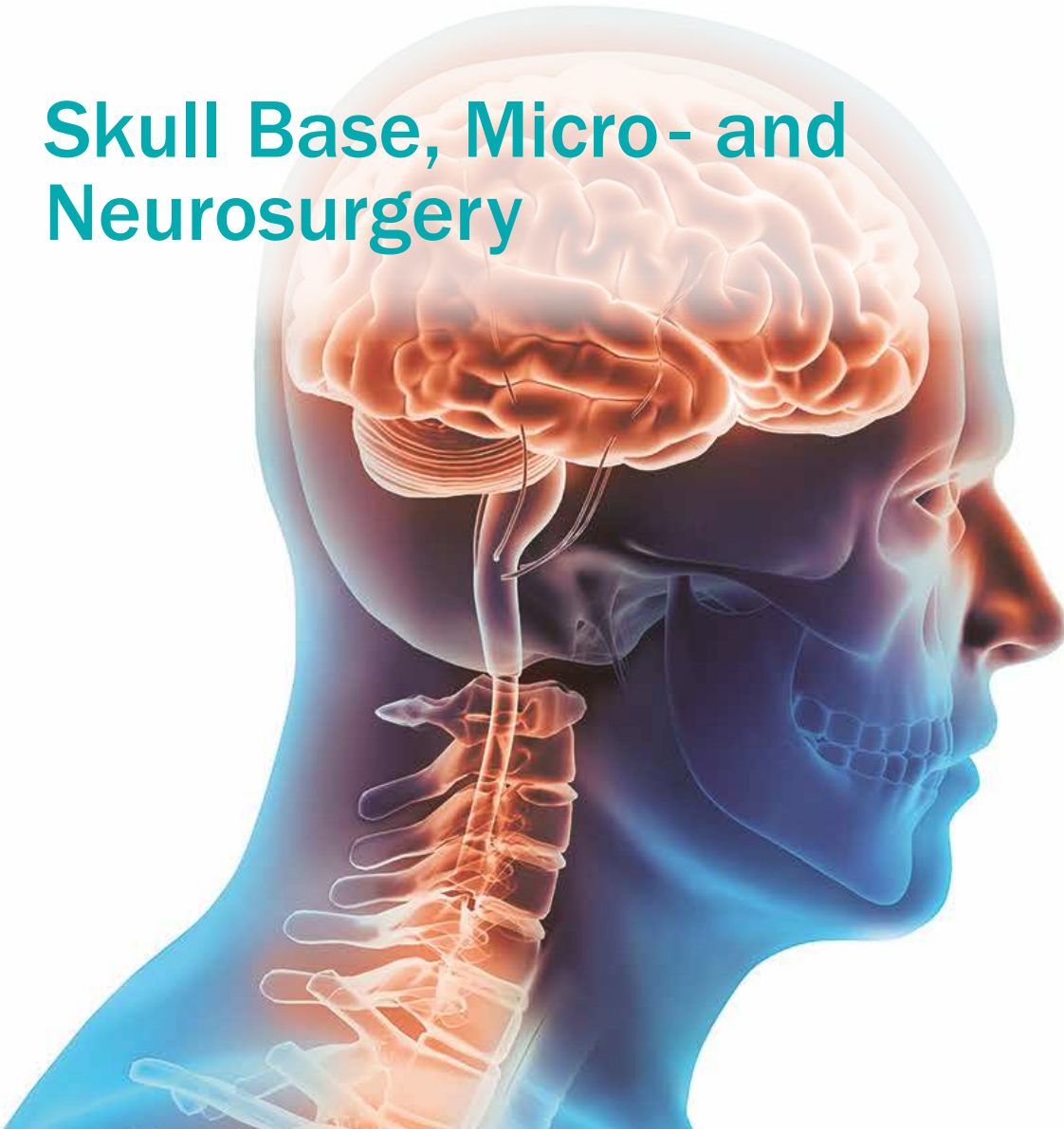




PRECISION
ELECTROSURGERY

Skull Base, Micro- and Neurosurgery



Precision for the Most Delicate Challenges

Focused 4 MHz technology for refined microsurgery.
Enabling surgeons to navigate sensitive areas.



Precision for the Most Delicate Challenges

Focused 4 MHz technology for refined microsurgery.
Enabling surgeons to navigate sensitive areas.

In microsurgery, precision, overview, and gentle procedures are important for the success of demanding operations. Sutter offers a sophisticated portfolio of solutions that are tailored to the requirements of microsurgical and minimally invasive procedures. Our 4 MHz radiofrequency technology enables focused energy delivery with minimal thermal trauma – ideal for sensitive structures in the skull base area or motor cortex.

As a pioneer in **non-stick technology**, Sutter stands for precise, tissue-preserving coagulation in the most sensitive surgical fields. Our non-stick technology forms the basis of a perfectly coordinated system: **Calvian endo-pen®** bipolar forceps enable precise dissection. The **SuperGliss® non-stick** bipolar forceps ensure controlled coagulation with minimal adhesion. In combination with the **CURIS® 4 MHz radiofrequency generators**, you benefit from reliable energy delivery, efficient workflow, and maximum control. For safety and precision in every procedure.

- 5 **Sutter 4 MHz Radiofrequency Technology**
Minimal lateral thermal damage. Better wound healing.
Precise and focused coagulation.
- 6 **CURIS® II 4 MHz Radiofrequency Generator**
Technology you can trust.
- 8 **CURIS® flow irrigation pump**
Your versatile solution.
- 10 **SuperGliss® non-stick
Bipolar Forceps**
Performance that supports you.
- 14 **Swyng® non-stick
Bipolar Forceps, single-use**
The right instrument for your surgical needs.
- 16 **Masterpiece™ non-stick
Bipolar Forceps**
Designed with precision and control in mind.
- 18 **Calvian endo-pen®
Bipolar Forceps**
One instrument—many applications.
- 21 **Calvian®
Bipolar Forceps**
Precision coagulation in hard-to-reach areas.
- 22 **ARROWtip™
monopolar microdissection electrodes**
Accuracy in a single-use design.

Sutter 4 MHz Radiofrequency Technology

Radiofrequency has found its place as a precision tool in neurosurgery and microsurgery. Numerous studies¹⁻⁶ show the advantages of the 4 MHz radiofrequency technology in comparison to other technologies. The CURIS® 4 MHz radiofrequency generators rely on 20 years of experience with our impedance-controlled 4 MHz technology.

Minimal lateral thermal damage^{2,4}

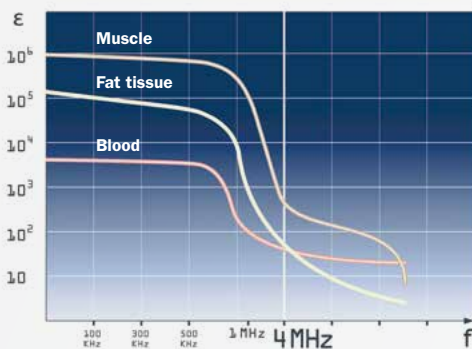
Better wound healing¹

Precise and focused coagulation^{5,6}

The advantages of the impedance-controlled 4 MHz radiofrequency technology lie in its physics

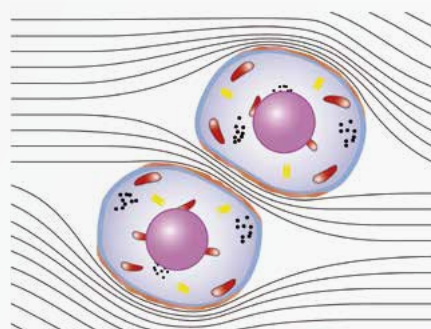
Using the CURIS® 4 MHz radiofrequency generators' energy is absorbed evenly inside the cells avoiding the energy to heat up the outer layer as it happens during conventional high frequency technology.³ This even flow of energy inside the cells make the CURIS® 4 MHz radiofrequency generators an optimal tool for both cutting and coagulation in precision electrosurgery.

