THE HiQ+ SERIES

NEW: HiQ+ Bipolar
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FOLLOWS YOUR NEEDS

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BIPOLAR SAFETY WITH “MON

HiQ+ bipolar is designed for reliable coagulation even in challenging situations. Coagulation of small vessels or stopping of sudden bleedings where joints may become covered with blood can be performed smoothly and reliably thanks to the unique joint insulation.

BIPOLAR SAFETY

Bipolar instruments are known to be safer than monopolar devices as the electrical current flows directly between the instrument jaws, thus eliminating the need for a patient plate.

- Better control through focussed current flow within the surgeon’s direct field of view.
- Reduces the risk of unpredictable current flow through the patient’s body.
- Eliminates risk of injuries through malpositioning of the patient plate.

RELIABLE COAGULATION

HiQ+ bipolar is designed for reliable coagulation even in challenging situations. Coagulation of small vessels or stopping of sudden bleedings where joints may become covered with blood can be performed smoothly and reliably thanks to the unique joint insulation.
HiQ+ BIPOLAR

The Olympus HiQ+ bipolar series combines the safety benefits of bipolar technology with the precision and tactility of monopolar hand instruments. HiQ+ bipolar hand instruments are designed for safe and reliable coagulation with the ability of strong grasping and dissecting. The HiQ+ bipolar series – a new standard for:

• Gynecology
• General Surgery
• Urology

STRONG GRASPING AND DISSECTION

Just as their monopolar counterparts, HiQ+ bipolar instruments are designed for high performance during grasping and dissecting – but with bipolar safety. HiQ+ bipolar replaces monopolar instruments even in procedures where strong grasping is required.

EASY REPROCESSING

The modular three part design and the “easy click” mechanism of HiQ+ bipolar instruments allows easy assembly and disassembly. HiQ+ bipolar instruments are autoclavable to meet high demands regarding sterilisation and disinfection.
Optimized force transmission for both, grasping and dissecting.

**Grasping:** The CAM joint mechanism enables maximum force transmission during closure of the jaws, ensuring strong and precise control with minimal effort.

**Dissecting:** The SL joint mechanism enables maximum force transmission during opening of the jaws, ensuring strong and precise tissue separation with minimal effort.

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**STRENGTH AND PRECISION**

Surgeons demand strong and precise jaws performance in all applications. Olympus engineers developed two dedicated joint mechanisms to give the surgeon perfect tissue control: The CAM mechanism for grasping and the SL mechanism for dissecting.

**RELIABILITY AND SAFETY**

The extended insulation allows for safe and reliable performance during HF application. Both joint designs – CAM and SL – operate without protruding parts, which are a potential source of HF leakage in conventional cross-joints.

**THE “EASY CLICK” MECHANISM**

Assembly and disassembly is easy allowing quicker preparation of the instrument for surgical use and reprocessing. The HiQ+ “easy-click” mechanism minimizes the time and effort of assembly and disassembly.
HiQ+ MONOPOLAR AND STANDARD
Tailored to be an ideal extension of the surgeon’s hands.

- Strong but precise jaws control – for grasping, cutting and dissecting
- Streamlined handle for a perfect fit
- Multiple hand positions for continuously changing surgical needs

OPTIMIZED ERGONOMICS

Surgeons depend on laparoscopic instrumentation day in and day out. Early fatigue and nerve damage have been reported from the use of conventional laparoscopic hand instruments. Olympus designed HiQ+ handles for superior ergonomics and comfort. The smooth curved handle shape provides extra comfort while enabling multiple hand positions, tailored to a variety of laparoscopic procedures and anatomies.
SUCTION AND IRRIGATION

CLOG-FREE OPERATION
The HiQ+ suction/irrigation system is optimized for streamlined flow throughout all components, from inflow to outflow, thus enabling enhanced passage of immersed blood clots or stones. The modular system with a range of suction/irrigation tubes offers tailored solutions for a variety of laparoscopic procedures and anatomies. The HiQ suction/irrigation system combines excellent performance with surgeon-specific ergonomics and superior quality.

