THE HiQ+ SERIES

HiQ+

Bipolar and Monopolar Hand Instruments, Monopolar HF Electrodes, Suction and Irrigation, Needle Holders
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BIPOLAR SAFETY WITH “MONOPOLAR” PRECISION

HiQ+ BIPOLAR
The Olympus HiQ+ bipolar series combines the safety benefits of bipolar technology with the precision and tactile of monopolar hand instruments. HiQ+ bipolar hand instruments are designed for safe and reliable coagulation with the ability of strong grasping and dissecting.
- Gynecology
- General Surgery
- Urology

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.

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.

REPROCESSING
The modular three part design and the “easy click” mechanism of HiQ+ bipolar instruments allow easy assembly and disassembly. HiQ+ bipolar instruments are autoclavable to meet high demands regarding sterilisation and disinfection.

RELATABLE COAGULATION
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.

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.
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

FORM FOLLOWS FUNCTION

FOLLOWS YOUR NEEDS

STRONG AND PRECISE
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.

RELIABLE AND SAFE
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.

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.

Force Transmission Diagram

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.
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 anatomic sites. The HiQ suction/irrigation system combines excellent performance with surgeon-specific ergonomics and superior quality.

**CLOG-FREE OPERATION**

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

**NEEDLE HOLDERS**

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

**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.

**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**

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

**EASY REPROCESSING**

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

**STRONG AND DURABLE**

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

**EXCHANGEABLE JAWS INSERTS**

The HiQ+ needle holder is available with five interchangeable jaws:
- Straight needle holder
- Left-/right-curved needle holder
- Self-aligning needle holder
- Assistant 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**
Clinching Forceps

DeBakey Grasping Forceps

CroceOlmi Grasping Forceps

Atraumatic Forceps with Lumen

Babcock Forceps

Wave Type Grasping Forceps

Johann Single-Action Forceps

Johann Forceps

Crocodile Forceps

Component

Manhes Forceps

Wave Type Grasping Forceps

Manches Forceps

Johann Forceps

Crocodile Forceps

Babcock Forceps

Long Johann Forceps

Atraumatic Forceps with Lumen

DeBakey Grasping Forceps

Clinching Forceps

CroceOlmi Grasping Forceps

Atraumatic Forceps with Lumen

DeBakey Grasping Forceps

Clinching Forceps

Atraumatic Forceps with Lumen

Johann Single-Action Forceps

Johann Forceps

Crocodile Grasping Forceps

Atrumatic Grasping Forceps

Crocodile Grasping Forceps

Atrumatic Grasping Forceps

Atrumatic Grasping Forceps

Atrumatic Forceps with Lumen

Atrumatic Forceps with Lumen
5 MM DISSECTION FORCEPS

Dissection Forceps
- For delicate dissection and needle holder assistance
- Maryland Forceps
-BIopsy Forceps

Maryland Forceps
- Multipurpose curved dissection forceps for all laparoscopic applications
- Components

Dissection Forceps
- For precise dissection and needle holder assistance

Right Angle Dissection Forceps
- For blood vessel dissection

Fine Maryland Forceps with Cross Tooth Pattern
- Larger branch length improves the overview and handling

5 MM BIOPSY FORCEPS

Biopsy Forceps
- Biopsy forceps, with spike, length of jaw: 16 mm
- Components

Biopsy Forceps
- Biopsy forceps, searing, length of jaw: 10 mm
- Components
**5 MM MONOPOLAR SCISSORS**

**Multi-purpose scissors for all laparoscopic applications**

- **Straight Scissors**
  - Scissors, Metzenbaum, length of jaw: 18 mm,
  - A60100A: 250 mm, Ergo handle, monopolar
  - A60100C: 330 mm, Ergo handle, monopolar
  - A60300A: 450 mm, Ergo handle, monopolar
  - A60300C: 550 mm, Ergo handle, monopolar
  - Components
    - WA64000S: Jaw insert, 550 mm working length
    - WA64000L: Jaw insert, 450 mm working length
    - WA64010A: Handle “Ergo”, monopolar
  - A60500A: Handle “Ergo S”, monopolar

