



■ LAPAROSCOPY

Developed and manufactured in Germany.



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Full HD camera & Insufflator

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Hemlock Model ML / L / XL & Bulldog

- 18** Modular bipolar coagulation forceps, 5mm
- 20** New: Powergrip bipolar coagulation forceps, 5mm
- 21** Modular instrument handles rotatable / detachable
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- 25** Modular 5 mm inserts - Biopsy and scissors
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- 29** EasyKnot and wound closure forceps
- 30** Led 10W portable



2026 Product catalog

MEDICAL MONITORS



Specifications

- ▷ Screen Size 23.8"
- ▷ Resolution 1920 x 1080
- ▷ Brighthness 600cd/m'
- ▷ Color Depth 16.7M colors
- ▷ Viewing angle 78/178
- ▷ Response time (GtoG) 14ms

M-23.8CL1

COMBO

Full HD Camera + 300w. LED Lightsource. Records in full HD 1080p 60 frames



* The set has: Equipment camera led combo, Wireless 1080p Camera and 2.5 ligh cable.

Specifications

- ▷ LED 300
- ▷ 1/3" 3.0 Megapixel CMOS Sensor
- ▷ Color: 0.1Lux@F1.2
- ▷ 1920x1080 / 60Hz Full HD
- ▷ 3G SDI 1080p
- ▷ HDMI 1080p
- ▷ C-Video composite video
- ▷ 5300 K

E-CHD1

HIGH FLOW 40-LITER INSUFFLATOR



**2 Years
Warranty**

Specifications

- ▷ Digital Insufflator 40 litros
- ▷ The highest flow rate available on the market
- ▷ Optional gas heating technology
- ▷ Surgivent-electronic venting system for added safety
- ▷ Visual and audible warning signals
- ▷ Safety Relief Valve
- ▷ Internal Leakage Detection

E-IN40

AUTOCCLAVE
134° C / 273° F

HD



Laparoscope, Ø 5 mm, WL 300 mm

Direction of view

0°	E050-300-00
30°	E050-300-30
45°	E050-300-45

Laparoscope, Ø 6.5 mm, WL 300 mm

Direction of view

0°	E065-300-00
30°	E065-300-30

Laparoscope, Ø 10 mm, WL 300 mm

Direction of view

0°	E100-310-00
30°	E100-310-30
45°	E100-310-45

Bariatric Laparoscope, Ø 10 mm, WL 400 mm

Direction of view

0°	E100-400-00
30°	E100-400-30
45°	E100-400-45

Ring applicator



Working Ø 6 mm, WL 330 mm	L1-007-01
Working Ø 7 mm, WL 290 mm	L1-007-02
Insert cones for (L1-007-01/L1-007-02)	L1-007-03
Applier for (L1-007-01/L1-007-02)	L1-007-04

Silicon Rings, 50 pcs./pack

L1-007-05

Universal Light Cable

Ø	Working lenght	
3.5 mm	1800 mm	E1-035-18
3.5 mm	2300 mm	E1-035-23
3.5 mm	3000 mm	E1-035-30
4.8 mm	1800 mm	E1-048-18
4.8 mm	2300 mm	E1-048-23
4.8 mm	3000 mm	E1-048-30

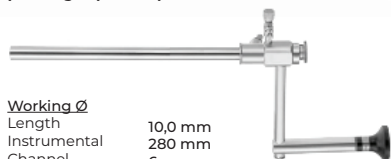
With silicone-rubber sheath,
autoclavable, waterproof,
very flexible, heat resistant
from approx. -60° to
approx. +180°
Centigrade.



Endoscope - Adapter

Storz/ Olympus		L1-005-01
Wolf		L1-005-02

Operating Laparoscope



Working Ø

Length	10,0 mm
Instrumental	280 mm
Channel	6 mm
Direction of view	0°

L1-006-01

Stop cock for Ø10 mm Operating Laparoscope incl. 1 stop cock and sealing cap

L1-006-02



Sealing cap for stop cock

L1-006-03

Light Cable - Light Source - Adapter

Storz		E1-1-S
Olympus		E1-1-O
Wolf / Dynonics		E1-1-WD
ACMI / British Standard		E1-1-AB
Pentax		E1-1-P
Fuji		E1-1-F

Light Cable - Endoscope - Adapter

Storz / Olympus		E1-2-SO
Wolf		E1-2-W
ACMI		E1-2-A

Instrument Holding Systems



For 10 mm scopes or instruments,
420 mm Working Radius

E2-001-01

For 3-10 mm scopes or instruments,
420 mm Working Radius

E2-001-02

Instrument L-Holder



Instrument L-Holder for 10 mm scopes or
instruments, 480 mm working radius

E2-001-03

Instrument L-Holder for 3-10 mm scopes or
instruments, 480 mm working radius

E2-001-04

Liver retractor



Live retractor for universal holder, medium

E2-002-01

Live retractor for universal holder, large

E2-002-02



Universal retractor holder

E2-002-03



Endoscope holder Ø 8 / 10 mm

E2-002-04



Universal Endoscope holder
Ø 2,7 - 10 mm

E2-002-05



Joint extension 180mm long-lockable

E2-002-06



Double tube holder
made of aluminium

E2-002-07



Universal tube holding plate

E2-002-08

Trumpet Valve Cannula

<u>Inside-Ø</u>	<u>with metal smooth sleeve</u>	<u>with metal threaded sleeve</u>
5.5 mm	L2-010-05	L2-011-05
11.0 mm	L2-010-11	L2-011-11
12.5 mm	L2-010-12	L2-011-12

Automatic Valve Cannula

<u>Inside-Ø</u>	<u>with metal smooth sleeve</u>	<u>with metal threaded sleeve</u>
3.5 mm	L2-020-03	L2-021-03
5.5 mm	L2-020-05	L2-021-05
7.5 mm	L2-020-07	L2-021-07
11.0 mm	L2-020-11	L2-021-11
12.5 mm	L2-020-12	L2-021-12

