpness, colorsync and resolution
<b>Light-guiding system</b>	High quality light fibers
<b>Optical glass</b>	Distal and proximal Sapphire
<b>Biocompatibility</b>	All materials that come in contact with the body are biocompatible. All outside metal parts are made of high quality stainless steel.

Ø	working length	direction of view	
		0°	30°
4,0 mm	302 mm	<b>R300-040302-000</b>	<b>R300-040302-030</b>

Continuous-Flow Operating Sheaths  
for Hysteroscopes Ø 2,7 mm and Ø 2,9 mm



**Diagnostic-Continuous-Flow-Inner Sheath, 1 stopcock, rigid**

working length		Outer Ø
260 mm	R213-037260-000	4,0
	30° - 300 mm	
260 mm	R213-037260-030	4,0



**Diagnostic-Continuous-Flow-Outer Sheath, 1 stopcock, rigid**

working length		Outer Ø
240 mm	R213-050260-000	5,0



**Obturator**

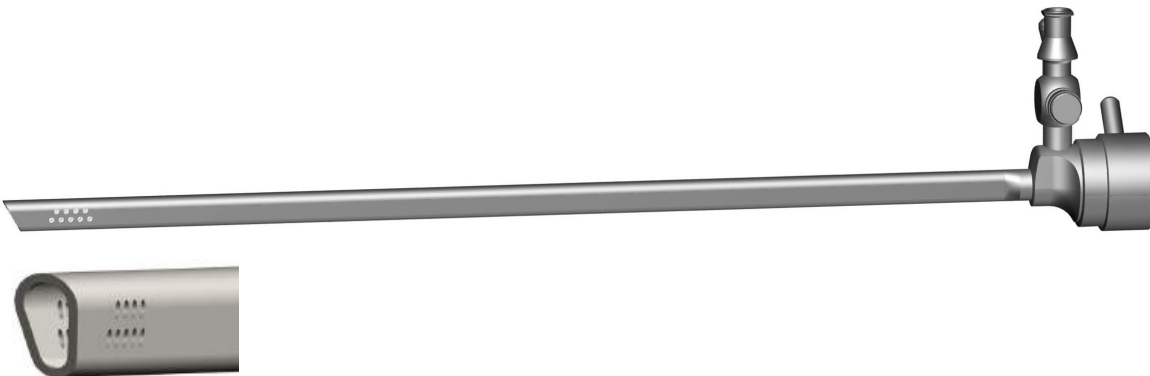
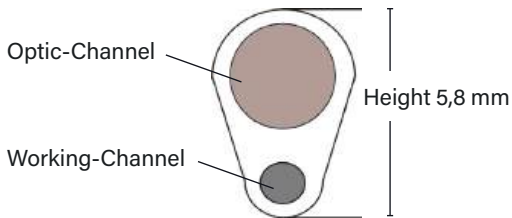
suitable for R213-050260-000

R213-050300-000

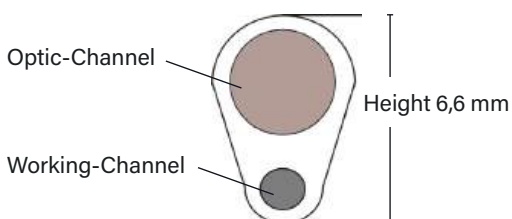
Continuous-Flow Operating Sheaths  
for Hysteroscopes Ø 2,7 mm and Ø 2,9 mm



working length	working channel	<b>1 Instrument Port</b>
<b>228 mm</b>	<b>5 CH.</b>	30° - 300 mm
		<b>R212-038300-000</b>



	<b>Diagnostic-Continuous-Flow-Outer Sheath, 1 stopcock, rigid</b>
working length	30° - 300 mm, suitable for R212-038300-000
<b>215 mm</b>	<b>R212-040300-000</b>