- **Single-Use Metzenbaum Scissors**
  - Scissors, Metzenbaum, length of jaw: 17 mm,
  - A60500A: 330 mm, Ergo handle, monopolar
  - A60500C: 450 mm, Ergo handle, monopolar
  - Components
    - WA64500S: Jaw insert, 450 mm working length
    - WA64500L: Jaw insert, 330 mm working length
    - WA64500A: Shaft, 250 mm working length
    - WA64510A: Handle “Ergo”, monopolar
    - A60510A: Handle “Ergo S”, monopolar

- **Hook Scissors**
  - Scissors, length of jaw: 10 mm,
  - A60600A: 250 mm, Ergo handle, monopolar
  - A60600C: 330 mm, Ergo handle, monopolar
  - A60800A: 450 mm, Ergo handle, monopolar
  - A60800C: 550 mm, Ergo handle, monopolar
  - Components
    - WA64600S: Jaw insert, 550 mm working length
    - WA64600L: Jaw insert, 450 mm working length
    - WA64600A: Shaft, 250 mm working length
    - WA64610A: Handle “Ergo”, monopolar
    - A60610A: Handle “Ergo S”, monopolar

**5 MM MONOPOLAR SCISSORS**

**Mini-Metzenbaum Scissors**

- For precise cutting and preparation
  - Scissors, Mini-Metzenbaum, length of jaw: 8 mm,
  - A62400A: 330 mm, Ergo handle, monopolar
  - A62400C: 450 mm, Ergo handle, monopolar
  - Components
    - WA64400S: Jaw insert, 450 mm working length
    - WA64400L: Jaw insert, 330 mm working length
    - WA64400A: Shaft, 250 mm working length
    - WA64410A: Handle “Ergo”, monopolar
    - A62410A: Handle “Ergo S”, monopolar

**Straight Scissors**

- Scissors, straight, length of jaw: 18 mm,
  - A60800A: 330 mm, Ergo handle, monopolar
  - Components
    - WA64800S: Jaw insert, 330 mm working length
    - WA64800L: Jaw insert, 250 mm working length
    - WA64810A: Handle “Ergo”, monopolar
    - A60810A: Handle “Ergo S”, monopolar

**10 MM HAND INSTRUMENTS**

**Claw Forceps**

- For retrieval of small fragile tissue
  - Grasping forceps, claw type, length of jaw: 45 mm,
    - A60000A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65000A: Jaw insert, 330 mm working length
      - WA65000L: Shaft, 250 mm working length
      - WA65010A: Handle “Ergo”, monopolar
      - A60510A: Handle “Ergo S”, monopolar

**Babcock Forceps**

- For maneuvering of large fragile tissue
  - Grasping forceps, Babcock, length of jaw: 47 mm,
    - A60001A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65001A: Jaw insert, 330 mm working length
      - WA65001L: Shaft, 300 mm working length
      - WA65010A: Handle “Ergo”, monopolar
      - A60510A: Handle “Ergo S”, monopolar

**Dissection forceps, Maryland**

- Length of jaw: 30 mm,
  - A60510A: 330 mm, Ergo handle, ratchet
  - Components
    - WA65010A: Jaw insert, 330 mm working length
    - WA65010L: Shaft, 300 mm working length, tapered
    - WA65010A: Handle “Ergo”, ratchet
    - A60510A: Handle “Ergo S”, ratchet

**Atraumatic Grasping Forceps**

- For grasping tissue and flexible forceps dedicated for maximum grasping performance
  - Grasping forceps, common bite size (CBD), length of jaw: 16 mm,
    - A60070A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65070A: Jaw insert, 330 mm working length
      - WA65070L: Shaft, 300 mm working length
      - WA65010A: Handle “Ergo”, ratchet
      - A60510A: Handle “Ergo S”, ratchet

