



**2nd Edition**

## **maXium®** smart C

The touch of simplicity  
Version MMB and MBB



When each glance and maneuver counts,  
clear and simple operation is paramount.  
The maXium® smart C offers you both.

## No reservations at all – the new **maXium®** smart C

Our latest innovation in electrosurgery leaves no one untouched. However, this is intended because the maXium® smart C mates the proven maXium® operating philosophy with state-of-the-art touchscreen technology. Great on the outside, pure genius on the inside: No matter if you are cutting or coagulating in daily operation, the simple intuitive user interface handles it all.

The well-defined horizontal arrangement of the three sockets and the permanent display of all relevant parameters on the display ensure that you are always aware of the respective parameter settings. The devices can now be selected with either two monopolar and one bipolar or one monopolar and two bipolar sockets.

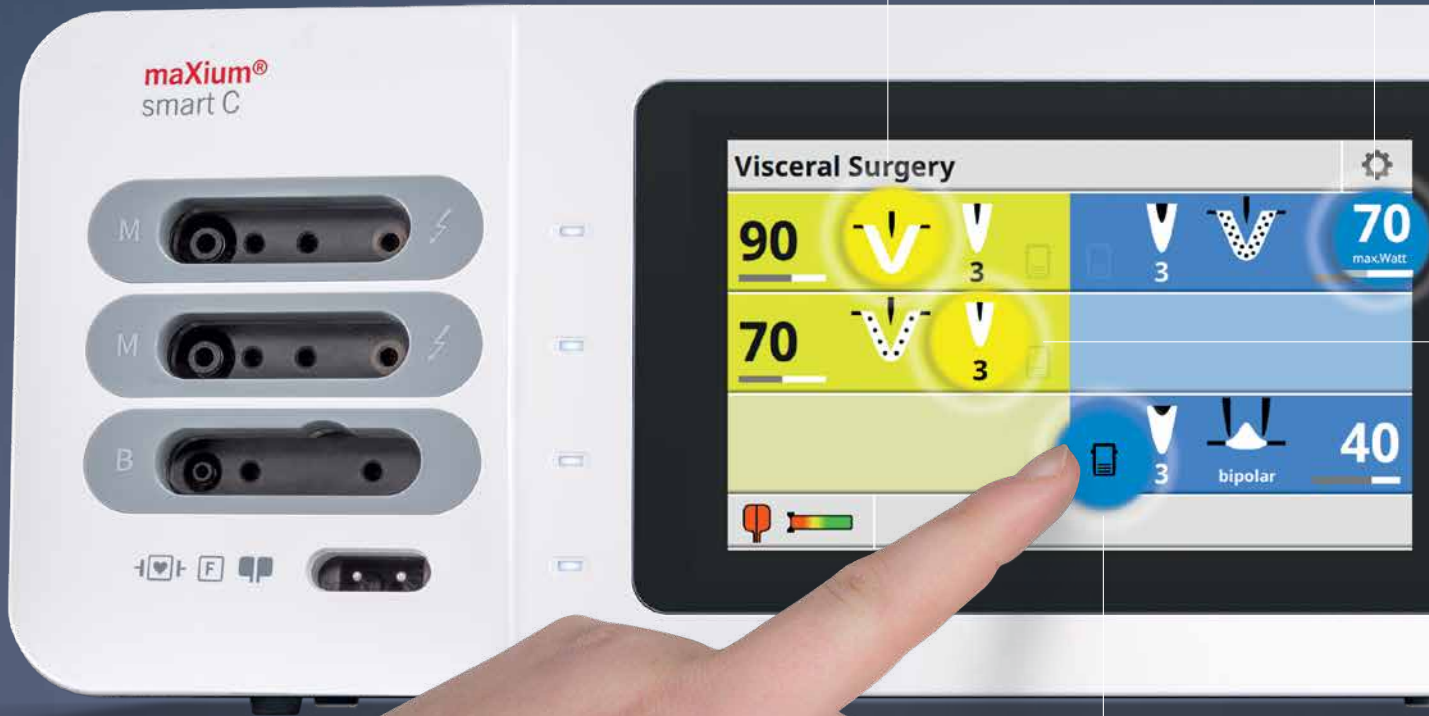
Any of the settings you change can be easily saved in the user-specific programs and then called up again whenever they are required. Up to 50 memory slots are available for this.