Automatic Cannula with manual lever

<u>Inside-Ø</u>	<u>with metal smooth sleeve</u>	<u>with metal threaded sleeve</u>
5.5 mm	L2-030-05	L2-031-05
7.5 mm	L2-030-07	L2-031-07
11.0 mm	L2-030-11	L2-031-11
12.5 mm	L2-030-12	L2-031-12

LITE-LINE Cannula with silicone seal w/o stopcock

<u>Inside-Ø</u>	<u>with metal smooth sleeve</u>	<u>with metal threaded sleeve</u>
5.5 mm	L2-040-05	L2-041-05

LITE-LINE**Cannula with silicone seal with stopcock**

<u>Inside-Ø</u>	<u>with metal smooth sleeve</u>	<u>with metal threaded sleeve</u>
1		
5.5 mm	L2-050-05	L2-051-05
1.0 mm	L2-050-11	L2-051-11
12.5 mm	L2-050-12	L2-051-12

LITE-LINE**Silicone seals**

5.5 mm	L2-052-05
11.0/12.5 mm	L2-052-11

Hasson Cannula Set

<u>Inside-Ø</u>	<u>with Trumpet Valve</u>	<u>with atraumatic valve</u>	<u>with manual lever and auto. valve</u>
5.5 mm	L2-060-05	L2-061-05	L2-062-05
11.0 mm	L2-060-11	L2-061-11	L2-062-11
12.5 mm	L2-060-12	L2-061-12	L2-062-12

Accessories for Hasson Cannula

Hasson Cone
L2-063-01



Fascia Holder
L2-064-01

Obturator

<u>Outside-Ø</u>	<u>Hasson Cone</u>	<u>Obturator</u>	<u>Fascia Holder</u>
5.5 mm	L2-070-05	L2-071-05	L2-072-05
11.0 mm	L2-070-11	L2-071-11	L2-072-11
12.5 mm	L2-070-12	L2-031-12	L2-032-12

Accessories for Cannula, WL 100 mm, custom lengths available upon request



Inside-Ø

5.5 mm
7.5 mm
11.0 mm
12.5 mm

Metal smooth sleeve

L2-080-05
L2-080-07
L2-080-11
L2-080-12

Plastic Smooth sleeve

L2-081-05
L2-081-07
L2-081-11
L2-081-12

Metal threaded sleeve

L2-082-05
L2-082-07
L2-082-11
L2-082-12

Plastic threaded sleeve

L2-083-05
L2-083-07
L2-083-11
L2-083-12

Sealing caps



Inside-Ø

5.5 mm
7.5 mm
11.0 mm
12.5 mm

Sealing caps 10/pack

L2-090-05
L2-090-07
L2-090-11
L2-090-12

O-Rings 10/pack

L2-091-05
L2-091-07
L2-091-11
L2-091-12

Veress shielded trocar



Outside-Ø

3.5 mm
5.5 mm
11.0 mm
12.5 mm

L2-100-03
L2-100-05
L2-100-11
L2-100-12

Trocar, pyramidal point



Inside-Ø

5.5 mm
7.5 mm
11.0 mm
12.5 mm

L2-110-05
L2-110-07
L2-110-11
L2-110-12

Trocar, conical point



Inside-Ø

5.5 mm
7.5 mm
11.0 mm
12.5 mm

L2-120-05
L2-120-07
L2-120-11
L2-120-12

Shielded Trocar with automatic tip cover and lock



Outside-Ø

5.5mm
10.5mm Storz
11.0mm
12.5mm

L2-130-05
L2-130-10
L2-130-11
L2-130-12

Shielded Blade Trocar with automatic tip cover



Outside-Ø

5.5mm
10.5mm Storz
11.0mm
12.5mm

with lock

L2-140-05
L2-140-10
L2-140-11
L2-140-12

without lock

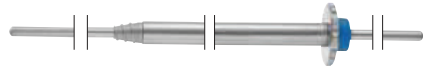
L2-141-05
L2-141-10
L2-141-11
L2-141-12

Reducer-sleeve



<u>Outside-Ø</u>	<u>Inside-Ø</u>	
10 mm	5 mm	L2-150-10
11 mm	5 mm	L2-150-11
12.5 mm	5 mm	L2-150-12
12.5 mm	10 mm	L2-150-13
15 mm	5 mm	L2-150-15
15 mm	10 mm	L2-150-16
20 mm	15 mm	L2-150-20
20 mm	10 mm	L2-150-21

Dilation Set with guide probe



<u>Inside-Ø</u>	<u>Inside-Ø</u>	
5 mm	10 mm	L2-150-10
5 mm	11 mm	L2-150-11
10 mm	15 mm	L2-150-15
10 mm	20 mm	L2-150-20

Reducer-adapter



<u>Outside-Ø</u>	<u>Inside-Ø</u>	
11 mm	5 mm	L2-170-11
12.5 mm	5 mm	L2-170-12

Reducer-short



<u>Outside-Ø</u>	<u>Inside-Ø</u>	
11 mm	5 mm	L2-171-11
12.5 mm	5 mm	L2-171-12

S-retractor, set of 2



5.5 mm	L2-172-11
11 mm	L2-172-12

Veress Insufflation-cannula



<u>Working length</u>	<u>Ø 2.0 mm</u>
80 mm	L2-180-08
100 mm	L2-180-10
120 mm	L2-180-12
150 mm	L2-180-15
170 mm	L2-180-17
200 mm	L2-180-20



Luer Lock End Cap
L2-190-01



Female Luer Lock Tubing Adapter
L2-190-02



Male Luer Lock Tubing Adapter
L2-190-03

Adaptable Suction-/Irrigation Tubes for L3-002-01 / L3-002-02 / L3-002-03



<u>Outside-Ø</u>	<u>Inside-Ø</u>	
3 mm	330 mm	L3-003-03
5 mm	330 mm	L3-003-05
10 mm	330 mm	L3-003-10



