



## **marClamp®** Cut IQ 23

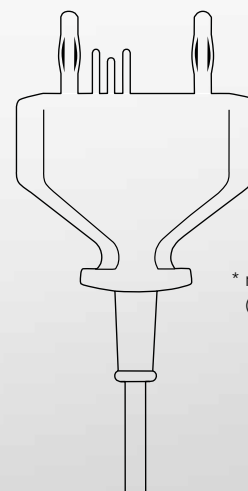
Seal, cut, clean, repeat!



Together with our customers, we are determined to realize reliable and future-oriented energy-based surgical solutions. Day in, day out, we work passionately to develop products and services that help optimize clinical outcomes and patient well-being.

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\* maXium® software requirement  
(minimum 3.435 or higher)


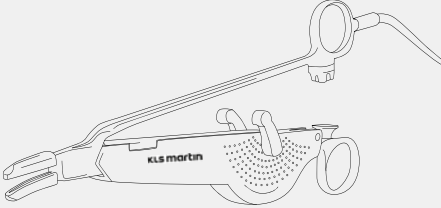
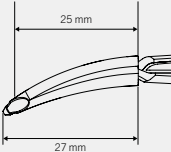


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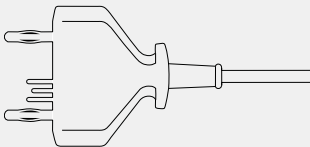
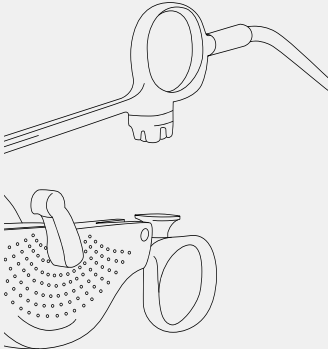

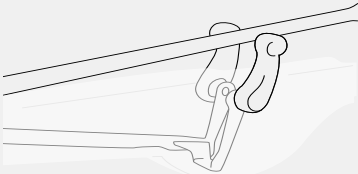
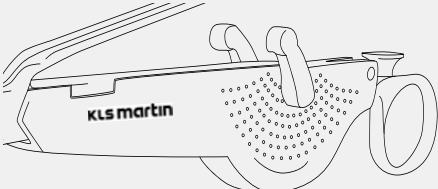
### Product features – the new combination instrument for open surgical vessel sealing

With the marClamp® Cut IQ 23, we have added a further member to our product family of vessel sealing instruments. This combination instrument has been developed for open surgical vessel sealing and, in addition to tissue preparation and vessel sealing, also serves for subsequent tissue separation - entirely without the need to change instruments. On the one hand, the extended design of our instrument allows access to previously inaccessible places. On the other hand, its reusability helps to improve your clinic's carbon footprint.

- ✓ Safe
- ✓ Efficient
- ✓ Reusable

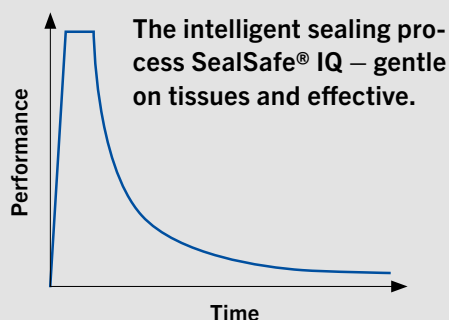
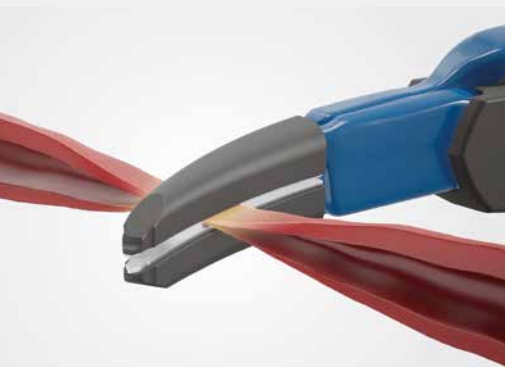
## Feature-function-benefit-matrix

Feature	Function	Benefit
<b>Reusable instrument</b> 	The instrument is reusable, only the blade is a disposable item.	The reusability of the instrument not only helps to reduce the environmental footprint of your clinic, but also allows you to reduce costs.
<b>Ergonomic design</b> 	The instrument ensures intuitive and ergonomically optimized handling.	The well-thought-out design offers safe and fatigue-free handling as well as an optimal view of the work area.
<b>Multifunctional jaws</b> 	With a sealing length of 27 mm and a cutting length of 25 mm, the special jaw geometry enables precise tissue preparation, reliable sealing and efficient cutting.	A change of instruments during the procedure is not necessary.
<b>Bipolar vessel sealing</b> 	Sealing of tissues using an impedance-controlled sealing method.	Reliable sealing of tissue and vessel bundles with a diameter of up to 7 mm and minimal lateral heat spread.
<b>Insulation</b> 	The tips of the marClamp® Cut IQ 23 are specially insulated.	Insulation of the instrument tips provides improved heat resistance and extends the service life of the instrument.

