



HF – Surgery-Generators

HF – Vessel Sealing

HF – Argon Beam

16

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## HF SURGICAL GENERATOR – VESSEL SEAL – ARGON

PLATINUM LINE	
Specification	16-2002-400
Main supply	220V
Power input	500 W
Frequency	50 Hz
Operation frequency	416 kHz
Safety class/type	I/CF
Dimensions (h x w x d)	420 x 380 x 160 mm
Weight	9 kg
Patient Circuit	Floating type
Leakage current in conformity of	DIN IEC 60601-2-2

Rating power of generator	
Pure cutting	350 W/300 Ohm
Coagulating cut 1	150 W/300 Ohm
Soft coagulation	180 W/150 Ohm
Forced coagulation	180 W/300 Ohm
Spray coagulation	150 W/1500 Ohm
Argon coagulation	150 W/1500 Ohm
Bicoagulation	120 W/40 Ohm
Bipolar cut	100 W/300 Ohm

## Additional Features for 16-2002-400

- ▶ Its function is to control gas flow and pressure, gas availability, from the bottle and from the diathermy operations
- ▶ Three pin international standard of monopolar handle (Valleylab®, ERBE® Int.)
- ▶ Two pin international standard for bipolar handle (as above)
- ▶ Standard 6,3 mm neutral electrode socket
- ▶ Power step distinction – small power (1VA steps) and higher power (5 VA)
- ▶ CF protection class and are defibrillator proof
- ▶ All certificates
- ▶ Neutral electrode control circuit
- ▶ Overload protection
- ▶ Bipolar automatic start
- ▶ Bipolar time driven stop
- ▶ Protection against wrong connection
- ▶ TUR cut
- ▶ Programming/ 10 complete settings
- ▶ Easy to use and preset

- 16-2002-400** High frequency surgical unit. Monopolar and Bipolar with integrated ARGON BEAM and vessel sealing system.
- Unique HF-Argon beam coagulation unit with both features of a high quality Argon beam coagulator in the HF surgical unit.



## Accessories

- 16-2000-1217** Double footswitch pedal, 6 Pin  
**SUPPLEMENTARY**



## For every endoscopic and surgical application

16-2002-400; it is a versatile electrosurgery system meeting all the requirements of the operating theatre. It is equipped with spray coagulation options and the memory of 10 settings.

It has also a special cut mode for polypectomy and papillotomy. It is adapted to the TUR procedure, has an integrated ARGON GAS BEAMER DEVICE, well as the possibility of sealing vessels of up to Ø 7 mm.

## HF SURGICAL GENERATOR

PLATINUM LINE	
Specification	16-2000-500
Main supply	230V
Power input	500 W
Frequency	50 Hz
Operation frequency	357 kHz
Safety class/type	I/CF
Dimensions (h x w x d)	420 x 380 x 160 mm
Weight	12 kg
Patient Circuit	Floating type
Leakage current in conformity of	DIN IEC 60601-2-2

Rating power of generator	
Pure cutting	350 W/300 Ohm
Coagulating cut 1	150 W/300 Ohm
Soft coagulation	180 W/150 Ohm
Forced coagulation	180 W/300 Ohm
Spray coagulation	80 W/1500 Ohm
Argon coagulation	80 W/1500 Ohm
Bicoagulation	120 W/40 Ohm
Bipolar cut	100 W/300 Ohm

## Additional Features for 16-2000-500

- ▶ Colour touch screen
- ▶ Different languages available
- ▶ Possibility of storing up to 100 programs under different names
- ▶ Remote program change
- ▶ Special endoscopic modes
- ▶ New monopolar modes
- ▶ ThermoStapler® - bipolar sealing of big blood vessels - up to 7 mm

- 16-2000-500** High frequency surgical unit  
Diathermy / LIG Sure / Argon



## Accessories

- 16-2000-1217** Double footswitch pedal, 6 Pin  
**SUPPLEMENTARY**



## Other systems

- 16-2000-499** Full System including all extensions  
Diathermy / Argon
- 16-2000-498** Full System including all extensions  
Diathermy / LIG Sure
- 16-2000-497** Full System including all extensions  
Diathermy



HF SURGICAL GENERATOR

Specification	16-2000-400
Main supply	220V
Power input	500 W
Frequency	50 Hz
Operation frequency	416 kHz
Safety class/type	I/CF
Dimensions (h x w x d)	420 x 380 x 160 mm
Weight	9 kg
Patient Circuit	Floating type
Leakage current in conformity of	DIN IEC 60601-2-2