Single Trumpet Valve Handle

L3-001-01



Double Trumpet Valve Handle with detachable ergonomic handle plate

L3-001-02



Pistol handle with maintenance-free 2-way valve

L3-001-03

Adaptable Suction/Irrigation Tube for L3-004-01



<u>Outside-Ø</u>	<u>Working Length</u>	
3 mm	330 mm	L3-004-03
5 mm	330 mm	L3-004-05
10 mm	330 mm	L3-004-10

Adaptable Injection/Puncture Needle for L3-004-01



<u>Outside-Ø</u>	<u>Working Length</u>	
5 mm	330 mm	L3-004-50

Maintenance-free 2-Way Valve with rotating adapter and LL-connector

L3-004-01



Injection/Puncture Needle, small LL-connector for syringes



<u>Outside-Ø</u>	<u>Working Length</u>	
3 mm	330 mm	L3-005-03
5 mm	330 mm	L3-005-05
10 mm	450 mm	L3-006-10

Irrigation Channel Insert for L3-007-01



L3-007-02

Suction and Irrigation Tubw with two lateral trumpet valves Ø 5 mm, WL 330 mm



L3-007-01

Laser Channel Insert for L3-007-01



L3-007-03

Endo Suction/Irrigation tubes



Endo Suction/Irrigation tubes, WL 330 mm, for L3-010-01

Ø 5 mm **L3-010-05**
Ø 10 mm **L3-010-10**



Endo-Suction-/Irrigation handle
L3-010-01

Suction Tube with one lateral trumpet valve, 5mm, WL 330mm



Stop Cock Valve Handle
L4-001-01



Single Trumpet Valve Handle
L4-001-02



Two way valve Handle
L4-001-03



**Double trumpet valve handle with
detachable ergonomic handle plate**
L4-001-04



**Pistol Handle with
maintenance free 2-way valve**
L4-001-05

**Adaptable monopolar HF-Electrodes for modular handles of series L4-001-01 /L4-001-02/
L4-001-03/L4-001-04 and L4-001-05**



**Adaptable monopolar HF-Electrodes for modular handles of series L4-002-01 /L4-002-02/
L4-002-03/L4-002-04 and L4-002-05 with sliding insulation**



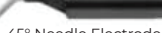
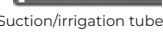
1. Step



2. Step



3. Step

	Adaptable electrodes		Adaptable electrodes with sliding insulation	
<u>Ø 5 mm</u>	<u>Working Length</u>		<u>Working Length</u>	
 Hook Electrode, thin	340 mm	L4-010-33	340 mm	L4-020-33
	450 mm	L4-010-45	450 mm	L4-020-45
 Hook Electrode, thick	340 mm	L4-011-33	340 mm	L4-021-33
	450 mm	L4-011-45	450 mm	L4-021-45
 Right angle Electrode	340 mm	L4-012-33	340 mm	L4-022-33
	450 mm	L4-012-45	450 mm	L4-022-45
 Spatula Electrode	340 mm	L4-013-33	340 mm	L4-023-33
	450 mm	L4-013-45	450 mm	L4-023-45
 Ball Point Electrode	340 mm	L4-014-33	340 mm	L4-024-33
	450 mm	L4-014-45	450 mm	L4-024-45
 Knife Electrode	340 mm	L4-015-33	340 mm	L4-025-33
	450 mm	L4-015-45	450 mm	L4-025-45
 45° Needle Electrode	340 mm	L4-016-33	340 mm	L4-026-33
	450 mm	L4-016-45	450 mm	L4-026-45
 Needle Electrode	340 mm	L4-017-33	340 mm	L4-027-33
	450 mm	L4-017-45	450 mm	L4-027-45
 Suction/Irrigation tube	340 mm	L4-018-33		
	450 mm	L4-018-45		

Monopolar electrodes with HF-Connector



Electrodes with HF-Connector

Ø 5 mm

Working Length



Hook Electrode, thin

340 mm L4-030-33
450 mm L4-030-45



Hook Electrode, thick

340 mm L4-031-33
450 mm L4-031-45



Right angle Electrode

340 mm L4-032-33
450 mm L4-032-45



Spatula Electrode

340 mm L4-033-33
450 mm L4-033-45



Ball Point Electrode

340 mm L4-034-33
450 mm L4-034-45



Knife Electrode

340 mm L4-035-33
450 mm L4-035-45



45° Needle Electrode

340 mm L4-036-33
450 mm L4-036-45



Needle Electrode

340 mm L4-037-33
450 mm L4-037-45

Generator side

US-American ESU's



with standard instrument connector

Length 300 mm L4-100-00

Martin, Berchtold, Erbe T-Series



with standard instrument connector

Length 300mm L4-100-01

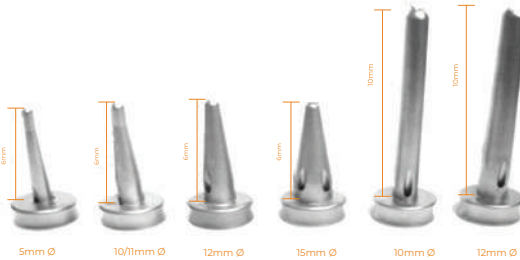


"Wound closure" Forceps, WL 170 mm

200 mm L5-001-020
270 mm L5-001-027
300 mm L5-001-030



Endo-Ligature Applicator
L5-001-02



Trocar suture guide

Working length

5 mm	L5-001-105
10/11 mm	L5-001-110
15 mm	L5-001-115
10cm long 10 mm	L5-001-210
10cm long 12 mm	L5-001-212

