

HF- GENERATORS



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MGB

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HF-GENERATOR

HF-4000 L

Order-No.: 670-91040



NEW

Colour Graphic User Interface

7" TFT touch screen display allows intuitive adjustment of the desired settings and gives detailed information about the selected operating mode. External key management can be the same as the touch screen function.

Best Safety with Feedback System

REM (Return Electrode Monitoring) monitors the size of contact area between a patient and a pad. If the size is inappropriate, it automatically blocks the high-frequency current to minimize the risk of burning incidents.

Diversity of Features Bipolar

Bipolar Forced Mode, Bipolar Cut and Bipolar Blend have been added to allow enhanced procedures. Furthermore the autostart feature operates the device just with the touch of forceps.

Advanced Memory Function

99 storages are available by using user storage function. This makes operation even more convenient and saves valuable time.

Additional Monopolar Connection Port

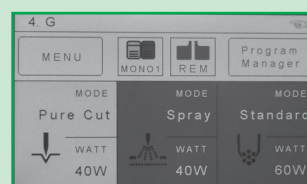
The additional monopolar connection port allows the connection of two monopolar instruments at the same time. By selecting M1 or M2 the user can comfortably switch between cut or coagulation.

Intra Cut (optional)

The new Intra Cut option offers four additional modes:

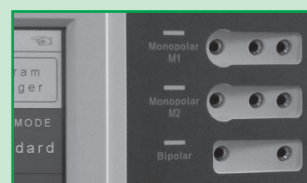
- Papillotomy
- Polypectomy
- Soft Coag
- Argon Coag

For the Papillotomy and Polypectomy modes the cycles can be adjusted individually.



Touch Screen

Allows easy operation of device.



Connections

2 x monopolar
1 x bipolar

GENERAL

Order-No.	
670-91090	HF-4000 L
Main Connection	
Power supply	100-120 VAC/200-230 VAC
Frequency	50/60 Hz
Power consumption	1200 VA $\pm$ 10%
Fuse (100~120 VAC)	T 10 AH
Fuse (200 ~230 VAC)	T 6.3 AL
Classification	
Safety class	1 with potential equalization connection
Protection	IPX 1
Type	CF
Approval	CE
Operating Conditions	
Operating temperature	15°C to 30°C
Operating humidity	20% to 95% RH
Operating altitude	700 ~1060 mbar
Dimension and Weight	
Dimension (w x d x h)	388 x 410 x 160 mm
Weight	12.5 kg
Standard Accessories	
	User manual
	Power cord
Optional Accessories	
670-91051	Footswitch monopolar
670-91052	Footswitch bipolar

SPECIFICATION

Modus	
Pure cuts	400 W at 200 Ω
Blend I	250 W at 200 Ω
Blend II	200 W at 200 Ω
Blend III	150 W at 200 Ω
Contact coagulation	120 W at 200 Ω
Spray coagulation	100 W at 200 Ω
Bipolar standard	100 W at 100 Ω
Bipolar auto start	100 W at 100 Ω
Bipolar forced	80 W at 100 Ω
Bipolar cut	120 W at 200 Ω
Bipolar blend	100 W at 200 Ω

HF-4000 L (Intra Cut)	
670-91045	HF-4000 L (Intra Cut)
Additional Modes	
Papillotomy	150 W at 100 Ω
Polypectomy	150 W at 100 Ω
Soft coagulation	80 W at 100 Ω
Argon coagulation	100 W at 300 Ω

HF-GENERATOR

HF-4000 B

Products

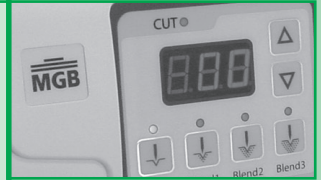
Order-No.

Description

670-91050

HF-4000 B

- 400 W monopolar
- 99 W bipolar



Smooth Cut

Smooth cut with minimum power required, choice of 4 different modes for monopolar cut.



Coagulation

Choice between contact and spray coagulation.

Features of MGB's HF-Generators

External Power Generator

When the user specifies the power requirement, MGB's HF-Generators are designed to provide consistent and reliable power. Our power source settings will benefit the user clinical user requirements and flexibility in operation.

HF-2000 B

Products

Order-No.

Description

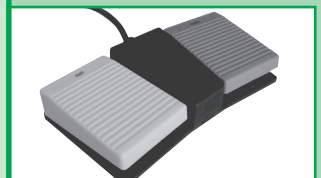
670-91060

HF-2000 B

- 200 W monopolar
- 80 W bipolar



Single Foot Switch (Bipolar)
Order-No. 670-91052



Double Foot Switch (Monopolar)
Order-No. 670-91051

HF-GENERATOR

HF-1500 B

Products

Order-No.

Description

670-91070

HF-1500 B

- 150 W monopolar
- 80 W bipolar



Super Liability and Durability

- All the products have been testing for durability under standard testing methods. With our knowledge of quality control, all devices will provide excellent performance during operation.
- In monopolar mode, urethral resection or laparoscope procedure can be done with ease. In bipolar mode, large areas can be treated easily.

HF-800 B

Products

Order-No.

Description

670-91080

HF-800 B

- 80 W monopolar
- 70 W bipolar



Single Foot Switch (Monopolar)
Order-No. 670-91081

GENERAL

HF-4000 B HF-2000 B HF-1500 B HF-800 B

	HF-4000 B	HF-2000 B	HF-1500 B	HF-800 B
Order-No.	670-91050	670-91060	670-91070	670-91080
Footswitch bipolar	670-91052	670-91052	670-91052	670-91081
Footswitch monopolar	670-91051	670-91051	670-91051	
Power supply	AC 230 V	AC 230 V	AC 120 V/AC 230 V	AC 120 V/AC 230 V
Frequency	50/60 H	50/60 H	50/60 H	50/60 H
Approval	CE	CE	CE	CE
Dimension (w/h/d)	330 x 455 x 150 mm	330 x 455 x 150 mm	330 x 330 x 135 mm	270 x 310 x 110 mm
Weight	12.5 kg	12.5 kg	8.5 kg	6.0 kg
Operation temperature	+10°C to 40°C	+10°C to 40°C	+15°C to 30°C	+15°C to 30°C
Operating humidity	30% to 75%	30% to 75%	20% to 95%	20% to 95%
HF-Specification				
■ Pure cut	400 W at 300 Ω	200 W at 300 Ω	150 W at 200 Ω	80 W at 300 Ω
■ Blend I	250 W at 300 Ω	150 W at 300 Ω	120 W at 200 Ω	80 W at 300 Ω
■ Blend II	200 W at 300 Ω	120 W at 300 Ω	100 W at 200 Ω	—
■ Blend III	150 W at 300 Ω	100 W at 300 Ω	—	—
■ Contact coagulation	120 W at 300 Ω	100 W at 300 Ω	80 W at 200 Ω	50 W at 300 Ω
■ Spray coagulation	100 W at 300 Ω	80 W at 300 Ω	60 W at 500 Ω	—
■ Bipolar coagulation	99 W at 100 Ω	80 W at 100 Ω	80 W at 100 Ω	70 W at 100 Ω
Interface				
Monopolar connecting 	✓	✓	✓	✓
Bipolar connecting 	✓	✓	✓	✓
Ground pad cable connection (GC2HF6) 	✓	✓	✓	✓

HF-GENERATOR

HF-ARGON

Order-No.: 670-01500



Contactless Coagulation

Effective and consistent coagulation of small and large surfaces and no sticking of instruments.

Compatibility

HF-ARGON is compatible to HF-1500 B, HF-2000 B, HF-4000 B and HF-4000 L (Spray Coag). Furthermore the new HF-4000 L (Intra Cut) offers a special Argon Coag mode which allows optimized performance in combination with HF-ARGON.

Cart

For proper storage of HF-generator, HF-ARGON and accessories. Offers space for two Argon gas bottles.

Accessories

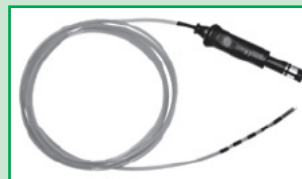
Along with this device MGB offers a full range of accessories which are specially designed for Argon-Plasma Coagulation. For further details please refer to optional accessories on page 10.