Rating power of generator	
Pure cutting	350 W/300 Ohm
Coagulating cut 1	180 W/300 Ohm
Coagulating cut 2	150 W/300 Ohm
TUR	350W
Soft coagulation	180 W/150 Ohm
Forced coagulation	180 W/300 Ohm
Spray coagulation	150 W/1500 Ohm
Bipolar cut	100 W/300 Ohm
Bicoagulation	120 W/40 Ohm

Additional Features for 16-2000-400

- ▶ Three pin international standard of monopolar handle (Valleylab®, ERBE® Int.)
- ▶ Two pin international standard for bipolar handle (as above)
- ▶ Standard 6,3 mm neutral electrode socket
- ▶ Power step distinction – small power (1VA steps) and higher power (5 VA)
- ▶ CF protection class and are defibrillator proof
- ▶ All certificates
- ▶ Neutral electrode control circuit
- ▶ Overload protection
- ▶ Bipolar automatic start / Bipolar time driven stop
- ▶ Protection against wrong connection
- ▶ TUR cut
- ▶ Programming / 10 complete settings
- ▶ Easy to use and preset
- ▶ Two monopolar outlets
- ▶ Two separate settings of coagulation (for each outlet)

16-2000-400 High frequency surgical unit, 350W



Accessories

16-2000-1217 Double footswitch pedal, 6 Pin SUPPLEMENTARY



For every endoscopic and surgical application

16-2000-400; this system has all the features of 16-2000-350. In addition, it is equipped, with an alternative monopolar output with independent settings for coagulation.

HF SURGICAL GENERATOR

Specification	16-2000-350
Main supply	220V
Power input	500 W
Frequency	50 Hz
Operation frequency	416 kHz
Safety class/type	I/CF
Dimensions (h x w x d)	420 x 380 x 160 mm
Weight	9 kg
Patient Circuit	Floating type
Leakage current in conformity of	DIN IEC 60601-2-2

Rating power of generator	
Pure cutting	350 W/300 Ohm
Coagulating cut 1	180 W/300 Ohm
Coagulating cut 2	150W/300 Ohm
TUR	350 W
Soft coagulation	180 W/150 Ohm
Forced coagulation	180 W/300 Ohm
Spray coagulation	150 W/1500 Ohm
Bipolar coagulation	120 W/40 Ohm
Bipolar cutting	100 W/300 Ohm

Additional Features for 16-2000-350

- ▶ Three pin international standard of monopolar handle (Valleylab®, ERBE® Int.)
- ▶ Two pin international standard for bipolar handle (as above)
- ▶ Standard 6,3 mm neutral electrode socket
- ▶ Power step distinction – small power (1VA steps) and higher power (5 VA)
- ▶ CF protection class and are defibrillator proof
- ▶ All certificates
- ▶ Neutral electrode control circuit
- ▶ Overload protection
- ▶ Bipolar automatic start
- ▶ Bipolar time driven stop
- ▶ Protection against wrong connection
- ▶ TUR cut
- ▶ Programming
- ▶ Easy to use and preset
- ▶ 10 complete settings

16-2000-350 High frequency surgical unit, 350W, footswitch 16-2000-1217 **already INCLUDED**



For every endoscopic and surgical application

16-2000-350; it is a versatile elctrosurgery system meeting all the requirements of the operating theatre. It is equipped with spray coagulation options and the memory of 10 settings.

It has also a special cut mode for polypectomy and papillotomy. It is adapted to the TUR procedure.





HF SURGICAL GENERATOR

Specification	16-2000-300
Main supply	230V
Power input	500 W
Frequency	50 Hz
Operation frequency	416 kHz
Safety class/type	I/CF
Dimensions (h x w x d)	340 x 360 x 160 mm
Weight	6 kg
Patient Circuit	Floating type
Leakage current in conformity of	DIN IEC 60601-2-2

Rating power of generator	
Cut	250 W/300 Ohm
Coagulating cut 1	150 W/300 Ohm
Coagulating cut 2	-
Cut in water medium	-
Soft coagulation	150 W/150 Ohm
Forced coagulation	150 W/300 Ohm
Spray coagulation	-
Bipolar cut	99 W/40 Ohm

Additional Features for 16-2000-300

- ▶ Three pin international standard of monopolar handle (Valleylab®, ERBE® Int.)
- ▶ Two pin international standard for bipolar handle (as above)
- ▶ Standard 6,3 mm neutral electrode socket
- ▶ Power step distinction – small power (1VA steps) and higher power (5 VA)
- ▶ CF protection class and are defibrillator proof
- ▶ All certificates
- ▶ Neutral electrode control circuit
- ▶ Overload protection
- ▶ Bipolar automatic start
- ▶ Bipolar time driven stop
- ▶ Protection against wrong connection

**16-2000-300** High frequency surgical unit, 300W Monopolar and bipolar, footswitch 16-2000-1217 **already INCLUDED**



For every endoscopic and surgical application

16-2000-300; it is an universal electrosurgery system designed for the surgery room and most applications in the operating theatre. It meets its tasks in an excellent way in laparoscopic techniques.

