

**OLYMPUS**

Your Vision, Our Future

HAND INSTRUMENTS

**HiQ+**

Bipolar Hand Instruments  
Monopolar Hand Instruments  
Monopolar HF Electrodes  
Suction and Irrigation  
Needle Holders

# THE HiQ+ SERIES



**NEW:  
HiQ+  
Bipolar**



## **FORM FOLLOWS FUNCTION FOLLOWS YOUR NEEDS**

HiQ+ Bipolar.....	4
HiQ+ Monopolar and Standard.....	6
HiQ+ Suction and Irrigation.....	8
HiQ+ Needle Holders .....	9

## **TECHNICAL DATA**

5 mm Bipolar Forceps.....	10
5 mm Grasping Forceps .....	11
5 mm Multifunctional Grasping Forceps.....	13
5 mm Dissection/Biopsy Forceps.....	14
5 mm Monopolar Scissors .....	15
10 mm Hand Instruments .....	16
Monopolar and Standard Spare Parts .....	18
Monopolar HF-Electrodes.....	19
Suction and Irrigation.....	20
Needle Holders, Knot Pushers.....	22

# BIPOLAR SAFETY WITH “MON

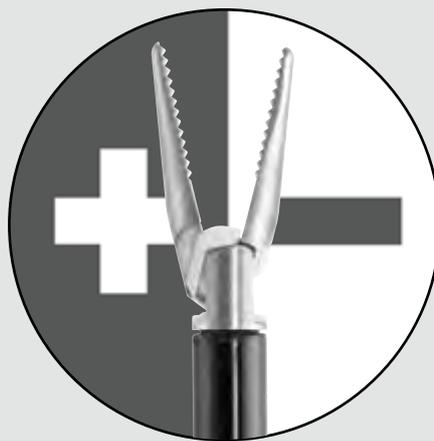


**SurgMaster**



## 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.

# “MONOPOLAR” PRECISION



## 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.



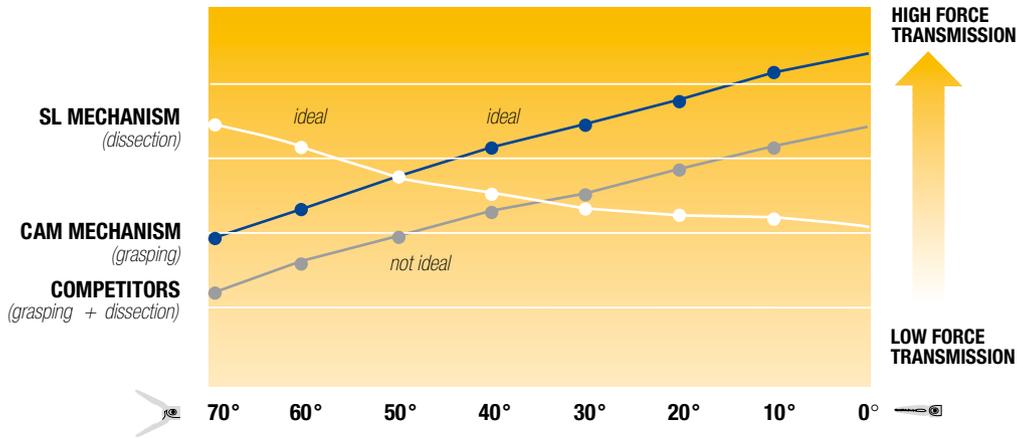
### EASY REPROCESSING

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.