Knot pusher, Ø 5 mm



with suture opening

330 mm L5-021-33
450 mm L5-021-45



without suture opening

Working length

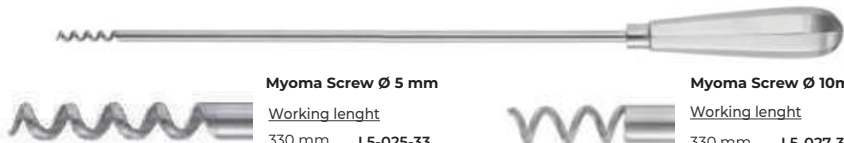
330 mm L5-022-33
450 mm L5-022-45



Palpation Probe Ø 5 mm, graduated

Working length

330 mm L5-024-33
450 mm L5-024-45



Myoma Screw Ø 5 mm

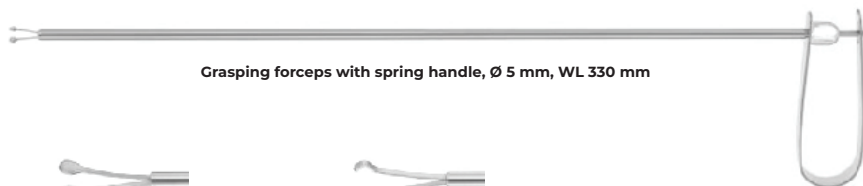
Working length

330 mm L5-025-33
450 mm L5-025-45

Myoma Screw Ø 10 mm

Working length

330 mm L5-027-33
450 mm L5-027-45



Grasping forceps with spring handle, Ø 5 mm, WL 330 mm



Bowel Forceps
L5-040-33



Atraumatic Grasping Forceps
L5-042-33



T-Pattern Forceps
L5-041-33



Square-Pattern Forceps
L5-043-33



Ring-Pattern Forceps
L5-044-33

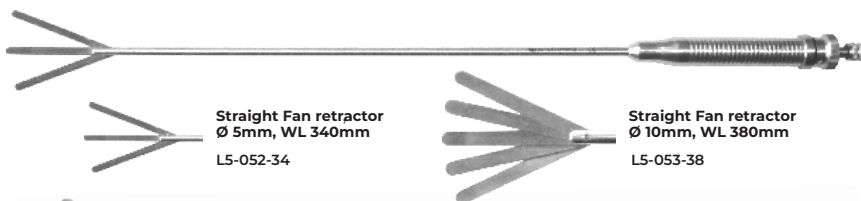


Lap Band Retractor, articulating, 5mm

330 mm L5-050-33
450 mm L5-050-45

Lap Band Retractor, articulating, 10mm

330 mm L5-051-33
450 mm L5-051-45

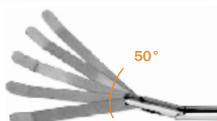


Straight Fan retractor
Ø 5mm, WL 340mm
L5-052-34

Straight Fan retractor
Ø 10mm, WL 380mm
L5-053-38



50° Adjustable Fan Retractor,
Ø 5 mm, WL 340mm
L5-054-34



50° Adjustable Fan Retractor,
Ø 10 mm, WL 380mm
L5-055-38



**Speculum with 3 blades for
extraction of gall bladder, WL 55mm**

L5-060-55



**Cholangiography Probe,
radiolucent, WL 330mm**

Ø 11.0 mm L5-061-11
Ø 12.5 mm L05-061-12



**Aggressive 3 Prong grasper
5mm, WL 330mm**

L05-070-01



**Allis 3 Prong grasper,
5mm, WL 330mm**

L5-070-02



Titanium Rotatable Clip Applier, WL 330mm



LT400 for 10 x 330mm

L5-074-33

LT300 for 10 x 330mm

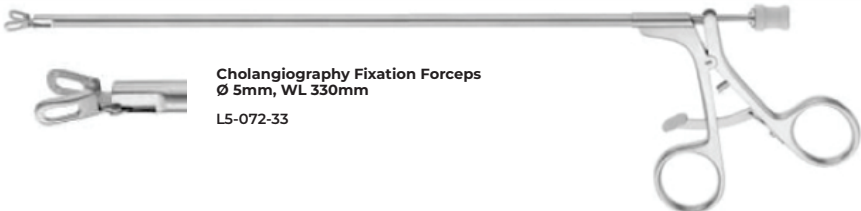
L5-073-33

LT200 for 5 x 330mm

L5-072-33

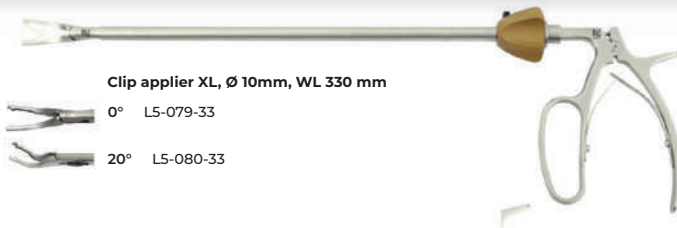
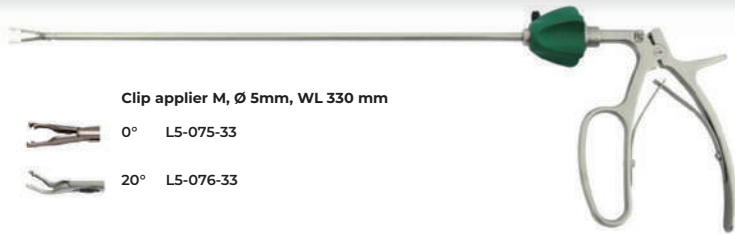
LT100 for 5 x 330mm

L5-071-33



**Cholangiography Fixation Forceps
Ø 5mm, WL 330mm**

L5-072-33



Clip applicator





Ring handle
L5-300-05

Comfortable Handling

The electrode can be rotated 360° for accurate jaw orientation. There is no receding of the jaw when closing. This allows precise grasping and coagulation of the tissue

Hygiene and cost effectiveness

The forceps are easily detachable. This allows to reliably clean even highly inaccessible areas. Because of its modular design, all parts are interchangeable and therefore easy to repair. The various electrodes can be all used in the same, ergonomically designed handle



Standard handle
L5-300-10

Outer tube	
Working Length	
200 mm	L5-305-20
340 mm	L5-305-34
450 mm	L5-305-45
Inner tube	
Working Length	
200 mm	L5-306-20
340 mm	L5-306-34
450 mm	L5-306-45



Adapter with flat plug
L5-310-01

Compatibility

The forceps in conjunction with the respective connection cable is compatible with the bipolar output of most electro-surgical generators not exceeding 60 Watts. An adapter can be used in order to connect a standard bipolar forceps cable.