Accessories:

Flexible Argon probe cable
(Order-No.: 670-01601)



Flexible Argon probe
(Order-No.: 670-01602)



Argon electrode handle
(Order-No.: 670-01700)



GENERAL

Order-No.	
670-01500	HF-ARGON
Main Connection	
Power supply	100-240 VAC
Frequency	50/60 Hz
Power consumption	50 VA ± 10%
Fuse	T 0.5 AL
Classification	
Safety class	1 with potential equalization connection
Protection	IPX 1
Type	CF
Approval	CE
Operating Conditions	
Input pressure	Min. 2.5 bar (250 kpa) ~ max. 4.5 bar (450 kpa)
Minimum purity of ARGON	99,998 %
Operating temperature	10°C to 40°C
Operating humidity	30% to 75% RH
Operating altitude	700~1060 mbar
Dimension and Weight	
Dimension (w x d x h)	330 x 380 x 130 mm
Weight	6.0 kg
Standard Accessories	
670-01501	Foot switch signal cable
670-01502	Monopolar signal cable
670-01503	Luer lock tube
670-01504	Regulator
670-01801	Ground cable (cart to protective earth)
670-01802	Ground cables (HF-generator + HF-Argon to cart)
	User manual
	Power cord
Optional Accessories	
670-91051	Double foot switch
670-01505	Argon gas bottle 5L (empty)
670-01601	Reusable flexible Argon probe cable
670-01602	Reusable flexible Argon probe
670-01700	Argon electrode handle
670-01701	Argon cutting electrode (WL 177 mm)
670-01702	Argon needle electrode (WL 177 mm)
670-01703	Argon coagulation electrode (WL 177 mm)
670-01800	Cart for generator + Argon device

SPECIFICATION

Modes	
Argon gas flow, cut	0.1 l/min. ~ 9.9 l/min.
Argon gas flow, coagulation	0.1 l/min. ~ 9.9 l/min.



Cart for convenient storage of devices and accessories (Order-No. 670-01800).

ACTIVE MONOPOLAR ELECTRODES

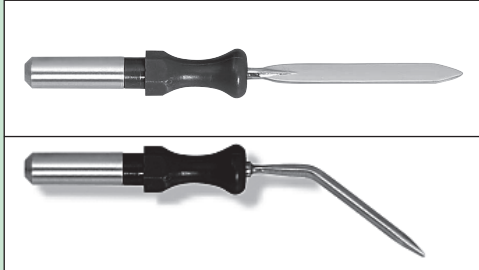
Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02050

