



ME 102

The compact Electrosurgical Unit
with high Capacity



The KLS Martin ME 102 is a 100-W class, universally applicable HF electrosurgical unit with excellent cutting and coagulation characteristics. It has been designed to satisfy the special demands of clinical and outpatient applications.

ME 102

The compact Electrosurgical Unit with high Capacity

Features at a glance

- Smooth or scabbed cut thanks to 100-W power generator
- 80-W bipolar output power
- Automatic power adaptation to different cutting speeds and tissue impedances
- Contact coagulation for fast hemostasis
- HF activation via manual switch or foot switch
- High-precision dosage thanks to stepless output power regulation for any mode of operation
- Easy and safe handling
- Clear front panel layout
- MICRO switch for high-precision and micro-surgery
- Neutral-electrode (NE) monitoring
- Bipolar „Auto-Coag-Start“ function
- CF-type connection for utmost patient safety
- Memory function

KLS Martin **ME** 102 HF Surgical Unit



1 MICRO function

The MICRO function key of the KLS Martin ME 102 reduces output power to about one third. This allows high-precision power dosage by means of the 270-degree rotary switch. The MICRO function is available for all operating modes.

2 "Monopolar CUT" function

The KLS Martin ME 102 provides two different cutting currents:

- Monopolar cutting 1 for a smooth, scab-free cut
- Monopolar cutting 2 for a smooth cut with some scab formation

3 High degree of patient safety thanks to neutral-electrode (NE) monitoring

The integrated KLS Martin NE monitoring system automatically recognizes whether a single or a split neutral electrode is connected. In the latter case the ME 102 ensures continuous NE monitoring.

Whenever there is insufficient contact between the electrode and the patient, an optical and acoustical alarm signal is triggered and HF power output is blocked immediately.



4 Individual power setting

The large, 270-degree rotary switches allow straightforward and easy-to reproduce output power setting.

5 Socket for monopolar handles or instruments

The ME 102 allows connection of monopolar handles and instruments fitted with either the KLS Martin coaxial connector or a US 3-pin connector. The KLS Martin range of accessories provides a comprehensive selection of instruments for different indications.

6 Bipolar „automatic start“ function

The KLS Martin ME 102 allows bipolar coagulation to be started automatically as soon as the two branches of the instrument get into contact with the tissue. Alternatively, the HF current may be activated via the foot switch.

7 Socket for the bipolar instrument

In many fields, bipolar coagulation is the method of choice. With its 80-W generator, the KLS Martin ME 102 is well suited to any bipolar application.

Ordering Data and Technical Data



Ordering Data

80-010-02-04	Electrosurgical unit KLS Martin ME 102 with mains cable, without accessories
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80-108-00-04	Accessory set monopolar for ME 102 for hand switch operation, large, consisting of:
80-217-13-04	1 smartPen electrode handle with two pushbuttons, for 4-mm electrodes, with KLS Martin plug
80-344-09-04	1 Disposable DuoSafe neutral electrodes, SU = 50/pack
80-294-40-04	1 KLS Martin connection cable for disposable neutral electrodes
80-408-00-04	1 Electrode box for 8 electrodes
80-505-00-04*	1 Cleaning pad for electrodes, sterile packed, SU = 100/pack
80-510-06-04	1 Lancet electrode, SU = 5/pack
80-515-04-04	1 Knife electrode
80-520-06-04	1 Needle electrode, SU = 5/pack
80-540-04-04	1 Wire loop electrode, Ø 5 mm
80-542-06-04	1 Wire loop electrode, Ø 10 mm
80-560-06-04	1 Ball electrode, Ø 2 mm, SU = 5/pack
80-562-06-04	1 Ball electrode, Ø 4 mm, SU = 5/pack

80-108-01-04	Accessory set monopolar for ME 102 for foot switch operation, large, consisting of:
80-220-02-04	1 smartPen electrode handle without pushbuttons, for 4-mm electrodes, with KLS Martin plug
80-344-09-04	1 Disposable DuoSafe neutral electrodes, SU = 50/pack
80-294-40-04	1 KLS Martin connection cable for disposable neutral electrodes
80-408-00-01	1 Electrode box for 8 electrodes
80-505-00-04*	1 Cleaning pad for electrodes, sterile packed, SU = 100/pack
80-510-06-04	1 Lancet electrode, SU = 5/pack
80-515-04-04	1 Knife electrode
80-520-06-04	1 Needle electrode, SU = 5/pack
80-540-04-04	1 Wire loop electrode, Ø 5 mm
80-542-06-04	1 Wire loop electrode, Ø 10 mm
80-560-06-04	1 Ball electrode, Ø 2 mm, SU = 5/pack
80-562-06-04	1 Ball electrode, Ø 4 mm, SU = 5/pack
80-824-01-04	1 Double-pedal foot switch