HF SURGICAL GENERATOR

Specification	16-2000-120
Main supply	220V/110V
Power input	200 W
Frequency	50 Hz
Operation frequency	416 kHz
Safety class/type	I/CF
Dimensions (h x w x d)	240 x 240 x 100 mm
Weight	3 kg
Patient Circuit	Floating type
Leakage current in conformity of	DIN IEC 60601-2-2

Rating power of generator	
Pure cut	120 W/300 Ohm
Coagulating cut 1	80 W/300 Ohm
Coagulating cut 2	-
Cut in water medium	-
Soft coagulation	80 W/75 Ohm
Forced coagulation	80 W/300 Ohm
Spray coagulation	-
Bipolar cut	100 VA

Additional Features for 16-2000-120

- ▶ Three pin international standard of monopolar handle (Valleylab®, ERBE® Int.)
- ▶ Two pin international standard for bipolar handle (as above)
- ▶ Standard 6,3 mm neutral electrode socket
- ▶ Power step distinction – small power (1VA steps) and higher power (5 VA)
- ▶ CF protection class and are defibrillator proof
- ▶ All certificates

**16-2000-120** High frequency surgical unit, 120W



Accessories

**16-2000-1217-4** Double footswitch pedal, 4 Pin **SUPPLEMENTARY**



Accessories

**16-2000-120-100** Bipolar cable for 16-2000-120



For every endoscopic and surgical application

16-2000-120; it is an universal, high quality diathermy unit of the 16-2000 series from Ackermann®.

It is a versatile system for applications in gynaecology, dermatology and cosmetic treatments as well as for a large number of minor surgical operations.



HF ACCESSORIES



16-2000-1212	Neutral rubber electrode with 5 m connection cable
16-2000-1212D	Neutral rubber electrode with 5 m connection cable, disposable
16-2000-1212SM	Neutral electrode for children, on demand



16-2000-1213	Cable for Neutral rubber electrode, 3 m, reusable
16-2000-1213DD	Cable for Neutral rubber electrode with 3 m, reusable for disposable neutral electrodes 16-2000-1212D
16-2000-1215	Cable for Neutral rubber electrode, 3 m, disposable



16-2000-1214	Monopolar handpiece with 2 switches, reusable, incl. cable
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16-2000-1216	Bipolar cable standard, 3 m
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16-2000-1218	Bipolar forceps 0,3 mm pointed straight 180 mm, blunt
16-2000-1218A	Bipolar forceps 1,0 mm blunt straight 180 mm
16-2000-1218B	Bipolar forceps 0,3 mm pointed angled 180 mm
16-2000-1218C	Bipolar forceps 1,0 mm blunt angled 180 mm
16-2000-1218D	Bipolar forceps 0,3 mm pointed bajonett 180 mm, straight
16-2000-1218E	Bipolar forceps 1,0 mm blunt bajonett 180 mm, straight
16-2000-1218F	Bipolar forceps 0,3 mm pointed curved 180 mm
16-2000-1218G	Bipolar forceps 1,0 mm blunt curved 180 mm
16-2000-1218H	Bipolar forceps 0,3 mm pointed angled 180 mm
16-2000-1218I	Bipolar forceps 1,0 mm blunt bajonett 180 mm, angled
16-2000-1218J	Bipolar forceps 0,3 mm pointed 200 mm
16-2000-1240	Bipolar forceps 165 mm, straight, 1mm tip

HF ACCESSORIES



16-2000-1219	Knife electrode, straight, packaging unit 5 pieces
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16-2000-1220	Lancet electrode, straight, packaging unit 5 pieces
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16-2000-1221	Lancet electrode, angled, packaging unit 5 pieces
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16-2000-1222	Knife electrode, angled, packaging unit 5 pieces
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16-2000-1223	Needle electrode, angled, packaging unit 5 pieces
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16-2000-1224	Loop electrode, 5 mm, packaging unit 5 pieces
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16-2000-1225	Loop electrode, 10 mm, packaging unit 5 pieces
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16-2000-1226	Loop electrode, 17 mm, ribbon style, packaging unit 5 pieces
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16-2000-1227	Loop electrode, 10 mm, ribbon style, packaging unit 5 pieces
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HF ACCESSORIES