CUSTOMIZABLE SYSTEM
Olympus offers a wide range of suction/irrigation tubes for its HiQ+ system:
- Diameters of 3, 5 and 10 mm
- Working lengths of 360 and 450 mm
- Multiple tip designs, e.g. for harvesting lost gall bladder stones or aspirating hydrops

OPTIMIZED ERGONOMICS
Choice of two ergonomically designed handles for differing irrigation needs:
- Active handle with finger tip lever controlled suction/irrigation
- Passive handle with foot switch control in combination with pumps

EASY REPROCESSING
The HiQ+ suction/irrigation system is designed for easy assembly, disassembly and cleaning. All components are easily detachable and autoclavable.
NEEDLE HOLDERS

STRONG AND DURABLE

The HiQ+ needle holders and knot pushers are a series of instruments designed to meet the highest expectations of functionality, ergonomics, and reprocessing.

The HiQ+ needle holders are engineered for:
- High grasping strength
- High accuracy to ensure precise and reliable control of the needle
- High durability with hard-metal inlays in the jaws

EXCHANGABLE JAWS INSERTS

The HiQ+ needle holder is available with three interchangeable jaws:
- Straight needle holder
- Curved needle holder
- Self-aligning needle holder

The modular design permits easy assembly, disassembly and cleaning. All parts are autoclavable.

OPTIMIZED ERGONOMICS

The HiQ+ needle holder handle meets the highest ergonomic demands. Olympus engineers work closely together with experts in ergonomics to design the handle as “a part of the surgeon’s hand”.

Baden-Württemberg International Design Award 2004
Design Award Winner 2006
reddot design award winner 2005
# 5 MM BIPOLAR FORCEPS

## Johann Forceps

Grasping forceps, fenestrated, length of jaws: 16.5 mm, bipolar, multipurpose forceps for strong grasping and atraumatic dissection for all laparoscopic procedures

- With Ergo handle
  - WA63120C 330 mm working length
  - WA63121C 430 mm working length

- Jaws, insert, spare
  - WA64120C Jaws insert, 330 mm working length
  - WA64121C Jaws insert, 430 mm working length

## Straight Forceps

Dissection forceps, straight, length of jaws: 12.7 mm, bipolar, multipurpose straight dissection forceps for all laparoscopic procedures

- With Ergo handle
  - WA63310C 330 mm working length
  - WA63311C 430 mm working length

- Jaws, insert, spare
  - WA64310C Jaws insert, 330 mm working length
  - WA64311C Jaws insert, 430 mm working length

## Hirsch Forceps

Grasping forceps, Hirsch, length of jaws: 19.7 mm, bipolar, for tubal sterilization and endometriosis treatment

- With Ergo handle
  - WA63200C 330 mm working length
  - WA63201C 430 mm working length

- Jaws, insert, spare
  - WA64200C Jaws insert, 330 mm working length
  - WA64201C Jaws insert, 430 mm working length

## Maryland

Dissection forceps, Maryland, length of jaws: 14.7 mm, bipolar, multipurpose curved dissection forceps for all laparoscopic procedures

- With Ergo handle
  - WA63320C 330 mm working length
  - WA63321C 430 mm working length

- Jaws, insert, spare
  - WA64320C Jaws insert, 330 mm working length
  - WA64321C Jaws insert, 430 mm working length

## Tweezers

Dissection forceps, tweezers, length of jaws: 17.2 mm, bipolar, for very delicate dissection and coagulation

- With Ergo handle
  - WA63210C 330 mm working length
  - WA63211C 430 mm working length

- Jaws, insert, spare
  - WA64210C Jaws insert, 330 mm working length
  - WA64211C Jaws insert, 430 mm working length

## Manhes Forceps

Grasping forceps, Manhes, length of jaws: 14 mm, bipolar, grasping forceps for myomectomy and cystectomy

- With Ergo handle
  - WA63050C 330 mm working length
  - WA63051C 430 mm working length

- Jaws, insert, spare
  - WA64050C Jaws insert, 330 mm working length
  - WA64051C Jaws insert, 430 mm working length