Bipolar Silicon cables with rotatable plug



AUTOClave
134° C / 273° F



2 Banana Plugs
Length Rotatable plug
300 mm L5-403-01



Valleylab
Length Rotatable plug
300 mm L5-403-05



Wolf / Martin / Berchtold / Aesculap
Length Rotatable plug
300mm L5-403-10



Erbe / Select / Storz
Length Rotatable plug
300mm L5-403-15

NEW



Bipolar Scissor



Bipolar Maryland

Complete instrumentt

Bipolar forceps with rippled bar

With ring handle

200mm	L5-100-20
250mm	L5-100-25
340mm	L5-100-34
450mm	L5-100-45

**Fine bipolar forceps,
1mm jaw**

With ring handle

200mm	L5-102-20
250mm	L5-102-25
340mm	L5-102-34
450mm	L5-102-45

Bipolar forceps, 3 mm jaw

With ring handle

200mm	L5-104-20
250mm	L5-104-25
340mm	L5-104-34
450mm	L5-104-45

**Bipolar grasping forceps,
serrated jaw**

With ring handle

200mm	L5-106-20
250mm	L5-106-25
340mm	L5-106-34
450mm	L5-106-45

**Bipolar scissors,
Curved**

With ring handle

200mm	L5-108-20
250mm	L5-108-25
340mm	L5-108-34
450mm	L5-108-45

**Bipolar Maryland,
Curved**

With ring handle

200mm	L5-110-20
250mm	L5-110-25
340mm	L5-110-34
450mm	L5-110-45

Insert only

Insert with rippled bar

Working length

200mm	L5-200-20
250mm	L5-200-25
340mm	L5-200-34
450mm	L5-200-45

Insert with 1 mm jaw

Working length

200mm	L5-202-20
250mm	L5-202-25
340mm	L5-202-34
450mm	L5-202-45

Insert with 3 mm jaw

Working length

200mm	L5-204-20
250mm	L5-204-25
340mm	L5-204-34
450mm	L5-204-45

Insert with serrated jaw

Working length

200mm	L5-206-20
250mm	L5-206-25
340mm	L5-206-34
450mm	L5-206-45

Scissors Insert

Working length

200mm	L5-208-20
250mm	L5-208-25
340mm	L5-208-34
450mm	L5-208-45

Maryland Insert

Working length

200mm	L5-210-20
250mm	L5-210-25
340mm	L5-210-34
450mm	L5-210-45

NEW

Reusable instrument for use in laparoscopy for grasping and cutting tissue during bipolar coagulation.

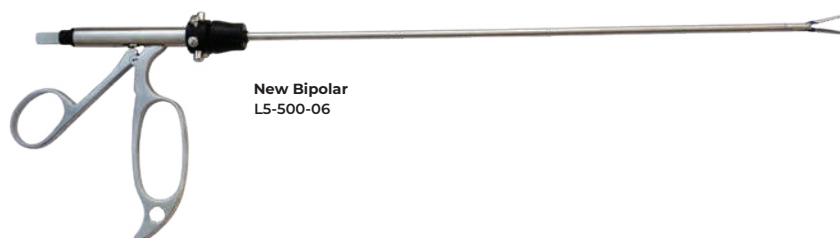
**Hygiene and Cost Effectiveness**

The forceps are easily detachable. This allows to reliably clean even highly inaccessible areas. Because of it's modular design, all parts are interchangeable and therefore easy to repair. The various electrodes can be all used in the same, ergonomically designed handle.

Ring handle
L5-500-05

Outer tube
Working lenght

200mm	L5-500-20
250mm	L5-500-25
340mm	L5-500-34
450mm	L5-500-45



New Bipolar
L5-500-06

Bipolar grasper micro france fenestrated

	<u>Insert only</u>	<u>Complete instrument</u>
200mm	L5-501-20	L5-601-20
250mm	L5-501-25	L5-601-25
340mm	L5-501-34	L5-601-34
450mm	L5-501-45	L5-601-45

Bipolar grasping forceps fenestrated

	<u>Insert only</u>	<u>Complete instrument</u>
200mm	L5-504-20	L5-604-20
250mm	L5-504-25	L5-604-25
340mm	L5-504-34	L5-604-34
450mm	L5-504-45	L5-604-45

Bipolar grasping forceps delicate curved

	<u>Insert only</u>	<u>Complete instrument</u>
200mm	L5-502-20	L5-602-20
250mm	L5-502-25	L5-602-25
340mm	L5-502-34	L5-602-34
450mm	L5-502-45	L5-602-45

Bipolar scissors curved

	<u>Insert only</u>	<u>Complete instrument</u>
200mm	L5-505-20	L5-605-20
250mm	L5-505-25	L5-605-25
340mm	L5-505-34	L5-605-34
450mm	L5-505-45	L5-605-45

Bipolar grasping forceps curved fenestrated

	<u>Insert only</u>	<u>Complete instrument</u>
200mm	L5-503-20	L5-603-20
250mm	L5-503-25	L5-603-25
340mm	L5-503-34	L5-603-34
450mm	L5-503-45	L5-603-45

Bipolar Dissector Maryland curved

	<u>Insert only</u>	<u>Complete instrument</u>
200mm	L5-506-20	L5-606-20
250mm	L5-506-25	L5-606-25
340mm	L5-506-34	L5-606-34
450mm	L5-506-45	L5-606-45

