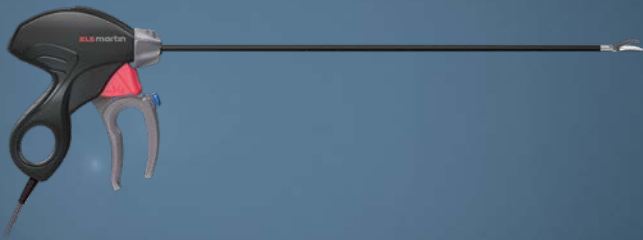




marSeal® 5 plus Maryland

Outstanding dissection and sealing performance
guarantees ultimate efficiency for your patients!



“The new sealing instrument marSeal® 5 plus Maryland is very comfortable to hold. It fulfills all of the ergonomic requirements for a modern sealing instrument.

The fact that the instrument can be reused pays for itself. We value safety, reliability, and cost-effectiveness.”“

*Comment from marSeal® users in the field
of general / visceral surgery and gynecology*



marSeal® 5 plus Maryland Outstanding dissection and sealing performance

The marSeal® 5 plus Maryland rings in the new generation of bipolar sealing instrument from KLS Martin. It has been systematically refined and tailored to meet the needs of users in terms of ergonomics and the ease with which it can be taken apart and cleaned.

The corresponding current – SealSafe® IQ – is supplied by the high-frequency generator maxium®. Together, they form a bipolar sealing system that converts endogenous structural proteins like collagen and elastin in such a way that veins, arteries and tissue bundles are permanently and reliably sealed.

By optimizing the sealing process, sealing time is up to 25% faster. The marSeal® 5 plus Maryland features an integrated blade that is used to cutthrough the tissue in the center of the sealing area immediately after sealing. All this without changing the instrument. And in a single step. This saves valuable surgery time and therefore money.

- ✓ Reliable seal
- ✓ Efficient
- ✓ Reusable

marSeal® 5 plus Maryland

Multifunctionality meets reusability and cost-efficiency.
Patients experience more efficient procedures!



Application examples

General Surgery

- Sigmoidectomy
- Colectomy
- Hemicolectomy
- Adhesiolysis
- Rectum



Gynaecology

- Hysterectomy (LASH, TLH, LAVH)
- Wertheim
- Salpingectomy
- Oophorectomy
- Lymphadenectomy



- ✓ Reliable seal
- ✓ Efficient
- ✓ Reusable



45 cm for bariatric surgery

37 cm for laparoscopic surgery

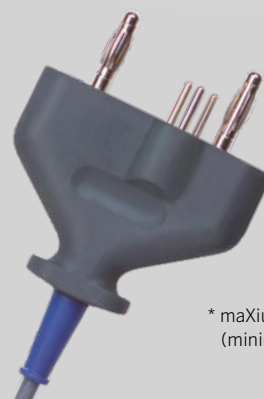
23 cm for open surgery



Advantages

- Vessel sealing with subsequent tissue dissection without instrument change
- Curved jaw according to the anatomical conditions (e.g . curvature of uterus, stomach, colon, etc.)
- Non-traumatic grasping device for blunt dissection
- Excellent visibility to the surgical field, simple exposure of vessels

IQ connector (Plug & Play) for automatic instrument identification at the maXium® generator *.



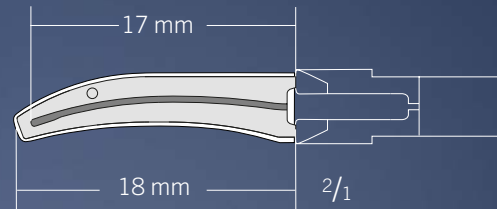
* maXium® software requirement (minimum 3.423 or higher)



- Curved jaw, Maryland shaped
- Enhanced tissue preparation capabilities
- Outstanding and reliable sealing performance
- Finest dissection and minimal lateral spread

Special jaw geometry
for preparation and sealing

- Sealing length: 18 mm
- Cutting length: 17 mm



- Multifunctional instrument
- Highest precision; excellent preparation and dissection capabilities (e.g. spreading for cold preparation due to specially designed jaw pattern)
- Superior procedural efficiency
- Continuous impedance controlled sealing process
- Sealing of vessels up to Ø 7 mm

Go Green

For our environment. For our future.
For a world worth living in.

marSeal® – sealing and cut without changing the instrument and with a minimum of disposables!

It was a question of conviction, to develop these reusable instruments for the bipolar sealing of vessels. KLS Martin has succeeded in offering an alternative to the use of one-way instruments with the marSeal® instruments.

By using marSeal®, far less special waste is created, which needs to be disposed of at high cost and harms the environment. The marSeal® instruments require a minimum amount of one-way materials. Only blades or blade holders are disposable products.

In comparison: 50 blade holders for the marSeal® create 0.5 kg of waste. 50 one-way products create nearly 15 kg of waste. Moreover the marSeal® instruments also contribute significantly to save costs!

In addition to the economic benefits, the instrument also has many medical benefits. The combination of instrument and special sealing current allows for a shorter operating time, less blood loss and thus less physical strain for the patient.

Item numbers of marSeal® 5 plus Maryland at a glance

Article number	Designation
Complete instrument	
80-633-01-04	marSeal® 5 plus Maryland, complete, consisting of handle, tubular shaft Ø 5 mm, shaft length 450 mm, including cleaning tool and flushing adapter, without blade holder*
80-633-02-04	marSeal® 5 plus Maryland, complete, consisting of handle, tubular shaft Ø 5 mm, shaft length 370 mm, including cleaning tool and flushing adapter, without blade holder*
80-633-03-04	marSeal® 5 plus Maryland, complete, consisting of handle, tubular shaft Ø 5 mm, shaft length 230 mm, including cleaning tool and flushing adapter, without blade holder*
Individual components	
80-633-04-04	Handle marSeal® 5 plus
80-633-06-04	Tubular shaft marSeal® 5 plus Maryland, Ø 5 mm, shaft length 450 mm, consisting of outer and inner shaft, including cleaning tool, without blade holder*
80-633-07-04	Tubular shaft marSeal® 5 plus Maryland, Ø 5 mm, shaft length 370 mm, consisting of outer and inner shaft, including cleaning tool, without blade holder*
80-633-08-04	Tubular shaft marSeal® 5 plus Maryland, Ø 5 mm, shaft length 230 mm, consisting of outer and inner shaft, including cleaning tool, without blade holder*
Consumables	
80-633-10-04	Blade holder for marSeal® 5 plus, 230 mm, sterile, sales unit = 10 pieces
80-633-14-04	Blade holder for marSeal® 5 plus, 230 mm, non-sterile, sales unit = 10 pieces
80-633-09-04	Blade holder for marSeal® 5 plus, 370 mm, sterile, sales unit = 10 pieces
80-633-11-04	Blade holder for marSeal® 5 plus, 370 mm, non-sterile, sales unit = 10 pieces
80-633-15-04	Blade holder for marSeal® 5 plus, 450 mm, sterile, sales unit = 10 pieces
80-633-16-04	Blade holder for marSeal® 5 plus, 450 mm, non-sterile, sales unit = 10 pieces
Cleaning and reprocessing tools	
80-633-12-04	Cleaning tool for marSeal® 5 plus
80-633-13-04	Rinsing adapter for marSeal® 5 plus

* Blades have to be ordered separately.

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
info@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