## System Chart

```
WA66050C  WA66051C  WA66310C  WA664310C  WA664311C  WA664320C  WA664321C  WA664210C  WA664211C  WA664200C  WA664201C  WA664120C  WA664121C
```

![System Chart](image-url)
5 MM GRASPING FORCEPS

**HiQ+ Bipolar Components**

- **WA60101C** Handle "Ergo", bipolar
- **A60800C** Shaft, insulated, bipolar, 5 x 330 mm
- **A60801C** Shaft, insulated, bipolar, 5 x 430 mm
- **A63440A** Sealing cap, 10 pcs., for handle A60101C
- **A63441A** Spare release button, 10 pcs., for HiQ+ shafts
- **A60003C** HF cable, bipolar, 3.5 m length, for UES-20/-30/-40, and Valleylab HF units
- **A60001C** for Erbe ICC International HF units
- **A60002C** for Martin and Berchtold HF units
- **A60000C** for HF-300 and Erbe Standard HF units

**Atraumatic Grasping Forceps**

- **Grasping forceps, atraumatic, length of jaws: 16 mm, with ratchet, multi-purpose grasping forceps for all laparoscopic applications**
  - with Ergo handle
    - A63010S 250 mm working length
    - A63010A 330 mm working length
    - A63010L 430 mm working length
  - with Ergo S handle
    - A63013S 250 mm working length
    - A63013A 330 mm working length
    - A63013L 430 mm working length
  - with Semi inline S handle
    - A63015A 330 mm working length
  - Jaws insert, spare,
    - A64010S 250 mm working length
    - A64010A 330 mm working length
    - A64010L 430 mm working length

**Flat Grasping Forceps**

- **Grasping forceps, atraumatic, flat, length of jaws: 19 mm, with ratchet, multi-purpose fenestrated grasping forceps for all laparoscopic applications**
  - with Ergo handle
    - A63030A 330 mm working length
  - with Ergo S handle
    - A63033A 330 mm working length
  - with Semi inline S handle
    - A63035A 330 mm working length
  - Jaws insert, spare,
    - A64030A 330 mm working length

**Claw Forceps**

- **Grasping forceps, claw type, length of jaws: 28 mm, with ratchet, for recovery e.g. gall bladder, myoma, etc.**
  - with Ergo handle
    - A63020A 330 mm working length
  - with Ergo S handle
    - A63023A 330 mm working length
  - with Semi inline S handle
    - A63025A 330 mm working length
  - Jaws insert, spare,
    - A64020A 330 mm working length

**Grasping Forceps With Lumen**

- **Grasping forceps, with lumen, length of jaws: 21 mm, with ratchet, atraumatic grasping forceps for delicate tissue manipulation (e.g. bowel, tubes)**
  - with Ergo handle
    - A63040A 330 mm working length
  - with Ergo S handle
    - A63043A 330 mm working length
  - with Semi inline S handle
    - A63045A 330 mm working length
  - Jaws insert, spare,
    - A64040A 330 mm working length
## 5 MM GRASPING FORCEPS

### Manhes Forceps
Grasping forceps, Manhes, length of jaws: 18 mm, with ratchet, precise fixation and manipulation of fragile tissue

<table>
<thead>
<tr>
<th>Model</th>
<th>Handle</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63050A</td>
<td>with Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63053A</td>
<td>with Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63055A</td>
<td>with Semi inline S</td>
<td>330 mm</td>
</tr>
<tr>
<td></td>
<td>Jaws insert, spare</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

### Wave Type Grasping Forceps
Grasping forceps, wave type, atraumatic, length of jaws: 30 mm, with ratchet, dedicated grasping forceps for bowel and fragile tissue

<table>
<thead>
<tr>
<th>Model</th>
<th>Handle</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63080A</td>
<td>with Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63083A</td>
<td>with Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63085A</td>
<td>with Semi inline S</td>
<td>330 mm</td>
</tr>
<tr>
<td></td>
<td>Jaws insert, spare</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

### Johann Forceps
Grasping forceps, Johann, fenestrated, length of jaws: 24 mm, with ratchet, multi-purpose grasping forceps with large jaws and good visibility