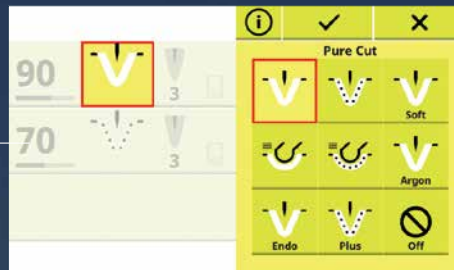
And to make it even easier for you to use, we have already programmed in some of the application-specific programs for a wide range of surgical disciplines, thus allowing for easy and efficient selection. You will simply love the maXium® smart C. And not just you, but your entire team as well.

- ✓ **high level of safety**
- ✓ **state-of-the art technology**
- ✓ **easy operation**
- ✓ **versatile application options**
- ✓ **different plug socket modules**

Whatever you are doing - all it takes is at your finger tip.

Direct access to all the relevant parameters. From now on you can use the new touch display of the maXium® smart C to make all the settings intuitively, taking advantage of the proven maXium® operating philosophy.





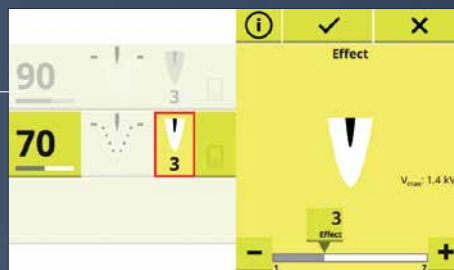
### Current type

With the proven, clearly arranged icons, making selections is quick and easy.



### Output power adjustment

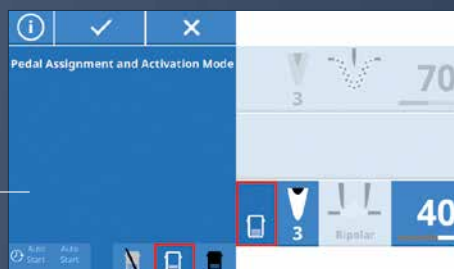
The power can be adjusted quickly and easily using the slider and/or the +/- keys.



### Effect adjustment

Regardless of the output power, the effect can be customized for meaningful combinations.

Benefit: maximum variable performance in all power ranges.

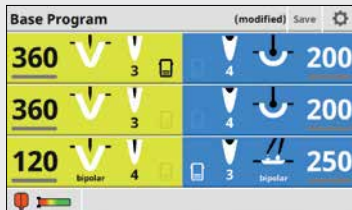


### Activation

Easy assignment of activation – be it via a footswitch or an Auto Start function.



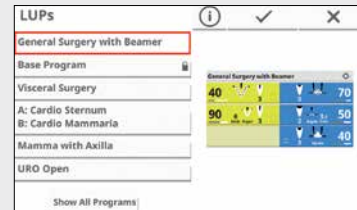
## maXium® smart C – the epitome of performance.



### High performance reserves in all situations

No matter what your procedure is: The maXium® smart C excels with its high power capabilities and therefore is in a perfect position for a multitude of applications in the various OR specialties:

- monopolar cutting up to 360 watts
- monopolar coagulation up to 200 watts
- bipolar cutting and coagulation up to 120 watts
- bipolar electrohydrothermoization up to 250 watts



### Outstanding operating convenience due to proven program philosophy

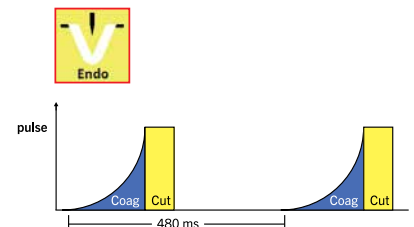
The proven maXium® program philosophy lets you fall back on the programs already stored in the maXium® smart C or store programs you have defined yourself.

## Options

### Endo mode

The Endo-mode is an application-specific type of current for polypectomy/papillotomy. This is a pulsed current which causes coagulation by heating the instrument during the pulse intervals. It is used for the resection

with little loss of blood of small or pedunculated polyps using a polypectomy snare, and for the low-bleed incision using a fistulotome or needle knife.