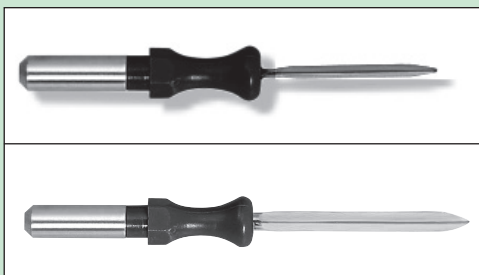
Knife electrode

■ Working length: 25 x 3.3 mm

670-02020

Lancet electrode

■ Working length: 19 x 1.6 mm
■ angular



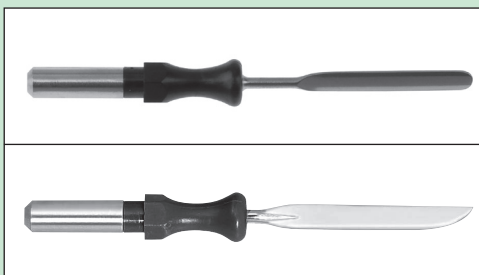
670-02030

Lancet electrode

■ Working length: 19 x 1.6 mm

670-02039

■ Working length: 25 x 2.5 mm



670-02060

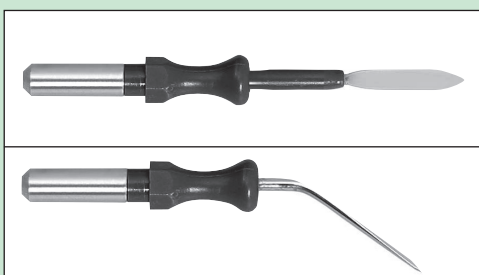
Spatula electrode

■ Working length: 24 x 3.0 mm

670-02070

Knife electrode

■ Working length: 24 x 3.3 mm



670-02321

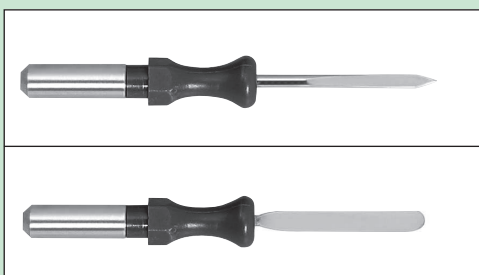
Spatula electrode

■ Working length: 16 x 2.0 mm
■ flexible

670-02080

Knife electrode

■ Working length: 17 x 1.5 mm
■ angular
■ lancet style



670-2090

Knife electrode

■ Working length: 17 x 1.5 mm
■ lancet style

670-02055

Knife electrode

■ Working length: 20 x 2.5 mm

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02118

Tungsten electrode

- Working length: 5 x Ø 0.5 mm
- With ceramic



670-02101

Needle electrode

- Working length: 23 x Ø 0.5 mm



670-02103

Needle electrode

- Working length: 23 x Ø 0.8 mm



670-02111

- Working length: 15 x Ø 0.5 mm



670-02112

Needle electrode

- Working length: Ø 10 mm



670-02116

Needle electrode

- Working length: 15 x Ø 0.5 mm



670-02121

Wire loop electrode

- Ø 5.0 mm



670-02122

Wire loop electrode

- Ø 5.0 mm



670-2135

Ribbon loop electrode

- Ø 12 mm



670-02138

Ribbon loop electrode

- Ø 16 mm

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02141

Ball electrode

■ Ø 2 mm



670-02142

Ball electrode

■ Ø 4 mm



670-02143

Ball electrode

■ Ø 6 mm



670-02148

Ball electrode

■ Ø 2 mm

■ angular



670-02149

Ball electrode

■ Ø 4 mm

■ angular



670-02992

Small set surgical instrument with

Order-No. : 670-02103

670-02050

670-02142

670-02122

670-02080

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02230

Tungsten electrode

■ Working length: 20 x Ø 0.5 mm

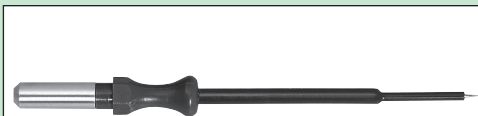


670-02240

Tungsten electrode

■ Working length: 20 x Ø 0.5 mm

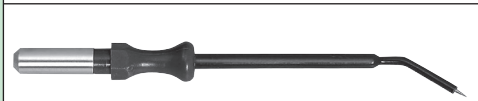
■ angular



670-02250

Tungsten electrode

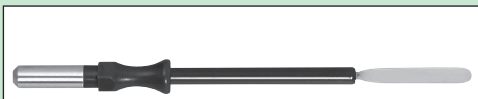
■ Working length: 40 x Ø 0.5 mm



670-02260

■ Working length: 40 x Ø 0.5 mm

■ angular



670-02270

Spatula electrode

■ Working length: 24 x 3.0 mm

■ oval shape



670-02160

Needle electrode

■ Working length: 29 x Ø 0.8 mm

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02391

Wire loop electrode

■ Ø 5 mm



670-02392

Wire loop electrode

■ Ø 10 mm



670-02401

Ball electrode

■ Ø 2 mm



670-02402

Ball electrode

■ Ø 4 mm



670-02403

Ball electrode

■ Ø 6 mm



670-02413

Needle electrode

■ Working length: 12 x 0.8 mm



670-02416

Needle electrode

■ Working length: 12 x 0.8 mm

■ angular

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02420

Knife electrode

■ Working length: 10 x Ø 2.4 mm



670-02430

Knife electrode

■ Working length: 10 x Ø 2.4 mm



670-02426

Knife electrode

■ Working length: 25 x Ø 3.3 mm



670-02427

Knife electrode

■ Working length: 20 x Ø 3.3 mm



670-02428

Knife electrode

■ Working length: 20 x Ø 2.4 mm



670-02440

Lancet electrode

■ Working length: Ø 20 x 1.6 mm
■ fine



670-02446

Lancet electrode

■ Working length: Ø 20 x 2.2 mm
■ strong

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02320

Spatula electrode

- Working length: 15 x 16 x 2 mm
- flexible



670-02460

Wire loop electrode

- 10 x 10 mm



670-02501

Wire loop electrode

- 15 x 15 mm



670-02500

Wire loop electrode

- 15 x 20 mm



670-02510

Wire loop electrode

- 20 x 20 mm

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02520

Wire loop electrode

■ 25 x 20 mm



670-02580

Wire loop electrode

■ Ø 10 mm



670-02590

Wire loop electrode

■ Ø 15 mm



670-02600

Wire loop electrode

■ Ø 20 mm



670-02610

Wire loop electrode

■ Ø 25 mm

ACTIVE MONOPOLAR ELECTRODES

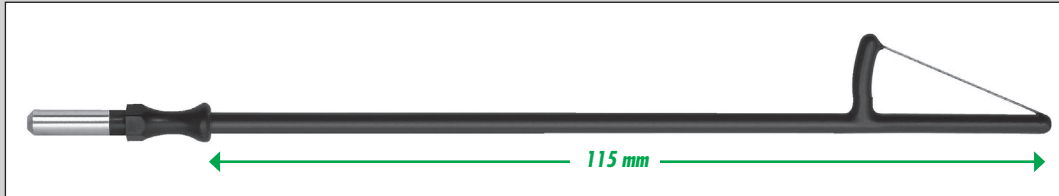
Products

Order-No.

Description

Ø 4.0 mm

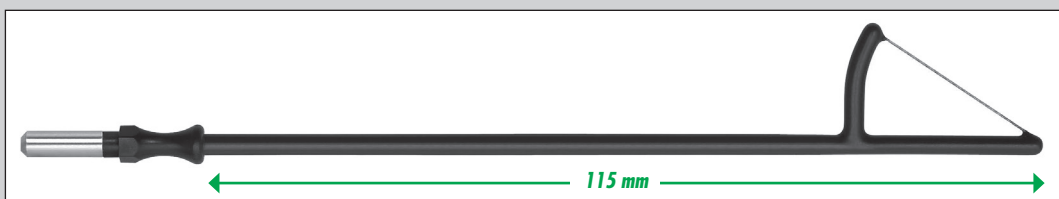
reusable · autoclavable 134°C



670-02640

Wire loop electrode

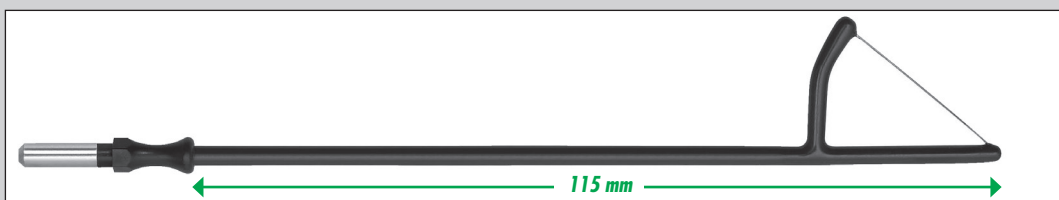
■ Working length: 25 x 10 mm



670-02620

Wire loop electrode

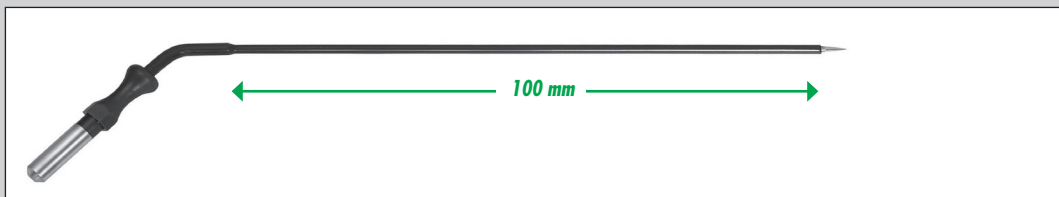
■ Working length: 25 x 15 mm



670-02630

Wire loop electrode

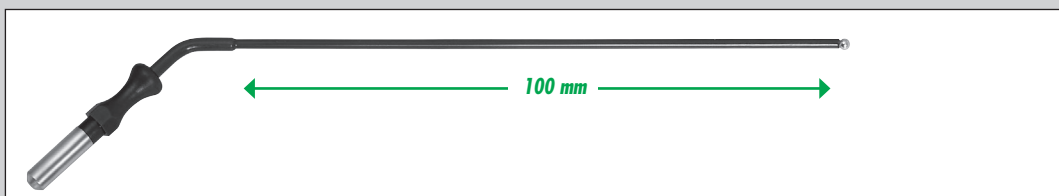
■ Working length: 25 x 20 mm



670-02700

Coagulation needle

■ Working length: Ø 1.2 mm



670-02710

Ball electrode

■ Working length: Ø 2 mm

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02750

Extension of electrode

■ Working length: 100 mm with 4 mm



670-02755

Extension of electrode

■ Working length: 150 mm with 4 mm



670-02935

Chuck

■ from 4 mm to 2.4 mm



670-02936

Chuck

■ from 4 mm to 1.6 mm

ACTIVE MONOPOLAR STEEL-ELECTRODES

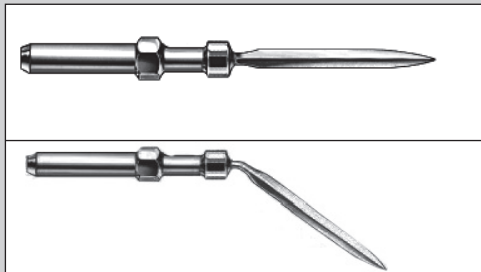
Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