<table>
<thead>
<tr>
<th>Model</th>
<th>Handle</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63120S</td>
<td>with Ergo</td>
<td>250 mm</td>
</tr>
<tr>
<td>A63120A</td>
<td>with Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>WA63120L</td>
<td>with Semi inline S</td>
<td>430 mm</td>
</tr>
<tr>
<td></td>
<td>Jaws insert, spare</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

### Crocodile Forceps
Grasping forceps, crocodile type, length of jaws: 18 mm, with ratchet, for strong and tight fixation of tissue (e.g. stomach, gall bladder)

<table>
<thead>
<tr>
<th>Model</th>
<th>Handle</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63070A</td>
<td>with Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63073A</td>
<td>with Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63075A</td>
<td>with Semi inline S</td>
<td>330 mm</td>
</tr>
<tr>
<td></td>
<td>Jaws insert, spare</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

### Babcock Forceps
Grasping forceps, Babcock, length of jaws: 31 mm, with ratchet, widest inner lumen of all 5 mm HiQ+ hand instruments, "paddle" design for maximum grasping performance without damage of tissue (e.g. colon)

<table>
<thead>
<tr>
<th>Model</th>
<th>Handle</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA63140A</td>
<td>with Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>WA63143A</td>
<td>with Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>WA63145A</td>
<td>with Semi inline S</td>
<td>330 mm</td>
</tr>
<tr>
<td></td>
<td>Jaws insert, spare</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

### Long Johann Forceps
Grasping forceps, Johann, long, length of jaws: 40 mm, with ratchet, longest jaws in the 5 mm line of HiQ+ hand instruments for atraumatic grasping of larger organs (e.g. colon)

<table>
<thead>
<tr>
<th>Model</th>
<th>Handle</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA63130A</td>
<td>with Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>WA63133A</td>
<td>with Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>WA63135A</td>
<td>with Semi inline S</td>
<td>330 mm</td>
</tr>
<tr>
<td></td>
<td>Jaws insert, spare</td>
<td>330 mm</td>
</tr>
</tbody>
</table>
# 5 MM MULTIFUNCTIONAL GRASPING FORCEPS

## Atraumatic Grasping Forceps

Grasping forceps, atraumatic, length of jaws: 16 mm, with ratchet, for tubes and ovaries

<table>
<thead>
<tr>
<th>Code</th>
<th>Handle Style</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63100A</td>
<td>Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63103A</td>
<td>Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63105A</td>
<td>Semi inline S</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

Jaws insert, spare, A64400A 330 mm working length

## Traumatic Grasping Forceps

Grasping forceps, traumatic, length of jaws: 19 mm, with ratchet, for large cysts and myoma

<table>
<thead>
<tr>
<th>Code</th>
<th>Handle Style</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63110A</td>
<td>Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63113A</td>
<td>Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63115A</td>
<td>Semi inline S</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

Jaws insert, spare, A64410A 330 mm working length

## Atraumatic Grasping Forceps

Grasping forceps, atraumatic, length of jaws: 21 mm, with ratchet, for small cysts and delicate structures

<table>
<thead>
<tr>
<th>Code</th>
<th>Handle Style</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63090A</td>
<td>Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63093A</td>
<td>Ergo S</td>
<td>330 mm</td>
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<tr>
<td>A63095A</td>
<td>Semi inline S</td>
<td>330 mm</td>
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</tbody>
</table>

Jaws insert, spare, A64090A 330 mm working length

## Traumatic Grasping Forceps

Grasping forceps, traumatic, length of jaws: 21 mm, with ratchet, for small cysts

<table>
<thead>
<tr>
<th>Code</th>
<th>Handle Style</th>
<th>Working Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63060A</td>
<td>Ergo</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63063A</td>
<td>Ergo S</td>
<td>330 mm</td>
</tr>
<tr>
<td>A63065A</td>
<td>Semi inline S</td>
<td>330 mm</td>
</tr>
</tbody>
</table>

Jaws insert, spare, A64060A 330 mm working length
### Dissection Forceps

Dissection forceps, straight, length of jaws: 15 mm, monopolar, for delicate dissection and needle holder assistance