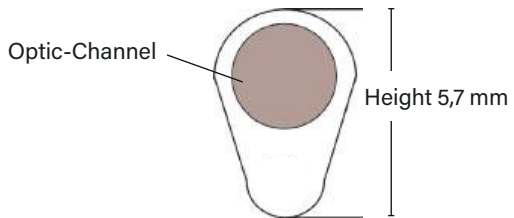


Hysteroscopy - Operating Sheaths  
for Hysteroscopes Ø 2,7 mm and Ø 2,9 mm



**1 Instrument Port, 2 stopcock, rigid**

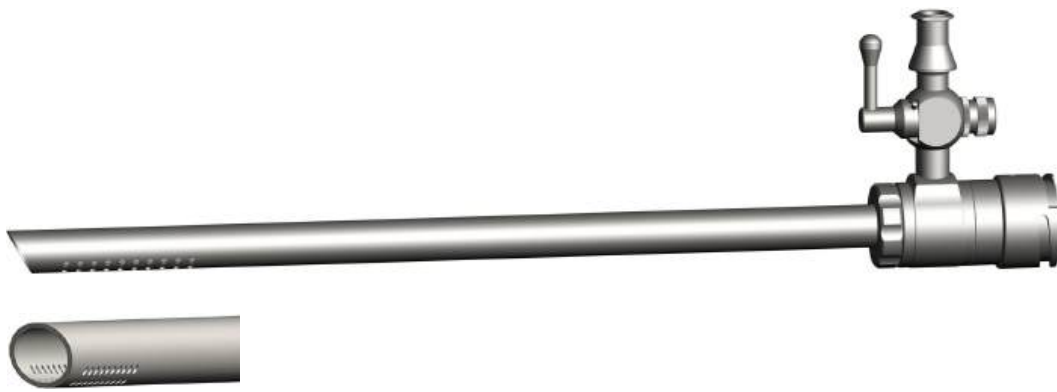
working length	working channel	30° - 300 mm
<b>222 mm</b>	<b>5 CH.</b>	<b>R212-035248-101</b>



Continuous-Flow Operating Sheaths  
for Hysteroscopes Ø 4,0 mm



working length	working channel	1 Instrument Port	Outer Ø
175 mm	7 CH.	30° - 300 mm R214-070000-030	5,4



working length	Diagnostic-Continuous-Flow-Outer Sheath, 1 stopcock, rigid	Outer Ø
155 mm	30° - 300 mm, suitable for R214-070000-030 R214-070200-030	7,6



Obturator
suitable for R214-070200-030 R214-070000-000

WL 34 cm 360° + Rotatable

Hysteroscopy Forceps,  
semi-rigid

Also available with Luer-Lock



Ø 5 [Char]



Grasping Forceps, cup serrated

R292-017340-003



Cutting Biopsy Punch

R292-017340-002



PE-Forceps, cup, sharp

R292-017340-001



Alligator Forceps

R292-017340-011



Scissors, pointed tips

R292-017340-022



Grasping Forceps, cup serrated

R292-017340-004



Scissors, blunt tips

R292-017340-021

**Ring Applicator**

with advanced handling: more safety for the user due to 3-Positions-System.

Position 0 = **Safety**

Position 1 = 1st ring

Position 2 = 2nd ring

Simplified assembly and disassembly due to **Click**-mechanism on the sliding bar.

**Ø 6,0 mm**

**First Incision**

For use with Operating-Laparoscope



working length **327 mm** Complete with Loading Device and Conus suitable for OP-Laparoscope: STANDARD  
**R120-060330-001**