# FORM FOLLOWS FUNCTION



**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.



## 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.

# FOLLOWS YOUR NEEDS



## 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.

hamburgunddesign 1999



Design  
Award  
Winner  
2000



design award  
winner  
2003

# 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.*



Baden-Württemberg  
International  
Design Award 2004



Design  
Award  
Winner  
2006



reddot design award  
winner 2005



## 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



## 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”.

# 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

## 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

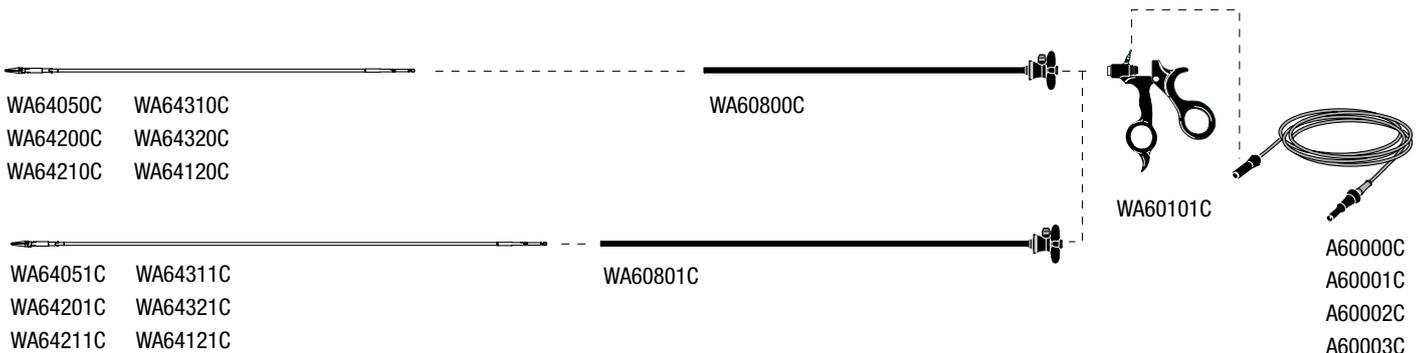


with Ergo handle  
WA63050C 330 mm working length  
WA63051C 430 mm working length



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

## System Chart



# 5 MM GRASPING FORCEPS

## HiQ+ Bipolar Components

WA60101C Handle "Ergo", bipolar



A03440A Sealing cap, 10 pcs., for handle A60101C



WA60800C Shaft, insulated, bipolar, 5 x 330 mm



WA60801C Shaft, insulated, bipolar, 5 x 430 mm



A03441A Spare release button, 10 pcs., for HiQ+ shafts



HF cable, bipolar, 3.5 m length, for UES-20/-30/-40, and Valleylab HF units  
 A60003C for Erbe ICC International HF units  
 A60001C for Martin and Berchtold 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 recoverage of 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



A63050A with Ergo handle  
330 mm working length



A63053A with Ergo S handle  
330 mm working length



A63055A with Semi inline S handle  
330 mm working length



A64050A Jaws insert, spare,  
330 mm working length

## Wave Type Grasping Forceps

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



A63080A with Ergo handle  
330 mm working length



A63083A with Ergo S handle  
330 mm working length



A63085A with Semi inline S handle  
330 mm working length



A64080A Jaws insert, spare,  
330 mm working length

## Johann Forceps

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



A63120S with Ergo handle  
250 mm working length  
A63120A 330 mm working length  
WA63120L 430 mm working length



A63123S with Ergo S handle  
250 mm working length  
A63123A 330 mm working length  
WA63123L 430 mm working length



A63125A with Semi inline S handle  
330 mm working length  
WA63125L 430 mm working length



A64120S Jaws insert, spare,  
250 mm working length  
A64120A 330 mm working length  
WA64120L 430 mm working length

## 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)



A63070A with Ergo handle  
330 mm working length



A63073A with Ergo S handle  
330 mm working length



A63075A with Semi inline S handle  
330 mm working length



A64070A Jaws insert, spare,  
330 mm working length

## 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)



WA63140A with Ergo handle  
330 mm working length



WA63143A with Ergo S handle  
330 mm working length



WA63145A with Semi inline S handle  
330 mm working length



WA64140A Jaws insert, spare,  
330 mm working length

## 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)



WA63130A with Ergo handle  
330 mm working length



WA63133A with Ergo S handle  
330 mm working length



WA63135A with Semi inline S handle  
330 mm working length



WA64130A Jaws insert, spare,  
330 mm working length

# 5 MM MULTIFUNCTIONAL GRASPING FORCEPS

## Atraumatic Grasping Forceps

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



A63100A with Ergo handle  
330 mm working length



A63103A with Ergo S handle  
330 mm working length



A63105A with Semi inline S handle  
330 mm working length



A64100A Jaws insert, spare,  
330 mm working length

## Atraumatic Grasping Forceps

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



A63090A with Ergo handle  
330 mm working length



A63093A with Ergo S handle  
330 mm working length



A63095A with Semi inline S handle  
330 mm working length



A64090A Jaws insert, spare,  
330 mm working length

## Traumatic Grasping Forceps

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



A63060A with Ergo handle  
330 mm working length



A63063A with Ergo S handle  
330 mm working length



A63065A with Semi inline S handle  
330 mm working length



A64060A Jaws insert, spare,  
330 mm working length

## Traumatic Grasping Forceps

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



A63110A with Ergo handle  
330 mm working length



A63113A with Ergo S handle  
330 mm working length



A63115A with Semi inline S handle  
330 mm working length



A64110A Jaws insert, spare,  
330 mm working length

# 5 MM DISSECTION/BIOPSY FORCEPS

## 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  
A63315A 330 mm working length



Jaws insert, spare,  
A64310S 250 mm working length  
A64310A 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