Permittivity/Frequency



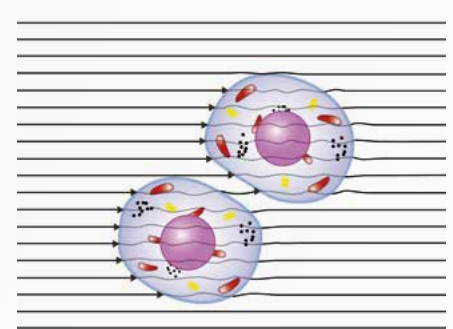
This diagram shows the permittivity of tissue, which depends on the frequency of the electromagnetic field.

Conventional electrosurgical units (between 300 - 500 kHz)



The electromagnetic field concentrates between the cells and heats up only the outer layer.³

CURIS® 4 MHz radiofrequency generators



Cell membranes are conductive and the energy is absorbed evenly inside the cells. The results are highly focussed tissue effects.³

¹ Muehlifay G et al. A study of the type of lesions achieved by three electrosurgical methods and their way of healing. Rom J Morphol Embryol, 2015.

² Hoffmann TK et al. Comparative analysis of resection tools suited for transoral robot-assisted surgery. Eur Arch Otorhinolaryngol 2014; 271:1207-13.

³ Holder, D S "Brief introduction to Bioimpedance" in: Electrical Impedance Tomography-Methods, History and Applications. IOP Publishing Ltd 2005.

⁴ Hofauer B et al. Radiofrequency in Oral and oropharyngeal tumor surgery. Auris Nasur Larynx, 2020; 47(1):148-153.

⁵ Vogt K et al. Comparison of the thermal effects of Coblation and Radiofrequency waves in a porcine turbinate model. Romanian Journal of Rhinology, 2018.

⁶ Sutter Medizintechnik, data on file, 2019.

The precision and quality of coagulation results can be observed in the effects on the tissue. A study comparing bipolar coagulations on egg yolk showed that the impedance-controlled CURIS® 4 MHz radiofrequency generator achieves **gentler effects as well as more reproducible results compared to conventional high frequency**. With each of the two generators, 100 coagulations were performed for 1, 2 and 3 seconds, respectively. The results were evaluated by three blinded analysts on a visual analog scale for three criteria: edge sharpness, homogeneity and shape of the coagulation (see fig. 1 & 2).⁶

Conventional High Frequency Generator



Fig. 1: An example of poor shape of coagulation, poor edge sharpness and poor homogeneity

CURIS® 4 MHz Radiofrequency Generator



Fig. 2: An example of good shape of coagulation, good edge sharpness and good homogeneity

The evaluations revealed a clear difference between the two generators. Overall, the impedance-controlled CURIS® 4 MHz radiofrequency generator produced **better results in terms of edge sharpness, homogeneity and shape of coagulation** compared to conventional high frequency. The coagulations produced by the CURIS® 4 MHz radiofrequency generator were evaluated in excellent range whereas the coagulations produced by the conventional high frequency generators were much less favorable (see fig. 3-5). Since all three criteria achieved better results using 4 MHz radiofrequency technology, it can be concluded that the impedance-controlled CURIS® 4 MHz radiofrequency generator leads to gentler tissue effects.⁶

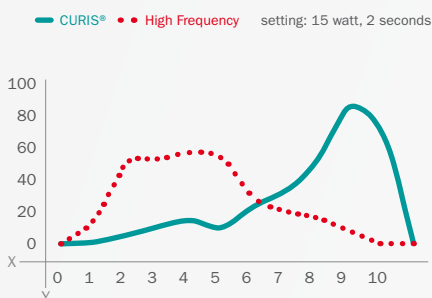


Fig. 3: Edge sharpness of coagulations at 2 seconds activation time

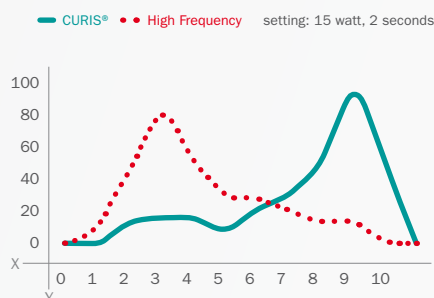


Fig. 4: Homogeneity of coagulations at 2 seconds activation time

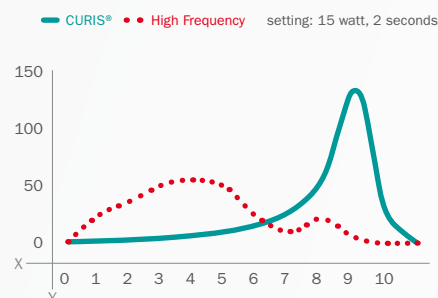


Fig. 5: Shape of coagulation at 2 seconds activation time

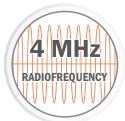
X: Evaluation on a visual analog scale from 0 ("very poor") to 10 ("excellent")
Y: Number of evaluations



Discover all advantages of our
4 MHz radiofrequency technology

CURIS® II

4 MHz Radiofrequency Generator



1 4 MHz Radiofrequency

The CURIS® II 4 MHz radiofrequency generator rely on impedance-controlled 4 MHz technology in all monopolar and bipolar modes.



2 AutoRF™

AutoRF™ is a smart impedance control function that adapts the power output of the CURIS® II 4 MHz radiofrequency generator to the tissue condition. Whether it is cutting through different types of tissue (such as mucosa, muscle, fat or connective tissue) or altering tissue conditions during coagulation, the AutoRF™ feature delivers adapted power output as required by the different tissue impedance.



3 p3™ Technology

p3™ (pulsed power performance) is active across all coagulation modes of the CURIS® II 4 MHz radiofrequency generator. The pulsed power output enables precise control of energy delivery. Short pauses between pulses support targeted coagulation while minimizing thermal spread, allowing for controlled and efficient tissue treatment.



4 COAG PRECISE

Especially developed for most precise pinpoint coagulation with micro instruments. Control provided through 0.5 W power setting adjustments.

*"Your system solution
for the most critical
and complex areas"*

optional IV-Pole
for CURIS® Cart
36 09 03

CURIS® flow Irrigation Pump

incl. IV pole mounting
bracket, main cord and
interconnecting cable

35 09 50

CURIS® II 4 MHz Radiofrequency Generator

incl. main cord, user's
manual and test protocol

36 09 02-01 * fully assembled delivered

36 09 02-05 ** for set-assembly

CURIS® Cart

incl. storage drawer and
mounting set for CURIS®
and CURIS® II generator

36 09 02

Foot switch

with two pedal
and flush button

36 01 12

Foot switch

with one pedal
and flush button

36 01 08



"The Sutter RF generator has meaningfully improved my surgical workflow by virtually eliminating char buildup, which keeps the operative field cleaner and reduces the need for repeated instrument cleaning. The precision of its cauterization is noticeably superior, delivering consistent, controlled coagulation that gives me greater confidence during delicate procedures. It has become an indispensable tool in my practice."

Tomas Garzon-Muvdi, MD
Atlanta (USA)

CURIS® flow

Irrigation Pump

The CURIS® flow irrigation pump seamlessly integrates into surgical workflows. It can be utilized as a full-range solution alongside our CURIS® 4 MHz Radiofrequency Generators for comprehensive electrosurgery procedures. Alternatively, it functions brilliantly as a stand-alone device. Moreover, the CURIS® flow is compatible with various irrigation tubing sets available on the market.

Advanced Flow Control Technology
from 0 to 20 ml/min.

The Memory Function of the CURIS® flow
saves the last used flow setting.

Rotary knob for quick
flow setting adjustment.

PAUSE function

Interrupts the supply of irrigation fluid.

FLUSH function

Activates CURIS® flow at its max. flowrate. Ideal for priming the tubing set easily and quickly during the start-up or for temporary maximum irrigation during an intervention.