Feature	Function	Benefit
<b>IQ connector</b> 	The Plug and Play function recognizes the plugged instrument and automatically sets the current to a matching default.	No settings are required, which means that it is very easy and uncomplicated for surgical staff to use.
<b>Integrated current activation</b> 	As soon as the tissue has been grasped, the integrated switch automatically triggers the special SealSafe® IQ sealing current.	No additional footswitch is required to start the sealing process. After sealing, the flow of current is stopped automatically and confirmed with an acoustic signal.
<b>Disposable blades</b> 	The sterile blade is used to cut the tissue after sealing.	Optimal cutting results due to the blade geometry.
<b>Lever for blade movement</b> 	The blade can be moved intuitively by pulling the lever.	Efficient cutting as required.
<b>Housing design</b> 	The housing can be opened manually without tools.	Simple changing of blades.

## Operating principle – sealing process

**The reusable sealing system for lasting sealing of veins, arteries and tissue bundles with subsequent separation – and absolutely no need to change instruments!**



Vessel sealing:  
**up to a Ø of 7 mm**

Minimal lateral heat spread:  
**< 2 mm**

Burst pressure of at least **360 mmHg**

The bipolar vessel sealing system, consisting of an HF generator with the SealSafe® IQ current and our marClamp® Cut IQ 23, allows vessels or tissue bundles to be effectively and permanently sealed without the need for prior individual exposure or necessary preparation. During the sealing process, the body's own structures such as collagen and elastin are converted so that a permanently sealed zone is created.



SealSafe® IQ is a process-controlled current mode in which a continuous exchange of information takes place between the HF generator and the IQ instrument. The impedance of the tissue being sealed is monitored continuously.

With the SealSafe® IQ current, which is specifically designed for this type of application, safety is paramount. Only the tissue located between the instrument's jaws is sealed, thus reducing lateral thermal damage to a minimum. SealSafe® IQ guarantees minimal tissue adhesion and, when used correctly, prevents tissue carbonization.

- ✓ Preparation
- ✓ Sealing
- ✓ Cutting

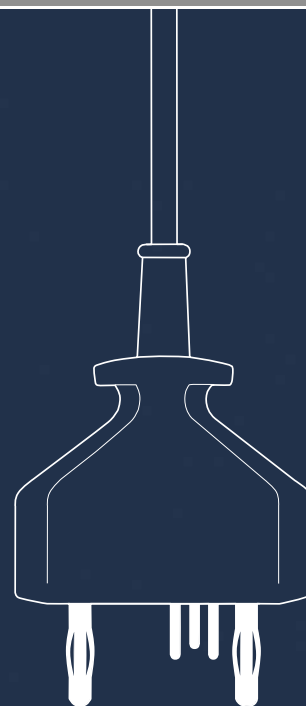
### Plug and Play – automatic recognition of instruments with smart IQ connectors

The maXium®\* and maXium® Sealer generators recognize the intelligent IQ instruments when plugged in and automatically set the corresponding default values. Convincingly simple!

In addition, the name of the instrument is automatically displayed on the touchscreen when using the maXium®.

If you do not wish to work with the instrument-specific default values, you can change them on the maXium® as required and save them as usual for each specific program. The advantage of this method is that when the IQ instrument is plugged in again, your customized values will appear instead of the default values.

From software version V3.435



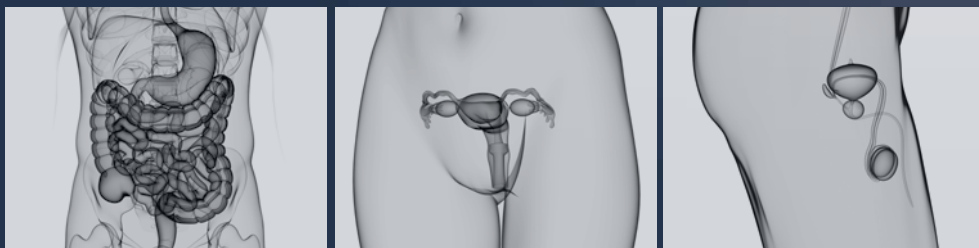
Display of the name of the connected instrument



Fields of application –  
Quality and durability in one tool!