Metal handle



L6-A

Metal handle with spring



L6-B

Metal handle
with front ratchet



L6-C

Ratchet



L6-D

Insulated metal handle
with HF-connector



L6-M

Carbon handle,
with HF-connector



L6-P

Carbon handle, with spring,
with HF-connector



L6-S

Carbon handle,
with activating-deactivating
ratchet, with HF-connector



L6-R

Carbon handle, with ratchet,
with HF-connector



L6-T

Carbon handle, with
removable French ratchet,
with HF-connector



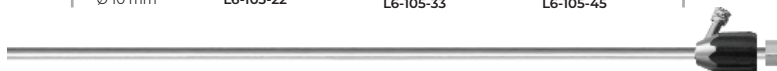
L6-F

Metal Shaft with shaft knob

Size	<u>working length</u> 220 mm	<u>working length</u> 330 mm	<u>working length</u> 450 mm
Ø 5 mm	L6-100-22	L6-100-33	L6-100-45
Ø 10-5 mm	L6-101-22	L6-101-33	L6-101-45
Ø 10 mm	L6-102-22	L6-102-33	L6-102-45

**Metal Shaft, with cleaning port and shaft knob**

Size	<u>working length</u> 220 mm	<u>working length</u> 330 mm	<u>working length</u> 450 mm
Ø 5 mm	L6-103-22	L6-103-33	L6-103-45
Ø 10-5 mm	L6-104-22	L6-104-33	L6-104-45
Ø 10 mm	L6-105-22	L6-105-33	L6-105-45

**Insulated Shaft with shaft knob**

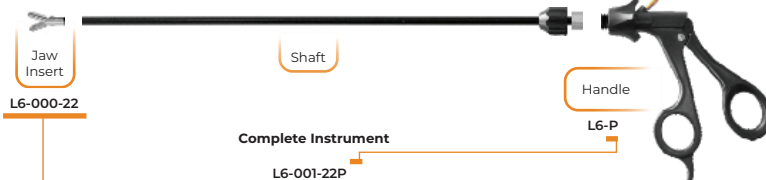
Size	<u>working length</u> 220 mm	<u>working length</u> 330 mm	<u>working length</u> 450 mm
Ø 5 mm	L6-106-22	L6-106-33	L6-106-45
Ø 10-5 mm	L6-107-22	L6-107-33	L6-107-45
Ø 10 mm	L6-108-22	L6-108-33	L6-108-45

**Insulated Shaft with cleaning port and shaft knob**

Size	<u>working length</u> 220 mm	<u>working length</u> 330 mm	<u>working length</u> 450 mm
Ø 5 mm	L6-109-22	L6-109-33	L6-109-45
Ø 10-5 mm	L6-110-22	L6-110-33	L6-110-45
Ø 10 mm	L6-111-22	L6-111-33	L6-111-45

**Shaft knob**

Ø 5 mm	L6-112-05
Ø 10 mm	L6-113-10





Cone Grasping insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-000-22
330 mm	L6-000-33
450 mm	L6-000-45



Wide Fenestrated insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-019-22
330 mm	L6-019-33
450 mm	L6-019-45



Long Dolphin insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-002-22
330 mm	L6-002-33
450 mm	L6-002-45



Micro fenestrated insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-020-22
330 mm	L6-020-33
450 mm	L6-020-45



Short Dolphin insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-004-22
330 mm	L6-004-33
450 mm	L6-004-45



Micro insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-022-22
330 mm	L6-022-33
450 mm	L6-022-45



Long Grasping with spoon

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-006-22
330 mm	L6-006-33
450 mm	L6-006-45



Micro Kelly insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-024-22
330 mm	L6-024-33
450 mm	L6-024-45



Grasping insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-008-22
330 mm	L6-008-33
450 mm	L6-008-45



Long atraumatic grasping up

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-026-22
330 mm	L6-026-33
450 mm	L6-026-45



Maryland insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-010-22
330 mm	L6-010-33
450 mm	L6-010-45



Grasping insert, straight

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-028-22
330 mm	L6-028-33
450 mm	L6-028-45



Kelly insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-012-22
330 mm	L6-012-33
450 mm	L6-012-45



Grasping insert, curved

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-030-22
330 mm	L6-030-33
450 mm	L6-030-45



Long atraumatic grasping

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-014-22
330 mm	L6-014-33
450 mm	L6-014-45



Alligator Grasping insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-032-22
330 mm	L6-032-33
450 mm	L6-032-45



Long atraumatic concave

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-016-22
330 mm	L6-016-33
450 mm	L6-016-45



Mixer 60° insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-034-22
330 mm	L6-034-33
450 mm	L6-034-45


Mixer 90° insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-036-22
330 mm	L6-036-33
450 mm	L6-036-45


Alligator, with spoon

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-038-22
330 mm	L6-038-33
450 mm	L6-038-45


DaVinci insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-040-22
330 mm	L6-040-33
450 mm	L6-040-45


Maxi insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-042-22
330 mm	L6-042-33
450 mm	L6-042-45


Mc Kearnan insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-043-22
330 mm	L6-043-33
450 mm	L6-043-45


Crocodile, insert single action

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-044-22
330 mm	L6-044-33
450 mm	L6-044-45


Crocodile, insert double action

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-045-22
330 mm	L6-045-33
450 mm	L6-045-45


Retraction insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-046-22
330 mm	L6-046-33
450 mm	L6-046-45


Oviduct insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-048-22
330 mm	L6-048-33
450 mm	L6-048-45


Dissecting, fine pattern

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-050-22
330 mm	L6-050-33
450 mm	L6-050-45


Endo-Klinch - Insert, 5mm

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-054-22
330 mm	L6-054-33
450 mm	L6-054-45


Johan 17mm Fenestrated Diss. and Grasp

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-056-22
330 mm	L6-056-33
450 mm	L6-056-45


Johan 25mm Fenestrated Diss. and Grasp

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-057-22
330 mm	L6-057-33
450 mm	L6-057-45


Johan 40mm Fenestrated Diss. and Grasp

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-058-22
330 mm	L6-058-33
450 mm	L6-058-45


Fenestrated Bowel insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-059-22
330 mm	L6-059-33
450 mm	L6-059-45


Allis insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-062-22
330 mm	L6-062-33
450 mm	L6-062-45


De Bakey insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-064-22
330 mm	L6-064-33
450 mm	L6-064-45


Babcock insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-066-22
330 mm	L6-066-33
450 mm	L6-066-45