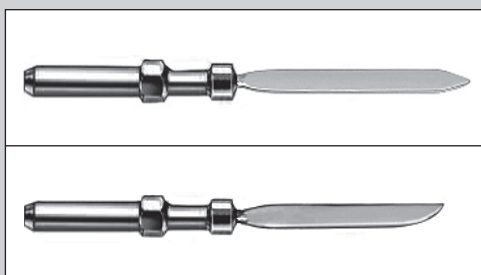
670-01010

Lancet electrode

- Working length: 25 x 2.4 mm

670-01020

- Working length: 19 x 1.8 mm
- angular



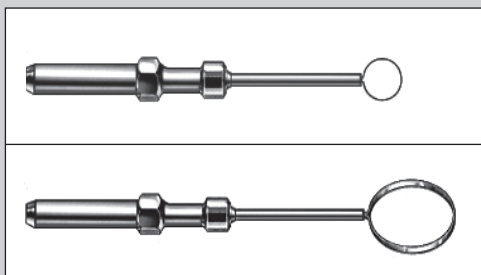
670-01040

Knife electrode

- Working length: 25 mm

670-01050

- Working length: 25 mm
- cutting edge sideways



670-01090

Wire loop electrode

- Ø 5 mm
- Ø 10 mm

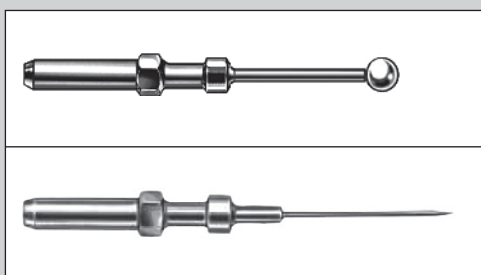
670-01100

670-01120

Ribbon loop electrode

- Ø 10 mm
- Ø 15 mm

670-01130



670-01140

Ball electrode

- Ø 2.5 mm
- Ø 4.0 mm
- Ø 5.0 mm

670-01150

670-01160

Needle electrode

- Working length: 22 mm
- Working length: 30 mm

670-01080

670-01081

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 2.4 mm

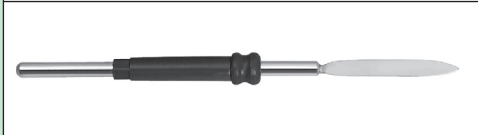
reusable · autoclavable 134°C



670-03000

Spatula electrode

■ Working length: 20 x 2.5 mm



670-03010

Knife electrode

■ Working length: 20 x 2.5 mm



670-03051

Ball electrode

■ Ø 2.0 mm



670-03052

■ Ø 4.0 mm



670-03053

Ball electrode

■ Ø 6.0 mm



670-03058

■ Ø 2.0 mm

■ angular

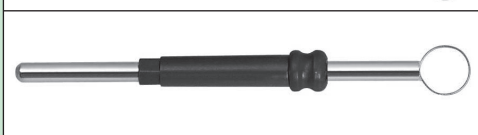


670-03059

Ball electrode

■ Ø 4.0 mm

■ angular



670-03061

Wire loop electrode

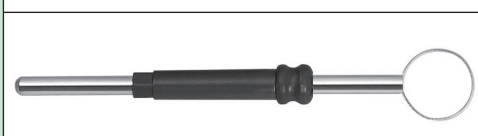
■ Ø 5.0 mm



670-03062

Wire loop electrode

■ Ø 10.0 mm



670-03063

■ Ø 14.0 mm

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description



670-03072

Ribbon loop electrode

■ Ø 10.0 mm



670-03073

Ribbon loop electrode

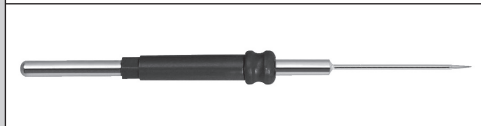
■ Ø 14 mm



670-03031

Needle electrode

■ Working length: 20 x Ø 0.5 mm



670-03032

■ Working length: 20 x Ø 0.7 mm



670-03230

Tungsten electrode

■ Working length: 20 x Ø 0.5 mm



670-03240

■ Working length: 20 x Ø 0.5 mm
■ angular



670-03038

Tungsten electrode

■ Working length: 5 x Ø 0.5 mm
■ with ceramic

Ø 2.4 mm

reusable · autoclavable 134°C

ACTIVE MONOPOLAR ELECTRODES

Products

Order-No.

Description

Ø 2.4 mm

reusable · autoclavable 134°C



670-03441

Ball electrode

■ Ø 2.0 mm



670-03442

■ Working length:

■ Ø 4.0 mm



670-03400

Spatula electrode

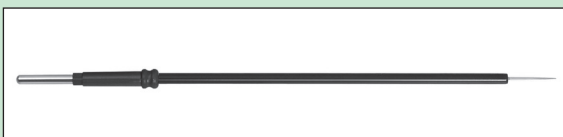
■ Working length:
20 x 2.5 mm



670-03410

Knife electrode

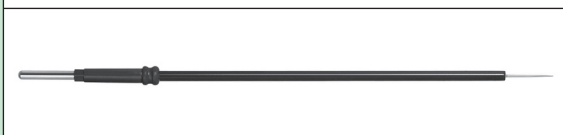
■ Working length:
20 x 2.5 mm



670-03421

Needle electrode

■ 12 x Ø 0.5 mm



670-03422

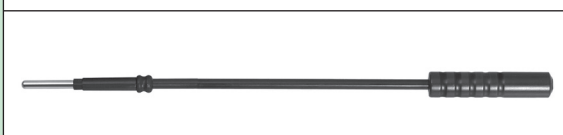
■ 12 x Ø 0.7 mm



670-03390

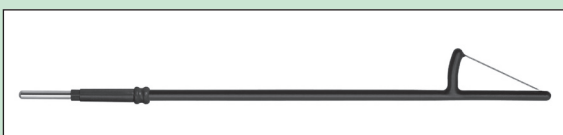
Extension for electrodes

■ Working length:
100 mm
■ with 2.4 mm



670-03395

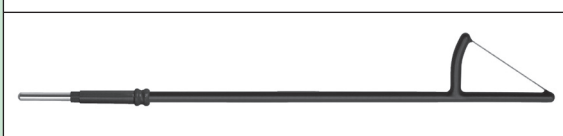
■ Working length:
100 mm
■ with 2.4 mm



670-03640

Wire loop electrode

■ Ø 10.0 mm



670-03620

■ Ø 14.0 mm

ACTIVE MONOPOLAR ELECTRODES

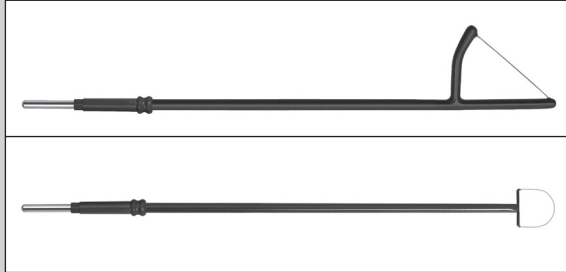
Products

Order-No.

Description

Ø 2.4 mm

reusable · autoclavable 134°C



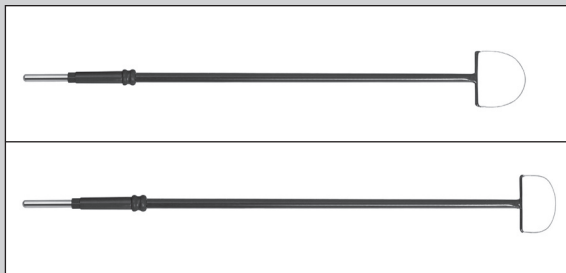
670-03630

Wire loop electrode

■ Working length:
25 x 20 mm

670-03460

■ Working length:
10 x 10 mm



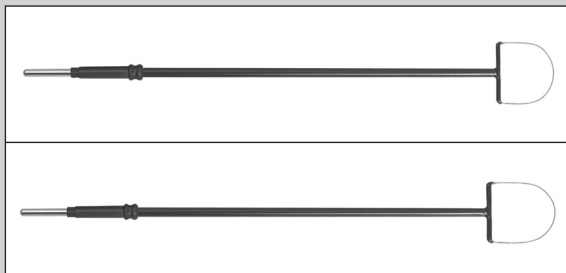
670-03501

Wire loop electrode

■ Working length:
15 x 15 mm

670-03500

■ Working length:
20 x 15 mm



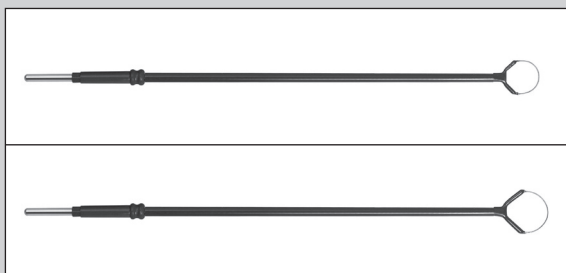
670-03510

Wire loop electrode

■ Working length:
20 x 20 mm

670-03520

■ Working length:
20 x 25 mm



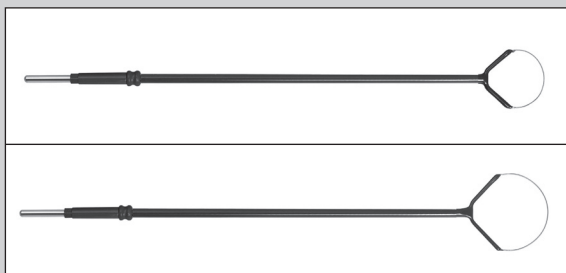
670-03580

Wire loop electrode

■ Ø 10.0 mm

670-03590

■ Ø 15.0 mm



670-03600

Wire loop electrode

■ Ø 20.0 mm

670-03610

■ Ø 25.0 mm

ELECTRODES FOR THE PLASTIC SURGERY

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02900

Needle electrode

- Working length: 30 x 0.25 mm
- Flexible tungsten



670-02840

Wire loop electrode

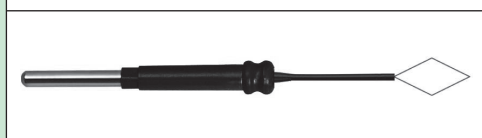
- Triangular
- Flexible tungsten



670-02841

Wire loop electrode

- Triangular shape
- Working length: 9 mm
- Flexible tungsten: 0.2 mm



670-02842

- Rhombic shape
- Flexible tungsten



670-02843

Wire loop electrode

- Working length: Ø 5 x 0.2 mm
- Flexible tungsten



670-02844

- Working length: Ø 8 x 0.2 mm
- Flexible tungsten



670-02810

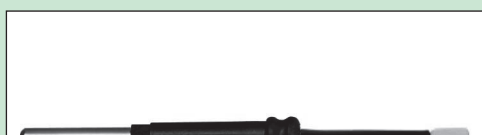
Ball electrode

- Ø 1.0 mm



670-02830

- Ø 1.0 mm



670-02820

Spatula electrode

- Working length: 6 x 2 mm
- Flexible

ELECTRODES FOR THE PLASTIC SURGERY

Products

Order-No.