- with Ergo handle
  - A63310S 250 mm working length
  - A63310A 330 mm working length

- with Ergo S handle
  - A63313S 250 mm working length
  - A63313A 330 mm working length

- with Semi inline S handle
  - A63315S 330 mm working length

Jaws insert, spare,
- A64310S 250 mm working length
- A64310A 330 mm working length

### Maryland Forceps

Dissection forceps, Maryland, length of jaws: 21 mm, monopolar, multipurpose curved dissection forceps for all laparoscopic applications

- with Ergo handle
  - A63320S 250 mm working length
  - A63320A 330 mm working length

- with Ergo S handle
  - A63323S 250 mm working length
  - A63323A 330 mm working length

- with Semi inline S handle
  - A63325A 330 mm working length

Jaws insert, spare,
- A64320S 250 mm working length
- A64320A 330 mm working length

### Biopsy Forceps

Biopsy forceps, with spike, length of jaws: 14 mm, monopolar

- with Ergo handle
  - A63610S 250 mm working length
  - A63610A 330 mm working length

- with Ergo S handle
  - A63613S 250 mm working length
  - A63613A 330 mm working length

- with Semi inline S handle
  - A63615A 330 mm working length

Jaws insert, spare,
- A64610S 250 mm working length
- A64610A 330 mm working length

### Short Maryland Forceps

Dissection forceps, Maryland, short, length of jaws: 17 mm, monopolar, for precise dissection and needle holder assistance

- with Ergo handle
  - A63340A 330 mm working length

- with Ergo S handle
  - A63343A 330 mm working length

- with Semi inline S handle
  - A63345A 330 mm working length

Jaws insert, spare,
- A64340A 330 mm working length

### Right Angle Dissection Forceps

Dissection forceps, 90° angled, length of jaws: 18 mm, monopolar, for blood vessel dissection

- with Ergo handle
  - WA63330A 330 mm working length

- with Ergo S handle
  - WA63333A 330 mm working length

- with Semi inline S handle
  - WA63335A 330 mm working length

Jaws insert, spare,
- WA64330A 330 mm working length

### Biopsy Forceps

Biopsy forceps, severing, length of jaws: 12 mm, monopolar

- with Ergo handle
  - A63620A 330 mm working length

- with Ergo S handle
  - A63623A 330 mm working length

- with Semi inline S handle
  - A63625A 330 mm working length

Jaws insert, spare,
- A64620A 330 mm working length
5 MM MONOPOLAR SCISSORS

### Metzenbaum Scissors

<table>
<thead>
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<th>Length</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>A63810S</td>
<td>250 mm</td>
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<tr>
<td>A63810A</td>
<td>330 mm</td>
<td>with Ergo S handle</td>
</tr>
<tr>
<td>A63810L</td>
<td>430 mm</td>
<td>with Semi inline S handle</td>
</tr>
<tr>
<td>A63813S</td>
<td>250 mm</td>
<td>Jaws insert, spare</td>
</tr>
<tr>
<td>A63813A</td>
<td>330 mm</td>
<td></td>
</tr>
<tr>
<td>A63813L</td>
<td>430 mm</td>
<td></td>
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</tbody>
</table>

### Hook Scissors

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<th>Length</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
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<td>with Ergo handle</td>
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<tr>
<td>A63820A</td>
<td>330 mm</td>
<td>with Ergo S handle</td>
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<tr>
<td>A63820L</td>
<td>430 mm</td>
<td>with Semi inline S handle</td>
</tr>
<tr>
<td>A63825A</td>
<td>330 mm</td>
<td>Jaws insert, spare</td>
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</tbody>
</table>

### Mini-Metzenbaum Scissors

<table>
<thead>
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<th>Length</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>A63840A</td>
<td>330 mm</td>
<td>with Ergo handle</td>
</tr>
<tr>
<td>A63843A</td>
<td>330 mm</td>
<td>with Ergo S handle</td>
</tr>
<tr>
<td>A63845A</td>
<td>330 mm</td>
<td>with Semi inline S handle</td>
</tr>
<tr>
<td>A64840A</td>
<td>330 mm</td>
<td>Jaws insert, spare</td>
</tr>
</tbody>
</table>