OPTIONAL ACCESSORIES:

Foot switch

CURIS® flow one-pedal
footswitch with push-button
36 01 15



single-use

Compatible Sutter irrigation
bipolar cord set, single-use
CD933-SUT



„Your versatile solution“

CURIS® *flow*



“The CURIS® 4 MHz radiofrequency generator provides unparalleled precision to the neurosurgeon seeking optimal control in neurosurgical cases. I found the ability to perform pinpoint coagulation with minimal thermal and electrical spread increasing the safety and efficacy of my operations.”

Ali Zomorodi, MD
Durham, NC (USA)

Compatible with Sutter reusable and disposable bipolar irrigation forceps lines.

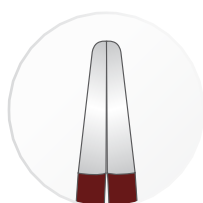
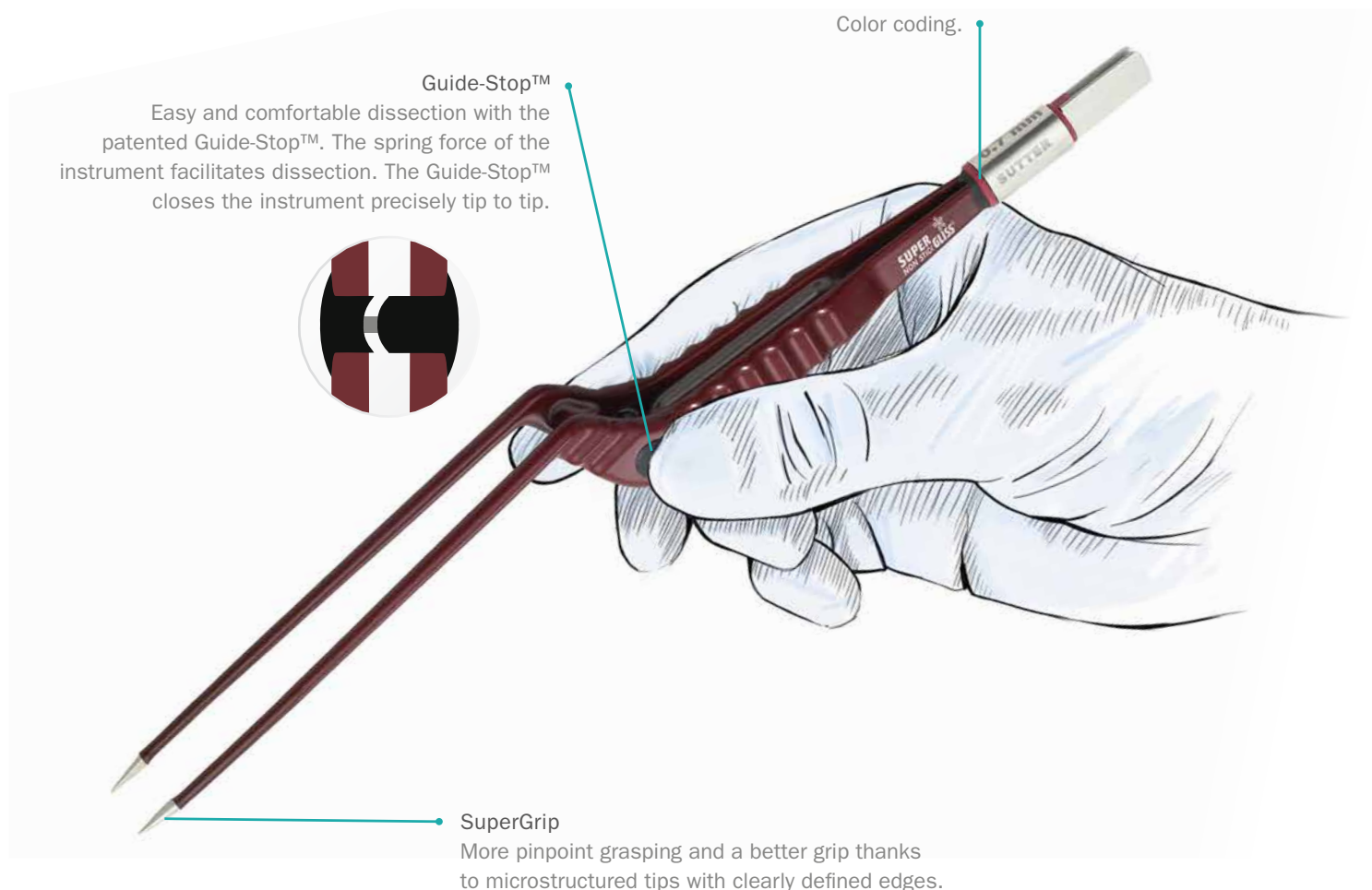


Reusable bipolar irrigation forceps

 single-use

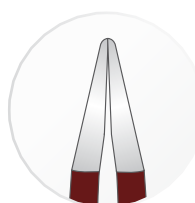


Swyng® non-stick dual irrigating bipolar forceps, single-use



8 mm

The **classic** plateau shape gives instruments a strong grip, and allows dissection, grasping and coagulation of larger structures and vessels.

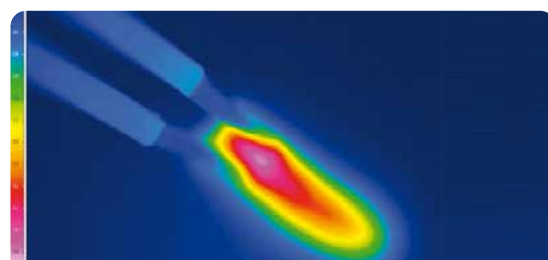


8 mm

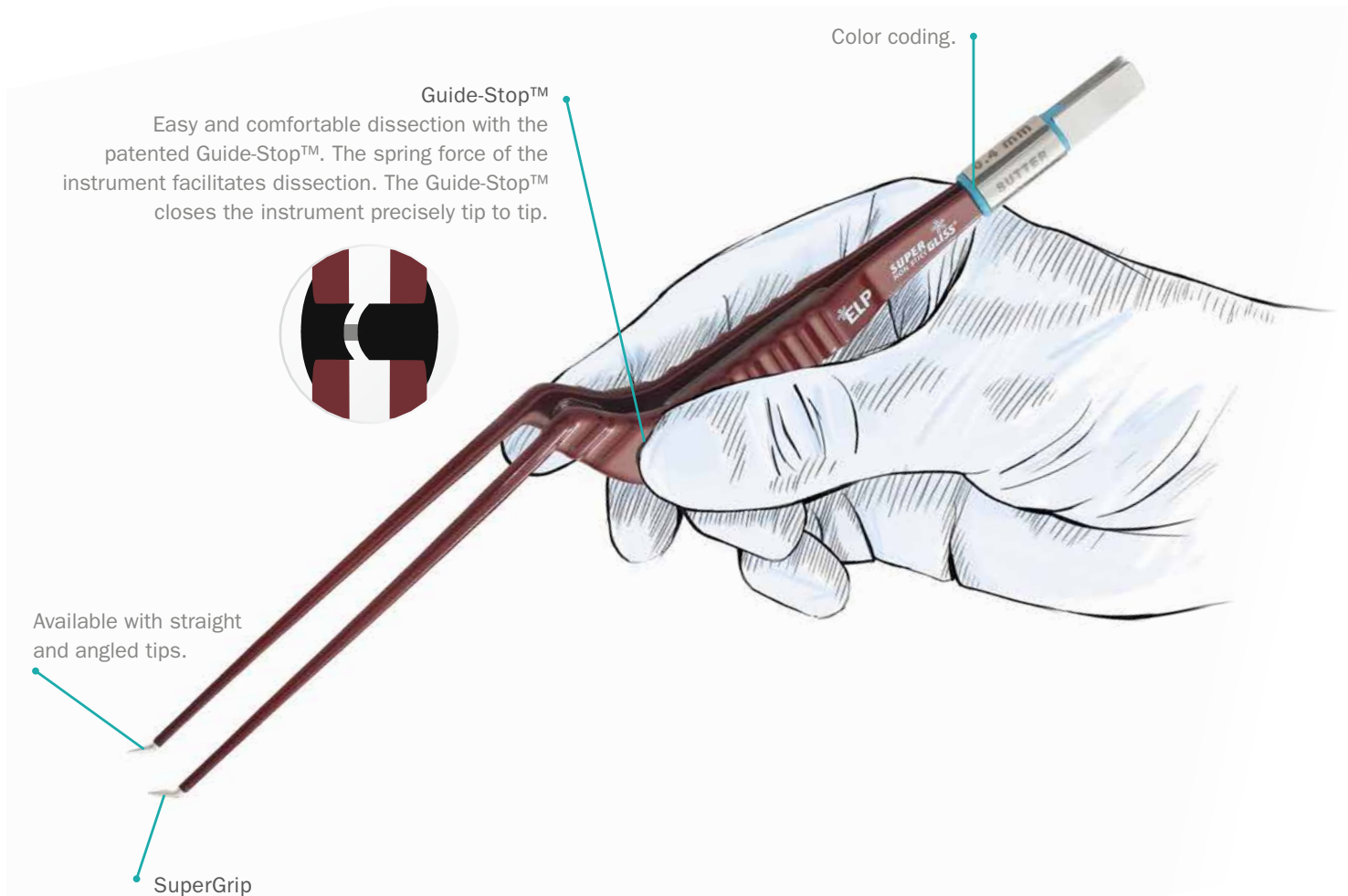
The **MicroTip** geometry makes the insulation disappear from the surgeon's sight and opens up the view through the tips.