**10 MM HAND INSTRUMENTS**

**Claw Forceps**

- For retrieval of small fragile tissue
  - Grasping forceps, claw type, length of jaw: 45 mm,
    - A60000A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65000A: Jaw insert, 330 mm working length
      - WA65000L: Shaft, 250 mm working length
      - WA65010A: Handle “Ergo”, monopolar
      - A60510A: Handle “Ergo S”, monopolar

**Babcock Forceps**

- For maneuvering of large fragile tissue
  - Grasping forceps, Babcock, length of jaw: 47 mm,
    - A60001A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65001A: Jaw insert, 330 mm working length
      - WA65001L: Shaft, 300 mm working length
      - WA65010A: Handle “Ergo”, monopolar
      - A60510A: Handle “Ergo S”, monopolar

**Dissection forceps, Maryland**

- Length of jaw: 30 mm,
  - A60510A: 330 mm, Ergo handle, ratchet
  - Components
    - WA65010A: Jaw insert, 330 mm working length
    - WA65010L: Shaft, 300 mm working length, tapered
    - WA65010A: Handle “Ergo”, ratchet
    - A60510A: Handle “Ergo S”, ratchet

**Atraumatic Grasping Forceps**

- For grasping tissue and flexible forceps dedicated for maximum grasping performance without damage of soft tissue (e.g. colon)
  - Grasping forceps, wave type, atraumatic, length of jaw: 80 mm
    - A60040A: 500 mm, Ergo handle, ratchet
    - Components
      - WA65040A: Jaw insert, 500 mm working length
      - WA65040L: Shaft, 400 mm working length
      - WA65010A: Handle “Ergo”, ratchet
      - A60510A: Handle “Ergo S”, ratchet

**Babcock Forceps (Atraumatic)**

- For maneuvering of large fragile tissue
  - Grasping forceps, Babcock (atraumatic), length of jaw: 60 mm,
    - A60040A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65040A: Jaw insert, 330 mm working length
      - WA65040L: Shaft, 300 mm working length
      - WA65010A: Handle “Ergo”, ratchet
      - A60510A: Handle “Ergo S”, ratchet

**Babcock Forceps (Atraumatic)**

- For maneuvering of large fragile tissue
  - Grasping forceps, Babcock (atraumatic), length of jaw: 60 mm,
    - A60040A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65040A: Jaw insert, 330 mm working length
      - WA65040L: Shaft, 300 mm working length
      - WA65010A: Handle “Ergo”, ratchet
      - A60510A: Handle “Ergo S”, ratchet

**Maryland Forceps**

- Multipurpose curved dissection forceps for all laparoscopic applications
  - Dissection forceps, Maryland, length of jaw: 30 mm,
    - A60510A: 330 mm, Ergo handle, ratchet
    - Components
      - WA65010A: Jaw insert, 330 mm working length
      - WA65010L: Shaft, 300 mm working length, tapered
      - WA65010A: Handle “Ergo”, ratchet
      - A60510A: Handle “Ergo S”, ratchet

**Atraumatic Grasping Forceps**

- For grasping tissue and flexible forceps dedicated for maneuvering without damage of soft tissue (e.g. colon)
  - Grasping forceps, wave type, atraumatic, length of jaw: 80 mm
    - A60040A: 500 mm, Ergo handle, ratchet
    - Components
      - WA65040A: Jaw insert, 500 mm working length
      - WA65040L: Shaft, 400 mm working length
      - WA65010A: Handle “Ergo”, ratchet
      - A60510A: Handle “Ergo S”, ratchet
MONOPOLAR AND STANDARD SPARE PARTS

HiQ+ Handles
- A60100A Handle "Ergo", with ratchet
- A60101A Handle "Ergo", monopolar
- A60102A Handle "Ergo", monopolar, with ratchet
- A60103A Handle "Ergo"
- A60200A Handle "Ergo S", ratchet, with silicone finger ring
- A60201A Handle "Ergo S", monopolar, with silicone finger ring
- A60205A Handle "Ergo S", monopolar, deactivatable ratchet, with silicone finger ring
- A60210A Handle "Semi inline S", with ratchet, with silicone finger ring
- A60211A Handle "Semi inline S", monopolar, with silicone finger ring