### Straight Scissors

<table>
<thead>
<tr>
<th>Model</th>
<th>Length</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A63830A</td>
<td>330 mm</td>
<td>with Ergo handle</td>
</tr>
<tr>
<td>A63833A</td>
<td>330 mm</td>
<td>with Ergo S handle</td>
</tr>
<tr>
<td>A63835A</td>
<td>330 mm</td>
<td>with Semi inline S handle</td>
</tr>
<tr>
<td>A64830A</td>
<td>330 mm</td>
<td>Jaws insert, spare</td>
</tr>
</tbody>
</table>
# 10 MM HAND INSTRUMENTS

## Claw Forceps
Grasping forceps, claw type, length of jaws: 45 mm, with ratchet, for recovery of e.g. gall bladder, myoma, etc.

- with Ergo handle
  - A65020A 330 mm working length
- with Ergo S handle
  - A65023A 330 mm working length
- with Semi inline S handle
  - A65025A 330 mm working length
- Jaws insert, spare
  - A66020A 330 mm working length

## Maryland Forceps
Dissection forceps, Maryland, length of jaws: 30 mm, multipurpose curved dissection forceps for all laparoscopic applications

- with Ergo handle
  - A65310A 330 mm working length
- with Ergo S handle
  - A65313A 330 mm working length
- with Semi inline S handle
  - A65315A 330 mm working length
- Jaws insert, spare
  - A66310A 330 mm working length

## Babcock Forceps
Grasping forceps, Babcock, length of jaws: 47 mm, with ratchet, for manipulation of large fragile tissue (e.g. bowel, stomach, etc.)

- with Ergo handle
  - A65050A 330 mm working length
- with Ergo S handle
  - A65053A 330 mm working length
- with Semi inline S handle
  - A65055A 330 mm working length
- Jaws insert, spare
  - A66050A 330 mm working length

## Babcock Forceps (Atraumatic)
Grasping forceps, Babcock (atraumatic), length of jaws: 53 mm, with ratchet

- with Ergo handle
  - WA65040A 330 mm working length
- with Ergo S handle
  - WA65043A 330 mm working length
- with Semi inline S handle
  - WA65045A 330 mm working length
- Jaws insert, spare
  - WA66040A 330 mm working length

## Short Maryland Forceps
Dissection forceps, Maryland, short, length of jaws: 24 mm, for precise dissection and needle holder assistance

- with Ergo handle
  - A65320A 330 mm working length
- with Ergo S handle
  - A65323A 330 mm working length
- with Semi inline S handle
  - A65325A 330 mm working length
- Jaws insert, spare
  - A66320A 330 mm working length

## CBD Grasping Forceps
Grasping forceps, common bile duct (CBD), length of jaws: 16 mm, with ratchet, soft-layered grasping forceps dedicated for manipulation of fragile tissue and flexible telescopes

- with Ergo handle
  - A65070A 330 mm working length
- with Ergo S handle
  - A65073A 330 mm working length
- with Semi inline S handle
  - A65075A 330 mm working length
- Jaws insert, spare
  - A66070A 330 mm working length

## Maryland Forceps
Dissection forceps, Maryland, length of jaws: 30 mm, multipurpose curved dissection forceps for all laparoscopic applications

- with Ergo handle
  - A65310A 330 mm working length
- with Ergo S handle
  - A65313A 330 mm working length
- with Semi inline S handle
  - A65315A 330 mm working length
- Jaws insert, spare
  - A66310A 330 mm working length

## Claw Forceps
Grasping forceps, claw type, length of jaws: 45 mm, with ratchet, for recovery of e.g. gall bladder, myoma, etc.

- with Ergo handle
  - A65020A 330 mm working length
- with Ergo S handle
  - A65023A 330 mm working length
- with Semi inline S handle
  - A65025A 330 mm working length
- Jaws insert, spare
  - A66020A 330 mm working length
Atraumatic Grasping Forceps

Grasping forceps, wave type, atraumatic, length of jaws: 42 mm, with ratchet, dedicated grasping forceps for bowel and fragile tissue.