SuperGliss® non-stick Technology

The material specially developed for SuperGliss® non-stick bipolar forceps prevents overheating of the tips during coagulation. Laboratory tests confirm the non-stick properties that last throughout the lifetime of the instrument.



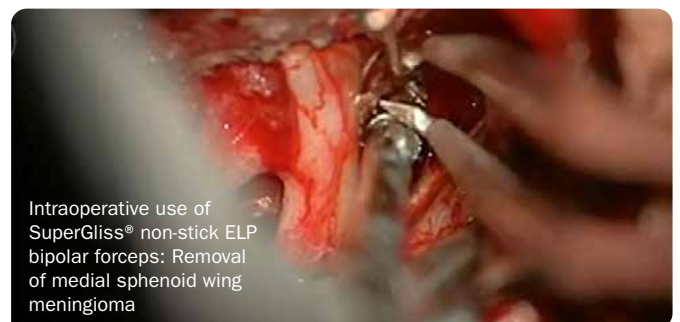
SuperGliss® non-stick tips remain cool.



More pinpoint grasping and a better grip thanks to microstructured tips with clearly defined edges.

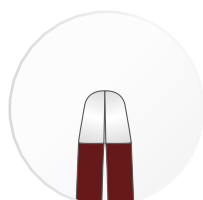
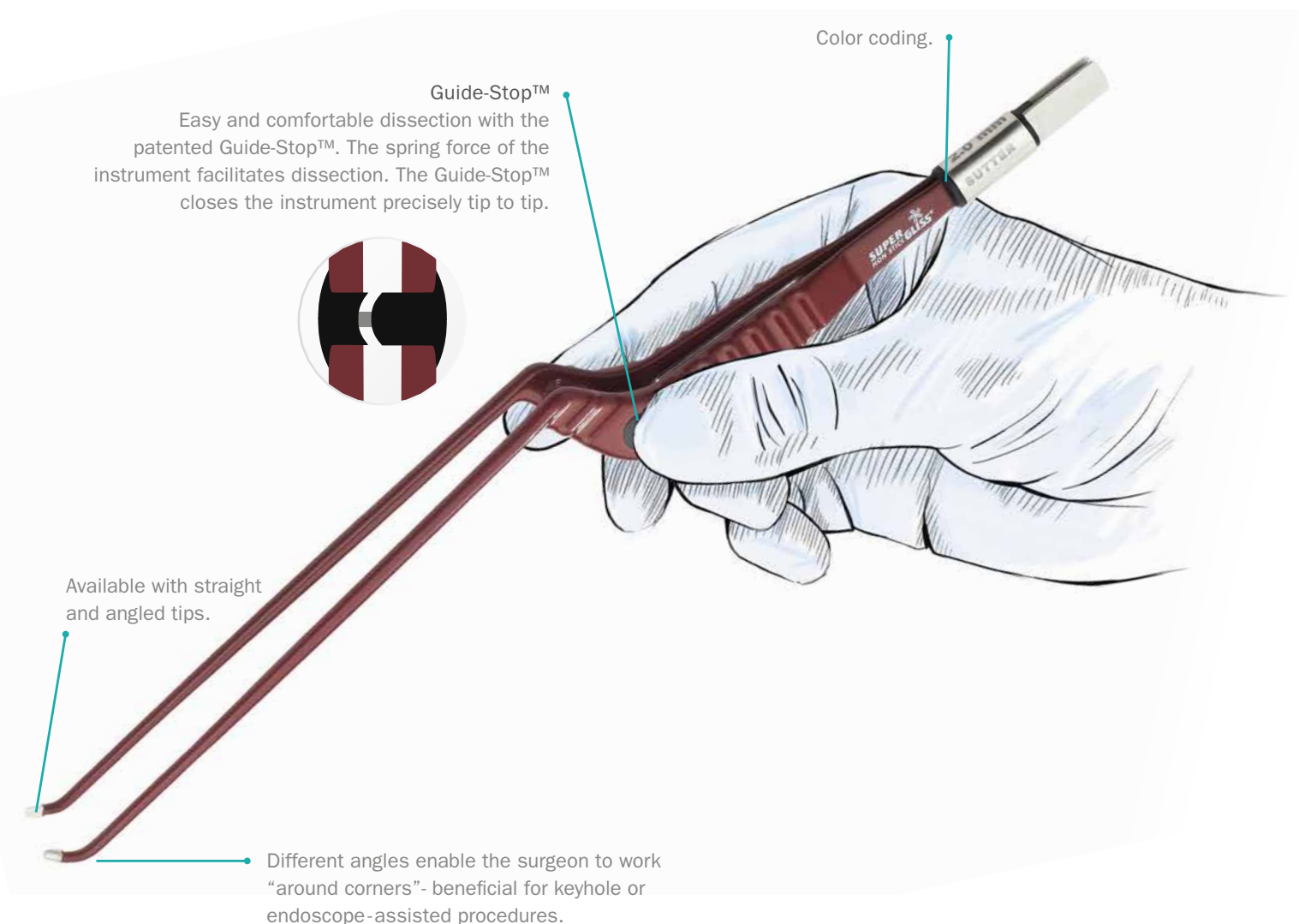


The **Extra Low Profile (ELP)** tips are shorter and more delicate. They are designed to meet the challenges of fine, microsurgical interventions.



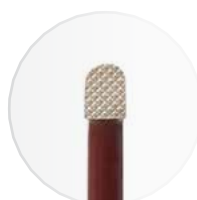
“The design and construction of the SuperGliss® non-stick ELP bipolar forceps with different angles and sizes represent a technical innovation that can lead to improved surgical outcomes. These bipolar forceps enhance the quality and quantity of tumor and tissue resection and dissection in skull base surgery and open the possibility of new surgical approaches to microscopic tumor resection and hemorrhage coagulation in the anatomical areas of the skull base.”

Uta Schick, MD
Münster (Germany)



3mm

The **TEO** tips offer more insulation towards the distal tip. In addition they are shorter and rounder compared to the other SuperGliss® non-stick models.

