

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922) 49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Ижевск (3412)26-03-58  
Иваново (4932)77-34-06  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Ноябрьск (3496)41-32-12  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Саранск (8342)22-96-24  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сыктывкар (8212)25-95-17  
Сургут (3462)77-98-35  
Тамбов (4752)50-40-97

Тверь (4822)63-31-35  
Тольяти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Улан-Удэ (3012)59-97-51  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://kls.nt-rt.ru> || [kfs@nt-rt.ru](mailto:kfs@nt-rt.ru)

## Компактная электрохирургическая установка ME 102



### ME 102

The compact Electrosurgical Unit  
with high Capacity



The KLS Martin ME 102 is a 100-W class, universally applicable HF electrocautery 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.

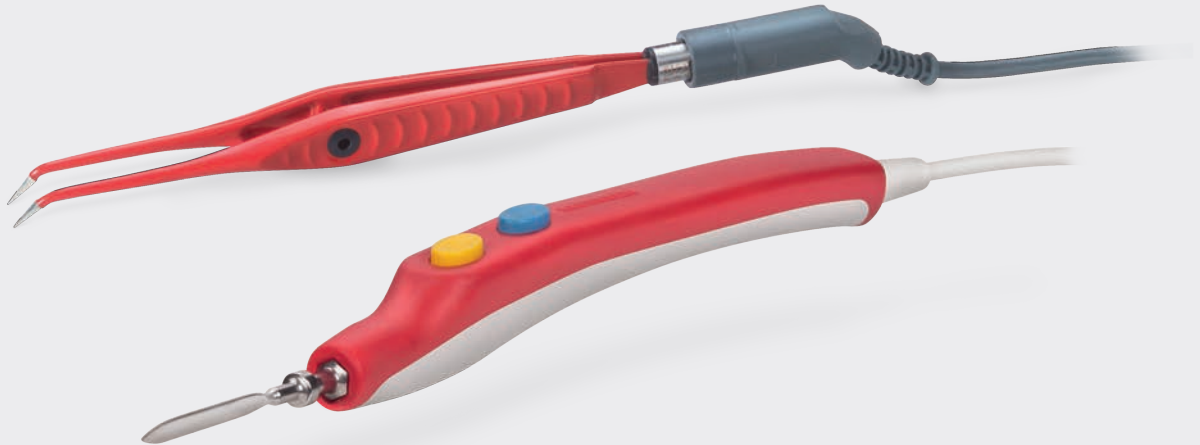
#### 6 Bipolar „automatic start“ function

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

<b>80-010-02-04</b>	<b>Electrosurgical unit KLS Martin ME 102 with mains cable, without accessories</b>	<b>80-108-01-04</b>	<b>Accessory set monopolar for ME 102 for foot switch operation, large, consisting of:</b>
		80-220-02-04	1 smartPen electrode handle without pushbuttons, for 4-mm electrodes, with KLS Martin plug
		80-332-03-04	1 Rubber neutral electrode, 8 x 16 cm, with connection cable of 4 m
		80-373-00-04	1 Textile band with velcro strap, 100 cm
		80-408-00-01	1 Electrode box for 8 electrodes
		80-505-00-04	1 Cleaning pad for electrodes, sterile packed, SU = 100/pack
		80-510-04-04	1 Lancet electrode, straight
		80-515-04-04	1 Knife electrode
		80-520-04-04	1 Needle electrode
		80-540-04-04	1 Wire loop electrode, Ø 5 mm
		80-542-04-04	1 Wire loop electrode, Ø 10 mm
		80-560-04-04	1 Ball electrode, Ø 2 mm
		80-562-04-04	1 Ball electrode, Ø 4 mm
		80-823-02-04	1 Double-pedal foot switch, with connection cable of 5 m
<b>80-108-00-04</b>	<b>Accessory set monopolar for ME 102 for hand switch operation, large, consisting of:</b>	<b>80-108-02-04</b>	<b>Accessory set monopolar for ME 102 for hand switch operation, small, consisting of:</b>
80-217-13-04	1 smartPen electrode handle with two pushbuttons, for 4-mm electrodes, with KLS Martin plug	80-217-13-04	1 smartPen electrode handle with two pushbuttons, for 4-mm electrodes, with KLS Martin plug
80-332-03-04	1 Rubber neutral electrode, 8 x 16 cm, with connection cable of 4 m	80-332-03-04	1 Rubber neutral electrode, 8 x 16 cm, 4 m cable
80-373-00-04	1 Textile band with velcro strap, 100 cm	80-373-00-04	1 Textile band with velcro strap, 100 cm
80-408-00-01	1 Electrode box for 8 electrodes	80-505-00-04	1 Cleaning pad for electrodes, sterile packed, SU = 100/pack
80-505-00-04	1 Cleaning pad for electrodes, sterile packed, SU = 100/pack	80-511-04-04	1 Lancet electrode, angled
80-510-04-04	1 Lancet electrode, straight	80-515-04-04	1 Knife electrode
80-515-04-04	1 Knife electrode	80-520-04-04	1 Needle electrode
80-520-04-04	1 Needle electrode	80-562-04-04	1 Ball electrode, Ø 4 mm
80-540-04-04	1 Wire loop electrode, Ø 5 mm		
80-542-04-04	1 Wire loop electrode, Ø 10 mm		
80-560-04-04	1 Ball electrode, Ø 2 mm		
80-562-04-04	1 Ball electrode, Ø 4 mm		





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

Technical Data	
Power requirements	115 V/230 V; 50/60 Hz
Line fuses	115 V: T 2,0 A
	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	

Алматы (7273)495-231  
Ангарск (3955)60-70-56  
Архангельск (8182)63-90-72  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Благовещенск (4162)22-76-07  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Владикавказ (8672)28-90-48  
Владимир (4922)49-43-18  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89

Ижевск (3412)26-03-58  
Иваново (4932)77-34-06  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Коломна (4966)23-41-49  
Кострома (4942)77-07-48  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Курган (3522)50-90-47  
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Ноябрьск (3496)41-32-12  
Новосибирск (383)227-86-73  
Ноябрьск (3496)41-32-12  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Петрозаводск (8142)55-98-37  
Псков (8112)59-10-37

Россия (495)268-04-70

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Саранск (8342)22-96-24  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Сыктывкар (8212)25-95-17  
Сургут (3462)77-98-35  
Тамбов (4752)50-40-97

Казахстан (772)734-952-31

Тверь (4822)63-31-35  
Тольяти (8482)63-91-07  
Томск (3822)98-41-53  
Тула (4872)33-79-87  
Тюмень (3452)66-21-18  
Улан-Удэ (3012)59-97-51  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Чебоксары (8352)28-53-07  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

<https://kls.nt-rt.ru> || [kfs@nt-rt.ru](mailto:kfs@nt-rt.ru)