Loading Device  
**R120-060000-002**

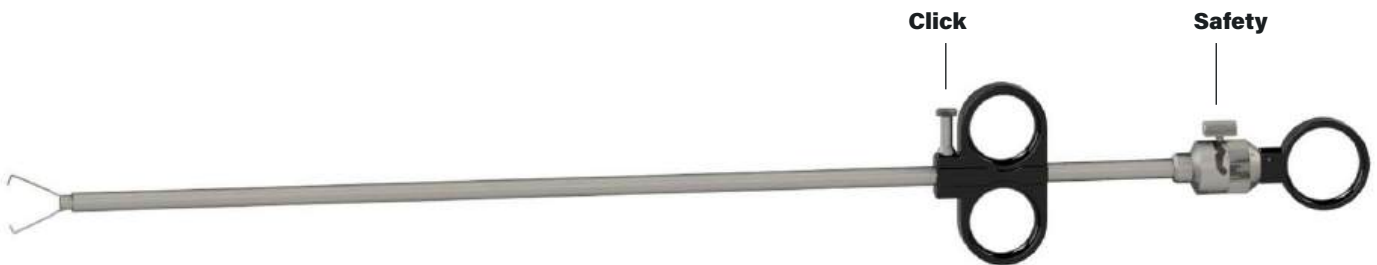


Conus Piece  
**R120-060000-001**

**Ø 6,5 mm**

**Second Incision**

For use with a regular Trocar Sleeve



working length **300 mm** Complete with Loading Device  
**R120-065340-001**



Loading Device  
**R120-060000-002**



Conus Piece  
**R120-060000-001**

Ø 5 / 10 mm

Myoma Drill



working length    Ø 5,0 mm

**330 mm**    **R121-050320-01**

Ø 10,0 mm

**330 mm**    **R121-100330-01**

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**COHEN Intra Uterine Cannula**  
with spring-loaded fixation, one large and one small cone



working length Complete

**170 mm R122-250170-000**

Cone alone, Ø 19 mm, small

**R122-190056-000**

Cone alone, Ø 25 mm, large

**R122-250056-000**

Uterine Cannula allone

**R122-250170-001**

Uterus Manipulator



**R122-200180-199**

Complete with 6 different cones

working length	Ø
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Uterus obturator, thin, short

45 mm	3 mm
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**R122-030045-000**



Uterus obturator, thin, long

55 mm	3 mm
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**R122-030055-000**



Uterus obturator, medium, long

80 mm	8 mm
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**R122-080080-000**



Uterus obturator, thick, extra long

100 mm	10 mm
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**R122-100100-000**



Cone, with short thorn

60 mm	25 mm
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**R122-250060-000**



Cone, with long thorn

70 mm	25 mm
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**R122-250070-000**

**Manipulator**  
alone, without cones

**R122-200180-000**

Ø 7,0 mm

**LOWSLEY retractor**  
for manipulation of the bladder  
for perineal prostatectomy



working length

**210 mm** R139-070210-001 straight



working length

**300 mm** R139-070300-011 curved





	Ø	length cm	fused for Xenon Light
	3,5	180	<b>R901-035180-00</b>
	3,5	230	<b>R901-035230-00</b>
	3,5	300	<b>R901-035300-00</b>
	4,8	180	<b>R901-048180-00</b>
	4,8	230	<b>R901-048230-00</b>
	4,8	250	<b>R901-048250-00</b>
	4,8	300	<b>R901-048300-00</b>