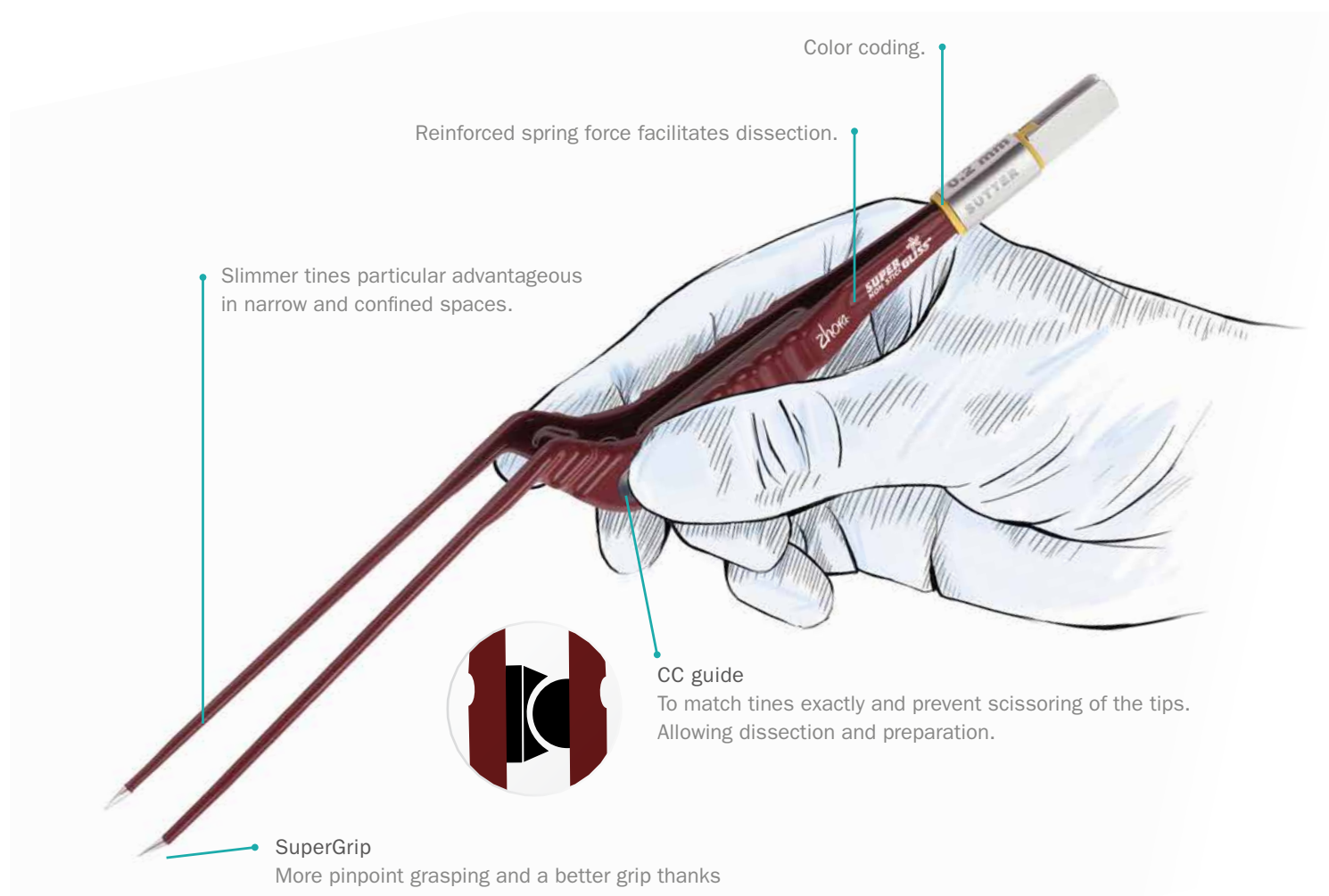


The serrated **TEO** tips provide an even better grip for improved grasping of tissue.



“These Sutter bipolar forceps offer the versatility required for standard microsurgery and endoscope-assisted surgery. They are well-balanced, have a minimal amount of non-insulated ends for obvious safety benefits, tips with different thickness for different tissues, various angled tips for different viewing angles, and good grip. I believe they are the best bipolar forceps on the market.”

Charlie Teo, MD



5mm

The zhora tines are specially delicate. Due to their tip design by a 10° upward skew, the tips are clearly visible in the operating field.



Discover our complete SuperGliss® non-stick bipolar forceps line



"The sharp tips allow a precision that surpasses all other bipolar forceps I have used throughout my career. The forceps are well-balanced and the tines are very slender, but strong. With the small upward angulation of the tips, the SuperGliss® non-stick zhora bipolar forceps are perfect for skull base tumors in deep and narrow fields, as well as for more superficial, minimally invasive procedures."

Torstein R. Meling, MD
Rigshospitalet Copenhagen (Denmark)

Swyng® non-stick

Bipolar forceps, single-use



*The right instrument
for your surgical needs*

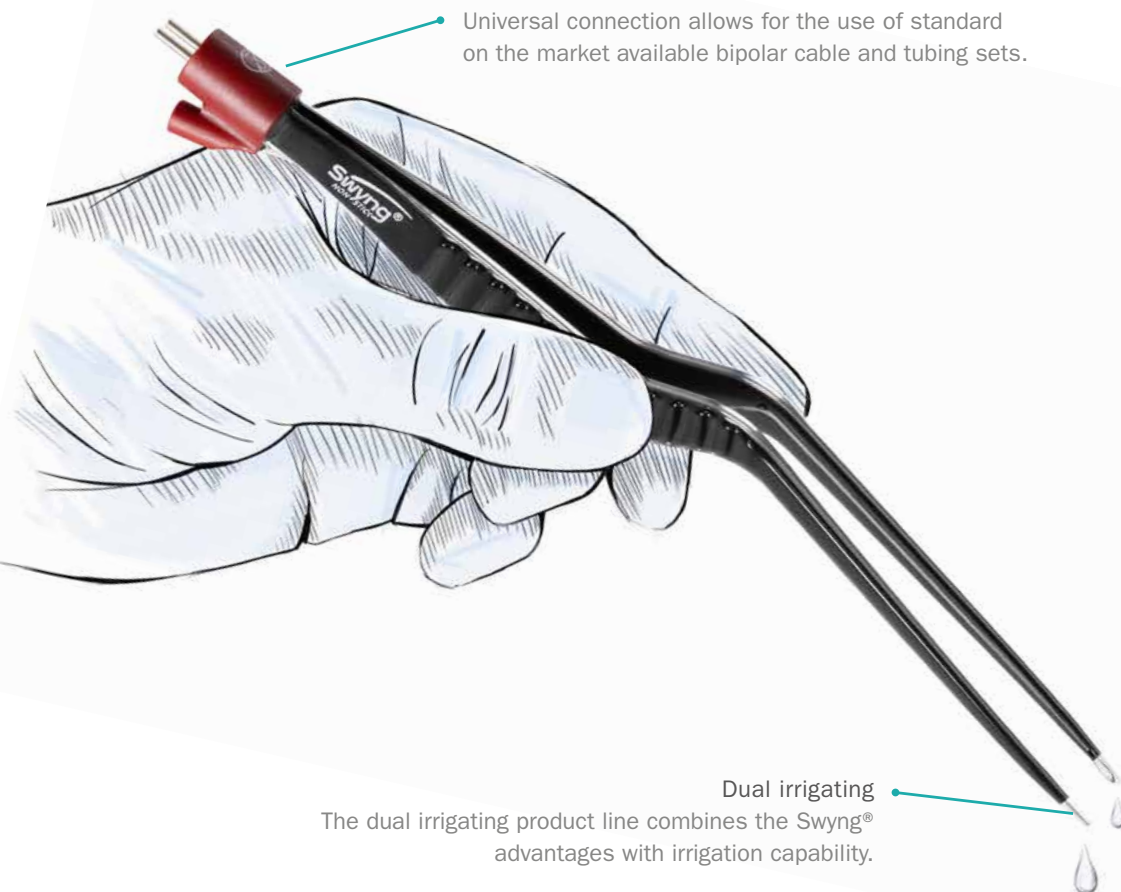
Large Product Portfolio

- three product lines: Standard, Slim and Dual Irrigating
- 27 different models
- straight and angled tip styles available
- three lengths and tip sizes available

non-stick technology

Our proprietary non-stick technology was developed to reduce sticking and charring during coagulation – thanks to optimal heat transfer capabilities.