**16-2000-1238** Rubber band with button



**16-2000-1231** Special long power connection cable, 4,5 m



**16-2000-1239** Special long power connection cable, 4,5 m for US power connect styles



**16-2000-1241** Special long power connection cable, 4,5 m for Southamerica power connect styles



**16-2000-1500** Trolley for ES Unit, steel coated with small shelf and rubber rolls

HF SURGICAL UNITS



**16-2001-200** Argon pressure reducer



**16-2001-400** APC-handle, 2 switches, cable 3,5 m, 3 pin Luer lock



**16-2001-700** Cable 2,5 m, 3 pin Luer lock



**16-2001-500** APC-electrode, rigid, insulated shaft, Ø 5mm, 25 mm working length, For ARGON cutting



**16-2001-501** APC-electrode, rigid, insulated shaft, Ø 5mm, 100 mm working length, For ARGON cutting



**16-2001-502** APC-electrode, rigid, insulated shaft, Ø 5mm, 350 mm working length, For ARGON cutting



**16-2001-600** APC-electrode, rigid, insulated shaft, 115 mm working length Needle 14 mm, Ø 5 mm for ARGON cutting



**16-2001-601** APC-electrode, rigid, insulated shaft, 40 mm working length Needle 14 mm, Ø 5 mm for ARGON cutting



**16-2001-602** APC-electrode, rigid, insulated shaft, 115 mm working length Lancet 14 mm, Ø 5 mm for ARGON cutting



**16-2001-603** APC-electrode, rigid, insulated shaft, 40mm working length Lancet 14 mm, Ø 5 mm for ARGON cutting



**16-2001-701** Flexible electrode TBS, Ø 1,5mm, length 1,5 m

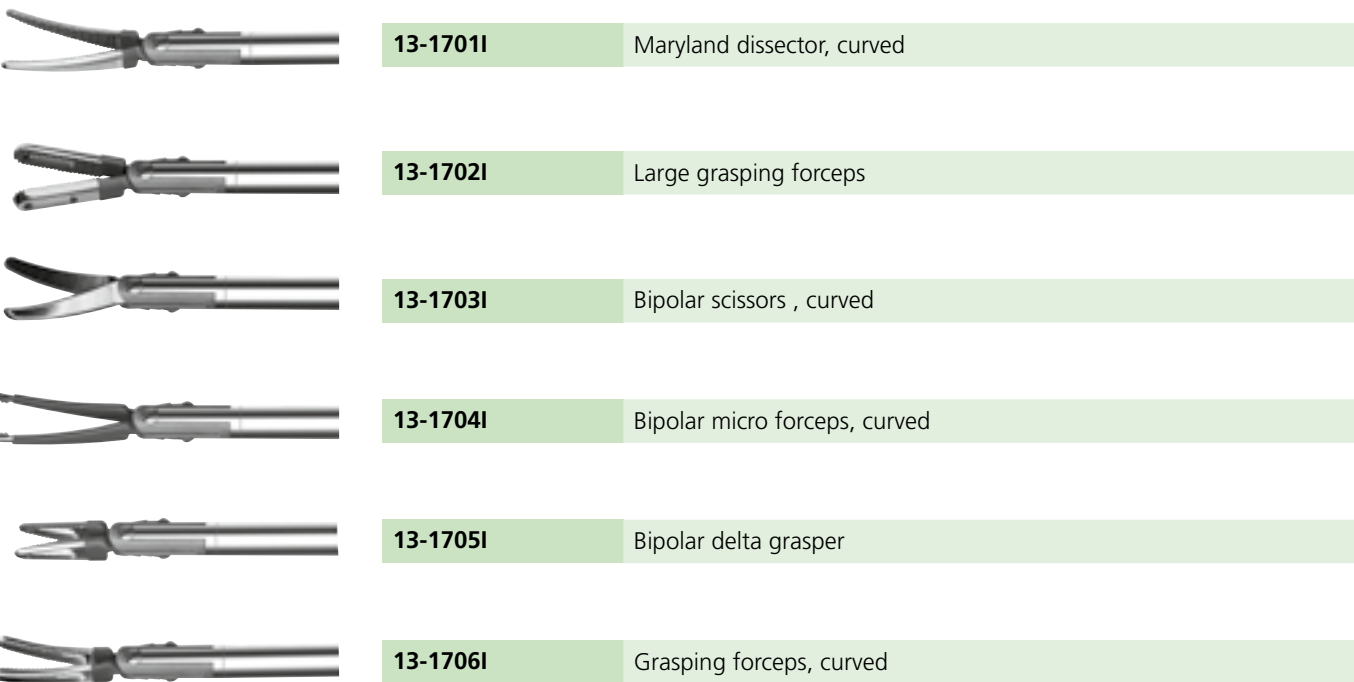
**16-2001-702** Flexible electrode TBS, Ø 2,3mm, length 2,2 m