- with Ergo handle
  A65060A  330 mm working length

- with Ergo S handle
  A65063A  330 mm working length

- with Semi inline S handle
  A65065A  330 mm working length

Jaws insert, spare.
A66060A  330 mm working length
## MONOPOLAR AND STANDARD SPARE PARTS

### HiQ+ Handles
- **A60100A** Handle "Ergo", with ratchet
- **A60101A** Handle "Ergo", monopolar
- **A60102A** Handle "Ergo", monopolar, with ratchet
- **A60200A** Handle "Ergo S", with ratchet
- **A60201A** Handle "Ergo S", monopolar
- **A60210A** Handle "Semi inline S", with ratchet
- **A60211A** Handle "Semi inline S", monopolar

### 5 mm HiQ+ Shafts
- **A60800S** Shaft, insulated, 5 x 250 mm
- **A60800A** Shaft, insulated, 5 x 330 mm
- **A60800L** Shaft, insulated, 5 x 430 mm

### 10 mm HiQ+ Shafts
- **A60900A** Shaft, insulated, straight, 10 x 330 mm
- **A60901A** Shaft, insulated, tapered, 10 x 330 mm

### System Chart

### Spare Parts
- **A0389** Finger ring, silicone, for HiQ+ S handles
- **A03440A** Sealing cap, 2.2 mm, 10 pcs., for HiQ+ handles
- **A03441A** Spare release button, 10 pcs., for HiQ+ shafts
- **A03442A** Sealing ring, 20 pcs., for HiQ+ shafts
- **A0358** HF-cable, monopolar, 3.5 m length, for UES-40/-30, Erbe ICC International and Valleylab (new)
- **A0355** for UES-10/-20 and Valleylab (old)
- **A0357** for Martin and Berchtold

For other HF-cables, see catalog.
## Monopolar HF-Electrodes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>A6280</td>
<td>HF-electrode, button, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6281</td>
<td>HF-electrode, needle, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6282</td>
<td>HF-electrode, hook, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6292</td>
<td>HF-electrode, hook, with suction channel, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6283</td>
<td>HF-electrode, long hook, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6289</td>
<td>HF-electrode, long hook, with suction channel, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6284</td>
<td>HF-electrode, spoon, 5 x 330 mm</td>
<td></td>
</tr>
<tr>
<td>A6294</td>
<td>HF-electrode, spoon, with suction channel, 5 x 330 mm</td>
<td></td>
</tr>
</tbody>
</table>

## Accessories for Monopolar HF-Electrodes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A0308</td>
<td>Tubing, set, 6 x 10 mm, 3 m (transparent), 6 x 10 mm, 3 m (blue)</td>
</tr>
<tr>
<td>O0103</td>
<td>Adapter, Luer lock male, tube connector</td>
</tr>
<tr>
<td>A0358</td>
<td>HF-cable, monopolar, 3.5 m length, for UES-40/-30, Erbe IGC International and Valleylab (new)</td>
</tr>
<tr>
<td>A0355</td>
<td>for UES-10/-20 and Valleylab (old)</td>
</tr>
<tr>
<td>A0357</td>
<td>for Martin and Berchtold</td>
</tr>
</tbody>
</table>

For other HF-cables, see catalog.
### SUCTION AND IRRIGATION

#### Standard Suction/Irrigation System

- Suction/irrigation tube, distal holes,
  - WA51111A 3.3 x 360 mm
  - WA51131A 5.3 x 360 mm
  - WA51131L 5.3 x 450 mm

- WA51132A Suction/irrigation tube, aspiration cannula, 1.5 x 360 mm

- WA51138A Suction/irrigation tube, button, monopolar, 5.3 x 360 mm

- WA51172S Handle, set, with suction control lever, 5 mm suction channel, includes WA51172A and WA51181S To be used with pressure controlled roller pumps.