Swyng® non-stick dual irrigating bipolar forceps, single-use



Swyng® non-stick bipolar forceps, single-use

Swyng®
NON-STICK

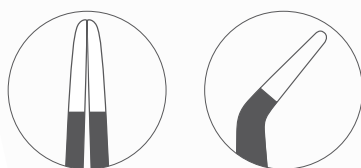


single-use

Available with
and without guide.

Light weight and
optimal balance.

Available with US
2-pin connector only.



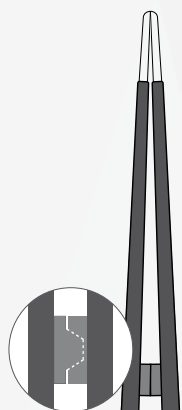
Available with straight
and angled tips.

Dynamic curved shape for improved comfort.

Non-stick tips with optimal heat transfer capabilities.

Swyng® Standard

The pylon guide prevents scissoring of the tips and facilitates the precise coagulation and dissection in your surgical cases.



Swyng® Slim

The slim profile was designed for improved visualization of the surgical field, even in narrow operating corridors.



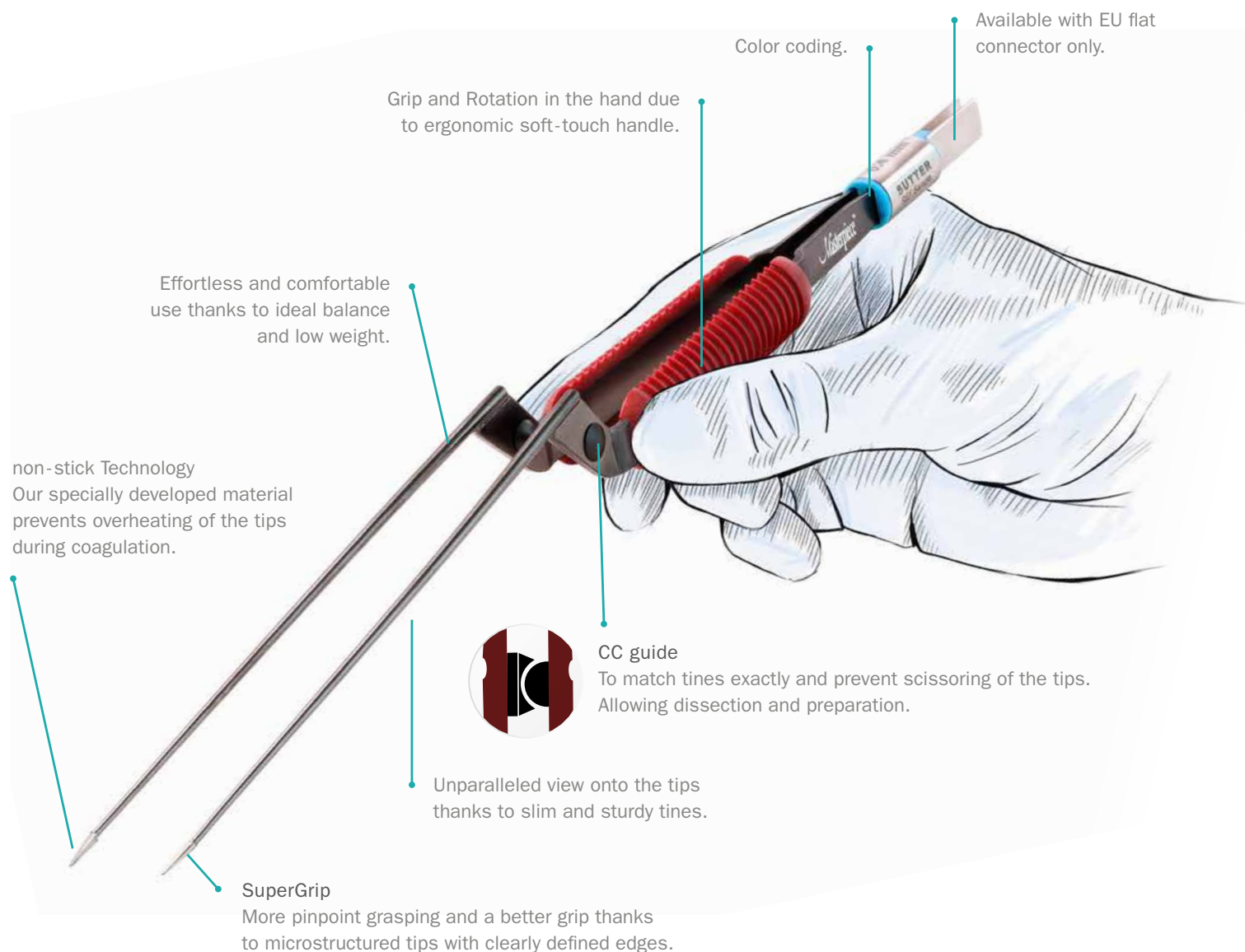
Standard



Discover our complete Swyng®
non-stick bipolar forceps line

Masterpiece™ non-stick

Bipolar Forceps



4mm

The **MicroTip** geometry opens up the view to the tips. Available in a tip width of 0.2 mm and 0.4 mm.

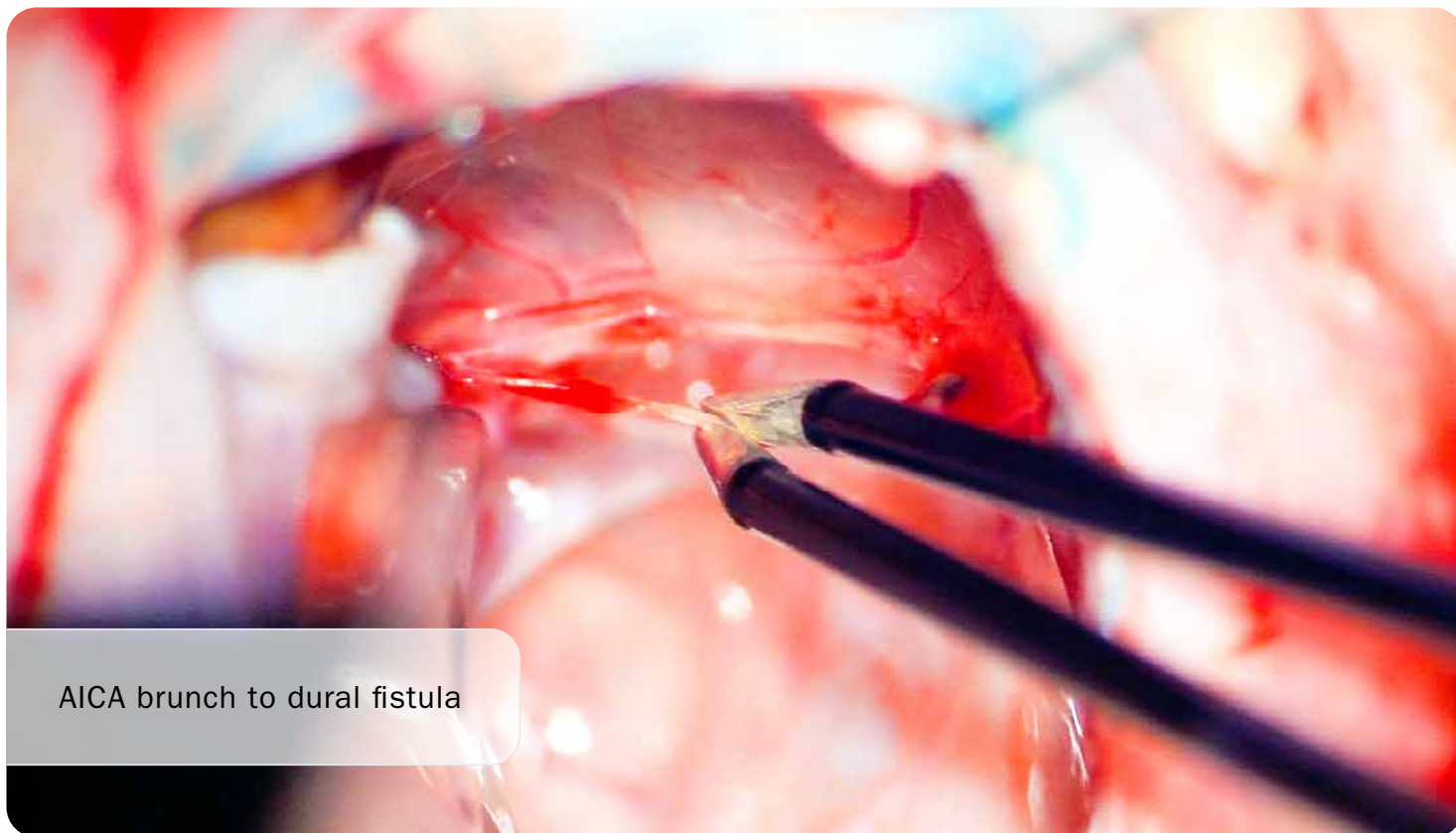


6mm

The **Classic** plateau-shaped tips are available in a tip width of 0.4 mm and 0.7 mm.