Spare Parts
- A03440A Sealing cap, 2.2 mm, 10 pcs., for HiQ+ handles
- A03441A Spare release button, 10 pcs., for HiQ+ shafts
- A03442A Sealing ring, 50 pcs., for HiQ+ shafts

HF cables
- A0358 for UES-40/-30, Erbe International and Valleylab (new)
- A0355 for UES-10/-20 and Valleylab (old)
- A0357 for Erbe T series, Martin, and Berchtold

HF Electrodes
- A6280 HF electrode, button, 5 x 330 mm
- A6281 HF electrode, needle, 5 x 330 mm
- A6282 HF electrode, hook, 5 x 330 mm
- A6292 HF electrode, hook, with suction channel, 5 x 330 mm
- A6283 HF electrode, long hook, 5 x 330 mm
- A6284 HF electrode, spoon, 5 x 330 mm

Accessories for Monopolar HF Electrodes
- A00503A Tubing, set, 6 x 10 mm, 3 m (transparent), 6 x 10 mm, 3 m (blue)
- A00505A Tubing, set, 6 x 10 mm, 3 m (blue)
- A00506A Tubing, set, 6 x 10 mm, 3 m (transparent)

System Chart

MONOPOLAR HF ELECTRODES

10 mm HiQ+ Shafts
- A56000A Shaft, insulated, 5 x 330 mm
- A56001A Shaft, insulated, tapered, 5 x 330 mm

5 mm HiQ+ Shafts
- A56002A Shaft, insulated, 5 x 330 mm
- A56003A Shaft, insulated, straight, 5 x 330 mm

5 mm HiQ+ Shafts
- A56000S Shaft, insulated, 5 x 250 mm
- A56000A Shaft, insulated, 5 x 330 mm
- A56000L Shaft, insulated, 5 x 430 mm

10 mm HiQ+ Shafts
- A56001S Shaft, insulated, 10 x 330 mm
- A56001A Shaft, insulated, tapered, 10 x 330 mm

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

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

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, 50 pcs., for HiQ+ shafts
HF cable, monopolar, 3.5 m length
A0358 for UES-40/-30, Erbe International and Valleylab (new)
A0355 for UES-10/-20 and Valleylab (old)
A0357 for Erbe T series, Martin, and Berchtold

Baden-Württemberg International Design Award 2004

Design Award 2001
Suction and Irrigation System

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
- Suction/irrigation tube, aspiration cannula, 1.5 x 360 mm, WA51132A
- Suction/irrigation tube, button, monopolar, 5.3 x 360 mm, WA51138A
- Handle, set, with suction control lever, 5 mm suction channel, WA5112S includes WA51172A and WA51181S. To be used with pressure controlled roller pumps.
- Handle, set, without suction control lever, 5 mm suction channel, WA51172L includes WA51172A and WA51181L. To be used with foot switch pumps.
- Handle, spare, with suction control lever, WA51172A
- Handle, spare, without suction control lever, WA51172A
- Tubing, spare, for HiQ+ handles, 5 mm suction channel, WA51181S
- WA51151A 10 x 360 mm
- WA51151L 10 x 450 mm
- Suction/irrigation tube, safety basket, 10 x 360 mm, WA51152A
- Suction/irrigation tube, stone collector, 10 x 360 mm, WA51153A

Large Diameter Suction/Irrigation System
- Suction/irrigation tube, distal holes, 10 x 360 mm, WA51151A
- WA51151L 10 x 450 mm
- Suction/irrigation tube, safety basket, 10 x 360 mm, WA51152A
- Suction/irrigation tube, stone collector, 10 x 360 mm, WA51153A
- Handle, set, with suction control lever, 8 mm suction channel, WA51172L includes WA51172A and WA51181L. To be used with pressure controlled roller pumps.
- Handle, set, without suction control lever, 8 mm suction channel, WA51172L includes WA51172A and WA51181L. To be used with foot switch pumps.