### Fields of application

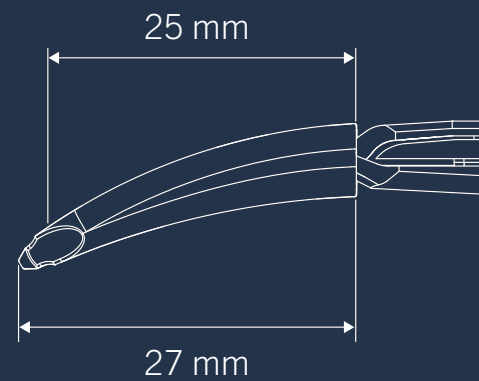


General surgery

Gynecology

Urology

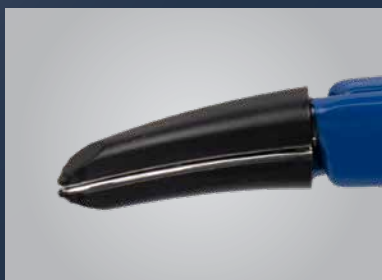
## Special jaw geometry



- Multifunctional instrument
- Curved jaws
- Minimal lateral heat spread

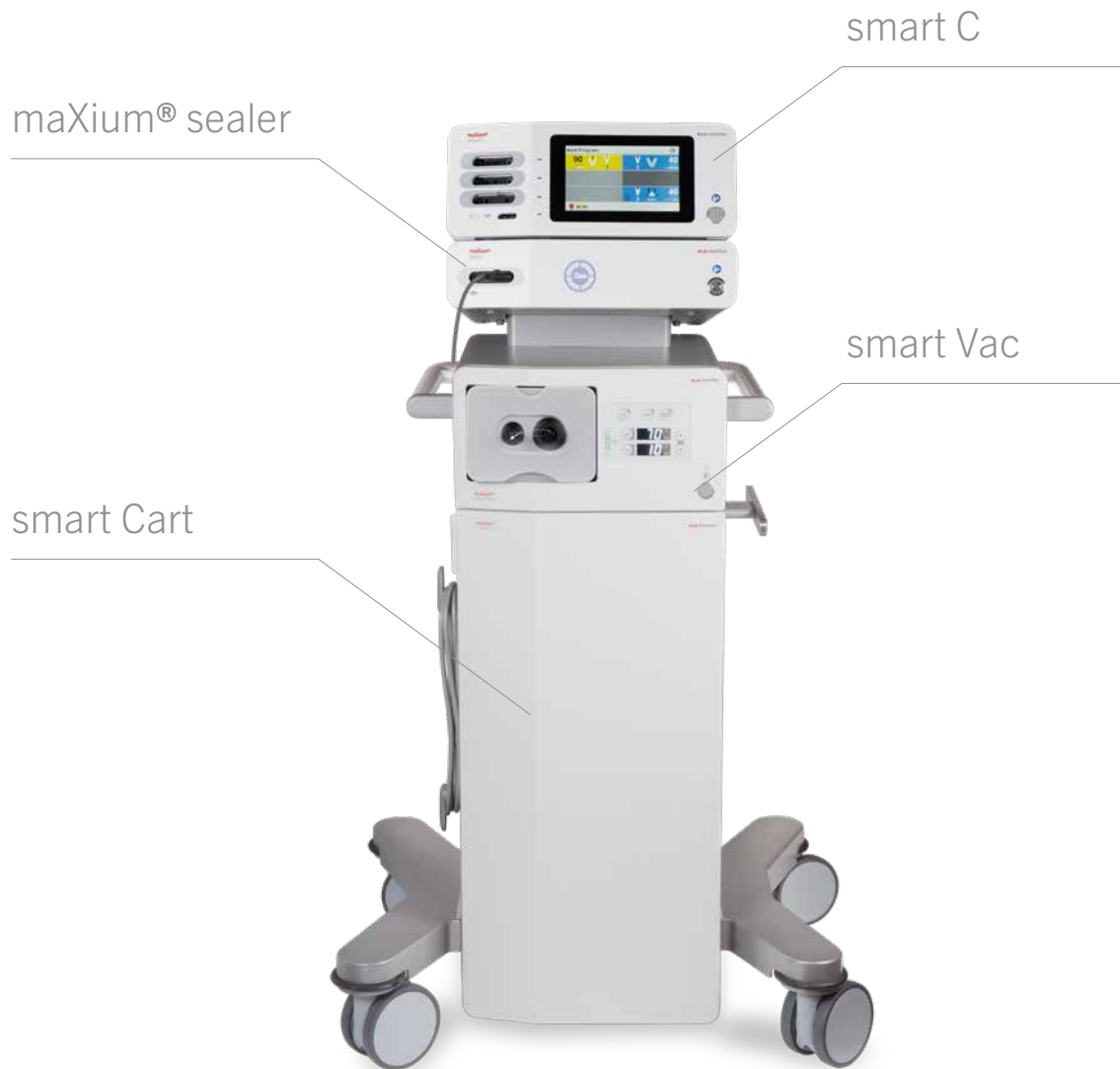


- Reliable sealing performance
- Sealing of vessels up to 7 mm Ø



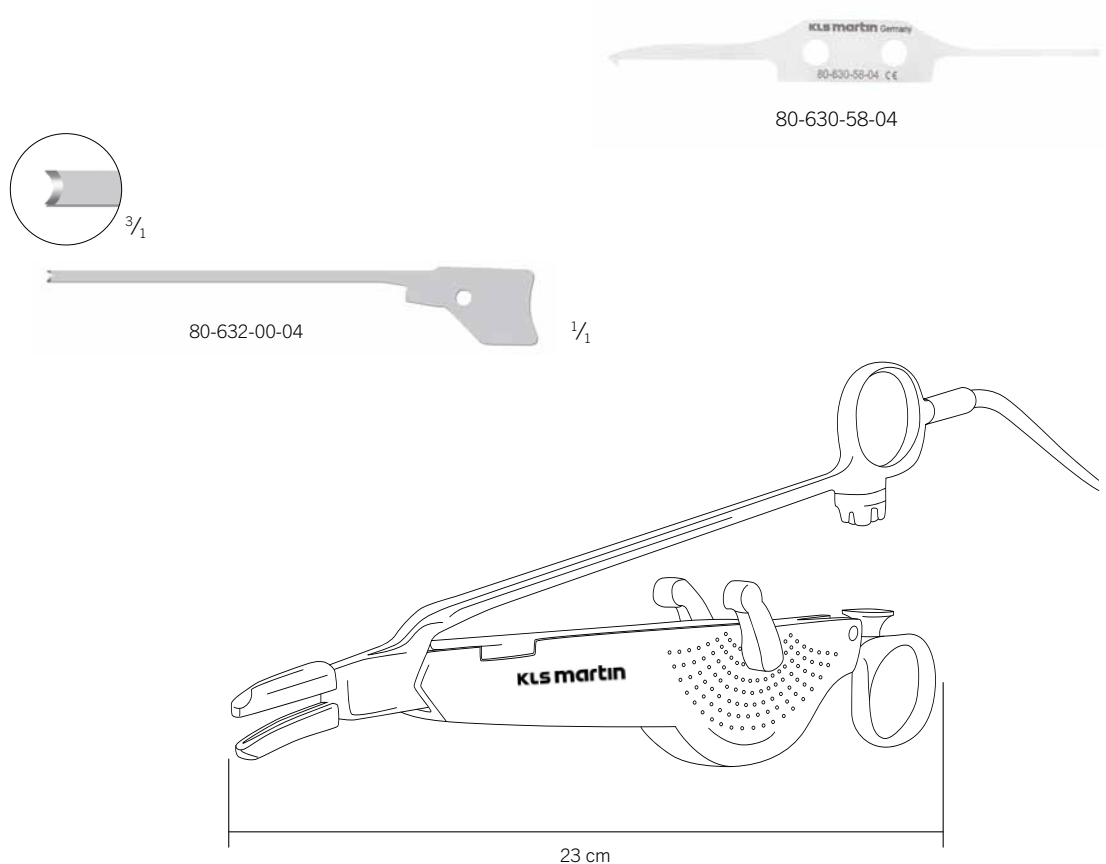
- Insulated and scratch-resistant instrument tips
- Improved heat resistance

## Product portfolio



The **smartLine** workstation and **marClamp®** Cut IQ 23 – the economically efficient solution for the OR.

## Accessories



## Ordering information

Article number	Designation
	<b>marClamp® Cut IQ 23, complete *, consisting of instrument, cleaning tool and 3 cleaning brushes</b>
80-632-23-04	marClamp® Cut IQ 23
<b>Accessories</b>	
80-632-00-04	Blade for marClamp® Cut IQ, sterile, pack of 10 pcs.
80-630-58-04	Cleaning tool
80-632-01-04	Set of cleaning brushes, 3 pcs.