**16-2001-703** Flexible electrode TBS, Ø 3,2mm, length 2,2 m

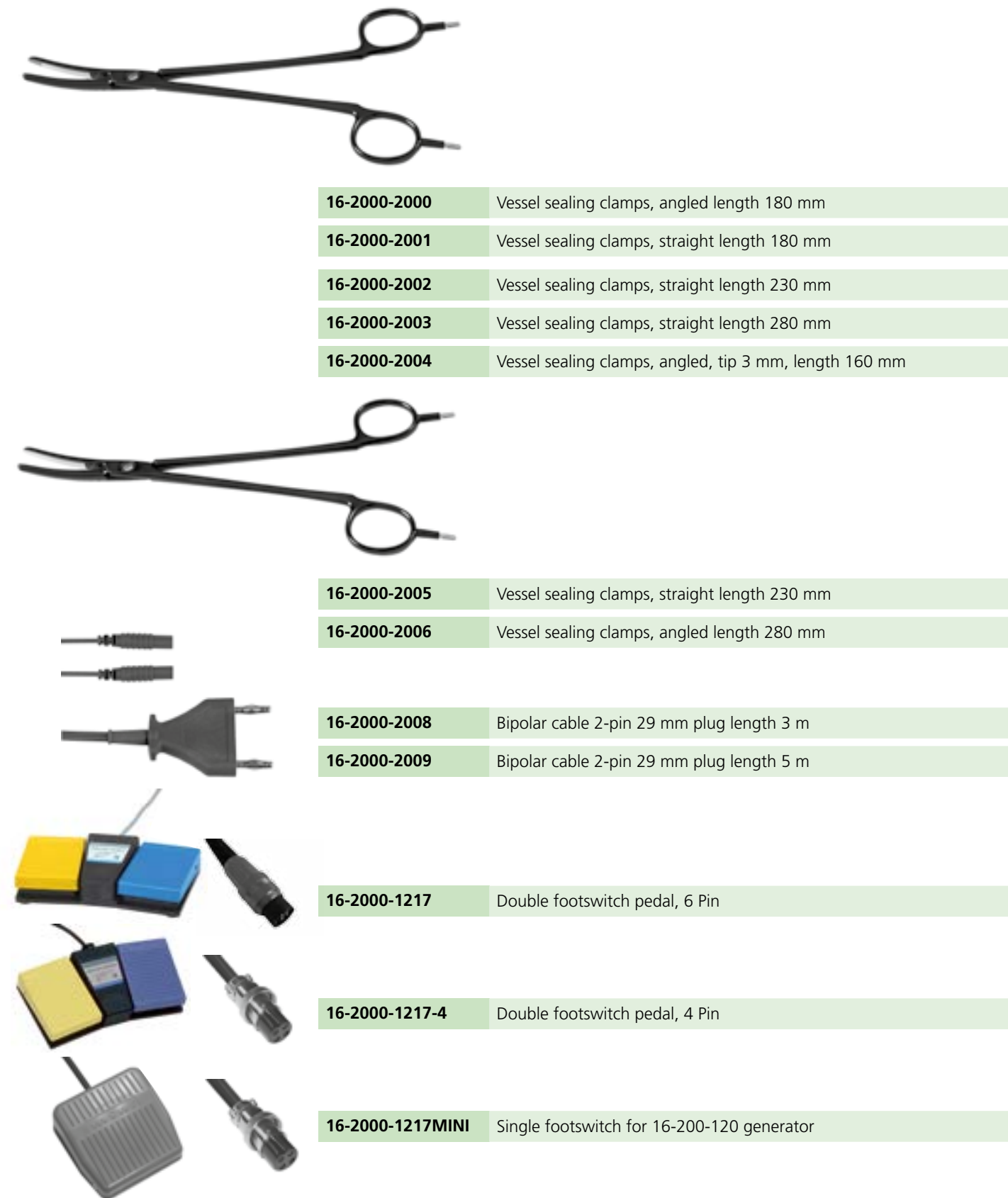




## HF ACCESSORIES



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NOTIZEN | NOTES



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