Description

Ø 2.4 mm

reusable · autoclavable 134°C



670-03900

Needle electrode

- Working length: 20 x 2.5 mm
- flexible tungsten



670-03840

Wire loop electrode

- Working length: 7 x Ø 0.2 mm



670-03841

Wire loop electrode

- Working length: 9 x 0.2 mm
- triangular
- flexible tungsten



670-03842

- rhombic shape
- flexible tungsten



670-03843

Wire loop electrode

- Working length: 5 x 0.2 mm
- flexible tungsten



670-03844

- Working length: 8 x 0.2 mm
- flexible tungsten



670-03810

Ball electrode

- Ø 1.0 mm
- angular



670-03830

Wire loop electrode

- Ø 3.0 mm
- flexible



670-03820

Spatula electrode

- flexible

MICRODISSECTION NEEDLE-ELECTRODES

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02861

Microdissection needle electrode

■ Working length: 115 x Ø 0.25 mm ■ Flexible tungsten



670-02862

Microdissection needle electrode

■ Working length: 115 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-02863

Microdissection needle electrode

■ Working length: 80 x Ø 0.25 mm ■ Flexible tungsten



670-02864

Microdissection needle electrode

■ Working length: 80 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-02865

Microdissection needle electrode

■ Working length: 45 x Ø 0.25 mm ■ Flexible tungsten



670-02866

Microdissection needle electrode

■ Working length: 45 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-02900

Microdissection needle electrode

■ Working length: 30 x Ø 0.25 mm ■ Flexible tungsten



670-02905

Microdissection needle electrode

■ Working length: 30 x Ø 0.25 mm ■ Flexible tungsten ■ Angular

MICRODISSECTION NEEDLE-ELECTRODES

Products

Order-No.

Description

Ø 2.4 mm

reusable · autoclavable 134°C



670-38611

Microdissection needle electrode

■ Working length: 180 x Ø 0.25 mm ■ Flexible tungsten



670-38612

Microdissection needle electrode

■ Working length: 180 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-03869

Microdissection needle electrode

■ Working length: 160 x Ø 0.25 mm ■ Flexible tungsten



670-38610

Microdissection needle electrode

■ Working length: 160 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-03861

Microdissection needle electrode

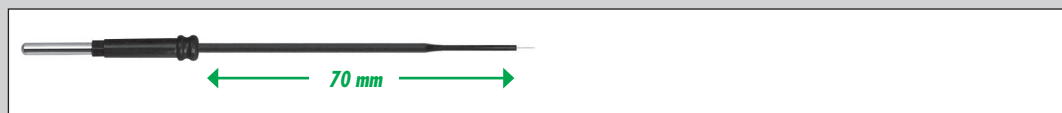
■ Working length: 105 x Ø 0.25 mm ■ Flexible tungsten



670-03862

Microdissection needle electrode

■ Working length: 105 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-03863

Microdissection needle electrode

■ Working length: 70 x Ø 0.25 mm ■ Flexible tungsten



670-03864

Microdissection needle electrode

■ Working length: 70 x Ø 0.25 mm ■ Flexible tungsten ■ Angular

MICRODISSECTION NEEDLE-ELECTRODES

Products

Order-No.

Description

Ø 2.4 mm

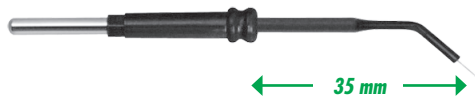
reusable · autoclavable 134°C



670-03867

Microdissection needle electrode

■ Working length: 35 x Ø 0.25 mm ■ Flexible tungsten



670-03868

Microdissection needle electrode

■ Working length: 35 x Ø 0.25 mm ■ Flexible tungsten ■ Angular



670-03900

Microdissection needle electrode

■ Working length: 20 x Ø 0.25 mm ■ Flexible tungsten



670-03905

Microdissection needle electrode

■ Working length: 20 x Ø 0.25 mm ■ Flexible tungsten ■ Angular

NEEDLE-ELECTRODES WITH CERAMIC

Products

Order-No.

Description

Ø 4.0 mm

reusable · autoclavable 134°C



670-02871

Tungsten electrode

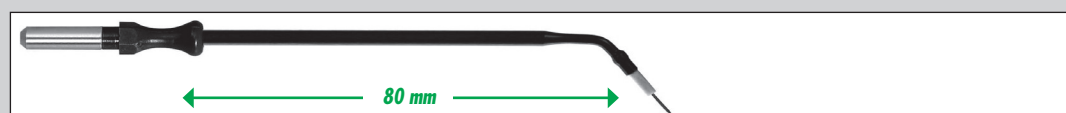
■ Working length: 115 x 4 x Ø 0.5 mm ■ With ceramic ■ Angular



670-02872

Tungsten electrode

■ Working length: 115 x 4 x Ø 0.5 mm ■ With ceramic



670-02873

Tungsten electrode

■ Working length: 80 x 4 x Ø 0.5 mm ■ With ceramic ■ Angular



670-02874

Tungsten electrode

■ Working length: 80 x 4 x Ø 0.5 mm ■ With ceramic



670-02875

Tungsten electrode

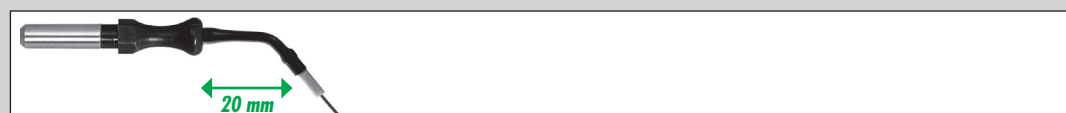
■ Working length: 45 x 4 x Ø 0.5 mm ■ With ceramic ■ Angular



670-02876

Tungsten electrode

■ Working length: 45 x 4 x Ø 0.5 mm ■ With ceramic



670-02877

Tungsten electrode

■ Working length: 20 x 4 x Ø 0.5 mm ■ With ceramic ■ Angular



670-02878

Tungsten electrode

■ Working length: 20 x 4 x Ø 0.5 mm ■ With ceramic

NEEDLE-ELECTRODES WITH CERAMIC

Products

Order-No.

Description

Ø 2.4 mm

reusable · autoclavable 134°C



670-03871

Tungsten electrode

■ Working length: 105 x 5 x Ø 0.5 mm ■ With ceramic ■ Angular



670-03872

Microdissection needle electrode

■ Working length: 105 x 5 x Ø 0.5 mm ■ With ceramic



670-03873

Microdissection needle electrode

■ Working length: 70 x 5 x Ø 0.5 mm ■ With ceramic ■ Angular



670-03874

Microdissection needle electrode

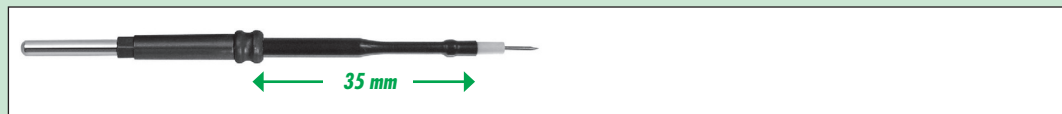
■ Working length: 70 x 5 x Ø 0.5 mm ■ With ceramic



670-03875

Microdissection needle electrode

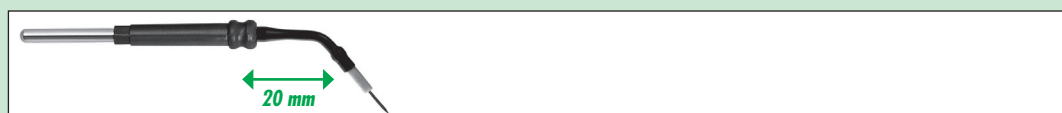
■ Working length: 35 x 5 x Ø 0.5 mm ■ With ceramic ■ Angular