Paddle Babcock insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-068-22
330 mm	L6-068-33
450 mm	L6-068-45


Baby Babcock insert

<u>working length</u>	<u>Jaw insert</u>
220 mm	L6-070-22
330 mm	L6-070-33
450 mm	L6-070-45



Biopsy Spoon, double action

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-080-22
330 mm	L6-080-33
450 mm	L6-080-45



Biopsy spoon with teeth, double action

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-082-22
330 mm	L6-082-33
450 mm	L6-082-45



Biopsy Spoon, single action

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-084-22
330 mm	L6-084-33
450 mm	L6-084-45



Biopsy Spoon with teeth, single action

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-086-22
330 mm	L6-086-33
450 mm	L6-086-45



Blakesley biopsy insert

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-088-22
330 mm	L6-088-33
450 mm	L6-088-45



Biopsy punch insert

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-090-22
330 mm	L6-090-33
450 mm	L6-090-45



Multiple teeth insert

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-092-22
330 mm	L6-092-33
450 mm	L6-092-45



Rat-Tooth inser

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-094-22
330 mm	L6-094-33
450 mm	L6-094-45



Claw insert

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-096-22
330 mm	L6-096-33
450 mm	L6-096-45



Tenaculum insert

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-098-22
330 mm	L6-098-33
450 mm	L6-098-45



Micro scissors, straight

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-200-22
330 mm	L6-200-33
450 mm	L6-200-45



Micro scissors, curved

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-202-22
330 mm	L6-202-33
450 mm	L6-202-45



Peritoneal scissors, serrated

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-204-22
330 mm	L6-204-33
450 mm	L6-204-45



Hook scissors

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-206-22
330 mm	L6-206-33
450 mm	L6-206-45



Baby-Metzenbaum, curved

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-208-22
330 mm	L6-208-33
450 mm	L6-208-45



Metzenbaum scissors, curved

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-210-22
330 mm	L6-210-33
450 mm	L6-210-45



Endo scissors, curved

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-214-22
330 mm	L6-214-33
450 mm	L6-214-45



Metzenbaum scissors, straight heavy blades pattern

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-216-22
330 mm	L6-216-33
450 mm	L6-216-45



Metzenbaum scissors, curved heavy blades pattern

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-218-22
330 mm	L6-218-33
450 mm	L6-218-45





10 mm Maryland insert for 5-10mm shaft 19.61/XX

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-110-22
330 mm	L6-110-33
450 mm	L6-110-45



10 mm Alligator insert for 5-10mm shaft 19.61/XX

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-132-22
330 mm	L6-132-33
450 mm	L6-132-45



90° Mixer insert, 10mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-150-22
330 mm	L6-150-33
450 mm	L6-150-45



Allis insert, 10mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-152-22
330 mm	L6-152-33
450 mm	L6-152-45



Allis, atraumatic insert, 10mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-154-22
330 mm	L6-154-33
450 mm	L6-154-45



Babcock grasping forceps, 10 mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-156-22
330 mm	L6-156-33
450 mm	L6-156-45



Paddle babcock insert, 10 mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-157-22
330 mm	L6-157-33
450 mm	L6-157-45



Spoon insert, single action, 10 mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-170-22
330 mm	L6-170-33
450 mm	L6-170-45



Claw insert, single action, 10 mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-172-22
330 mm	L6-172-33
450 mm	L6-172-45



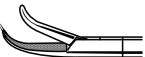
Claw insert, double action, 10 mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-174-22
330 mm	L6-174-33
450 mm	L6-174-45



Tenaculum insert, 10 mm shaft

<u>Working length</u>	<u>Jaw insert</u>
220 mm	L6-176-22
330 mm	L6-176-33
450 mm	L6-176-45

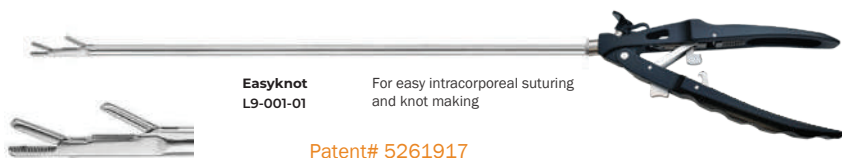
	Metal Handle with Spring and Cleaning Port, not rotating, not detachable  L7-B	Ratchet with Cleaning Port, not rotating, not detachable  L7-D	Axial Handle with ratchet and Cleaning Port, not rotating, not detachable  L7-F
	Tungsten Carbide, 3 mm 220 mm L7-340-22B 330 mm L7-340-33B 450 mm L7-340-45B	Tungsten Carbide, 3 mm 220 mm L7-340-22D 330 mm L7-340-33D 450 mm L7-340-45D	Tungsten Carbide, 3 mm 220 mm L7-340-22F 330 mm L7-340-33F 450 mm L7-340-45F
	Serrated Jaw, 3 mm 220 mm L7-342-22B 330 mm L7-342-33B 450 mm L7-342-45B	Serrated Jaw, 3 mm 220 mm L7-342-22D 330 mm L7-342-33D 450 mm L7-342-45D	Serrated Jaw, 3 mm 220 mm L7-342-22F 330 mm L7-342-33F 450 mm L7-342-45F
	Tungsten Carbide, 5 mm 220 mm L7-350-22B 330 mm L7-350-33B 450 mm L7-350-45B	Tungsten Carbide, 5 mm 220 mm L7-350-22D 330 mm L7-350-33D 450 mm L7-350-45D	Tungsten Carbide, 5 mm 220 mm L7-350-22F 330 mm L7-350-33F 450 mm L7-350-45F
	Serrated Jaw, 5 mm 220 mm L7-352-22B 330 mm L7-352-33B 450 mm L7-352-45B	Serrated Jaw, 5 mm 220 mm L7-352-22D 330 mm L7-352-33D 450 mm L7-352-45D	Serrated Jaw, 5 mm 220 mm L7-352-22F 330 mm L7-352-33F 450 mm L7-352-45F
	"Flamingo", 5 mm 220 mm L7-360-22B 330 mm L7-360-33B 450 mm L7-360-45B	"Flamingo", 5 mm 220 mm L7-360-22D 330 mm L7-360-33D 450 mm L7-360-45D	"Flamingo", 5 mm 220 mm L7-360-22F 330 mm L7-360-33F 450 mm L7-360-45F
	"Parrot", 5 mm 220 mm L7-362-22B 330 mm L7-362-33B 450 mm L7-362-45B	"Parrot", 5 mm 220 mm L7-362-22D 330 mm L7-362-33D 450 mm L7-362-45D	"Parrot", 5 mm 220 mm L7-362-22F 330 mm L7-362-33F 450 mm L7-362-45F
	Tungsten Carbide, Curved left, 5 mm 220 mm L7-364-22B 330 mm L7-364-33B 450 mm L7-364-45B	Tungsten Carbide, Curved left, 5 mm 220 mm L7-364-22D 330 mm L7-364-33D 450 mm L7-364-45D	Tungsten Carbide, Curved left, 5 mm 220 mm L7-364-22F 330 mm L7-364-33F 450 mm L7-364-45F
	Tungsten Carbide, Curved curved, 5 mm 220 mm L7-368-22B 330 mm L7-368-33B 450 mm L7-368-45B	Tungsten Carbide, Curved curved, 5 mm 220 mm L7-368-22D 330 mm L7-368-33D 450 mm L7-368-45D	Tungsten Carbide, Curved curved, 5 mm 220 mm L7-368-22F 330 mm L7-368-33F 450 mm L7-368-45F