Pump SurgiFlow
- Pump “SurgiFlow”, European set, WA58910A
- Pump “SurgiFlow”, U.S. set, WA58911A

Delivery includes:
- Pump, power cable, spare fuse, tubing set WA58911A (only WA58910A)

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 1

System Chart Suction and Irrigation

Tubing
- Tubing, set, for two water bags, for single use, sterile, 10 pcs. reusable 1 pc., WA58891A
- Tubing, set, for HiQ+ handles, 6 mm suction channel

Pump SurgiFlow
- Pump “SurgiFlow”, European set, WA58910A
- Pump “SurgiFlow”, U.S. set, WA58911A

Delivery includes:
- Pump, power cable, spare fuse, tubing set WA58911A (only WA58910A)

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- Power supply:
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Pump SurgiFlow
- Pump “SurgiFlow”, European set, WA58910A
- Pump “SurgiFlow”, U.S. set, WA58911A

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- Pump, power cable, spare fuse, tubing set WA58911A (only WA58910A)

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 1

System Chart Suction and Irrigation

Tubing
- Tubing, set, for two water bags, for single use, sterile, 10 pcs. reusable 1 pc., WA58891A
- Tubing, set, for HiQ+ handles, 6 mm suction channel
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<tr>
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<td>WA6101A</td>
<td>WA60101A Shaft, 330 mm working length</td>
<td>WA6101A Handle “Ergo”, monopolar</td>
<td>A0400 Sealing cap, blue, for Luer-lock, 6 pcs.</td>
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<td>WA60101A Handle “Ergo”, monopolar</td>
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<td>WA60101A</td>
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<td>WA60120A Handle, with sheath, 430 mm, ratchet</td>
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<th><strong>HiQ+ Inline A Handles</strong></th>
<th><strong>Standard Needle Holders</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Grasping forces, needle holder, left-curved, 5 mm</td>
<td>Grasping forces, needle holder, left-curved, 5 mm</td>
<td>Grasping forces, needle holder, 5 x 330 mm, straight</td>
<td>Components</td>
<td>Grasping forces, needle holder, 5 x 330 mm, straight</td>
</tr>
<tr>
<td>WA60780A Jaws insert, 330 mm working length, WA60780L Jaws insert, 430 mm, WA60780A Handle, with sheath, 330 mm, ratchet</td>
<td>WA60780A Jaws insert, 330 mm working length, WA60780L Jaws insert, 430 mm, WA60780A Handle, with sheath, 330 mm, ratchet</td>
<td>WA60780A Jaws insert, 330 mm working length, WA60780L Jaws insert, 430 mm, WA60780A Handle, with sheath, 330 mm, ratchet</td>
<td>Components</td>
<td>Grasping forces, needle holder, 3 x 330 mm, straight</td>
</tr>
<tr>
<td>WA60101A Shaft, 330 mm working length</td>
<td>WA60101A Handle “Ergo”, monopolar</td>
<td>WA60101A</td>
<td>WA60101A</td>
<td>A51000A Sealing cap, blue, for Luer-lock, 6 pcs.</td>
</tr>
<tr>
<td>WA60120A Handle, with sheath, 330 mm, ratchet</td>
<td>WA60120A Handle, with sheath, 430 mm, ratchet</td>
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</tbody>
</table>

**HiQ+ Inline A Handles**

- WA63105A Handle, with sheath, 330 mm, with ratchet
- WA63105L Handle, with sheath, 430 mm, with ratchet
- A0400 Sealing cap, blue, for Luer-lock, 6 pcs.

**Standard Needle Holders**

- WA56903A Knot pusher, 5 x 330 mm
- WA56903A Knot pusher, 5 x 330 mm, curved
- WA56090L 5 x 390 mm, straight
- WA56098L 5 x 390 mm, curved
- WA5692 3 x 330 mm, straight
- O0131 Sealing cap, 0.7 mm, 10 pcs., for A5692
- A0400 Sealing cap, blue, for Luer-lock, 6 pcs.