Discover our complete Masterpiece™ non-stick bipolar forceps line



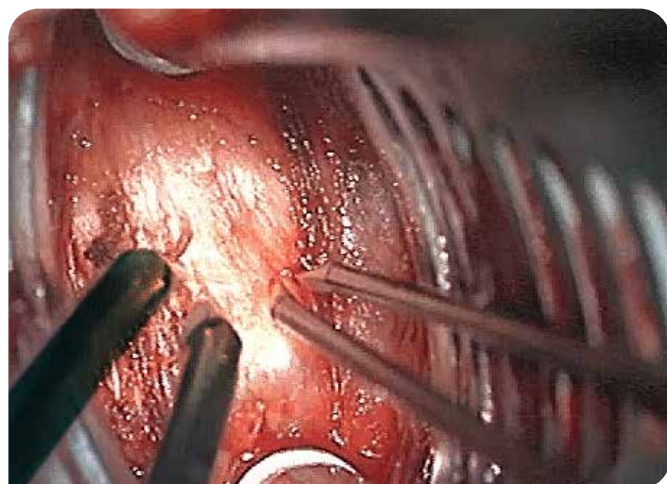
AICA brunch to dural fistula

Coagulation of AICA (Arteria cerebelli anterior inferior) brunch to dural fistula with Masterpiece™ non-stick bipolar forceps.

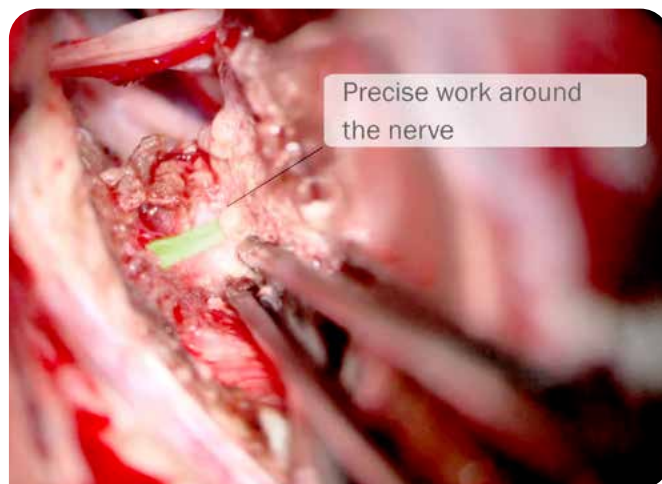


The Masterpiece™ non-stick bipolar forceps were designed with precision and control in mind. I use the Masterpiece™ non-stick bipolar forceps for the precise coagulation of small-diameter vessels in narrow spaces. Fine tips, slim tines and easy rotation add to your skills and improve your performance even at targets far from the surface. The non-stick material reduces charring and sticking.

S. Rosahl, MD
Erfurt (Germany)



Masterpiece™ non-stick bipolar forceps vs conventional bipolar forceps.



Masterpiece™ non-stick bipolar forceps allow precise and focused coagulation.

Calvian endo-pen®

Bipolar Forceps



“The non-stick endo-pen by Sutter is a game changer.
It’s my go to bipolar for all endoscopic surgery”.

Paul Gardner, MD, New York, NY (USA)



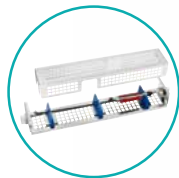
“The Calvian endo-pen® bipolar forceps are a highly effective means of coagulation and
can be safely used for minimally invasive endoscopic endonasal transsphenoidal surgery”.

R. Gerlach, MD
Erfurt (Germany)

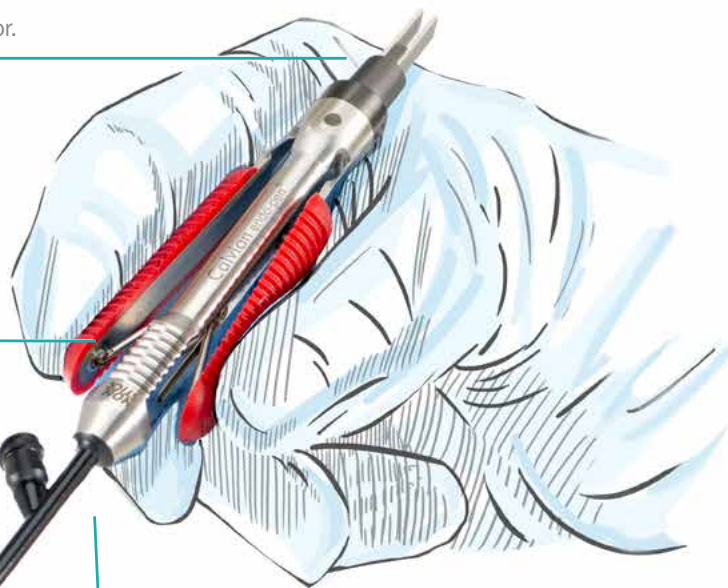
Available with EU flat connector and US 2-pin connector.



Forceps-like handle, ergonomic and rotatable.

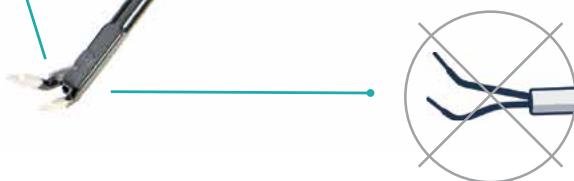


Reusable and autoclavable, comes with an instrument tray for safe cleaning and sterilization.

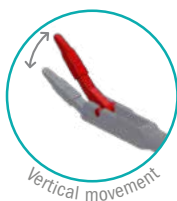


No assembly, no loose parts.

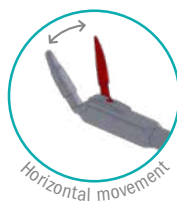
Most Calvian endo-pen® are available as non-stick versions.



Sturdy tips for precise dissection and bipolar coagulation of soft tissue.



Vertical movement



Horizontal movement

Wide product range, different tip width between 0.4 mm and 2.5 mm, as well as 15°, 35°, 45° and 70° angles available.

Calvian endo-pen®

Bipolar Forceps



Calvian endo-pen® curved, tip 1.0 mm, 35° angled up



“The curved endo-pen is innovatively designed for endonasal surgery of the anterior cranial base. Its design enables precise access to the ethmoid arteries, facilitating hemostasis while minimizing morbidity to the surrounding anatomy, including the orbit and skull base. It’s my instrument of choice in addressing bleeding during endoscopic craniofacial resections, reducing meningoencephaloceles from the anterior cranial fossa, and arterial control in cases of severe epistaxis — an indispensable instrument for any endoscopic cranial base surgeon.”