Axial Handle with ratchet and Cleaning Port,
not rotating, not detachable

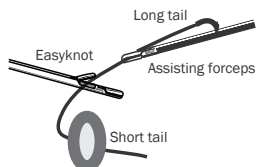


L7-G

	Art. N°	Ø	Length	Typ
	L30-5-330 S L35-5-330 S L50-5-330 S L30-5-450 S L35-5-450 S L50-5-450 S	3,0 3,5 5,0 3,0 3,5 5,0	330 mm 330 mm 330 mm 450 mm 450 mm 450 mm	Gerade
	L30-5-330 R L35-5-330 R L50-5-330 R L30-5-450 R L35-5-450 R L50-5-450 R	3,0 3,5 5,0 3,0 3,5 5,0	330 mm 330 mm 330 mm 450 mm 450 mm 450 mm	Rechts
	L30-5-330 L L35-5-330 L L50-5-330 L L30-5-450 L L35-5-450 L L50-5-450 L	3,0 3,5 5,0 3,0 3,5 5,0	330 mm 330 mm 330 mm 450 mm 450 mm 450 mm	Links
	L50-5-330 C L50-5-450 C	5,0 5,0	330 mm 450 mm	Konkav Konvex
	L50-5-330 F L50-5-450 F	5,0 5,0	330 mm 450 mm	Flamingo

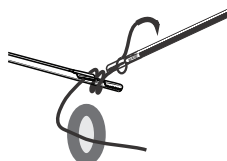


Step 1



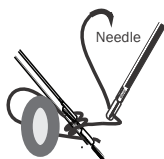
Take the stitch with a standard needle holder leaving a 1"-2" short tail on the needle entry side. Grasp the needle end of the suture with an assisting forceps about 3"-5" from the operative site to fix the suture. Trap the suture under the upper jaw of the Easyknot device about 1.5" from the point of suture fixation.

Step 2



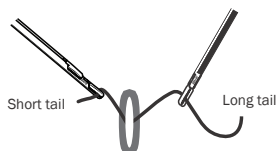
Use the assisting forceps to wrap the suture around the Easyknot device twice, distal to the upper jaw (preferably going first under device than over it)

Step 3



Bring both instruments closer to the short tail and hold the tail with the lower Jaw of the Easyknot device. Open the upper jaw to release trapped suture and pull the device (Holding the suture tail) and assisting forceps (holding the needle suture end) in opposite directions (relative to initial positions) to establish a flat half hitch. Cinch and tighten as needed.

Step 4



Repeat the procedure to form additional half hitches making sure to reverse the direction of pulling on the suture ends to establish a square knot. For instance, if the short end starts on the right side of the incision, it should end at the left side after the first half hitch and again on the right side after the second half hitch

Developed in cooperation with Drs Carlos Rotman and Harrit Hasson, Chicago/USA



Wound Closure Forceps

Grasping Suture Forceps OD 3MM
wl 17 cm

L5-001-01

Advantages

- Reduce or eliminate the possibility of trocar site hernia, wound dehiscence or bleeding
- Multiple Applications with Controlled Entry and Depth Safety Stopper: Epigastric bleeding and repair, laparoscopic ventral hernia repair, etc.
- Quality Reusable Instrument - Made in Tuttlingen /Germany
- Easy to use, specially on obese patients



■ PORTABLE LED LIGHT 10W



■ Features

Compact and portable, the built-in lithium battery allows the Mini Handheld Cold Light Source to work more than 2 hours after being recharged.

We design and manufacture it for use either with a rigid or flexible endoscope.

A particularly well conceived safety feature is the automatic switchover from main light source to the spare light source in case of light source failure.

Therefore the light source is always ready for emergency use and contributes to patient safety.



10W LED

E-L10P

Includes:

- LED Device
- 2 rechargeable batteries
- Charger
- Small travel case optional



■ HEADLIGHT SPECIAL

10W ULTRA-BRIGHT & LITE Weight Headlight Focusable



*also with zoom option

10W ultra bright -lite **E-HL10**
focusable **E-HL10F**

10W ULTRA-BRIGHT Weight Headlight



10W- weight **E-HL10U**

LED 5W HEADLIGHT Wireless



Led5- wireless **E-HL5L**

Characteristics

Applications:
Surgical, for dentistry,
veterinary

Lighting type:
LED

Other features:
With rechargeable battery, for binocular
loupe, with portable light source

Headlights include:



- ▷ Portable travel case
- ▷ 1 Charger
- ▷ 2 rechargeable lithium-ion batteries