Connector to light source



**IN**



**R900-000000-01**  
Storz / Aesculap



**R900-000000-21**  
MLW



**R900-000000-03**  
Wolf / Henke Sass /  
Dyonics / Medicon /  
Comeg



**R900-000000-31**  
Volpi / Schöilly / RFO



**R900-000000-05**  
ACM / British / Codman



**R900-000000-07**  
Olympus

Endoscope-side



**R900-000000-09**  
Pentax

**OUT**



**R900-000000-11**  
Fuji



**R900-000000-02**  
Storz / Winter+IBE /  
Aesculap



**R900-000000-13**  
Heine-Optotechnik



**R900-000000-04**  
Wolf



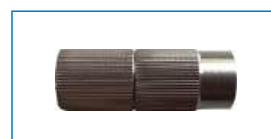
**R900-000000-15**  
Winter+IBE



**R900-000000-06**  
ACM / British / Codman



**R900-000000-16**  
Stryker



**R900-000000-08**  
Olympus

**SET/9500004: Standard Laparoscopic Instruments Set**

1x	R010-100309-000	Laparoscope 10 mm Ø, 0°, autoclavable intergrated fiber optic for illumination 316 mm working length
2x	R025-110101-001	Multi function trocarsleeve 11 mm Ø, Insufflation stop cock, interchangeable metal tube smooth 101 mm working length
2x	R020-110101-024	Safetytrocar 11 mm Ø oblique end f. trocar sleeve w. 101 mm working length
3x	R020-055095-024	Safetytrocar 5,5 mm Ø oblique end f. trocar sleeve w. 95 mm working length
3x	<b>R025-055095-001</b>	<b>Multi function trocarsleeve 5,5 mm Ø, Insufflation stop cock, interchangeable metal tube smooth 95 mm working length</b>
1x	R026-110055-002	Reducing adapter w. silicon drape 11 > 5,5 mm
1x	R027-050110-000	Dilation set 5 < 11 mm guide probe and dilation sleeve
1x	R033-050330-236	Reddick-Olsen Grasping forceps 5 mm Ø, 330 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R034-050330-250	Davis & Geak forceps w. reservoir, 5 mm Ø, 330 mm working length, ergo handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R033-050330-212	MARYLAND dissector curved 5 mm Ø, atraum. 330 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R044-050330-116	Hook scissors straight, 5 mm Ø, 330 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R044-050330-112	Metzenbaum scissors left curved, 5 mm Ø, 330 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R044-050330-120	Micro scissors curved, 5 mm Ø, 330 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R064-050000-006	Suction-irrigation handle ergonomic 2-way stop-cock, HF-connector 4 mm male LL-connector for adaptable elektrodes
1x	R064-050330-003	L-hook-electrode-shaft assembly, monopolar 5 mm Ø, 330 mm working length, adaptable on valvehandles of serie R064-
1x	R060-050330-001	Button electrode monopolar 5 mm Ø, 340 mm working length handle small HF-connector male
1x	R060-080040-003	Monopolar HF-connecting cable, 3 mtr. lg. 8 mm PIN for US HF-units 4 mm socket instrument side
1x	R066-050340-601	Bipolar grasper Hirsch 5 mm Ø, 340 mm working length, jaws fenestrated wave wire, ring plastic handle, modular instrument system rotatable, dismantable
1x	R067-050340-003	Hook electrode L-shaped, 5 mm Ø, bipolar, 340 mm working length small handle, HF-connector european
1x	R065-040000-003	Bipolar connecting cable 3 m lg. 2 banana plugs f. US generators, euro flat plug round f. bipolar instruments with protection
1x	R081-050330-001	Cholangiography fixation clamp 5 mm Ø, channel for 6 Fr. catheters, 330 mm working length, handle with ratchet
1x	R058-050330-361	Needleholder/-positioner str.serrated, 5 mm Ø, 330 mm lg., axial ratchet handle o. HF dismantable, rotatable, mod. lap. inst.
1x	R058-050330-352	Needle holder left curved, w. TC, 5 mm Ø, 330 mm lg., axial ratchet handle o. HF dismantable, rotatable, mod. lap. inst.
1x	R050-050330-01	Knot tier with eye 5 mm Ø, 330 mm working length
1x	R056-100330-03	Clip Applier for Ethicon Titan Clips LT300 medium/large, "Paraclose-system", 10 mm Ø, 330 mm working length 360° rotatable, dismantable ( 3-parts )
1x	R078-000000-199	Irrigation-suction set 5 / 10 mm Ø, 330 mm long handle w. 2 large trumpet valves tubes 5 + 10 mm Ø, 4 x 4 holes
1x	R090-050330-001	Palpation Probe graduated 5 mm Ø, 330 mm working length
1x	R092-100380-005	Endo -Retractor 10 mm Ø with 5 fingers spreadable and angleable, 340 mm working length, LL-adapter for cleaning
1x	R099-000250-003	Speculum retractor, 3 blades 60 mm working length, f. gall bladder extraction suitable for 11 mm trocar sleeve
1x	R050-028170-001	Suture instrument for subcutaneous facial closure, 2,8 mm Ø, 17 cm