## 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  
A63320L 430 mm working length



with Ergo S handle  
A63323S 250 mm working length  
A63323A 330 mm working length  
A63323L 430 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  
A64320L 430 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, with spike, length of jaws: 14 mm, monopolar



with Ergo handle  
A63610S 250 mm working length  
A63610A 330 mm working length  
A63610L 430 mm working length



with Ergo S handle  
A63613S 250 mm working length  
A63613A 330 mm working length  
A63613L 430 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  
A64610L 430 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

Scissors,  
Metzenbaum,  
length of jaws: 19 mm,  
monopolar,  
multipurpose scissors for all  
laparoscopic applications



with Ergo handle  
A63810S 250 mm working length  
A63810A 330 mm working length  
A63810L 430 mm working length



with Ergo S handle  
A63813S 250 mm working length  
A63813A 330 mm working length  
A63813L 430 mm working length



with Semi inline S handle  
A63815A 330 mm working length



Jaws insert, spare,  
A64810S 250 mm working length  
A64810A 330 mm working length  
A64810L 430 mm working length

## Hook Scissors

Hook scissors,  
length of jaws: 12 mm,  
monopolar,  
for cutting of sutures



with Ergo handle  
A63820S 250 mm working length  
A63820A 330 mm working length  
A63820L 430 mm working length



with Ergo S handle  
A63823S 250 mm working length  
A63823A 330 mm working length  
A63823L 430 mm working length



with Semi inline S handle  
A63825A 330 mm working length



Jaws insert, spare,  
A64820S 250 mm working length  
A64820A 330 mm working length  
A64820L 430 mm working length

## Mini-Metzenbaum Scissors

Scissors,  
Mini-Metzenbaum  
length of jaws: 16 mm,  
monopolar,  
for precise cutting and preparation



with Ergo handle  
A63840A 330 mm working length



with Ergo S handle  
A63843A 330 mm working length



with Semi inline S handle  
A63845A 330 mm working length



Jaws insert, spare,  
A64840A 330 mm working length

## Straight Scissors

Scissors,  
straight,  
length of jaws: 19 mm,  
monopolar



with Ergo handle  
A63830A 330 mm working length



with Ergo S handle  
A63833A 330 mm working length



with Semi inline S handle  
A63835A 330 mm working length



Jaws insert, spare,  
A64830A 330 mm working length

# 10 MM HAND INSTRUMENTS

## Claw Forceps

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



A65020A with Ergo handle  
330 mm working length



A65023A with Ergo S handle  
330 mm working length



A65025A with Semi inline S handle  
330 mm working length



A66020A Jaws insert, spare,  
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.)



A65050A with Ergo handle  
330 mm working length



A65053A with Ergo S handle  
330 mm working length



A65055A with Semi inline S handle  
330 mm working length



A66050A Jaws insert, spare,  
330 mm working length

## Babcock Forceps (Atraumatic)

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



WA65040A with Ergo handle  
330 mm working length



WA65043A with Ergo S handle  
330 mm working length



WA65045A with Semi inline S handle  
330 mm working length



WA66040A Jaws insert, spare,  
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



A65070A with Ergo handle  
330 mm working length



A65073A with Ergo S handle  
330 mm working length



A65075A with Semi inline S handle  
330 mm working length



A66070A Jaws insert, spare,  
330 mm working length

## Short Maryland Forceps

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



A65320A with Ergo handle  
330 mm working length



A65323A with Ergo S handle  
330 mm working length



A65325A with Semi inline S handle  
330 mm working length



A66320A Jaws insert, spare,  
330 mm working length

## Maryland Forceps

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



A65310A with Ergo handle  
330 mm working length



A65313A with Ergo S handle  
330 mm working length



A65315A with Semi inline S handle  
330 mm working length



A66310A Jaws insert, spare,  
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



A65060A with Ergo handle  
330 mm working length



A65063A with Ergo S handle  
330 mm working length



A65065A with Semi inline S handle  
330 mm working length



A66060A Jaws insert, spare,  
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	