### SWAP mode

Easy to change program from the sterile area. In SWAP mode you can change the program from inside the sterile field either via the footswitch or handle, therefore

letting you adjust the cutting or coagulation performance to the situation in the OR.



### Neptun

Neptun is a bipolar current type for coagulation with liquid support (EHT method = electrohydrothermoization), which is preferably used in parenchymal surgery (liver,

spleen, kidney) with irrigated forceps. The EHT method is characterized by a conservative coagulation effect and a rapid procedure.



### Duo-Prep/Duo-Spray

With the Duo currents it is possible to use the two monopolar outputs simultaneously and, if necessary, in two different surgical fields, e.g., in cardiac surgery, in preparation of the leg vein with only a small coagulation

portion and simultaneous preparation of the mammary artery or in the field of breast surgery, for contactless surface coagulation with minimal depth effect and carbonization.



## Variability through different plug socket modules



Since the maXium® smart C is available in three different plug socket modules, you will therefore rarely need adapters.

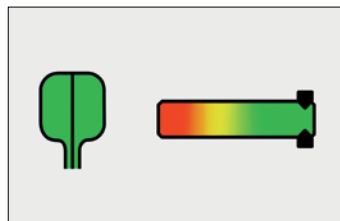
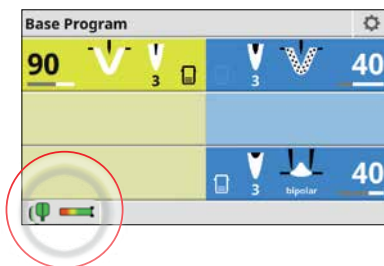
### Available in different versions

The maXium® smart C offers you three working channels as standard with two monopolar outputs and one bipolar output in the MMB version, and one monopolar output and two bipolar outputs in the MBB version. These are available in three different configurations:

- m-version: with connections for KLS Martin accessories
- i-version: with connections for international accessories
- e-version: with connections for Erbe accessories

With these different socket configurations, you can use plug-compatible third-party accessories with the maXium® smart C without encountering any problems.

## Selection of return electrodes with the **maXium®** smart C



### PCS – Safety through return electrode monitoring

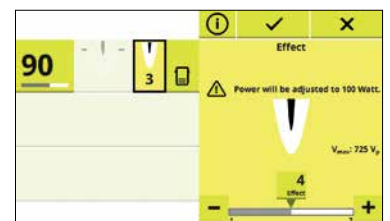
With the Patient Control System PCS and the innovative return electrode indicator, the **maXium®** smart C ensures maximum safety for patients and users alike.

### New features

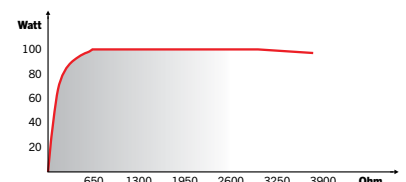
When making your selection it is possible to choose between different return electrodes. By selecting a return electrode, various restrictions are then made on the device:

- Use of split RE:  
Only split return electrodes can be used (PCS\* enabled).
- Use of **Baby RE/Children RE**:  
Some current types are not permitted. The available current types are limited in power.

- Coupling of power and effects:  
automatic adjustment of power and effect settings for increased safety in “inappropriate” combinations.



- New current forms **Forced Prep Plus** and **Blend Cut Plus**:  
Constant power over a wide impedance range with a power efficiency ratio (PER) of approx. 99%. This results in consistent cutting and preparation performance in different types of tissue.





## Perfect for the job: the **maXium®** smart Cart

The maXium® smart C fits. Wherever. Especially on the maXium® smart Cart, the cart for the full range of the maXium® smart line. The complete RF workstation with the argon beamer maXium® smart Beam and the smoke plume evacuator maXium® smart Vac is ready for operation whenever needed. And if one does not need the full package: The maXium® smart C also fits perfectly into a ceiling lamp as a stand-alone.

### **maXium® smart C**

ingeniously simple RF electrosurgery at a touch.