**SET/9502000: Set for gynaecology**

1x	R075-020120-001	Insufflations-needle acc. to Veress 2,00 x 120 mm
1x	R010-100309-030	Laparoscope 10 mm Ø, 30°, autoclavable intergrated fiber optic for illumination 316 mm working length
2x	R025-110101-001	Multi function trocarsleeve 11 mm Ø, Insufflation stop cock, interchangeable metal tube smooth 101 mm working length
2x	R020-110101-001	Trocar pyramidal tip 11 mm Ø, f. trocar sleeve w. 101 mm working length
2x	R025-055095-001	Multi function trocarsleeve 5,5 mm Ø, Insufflation stop cock, interchangeable metal tube smooth 95 mm working length
2x	R020-055095-011	Safetytrocar pyramidal tip, 5,5 mm Ø, autom. cutting protection w. obturator, f. trocar sleeve w. 95 mm working length
1x	R075-050330-014	Puncture- and injection needle 5 mm Ø, 330 mm working length, LL-adapter proximal distal needle 1,4 mm ( 17G) Ø 330 mm
2x	R026-110055-001	Reducing adapter 11 > 5,5 mm
1x	R033-050360-240	Mahnes-Grasping forceps, w. mouse teeth 360 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R033-050360-242	Claw grasper 3 x 2 teeth, 5 mm Ø, 360 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R033-050360-243	Claw grasper long 3 x 2 teeth, 5 mm Ø, 360 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R033-050360-216	Dissecting frcps fenestrated, slim 5 mm Ø, 360 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R033-050360-212	MARYLAND disector curved 5 mm Ø, atraum. 360 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R033-050360-225	DOLPHIN grasper, bottle nose, 5 mm Ø, 360 mm lg., ergo uni ratchet handle w. HF rotatable, dismantable, mod. lap. inst.
1x	R044-050360-114	Peritoneal scsr serrated straight, 5 mm Ø, 360 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R044-050360-112	Metzenbaum scissors left curved, 5 mm Ø, 360 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R044-050360-410	Biopsy punch without thorn, 5 mm Ø, 360 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R044-100360-710	MAYO Large OP- Scissors, 10 mm Ø, 360 mm lg., ergo handle w. HF dismantable, rotatable, mod. lap. Inst.
1x	R067-000000-700	Ringhandle for bipolar laparoscopic instruments, handle alone w/o accessories POWERGRIP
1x	R067-050340-700	Shaft tube 5 mm Ø, 340 mm working length f. Powergrip bipolar forceps
1x	R067-000340-713	Bipolare forceps fenestrated 5 mm Ø, 340 mm working length insert alone POWERGRIP
1x	R065-040125-005	Bipolar connecting cable 5 mtr. long for Erbe / Storz HF-generators european plug for instruments
1x	R061-050340-003	Hook electrode L-shaped, 5 mm Ø, monopolar, 340 mm working length HF-connector male
1x	R061-050340-004	Spatula electrode monopolar 5 mm Ø, 340 mm working length HF-connector male
1x	R079-050340-204	Suction-irrigation set 5 mm Ø, 340 mm lg. pistol handle w. 2-way valve, olives shaft w. 4 holes
1x	R079-100340-204	Suction-irrigation set 10 mm Ø, 340 mm lg. pistol handle w. 2-way valve, olives shaft w. 4 holes
1x	R090-050330-001	Palpation Probe graduated 5 mm Ø, 330 mm working length
1x	R099-000250-003	Speculum retractor, 3 blades 60 mm working length, f. gall bladder extraction suitable for 11 mm trocar sleeve
1x	R058-050360-360	Needleholder/-positioner straight, 5 mm Ø, 330 mm lg., axial ratchet handle o. HF dismantable, rotatable, mod. lap. inst.
1x	R050-028170-001	Suture instrument for subcutaneous facial closure, 2,8 mm Ø, 17 cm
1x	R050-050330-01	Knot tier with eye 5 mm Ø, 330 mm working length
1x	R050-050340-00	Fascia Closure Device 2,3 mm Ø, 140 mm working length