670-03876

Microdissection needle electrode

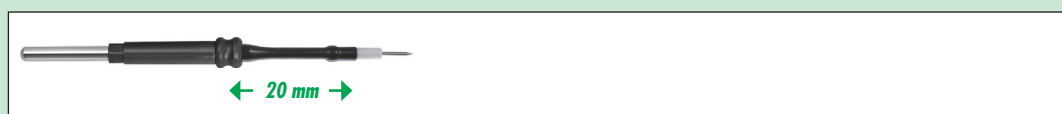
■ Working length: 35 x 5 x Ø 0.5 mm ■ With ceramic



670-03877

Microdissection needle electrode

■ Working length: 20 x 5 x Ø 0.5 mm ■ With ceramic ■ Angular



670-03878

Microdissection needle electrode

■ Working length: 20 x 5 x Ø 0.5 mm ■ With ceramic

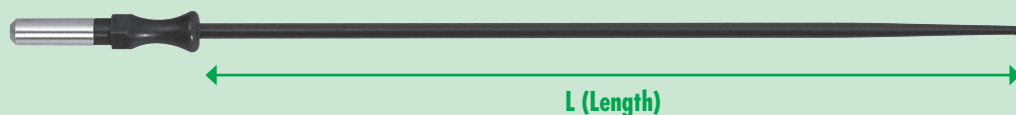
MONOPOLAR ARTHROSCOPY ELECTRODES

Products	Order-No.	Description
	670-08001	Needle electrode ■ Working length: 115 x 1.5 x Ø 0.6 mm ■ Angular 90° ■ With handle
	670-08002	Needle electrode ■ Working length: 115 x 4 x Ø 0.6 mm ■ Angular 90° ■ With handle
	670-08004	Knife electrode ■ Working length: 115 x 4 x Ø 1.5 mm ■ Angular 90° ■ With handle
	670-08005	Button electrode ■ Working length: 115 x 4 x Ø 1.5 mm ■ Angular 90° ■ With handle
	670-08007	Ball electrode ■ Working length: 115 x Ø 3 mm ■ Angular 90° ■ With handle

Ø 4.0 mm

reusable · autoclavable 134°C

MONOPOLAR ARTHROSCOPY ELECTRODES



Ø 4.0 mm/Ø 2.4 mm

reusable · autoclavable 134°C

- Monopolar arthroscopy electrodes
- Insulated
- For Ø 4.0 mm and Ø 2.4 mm pen

E.g. ERBE-, Bowa-,
Berchthold-
compatible



4.0 mm

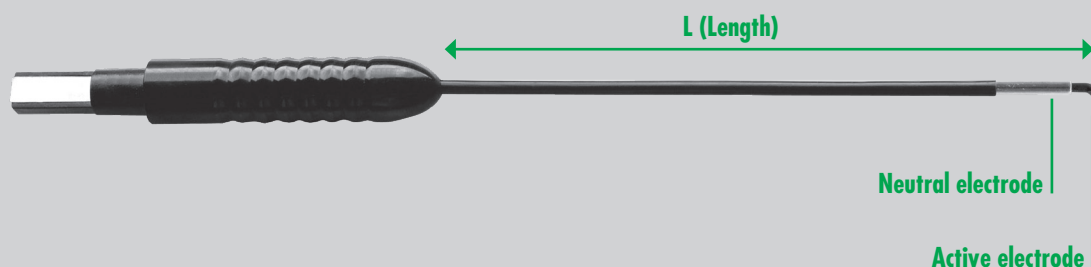
International, e.g.
Arthrex-, Linvatec-
compatible



2.36 mm

Products	Order-No.	Order-No.	» L «	Description
	670-08021	670-08051	115 mm	Needle electrode ■ Working length: 1.5 x Ø 0.6 mm ■ Angular 90°
	670-08022	670-08052	115 mm	Hollow ball electrode ■ Working length: 4.0 x Ø 0.6 mm ■ Angular 90°
	670-08025	670-08055	115 mm	Button electrode ■ Working length: 4.0 x Ø 1.5 mm
	670-08027	670-08057	115 mm	Ball electrode ■ 3.0 mm
	670-08028	670-08058	115 mm	Hollow ball electrode
	670-08029	670-08059	115 mm	Flat electrode
	670-08026	670-08056	115 mm	Brush electrode

BIPOLAR ARTHROSCOPY ELECTRODES



Ø 16.0 mm/ Ø 12.0 mm

reusable · autoclavable 134°C

Longversion 170 mm



Shortversion 115 mm



Order-No.

Order-No.

Products

Description

670-08717

670-08716



Bipolar vaporisation electrode „Vap“

■ With ceramic isolation

170 mm

115 mm

670-08714

670-08711



Bipolar vaporisation electrode „Phazer“

170 mm

115 mm

670-08703

670-08701



Bipolar hook electrode

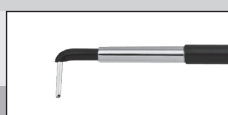
■ Working length: 1.5 x 0.6 mm

170 mm

115 mm

670-08706

670-08702



Bipolar hook electrode

■ Working length: 4.0 x 0.6 mm

170 mm

115 mm

670-87010

670-08709



Bipolar loop electrode „Cobra“

170 mm

115 mm

ACCESSORIES

LAPAROSCOPIC ELECTRODES WITH CERAMIC INSULATED



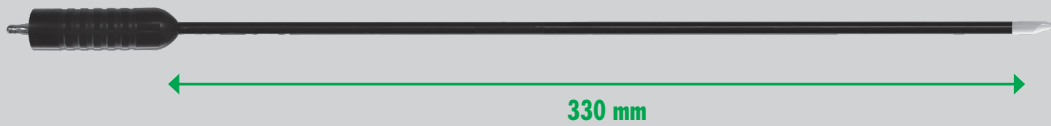
Ø 4.0 mm

reusable · autoclavable 134°C

- Electrodes with ceramic
- Fully insulated
- Elect. connector: 4 mm plug

Products	Order-No.	Description
For handles with switch Ø 4.0 mm	670-07113	Spatula electrode ■ Working length: 330 mm
	670-07115	L-hook electrode ■ Working length: 330 mm
	670-07114	J-hook electrode ■ Working length: 330 mm
	670-07117	Button electrode ■ Working length: 330 mm

LAPAROSCOPIC ELECTRODES WITH CERAMIC INSULATED



Longversion 170 mm



Shortversion 115 mm



Order-No.

Order-No.

Products

Description

670-07093

670-07103



Spatula electrode

330 mm

330 mm

670-07095

670-07105



L-hook electrode

330 mm

330 mm

670-07094

670-07104



J-hook electrode

330 mm

330 mm

670-07097

670-07107



Button electrode

330 mm

330 mm

Ø 4.0 mm

reusable · autoclavable 134°C

- Electrodes with ceramic
- Fully insulated
- Elect. connector: 4 mm plug

LAPAROSCOPIC ELECTRODES WITH CERAMIC INSULATED



Ø 4.0 mm

reusable · autoclavable 134°C

- Electrodes with ceramic
- Fully insulated
- With suction
- Elect. connector: 4 mm plug

Products	Order-No.	Description
60 mm Ø 16.0 mm	670-07153	Spatula electrode ■ Working length: 330 mm
	670-07154	L-hook electrode ■ Working length: 330 mm
	670-07155	J-hook electrode ■ Working length: 330 mm

HF-PENCILS

Products

Order-No.