- WA51173S Handle, set, without suction control lever, 5 mm suction channel includes WA51173A and WA51181S To be used with foot switch

- Handle, spare,
  - WA51172A with suction control lever
  - WA51173A without suction control lever

- WA51181S Tubing, spare, for HIQ+ handles, 5 mm suction channel

#### Large Diameter Suction/Irrigation System

- Suction/irrigation tube, distal holes,
  - WA51151A 10 x 360 mm
  - WA51151L 10 x 450 mm

- WA51152A Suction/irrigation tube, safety basket, 10 x 360 mm

- WA51153A Suction/irrigation tube, stone collector, 10 x 360 mm

- WA51172L Handle, set, with suction control lever, 8 mm suction channel, includes WA51172A and WA51181L To be used with pressure controlled roller pumps.

- WA51173L Handle, set, without suction control lever, 8 mm suction channel includes WA51173A and WA51181L To be used with foot switch

- Handle, spare,
  - WA51172A with suction control lever
  - WA51173A without suction control lever

- WA51181L Tubing, spare, for HIQ+ handles, 8 mm suction channel

#### Pump SurgiFlow

- Pump “SurgiFlow”,
  - WA58910A European set
  - WA58900A U.S. set

  Delivery includes:
  - Pump, power cable, spare fuses, tubing set WA58911A (only WA58910A9)

  **Technical Data**

  - **Power supply**
    - Voltage: 100 - 240 V
    - Frequency: 50-60 Hz
    - Power consumption: 45 W

  - **Size**
    - Height: 93 mm
    - Width: 300 mm
    - Depth: 318 mm
    - Weight: 5 kg

  - **Irrigation**
    - Flow rate: 2500 ml/min
    - Max. pressure: 550 mm Hg

  - **Safety**
    - Protection: class I, type BF IPX 1

#### Tubing

- Tubing, set, for two water bags,
  - WA58901A for single use, sterile, 10 pieces
  - WA58911A reusable, 1 piece
**NEEDLE HOLDERS, KNOT PUSHERS, RETRACTORS**

### HiQ+ Needle Holder

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA63708A</td>
<td>Needle holder, 5 x 330 mm, straight, with ratchet</td>
</tr>
<tr>
<td>WA63718A</td>
<td>Needle holder, 5 x 330 mm, curved, with ratchet</td>
</tr>
<tr>
<td>WA63728A</td>
<td>Needle holder, 5 x 330 mm, self-alignment, with ratchet</td>
</tr>
</tbody>
</table>

**Spare parts**

- WA64700A Jaws insert, 330 mm, for WA63708A
- WA64710A Jaws insert, 330 mm, for WA63718A
- WA64720A Jaws insert, 330 mm, for WA63728A
- WA60120A Handle, with sheath, 330 mm, with ratchet

- A0400 Sealing cap, Luer lock blue, 6 pcs.

### Knot Pusher

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA56900A</td>
<td>Needle holder, with self-alignment, 5 x 330 mm, straight</td>
</tr>
<tr>
<td>A5690</td>
<td>Needle holder, 5 x 330 mm, straight</td>
</tr>
<tr>
<td>A5698</td>
<td>Needle holder, 5 x 330 mm, curved</td>
</tr>
<tr>
<td>WA56090L</td>
<td>Needle holder, 5 x 390 mm, straight</td>
</tr>
<tr>
<td>WA56098L</td>
<td>Needle holder, 5 x 390 mm, curved</td>
</tr>
</tbody>
</table>

- WA51190A Retractor, deflecting, 5 x 360 mm, three fingers

### Retractors

- WA51193A Retractor, deflecting, 10 x 380 mm, five fingers

### Fascial Closure Needle

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A51000A</td>
<td>Needle, for fascial closure, 250 mm</td>
</tr>
</tbody>
</table>

- WA5000A Needle holder, with self-alignment, 5 x 330 mm, straight

- WA56903A Knot pusher "HiQ+", 5 x 330 mm working length, with Ergo handle

- WA56803A Knot pusher, 5 x 330 mm

- WA56090L 5 x 390 mm, straight

- WA56098L 5 x 390 mm, curved

- A5692 Needle holder, 3 x 330 mm, straight

- O0131 Sealing cap, 0.7 mm, 10 pcs., for A5692

- A0400 Sealing cap, Luer lock blue, 6 pcs.