\* Blades have to be ordered separately.

## Sustainability

**marClamp® Cut IQ 23 – sealing and cutting without changing the instrument and with a minimum of disposables!**

The development of reusable instruments for bipolar vessel sealing was a matter of conviction. With its reusable instruments, KLS Martin has succeeded in offering an alternative to the use of disposable instruments.

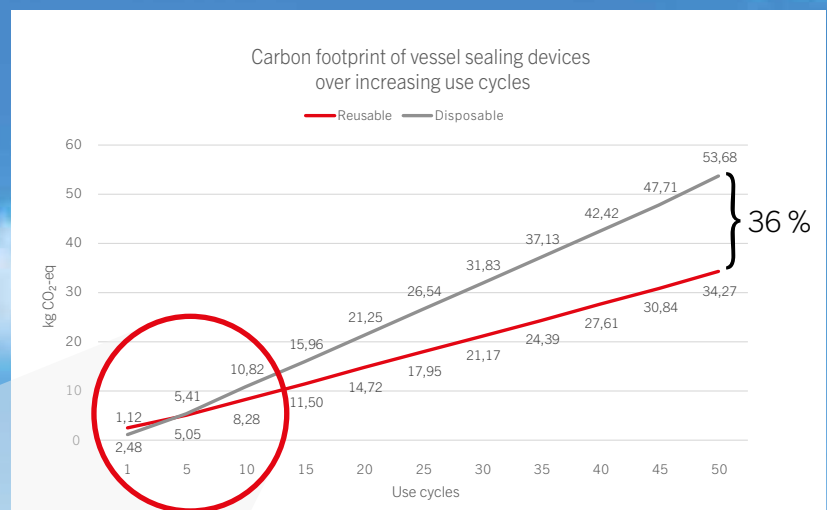
Using the marClamp® Cut IQ 23 significantly reduces the amount of hazardous waste that requires expensive disposal and is harmful to the environment. The instrument requires a minimum of disposables. Only the blades are disposable products!

By comparison: 50 blades and one marClamp® Cut IQ 23 produce approx. 0.5 kg of waste. 50 disposable products create nearly 6 kg of waste. In addition, the reusable sealing instruments also contribute significant cost savings!

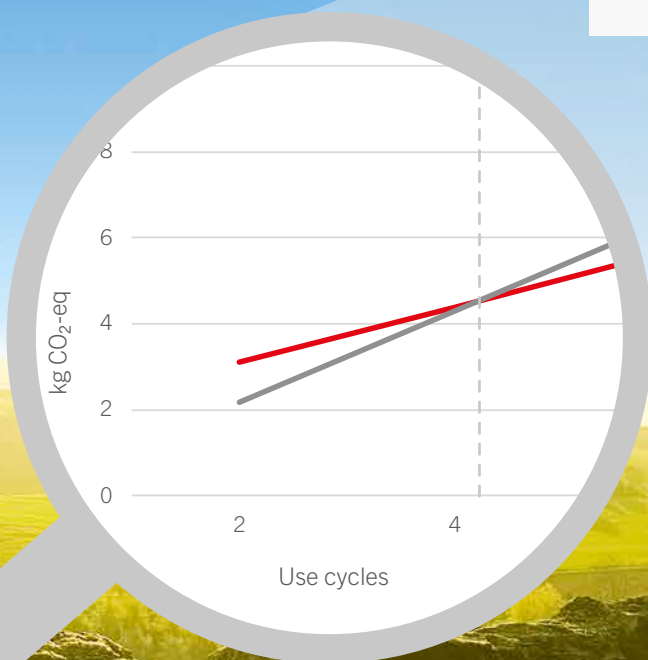


## Seal the Deal... ... and Cut the Waste

The disposable materials share of our bipolar vessel sealing instruments has been reduced to the bare minimum. Only the blade needs to be changed after the procedure. The instrument itself though, can be reused up to 50 times. When considering the entire product life cycle and comparing this reusable product versus 50 single-use products, the marClamp® Cut IQ 23 causes fewer kg CO<sub>2</sub>-equivalents from the 5th use onwards. By using our reusable solution, you can save up to 36 % of CO<sub>2</sub> emissions and thus reduce the carbon footprint of your clinic.



All data are based on the marClamp® Cut IQ 18.  
Reference: Elevating surgical sustainability:  
The advantage of reusable devices in healthcare  
(KLS Martin Group, 2024).



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