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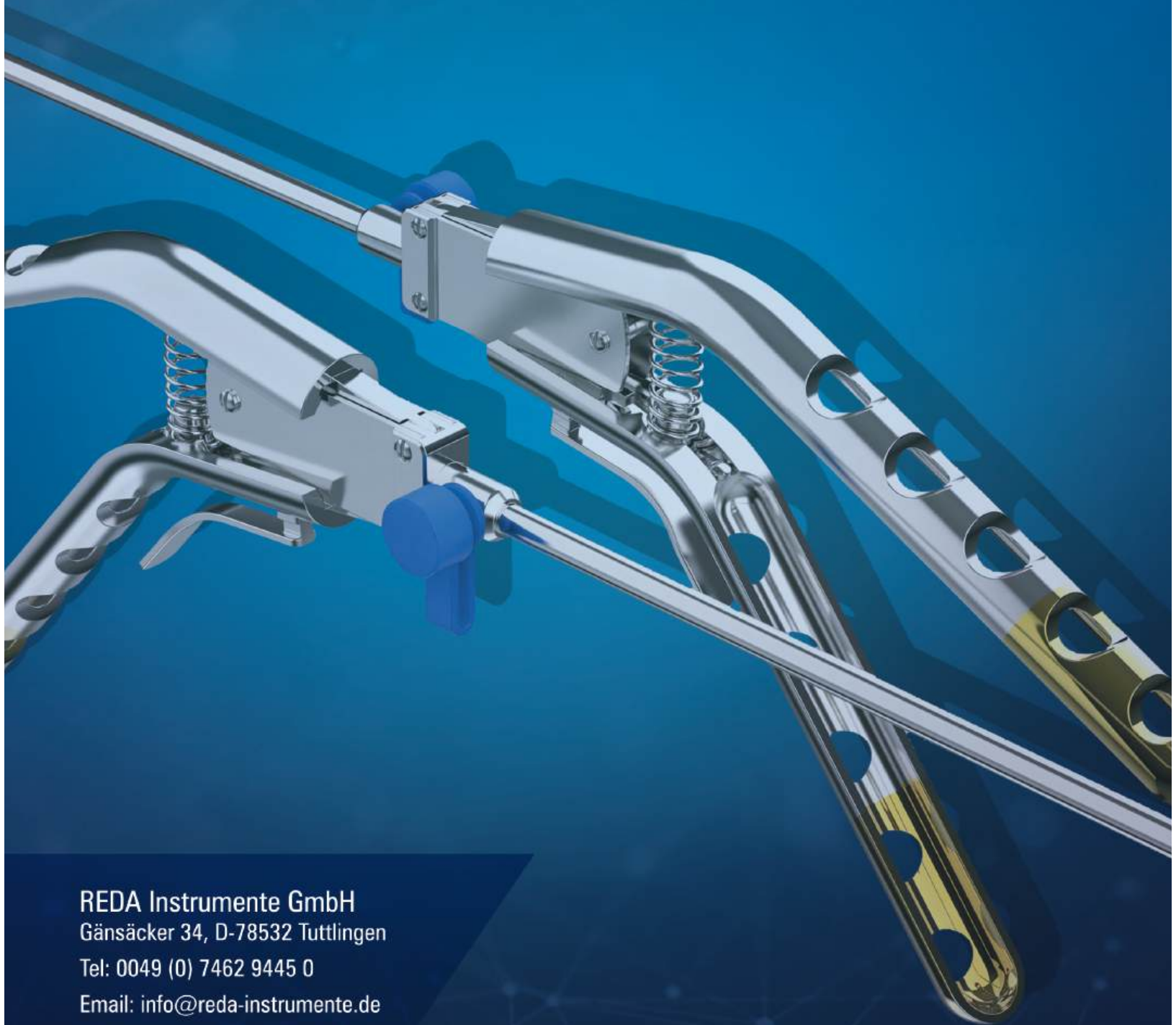
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