



marLap

Safe and easy operating with the
KLS Martin bipolar instruments



marLap – proven
technique for the
bipolar coagulation

marLap

Bipolar coagulation in laparoscopy

For many decades, KLS Martin has been known as a successful provider of HF surgical systems and instruments. In recent years, there has been a particularly strong increase in the demand for bipolar instruments.

This is especially true for the field of laparoscopy, where a whole range of special bipolar instruments suitable for minimally invasive application is required. The new marLap system is KLS Martin's response to this growing need.

The bipolar application technique

Bipolar coagulation is one of the most frequently used HF surgical techniques. Why? Because the high-frequency current takes a very short path through the patient's body, flowing directly from the instrument's active blade or jaw to the opposite (inactive) blade or jaw. Thus, only the treatment zone is actually affected by the electric current.

Compared with the monopolar technique, the energy requirements are significantly lower and no neutral electrode is needed at all. Thanks to these advantages, the bipolar application technique is considered a distinctly safe HF surgical method. During this process, endogenous structural proteins such as collagen and elastin are transformed so that a permanently sealed zone is created as a result.

marLap – bipolar coagulation in Laparoscopy



marLap Cut

Scissor-type exchangeable electrode, curved, for mechanical cutting and simultaneous coagulation
Item No. 83-585-03-04



83-585-03-04 marLap Cut



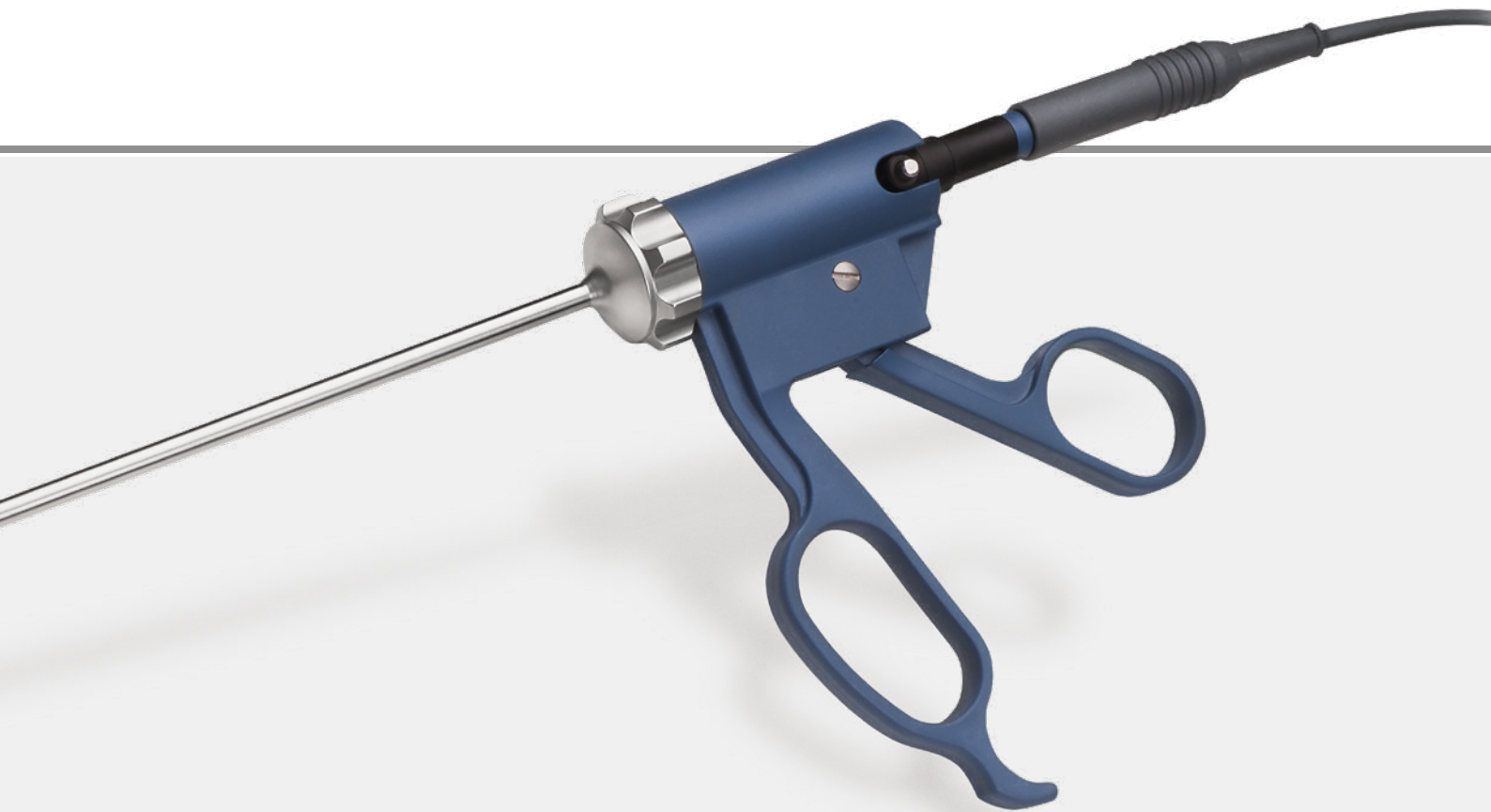
83-585-05-04 marLap Clamp, fenestrated



83-585-06-04 marLap Maryland



83-585-07-04 marLap Clamp, non-fenestrated



marLap Clamp
 “Grasping forceps” exchangeable
 electrode, fenestrated, for coagulating
 Item No. 83-585-05-04



marLap Maryland
 “Grasping forceps” exchangeable electrode,
 curved, for dissecting and coagulating
 Item No. 83-585-06-04