## 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.

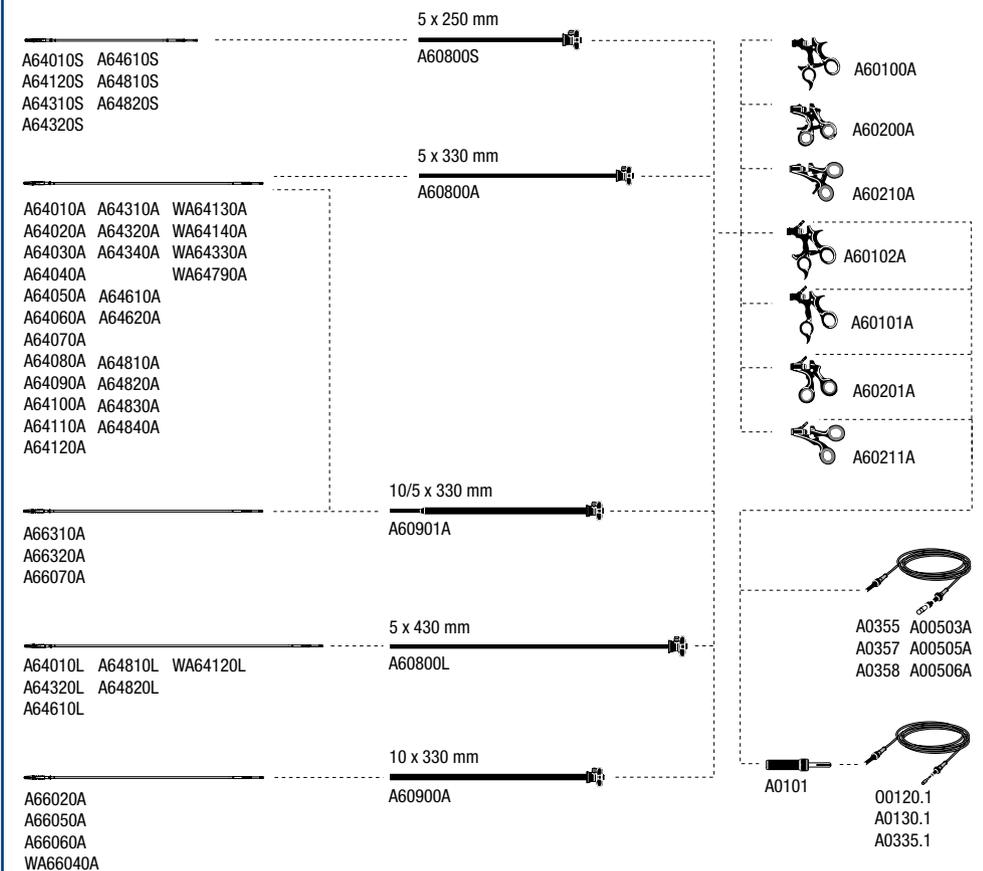
## 5 mm HiQ+ Shafts

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



# MONOPOLAR HF-ELECTRODES

## Monopolar 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 A6289	HF-electrode, long hook, 5 x 330 mm 5 x 400 mm	
A6293 A6299	HF-electrode, long hook, with suction channel, 5 x 330 mm 5 x 400 mm	
A6284	HF-electrode, spoon, 5 x 330 mm	
A6294	HF-electrode, spoon, with suction channel, 5 x 330 mm	

## Accessories for Monopolar HF-Electrodes

A0308	Tubing, set, 6 x 10 mm, 3 m (transparent), 6 x 10 mm, 3 m (blue)	
O0103	Adapter, Luer lock male, tube connector	
A0358 A0355 A0357	HF-cable, monopolar, 3.5 m length, for UES-40/-30, Erbe ICC International and Valleylab (new) for UES-10/-20 and Valleylab (old) for Martin and Berchtold	

For other HF-cables, see catalog.



reddot design award  
winner 2000



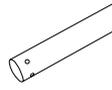
Design  
Award  
Winner  
2001

Baden-Württemberg  
International  
Design Award 2004

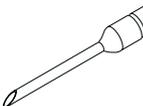
# SUCTION AND IRRIGATION

## 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



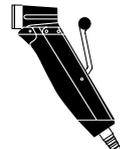

WA51132A Suction/irrigation tube, aspiration cannula, 1.5 x 360 mm




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



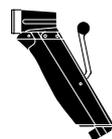

WA51172S Handle, set, with suction control lever, 5 mm suction channel, includes WA51172A and WA51181S  
 To be used with pressure controlled roller pumps.