Description



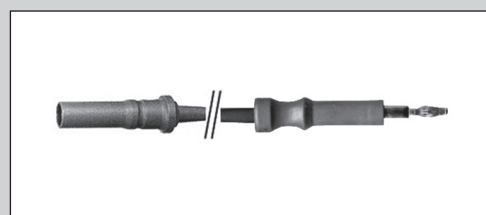
670-92047

HF-pencil

- For Ø 4 mm shaft-electrodes
- ERBE compatible

670-92048

- For Ø 2.4 mm shaft-electrodes
- ERBE compatible



670-92070

HF-pencil-cable

- 4 m
- ERBE compatible

670-92071

- 5 m
- ERBE compatible



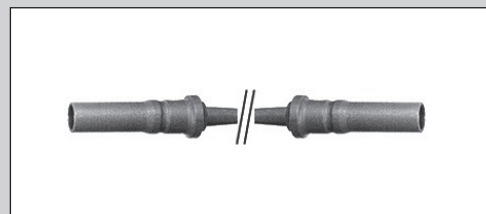
670-92043

HF-pencil

- For Ø 4 mm shaft-electrodes
- Integra, Berchtold compatible

670-92044

- For Ø 2.4 mm shaft-electrodes
- Integra, Berchtold compatible



670-92041

HF-pencil-cable

- 4 m
- Integra, Berchtold compatible

670-92040

- 5 m
- Integra, Berchtold compatible

Ø 4.0 mm/ Ø 2.4 mm

reusable · autoclavable 134°C

HF-PENCIL – ECON LINE



Products

Order-No.

Description

ERBE ICC/ACC 	670-92746 670-92747	Unit connecting ■ 3.0 m ■ 5.0 m
Berchtold/Integra 	670-92741 670-92743	Unit connecting ■ 3.0 m ■ 5.0 m
International models 3 pol 	670-92740 670-92745	Unit connecting ■ 3.0 m ■ 5.0 m

ERBE ICC/ACC 	670-92750 670-92751	Unit connecting ■ 3.0 m ■ 5.0 m
Berchtold/Integra 	670-92749 670-92748	Unit connecting ■ 3.0 m ■ 5.0 m
International models 3 pol 	670-92742 670-92744	Unit connecting ■ 3.0 m ■ 5.0 m

Ø 4.0 mm

reusable · autoclavable 134°C

- Fingerswitch for Ø 4.0 shaft-electrodes
- Cable integrated
- With 2 buttons

Ø 2.4 mm

reusable · autoclavable 134°C

- Fingerswitch for Ø 2.4 shaft-electrodes
- Cable integrated
- With 2 buttons

HF-PENCILS – PREMIUM LINE



Ø 4.0 mm

reusable · autoclavable 134°C

- Fingerswitch for Ø 4.0 shaft-electrodes
- Cable integrated
- With 2 buttons

Products

Order-No.

Description

 ERBE ICC/ACC	670-92247	Unit connecting ■ 5.0 m
 Berchtold/Integra	670-92243	Unit connecting ■ 5.0 m
 International models 3 pol	670-92245	Unit connecting ■ 5.0 m
 ERBE ICC/ACC	670-92251	Unit connecting ■ 5.0 m
 Berchtold/Integra	670-92248	Unit connecting ■ 5.0 m
 International models 3 pol	670-92244	Unit connecting ■ 5.0 m

Ø 2.4 mm

reusable · autoclavable 134°C

- Fingerswitch for Ø 2.4 shaft-electrodes
- Cable integrated
- With 2 buttons

HF-CABLES

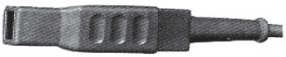
Products

Order-No.

Description

Bipolar

reusable · autoclavable 134°C

Bipolar forceps cable  ■ Bipolar ■ For: ERBE, Bowa, Berchtold, Integra, Bissinger	ERBE ICC/ACC 	670-92015 670-92016	Unit connecting ■ 3.0 m ■ 5.0 m
	Berchtold/Integra 	670-92017 670-92018	Unit connecting ■ 3.0 m ■ 5.0 m
	US-models 2 pol 	670-92021 670-92022	Unit connecting ■ 3.0 m ■ 5.0 m
	International models 2 pol 	670-92019 670-92020	Unit connecting ■ 3.0 m ■ 5.0 m
Bipolar forceps cable  ■ Bipolar ■ For: ERBE, Bowa, Berchtold, Integra, Bissinger	ERBE ICC/ACC 	670-92023 670-92024	Unit connecting ■ 3.0 m ■ 5.0 m
	Berchtold/Integra 	670-92025 670-92026	Unit connecting ■ 3.0 m ■ 5.0 m
	US-models 2 pol 	670-92027 670-92028	Unit connecting ■ 3.0 m ■ 5.0 m
	International models 2 pol 	670-92029 670-92030	Unit connecting ■ 3.0 m ■ 5.0 m
Bipolar forceps cable  ■ Bipolar ■ For: ERBE, Bowa, Berchtold, Integra, Bissinger	ERBE ICC/ACC 	670-92190	Unit connecting ■ 5.0 m
	Berchtold/Integra 	670-92192	Unit connecting ■ 5.0 m
	US-models 2 pol 	670-92194	Unit connecting ■ 5.0 m
	International models 2 pol 	670-92196	Unit connecting ■ 5.0 m

HF-CABLES

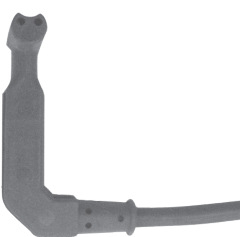
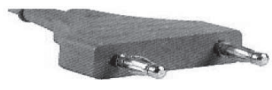
Products

Order-No.

Description

Bipolar

reusable · autoclavable 134°C

Bipolar forceps cable  ■ Bipolar ■ US-models	ERBE ICC/ACC 	670-92110 670-92111	Unit connecting ■ 3.0 m ■ 5.0 m
	Berchtold/Integra 	670-92113 670-92092	Unit connecting ■ 3.0 m ■ 5.0 m
	US-models 2 pol 	670-92114 670-92093	Unit connecting ■ 3.0 m ■ 5.0 m
	International models 2 pol 	670-92115 670-92094	Unit connecting ■ 3.0 m ■ 5.0 m
Powerstar Scissor Ethicon 	ERBE ICC/ACC 	670-92066	Unit connecting ■ 5.0 m
	Berchtold/Integra 	670-92068	Unit connecting ■ 5.0 m
	US-models 2 pol 	670-92069	Unit connecting ■ 5.0 m
	International models 2 pol 	670-92067	Unit connecting ■ 5.0 m
Bipolar Resectoscope Cable  ■ Storz compatible ■ Angled	ERBE ICC/ACC 	670-92205 670-92206	Unit connection ■ 3.0 m, angled ■ 5.0 m, angled
	Berchtold/Integra 	670-92207 670-92208	■ 3.0 m, angled ■ 5.0 m, angled
	International models 2 pol 	670-92209 670-92210	■ 3.0 m, angled ■ 5.0 m, angled

HF-CABLES

Products

Order-No.

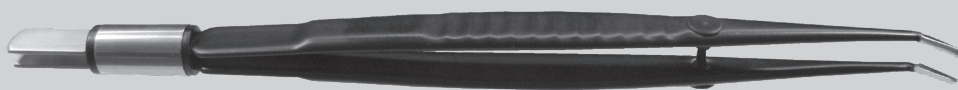
Description

Monopolar

reusable · autoclavable 134°C

Resectoscope 	Monopolar cable 4 mm 	670-92009 670-92010	Unit connecting ■ 3.0 m ■ 5.0 m
	Monopolar cable ERBE ICC/ACC 	670-92011 670-92012	Unit connecting ■ 3.0 m ■ 5.0 m
Neutral electrode 	ERBE/Integra 	670-92077 670-92076	Unit connecting ■ 3.0 m ■ 5.0 m
Neutral electrode 	ERBE/Integra 	670-92078 670-92039	Unit connecting ■ 3.0 m ■ 5.0 m
Monopolar cable 4mm 	Monopolar cable 4mm 	670-92004 670-92005	Unit connecting ■ 3.0 m ■ 5.0 m
Monopolar cable ERBE 	Monopolar cable ERBE 	670-92002 670-92003	Unit connecting ■ 3.0 m ■ 5.0 m
Handle cable Integra 	HF-unit Integra 	670-92041 670-92040	Unit connecting ■ 4.0 m ■ 5.0 m
Handle cable ERBE 	HF-unit ERBE ICC/ACC 	670-92070 670-92071	Unit connecting ■ 4.0 m ■ 5.0 m

BIPOLAR FORCEPS



Length

Products

Order-No.