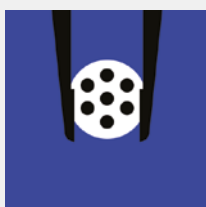


marLap Clamp
 “Grasping forceps” exchangeable electrode,
 non-fenestrated, smooth, for coagulating
 Item No. 83-585-07-04



83-585-00-04
 340 mm, Ø 5 mm
 marLap handle with shaft

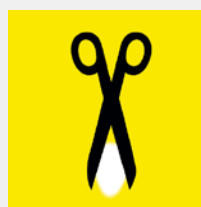
Application examples: Laparoscopy



Endoscopy is a field of application where reliable hemostasis is of particular importance. Especially the current type Macro Coag of the maXium® generator is suitable for the bipolar coagulation with insert marLap Maryland and marLap Clamp (fenestrated and non-fenestrated).



The fenestrated marLap Clamp jaws allow you to grasp larger tissue bundles or vessels safely for subsequent coagulation – always with an excellent view of the surgical field. The non-fenestrated marLap Clamp jaws are particularly suitable for coagulating fine and thin-skinned tissue structures. The blades or jaws of the Maryland insert are especially useful for fine dissection and the reliable coagulating of minor hemorrhages.



The maXium®'s Forfex current is simply ideal for use with the marLap instruments because this special bipolar cutting current provides coagulation support when performing the cut.

However, these instruments can also be used with the bipolar coagulation currents of other KLS Martin HF generators. As sufficient coagulation takes place prior to dissection, hemorrhages are prevented when cutting through vascular tissue.



The **marLap** instrument set at a glance



maXium® –
Ingenuity is always quite simple

Instruments for use with the maXium® system

marLap instruments	
83-585-00-04	marLap handle with shaft, Ø 5 mm, 340 mm
83-585-01-04	marLap handle
83-585-02-04	Shaft, Ø 5 mm, 340 mm
83-585-03-04	marLap Cut scissor-type exchangeable electrode, 340 mm
83-585-05-04	marLap Clamp “grasping forceps” exchangeable electrode, fenestrated, 340 mm
83-585-06-04	marLap Maryland “grasping forceps” exchangeable electrode, curved, 340 mm
83-585-07-04	marLap Clamp “grasping forceps” exchangeable electrode, non-fenestrated, smooth, 340 mm
Bipolar connecting cables	
80-287-33-04	Connecting cable for KLS Martin, Berchtold, Aesculap systems, 3 m
80-287-53-04	Connecting cable for KLS Martin, Berchtold, Aesculap systems, 5 m
80-287-60-04	Connecting cable for KLS Martin, Berchtold, Aesculap systems, 4 m
80-286-30-04	Connecting cable for Erbe systems (VIO, ICC, ACC), 3 m
80-286-50-04	Connecting cable for Erbe systems (VIO, ICC, ACC), 5 m
80-286-60-04	Connecting cable for Erbe systems (VIO, ICC, ACC), 4 m
80-287-89-04	Connecting cable for Valleylab systems, 3 m
80-287-90-04	Connecting cable for Valleylab systems, 5 m
80-288-60-04	Connecting cable for Valleylab systems, 4 m
80-287-72-04	Connecting cable for Conmed, Codman, Valleylab systems, 5 m
HF electrosurgery units	
80-042-00-04	maXium® with socket module for KLS Martin accessories, “m” version
80-042-02-04	maXium® with socket module for international accessories, “i” version
80-042-04-04	maXium® with socket module for 5-mm accessories, “e” version
80-043-00-04	maXium® smart C with socket module for KLS Martin accessories, “m” version
80-043-01-04	maXium® smart C with socket module for international accessories, “i” version
80-043-02-04	maXium® smart C with socket module for 5-mm accessories, “e” version
Carrier system	
80-048-00-04	maXium® smart Cart
80-048-04-04	Support for maXium® white edition units
80-048-03-04	Support for maXium® smart C units

CE marking conform with 93/42/EEC

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
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 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

Do you know how to get all important information
about the KLS Martin Energy Devices?

Please download KLS Martin App Energy Devices!
The App is available for Android and iOS.



[https://itunes.apple.com/de/app/
klsmartin-energy-devices/id1198171415?l=de&ls=1&mt=8](https://itunes.apple.com/de/app/klsmartin-energy-devices/id1198171415?l=de&ls=1&mt=8)



[https://play.google.com/store/apps/
details?id=com.klsmartin.energydevices](https://play.google.com/store/apps/details?id=com.klsmartin.energydevices)

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