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

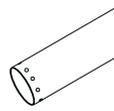


WA51181S Tubing, spare, for HiQ+ handles, 5 mm suction channel

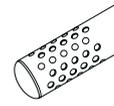


## Large Diameter Suction/Irrigation System

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



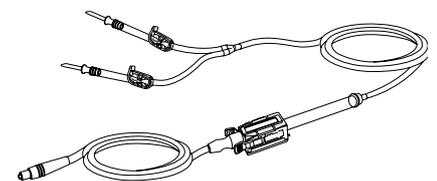
Delivery includes:  
 Pump, power cable, spare fuses,  
 tubing set WA58911A (only WA58910A9)

### Technical Data

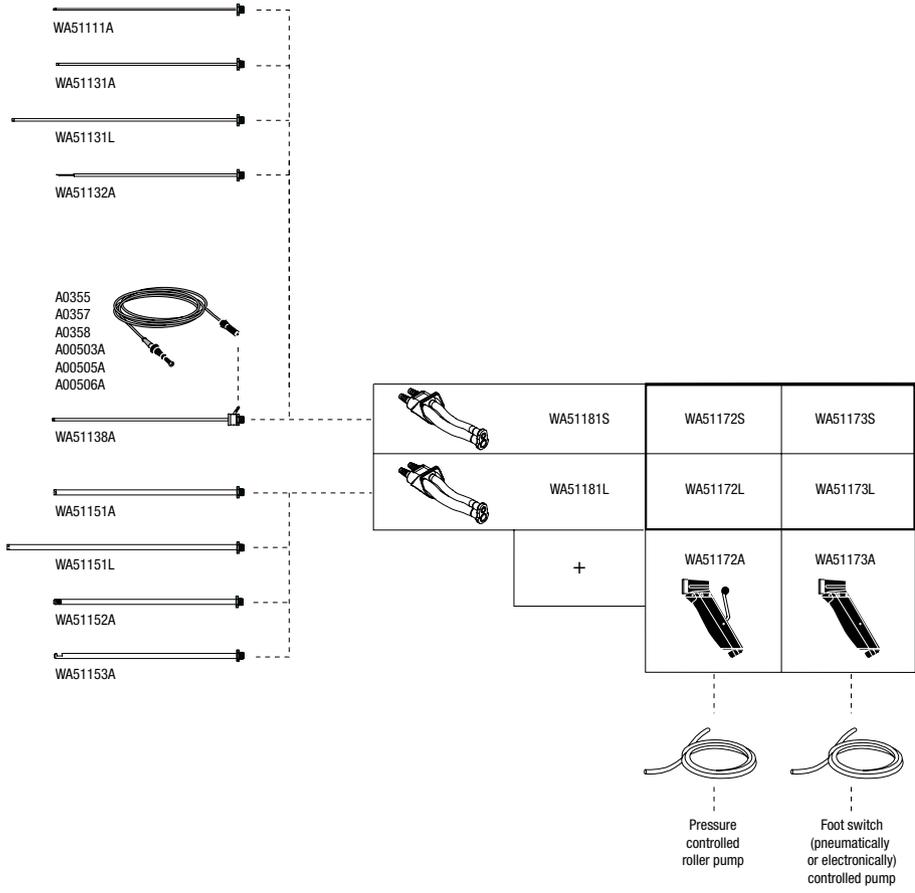
Power supply  
 Voltage..... 100 - 240 V  
 Frequency ..... 50-60 Hz  
 Power consumption ..... 45 W  
 Size  
 Height ..... 93 mm  
 Width ..... 300 mm  
 Depth ..... 318 mm  
 Weight ..... 5 kg  
 Irrigation  
 Flow rate ..... 2500 ml/min  
 Max. pressure..... 550 mm Hg  
 Safety  
 Protection..... class I, type BF IPX 1

## Tubing

Tubing, set, for two water bags,  
 WA58901A for single use, sterile, 10 pieces  
 WA58911A reusable, 1 piece



# System Chart Suction and Irrigation



# NEEDLE HOLDERS, KNOT PUSHERS, RETRACTORS

## HiQ+ Needle Holder



WA63708A Needle holder,  
5 x 330 mm,  
straight,  
with ratchet



WA63718A Needle holder,  
5 x 330 mm,  
curved,  
with ratchet



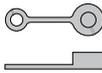
WA63728A Needle holder,  
5 x 330 mm,  
self-alignment,  
with ratchet



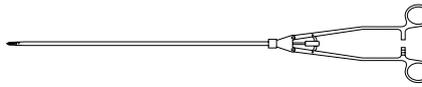
### Spare parts

- 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.



WA56900A Needle holder,  
with self-alignment,  
5 x 330 mm, straight



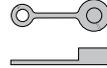
Needle holder,  
A5690 5 x 330 mm, straight  
A5698 5 x 330 mm, curved  
WA56090L 5 x 390 mm, straight  
WA56098L 5 x 390 mm, curved



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.

## Fascial Closure Needle



A51000A Needle,  
for fascial closure,  
250 mm



## Knot Pusher



WA63790A Knot pusher "HiQ+",  
5 x 330 mm working length,  
with Ergo handle



WA56903A Knot pusher,  
5 x 330 mm



## Retractors



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



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







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