### **maXium® smart Beam**

for argon beamer assisted applications in laparoscopic and open surgical procedures.

### **maXium® smart Vac**

for an unencumbered view and maximum safety during the application.

### **maXium® smart Cart**

for mobile applications with the full-range of smart line models.



All part of the package:  
**maXium®**-smart accessories



**Footswitches**  
Various different designs  
to match the maXium® smart C



**smartOne®**  
Disposable electrode handpiece with  
smoke plume evacuation

**smartPen**  
Electrode handpieces – uniform, er-  
gonomic, efficient

## Technical data maXium® smart C

Power supply	
Power supply	100 VAC – 240 VAC ± 10 %
Rated current max.	6.3 A
Fuse	6.3 A
Nominal frequencies	350 - 500 kHz
Power rating in standby mode	45 watts
Max. power rating	550 watts
Output power	
Cutting performance	max. 400 watts
Coagulation performance	max. 250 watts
Safety system	
PCS and RE indicator display	
Error log	
Activation log	
Weight and dimensions	
Weight	10.2 kg
Width x height x depth	390 x 160 x 442mm

## Technical data maXium® smart Cart

4 Potential equalization connections (POAG)	
4 Double castors with 2 brakes	
Weight and dimensions	
Weight	40 kg
Width x height x depth	757 x 1077 x 657 mm

## Order information

Description	Article number
maXium® smart C, MBB, plug socket module "m"	80-043-03-04
maXium® smart C, MBB, plug socket module "i"	80-043-04-04
maXium® smart C, MBB, plug socket module "e"	80-043-05-04
maXium® smart C, MMB, plug socket module "m", Version 2	80-043-06-04
maXium® smart C, MMB, plug socket module "i", Version 2	80-043-07-04
maXium® smart C, MMB, plug socket module "e", Version 2	80-043-08-04
Option SWAP mode	80-094-00-04
Option Duo-Prep, Duo-Spray (only for MMB variants)	80-094-01-04
Option Neptun	80-094-02-04
Option Endo-Mode	80-094-03-04
maXium® smart Beam, Version 2	80-043-15-04
maXium® smart Vac, with Lap mode, 220 V	80-062-00-04
maXium® smart Vac, 220 V	80-062-01-04
maXium® smart Cart	80-048-00-04

## Technical data maXium® smart Beam

Power supply	via the maXium® smart C
Device fuse	M 1.6 A
Power rating	40 W max.
Argon gas flow with CUT	0.1 to 12 l/min ± 20 % can be switched off by setting to 0.0 l/min
Argon gas flow with COAG	0.1 to 12 l/min ± 20 % can be switched off by setting to 0.0 l/min
Leakage currents LF	in accordance with IEC 601, Part 1 (checked together with maXium® HF generator)
Operating mode	INT 10 s/30 s (= operating factor 25 %)
Weight and dimensions	
Weight	7.8 kg
Width	390 mm
Height (without ball stud)	95 mm
Depth	466 mm

Description	Article number
Footswitch, dual pedal	80-830-00-04
Footswitch, dual pedal, with swap	80-830-01-04
Footswitch, single pedal	80-830-02-04
Footswitch, dual pedal, with swap, cordless	80-830-04-04
Power supply unit for 80-830-04-04	80-830-05-04
MCB connecting cable	80-091-01-04
maXium® smart Cart	80-048-00-04
Standard rail for maxium® smart Cart	80-048-01-04
Separating transformer for maxium® smart Cart	80-048-02-04
Device holder for maxium® smart C devices	80-048-03-04
Gas bottle holder for maxium® smart Cart	80-048-05-04
Mounting kit for maxium® smart Vac	80-048-06-04

## 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 6410 8471  
japan@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 · The Netherlands  
Tel. +31 35 523 45 38  
infonl@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 LP**

Jacksonville · Florida, USA  
KLS Martin LP  
Jacksonville · Florida, USA  
Tel. +1 904 641 77 46  
usa@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 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  
P.O. Box 60 · 78501 Tuttlingen · Germany  
Tel. +49 7461 706-0 · Fax +49 7461 706-193  
info@klsmartin.com · www.klsmartin.com