	Length 160 mm	Length 180 mm	Length 195mm	Length 220 mm
Tip width needle	670-95036	670-95187	670-95103	670-950128
Tip width needle 0.5 mm	670-95013	670-95089	670-95104	670-95122
Tip width needle 1.0 mm	670-95014	670-95090	670-95001	670-95024
Tip width needle 2.0 mm	-	670-95088	670-95007	670-95125
Tip width needle 2.0 mm diamond	-	-	670-95058	-



Length

Products

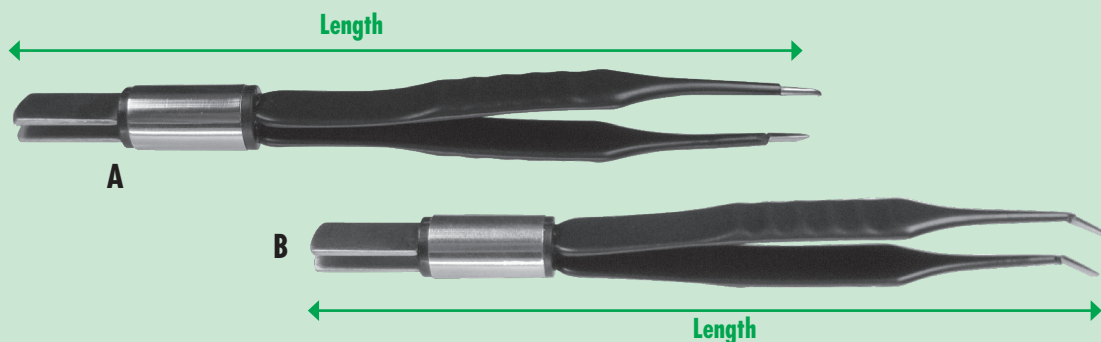
Order-No.

	Length 165 mm	Length 180 mm	Length 195mm	Length 220 mm
Tip width needle	670-95116	670-95194	670-95008	670-950128
Tip width needle 0.5 mm	670-95017	670-95092	670-95109	670-95122
Tip width needle 1.0 mm	670-95018	670-95091	670-95002	670-95131
Tip width needle 2.0 mm	-	670-95093	670-95034	670-95132
Tip width needle 2.0 mm diamond	-	-	670-95059	-

Bipolar

reusable - autoclavable 134°C

BIPOLAR FORCEPS



Bipolar

reusable - autoclavable 134°C

Products

Order-No.

	A	B
	Length 110 mm	Length 110 mm
Tip width needle	670-95019	670-95103
Tip width needle 0.5 mm	670-95020	670-95104

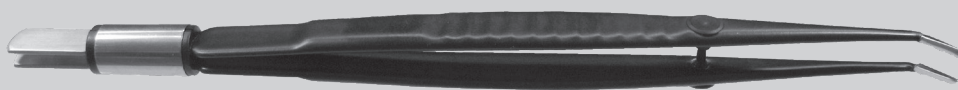


Products

Order-No.

	Length 160 mm	Length 180 mm	Length 195 mm	Length 220 mm
Tip width needle	670-95011	670-95181	670-95112	670-950113
Tip width needle 0.5 mm	670-95170	670-95171	670-95037	670-95172
Tip width needle 1.0 mm	670-95039	670-95180	670-95178	-
Tip width needle 2.0 mm	670-95027	670-95178	670-95029	670-95030
Tip width needle 2.0 mm diamond	-	-	670-95057	-

BIPOLAR FORCEPS



Length

Products

Order-No.

	Length 160 mm	Length 180 mm	Length 195mm	Length 220 mm
Tip width needle	670-95036	670-95187	670-95103	670-950128
Tip width needle 0.5 mm	670-95013	670-95089	670-95104	670-95122
Tip width needle 1.0 mm	670-95014	670-95090	670-95001	670-95024
Tip width needle 2.0 mm	-	670-95088	670-95007	670-95125
Tip width needle 2.0 mm diamond	-	-	670-95058	-



Length

Products

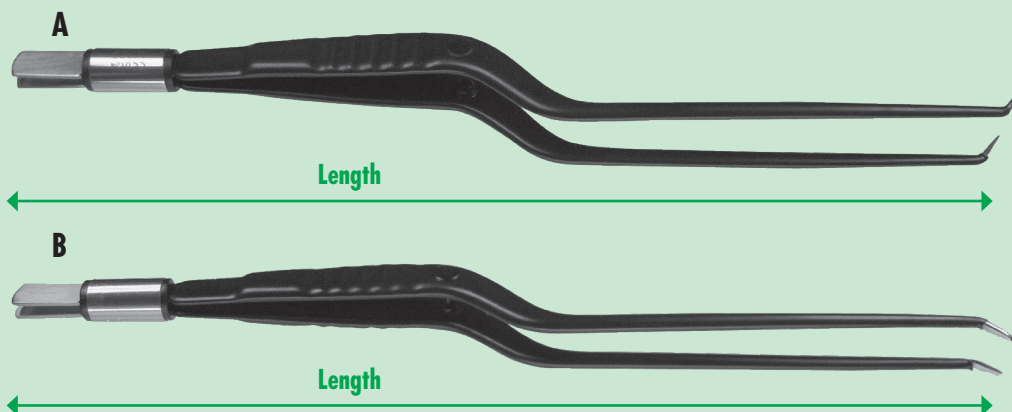
Order-No.

	Length 165 mm	Length 180 mm	Length 195mm	Length 220 mm
Tip width needle	670-95116	670-95194	670-95008	670-950128
Tip width needle 0.5 mm	670-95017	670-95092	670-95109	670-95122
Tip width needle 1.0 mm	670-95018	670-95091	670-95002	670-95131
Tip width needle 2.0 mm	-	670-95093	670-95034	670-95132
Tip width needle 2.0 mm diamond	-	-	670-95059	-

Bipolar

reusable - autoclavable 134°C

BIPOLAR FORCEPS



Bipolar

reusable - autoclavable 134°C

Products

Order-No.

	A	A	B	B
	Length 195 mm	Length 220 mm	Length 195 mm	Length 220 mm
Tip width needle 1.0 mm	670-95026	670-95163	670-95065	670-95067

REUSABLE RUBBER ELECTRODE

Products

Order-No.

Description

Neutral electrode  ■ Monopolar ■ Size: 260 x 150 mm ■ 0.5 m ■ ERBE	ERBE ICC/ACC 	670-92308	Neutral electrode
		670-92344	Cables ■ 3.0 m ■ ERBE ICC/ACC
		670-92345	■ 5.0 m ■ ERBE ICC/ACC
Neutral electrode  ■ Monopolar ■ Size: 160 x 80 mm ■ 0.5 m ■ ERBE	ERBE ICC/ACC 	670-92316	Neutral electrode
		670-92344	Cables ■ 3.0 m ■ ERBE ICC/ACC
		670-92345	■ 5.0 m ■ ERBE ICC/ACC

Monopolar

reusable - autoclavable 134°C

REUSABLE RUBBER ELECTRODE

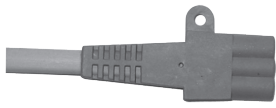
Products

Order-No.

Description

Monopolar

reusable · autoclavable 134°C

Neutral electrode  ■ Monopolar ■ Size: 260 x 150 mm ■ 0.5 m	Neutral electrode  ERBE ICC/ACC  Valleylab, Comned, Bowa 	670-92342 Neutral electrode 670-92077 Cables ■ 3.0 m ■ ERBE ICC/ACC 670-92076 ■ 5.0 m ■ ERBE ICC/ACC 670-92108 ■ 3.0 m ■ Valleylab, Comned, Bowa 670-92109 ■ 5.0 m ■ Valleylab, Comned, Bowa
Neutral electrode  ■ Monopolar ■ Size: 160 x 80 mm ■ 0.5 m	Neutral electrode  ERBE ICC/ACC  Valleylab, Comned, Bowa 	670-92343 Neutral electrode 670-92077 Cables ■ 3.0 m ■ ERBE ICC/ACC 670-92076 ■ 5.0 m ■ ERBE ICC/ACC 670-92108 ■ 3.0 m ■ Valleylab, Comned, Bowa 670-92109 ■ 5.0 m ■ Valleylab, Comned, Bowa

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