80-108-02-04	Accessory set monopolar for ME 102 for hand switch operation, small, consisting of:
80-217-05-04	1 smartPen electrode handle with one pushbutton, for 4-mm electrodes, with KLS Martin plug
80-344-09-04	1 Disposable DuoSafe neutral electrodes, SU = 50/pack
80-294-40-04	1 KLS Martin connection cable for disposable neutral electrodes
80-505-00-04*	1 Cleaning pad for electrodes, sterile packed, SU = 100/pack
80-511-06-04	1 Lancet electrode, angled
80-515-04-04	1 Knife electrode
80-520-06-04	1 Needle electrode, SU = 5/pack
80-562-06-04	1 Ball electrode, Ø 4 mm, SU = 5/pack

* Original from manufacturer



Our Accessories Catalog contains KLS Martin's entire range of electrosurgical instruments. Just contact us to get your personal copy!

Technical Data	
Power requirements	230 V; 50/60 Hz
Line fuses	230 V: T 1,0 A
Power input	without HF output approx. 16 VA, at max. power output approx. 180 VA
Nominal frequency	500 kHz
Modulation frequency	30 kHz
Mode of operation	intermittent INT 10 s/30 s; corresponds to a duty factor of 25%

HF output values	
Type of current:	
Macro Mode	Power
Cut 1	max. 100 W at 600 Ω
Cut 2	max. 90 W at 600 Ω
Contact coagulation	max. 70 W at 600 Ω
Bipolar coagulation	max. 80 W at 100 Ω
Type of current:	
Micro Mode	Power
Cut 1	max. 30 W at 600 Ω
Cut 2	max. 30 W at 600 Ω
Contact coagulation	max. 25 W at 600 Ω
Bipolar coagulation	max. 25 W at 100 Ω

Interference suppression	Limit values as per EN 55011 and IEC 60601-2-2	
Interference immunity	as per IEC 801	
LF and HF leakage currents	as per IEC 60601-2-2	
Dimensions	Width	256 mm
	Height	97 mm
	Depth	320 mm
Weight	approx. 4.6 kg	

KLS Martin Group

KLS Martin Australia Pty Ltd.

Sydney · Australia
Tel. +61 2 9439 5316
australia@klsmartin.com

KLS Martin do Brasil Ltda.

São Paulo · Brazil
Tel. +55 11 3554 2299
brazil@klsmartin.com

KLS Martin Medical (Shanghai) International Trading Co., Ltd

Shanghai · China
Tel. +86 21 5820 6251
info@klsmartin.com

KLS Martin India Pvt Ltd.

Chennai · India
Tel. +91 44 66 442 300
india@klsmartin.com

KLS Martin Italia S.r.l.

Milan · Italy
Tel. +39 039 605 67 31
info@klsmartin.com

KLS Martin Japan K.K.

Tokyo · Japan
Tel. +81 3 3814 1431
info@klsmartin.com

KLS Martin SE Asia Sdn. Bhd.

Penang · Malaysia
Tel. +604 261 7060
malaysia@klsmartin.com

KLS Martin de México, S.A. de C.V.

Mexico City · Mexico
Tel. +52 55 7572 0944
mexico@klsmartin.com

KLS Martin Nederland B.V.

Huizen · Netherlands
Tel. +31 35 523 45 38
info@klsmartin.com

KLS Martin SE & Co. KG

Moscow · Russia
Tel. +7 499 792 76 19
russia@klsmartin.com

KLS Martin Taiwan Ltd.

Taipei · Taiwan
Tel. +886 2 2325 3169
taiwan@klsmartin.com

KLS Martin SE & Co. KG

Dubai · United Arab Emirates
Tel. +971 4 454 16 55
middleeast@klsmartin.com

KLS Martin UK Ltd.

Reading · United Kingdom
Tel. +44 118 467 1500
info.uk@klsmartin.com

KLS Martin LP

Jacksonville · Florida, USA
Tel. +1 904 641 77 46
usa@klsmartin.com

KLS Martin SE Asia Sdn. Bhd.

Hanoi · Vietnam
Tel. +49 7461 706-0
vietnam@klsmartin.com

KLS Martin SE & Co. KG

A company of the KLS Martin Group

KLS Martin Platz 1 · 78532 Tuttlingen · Germany
PO Box 60 · 78501 Tuttlingen · Germany
Tel. +49 7461 706-0 · Fax +49 7461 706-193
info@klsmartin.com · www.klsmartin.com