Kibwei A. McKinney, MD, SSM Health Medical Group (USA)

One instrument – many applications

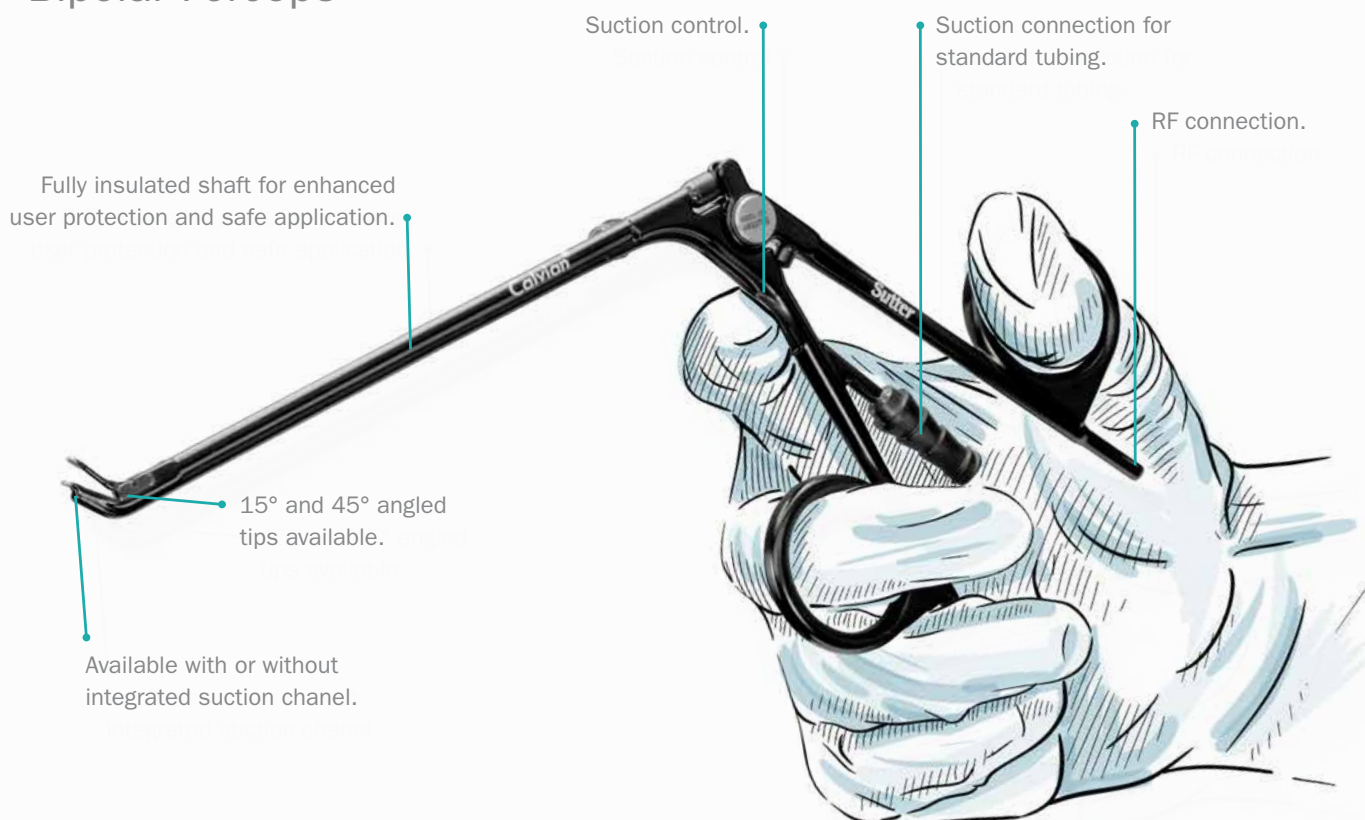
Calvian endo-pen® offers versatility in the operating room for a wide range of indications



Discover our complete Calvian endo-pen® bipolar forceps line

Calvian®

Bipolar Forceps



Discover our complete Calvian® bipolar forceps line

Calvian® duckbill+ Improved design

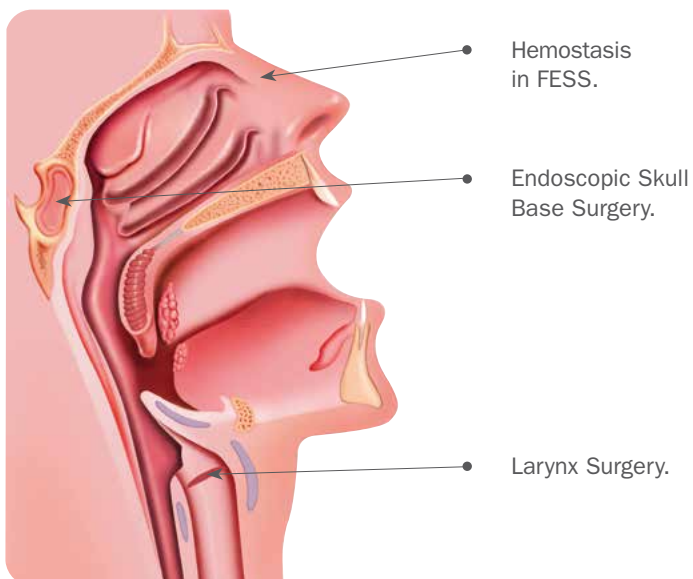


Front-end coagulation is possible.



Hard-to-reach vessels and structures can be coagulated thanks to the recessed opening of the suction channel.

Application areas of the Calvian® bipolar forceps



ARROWtip™

monopolar microdissection electrodes



Heat-resistant material
maintains tip sharpness.

Hexagonal shape prevents
unwanted rotation of the electrode.

High-performance insulation
prevents accidental burns.

Ultra-sharp tips for clean and
precise dissection of tissue.

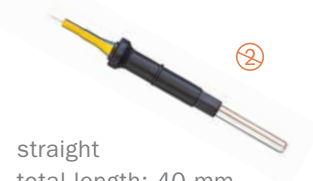


“Endoscopic endonasal sinus surgery demands subtle hemostasis and the precise cutting performance of the instruments employed. The disadvantages of “cold steel” can be levelled out favorably by the application of radiofrequency current through an angled probe.”

T. Kühnel, MD, Regensburg (Germany)

ARROWtip™

monopolar microdissection electrode
single-use



straight
total length: 40 mm

36 44 10

ARROWtip™

monopolar microdissection electrode
single-use



45° angled
total length: 53 mm

36 44 21

ARROWtip™

monopolar microdissection electrode
single-use



straight
total length: 53 mm

36 44 20



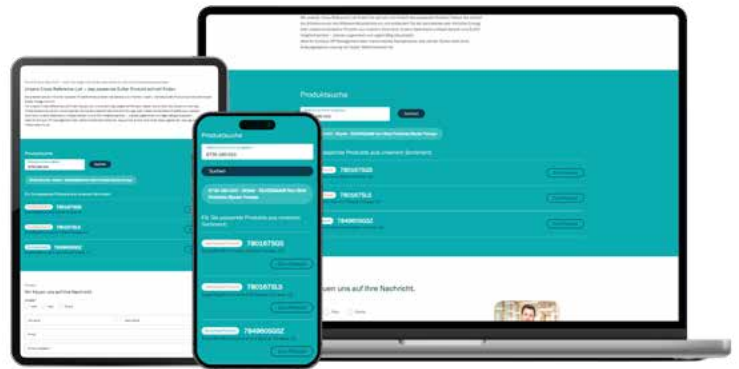
Discover our complete ARROWtip™
monopolar microdissection electrodes

*Are you currently
using bipolar forceps from
another manufacturer?*

Discover Your Sutter Alternatives

Our cross-reference tool shows you our Sutter alternatives to over 6,000 competitor products.

Simply enter the item number and discover suitable Sutter options right away.



Enter reference number – find the right
Sutter alternative in seconds

Follow Us to the World's Leading Events

Here you will find information on all upcoming events where we will be present. Take the opportunity to learn more about our latest medical technologies, connect with our experts, and gain insights into current trends in medical technology. Whether at trade fairs, conferences, or symposiums – we look forward to welcoming you at one of our events and introducing you to our innovations. Stay connected with us and discover how we are shaping the future of medicine.



We look forward to welcoming
you at our booth

*Visit us at these upcoming congresses,
training courses and trade shows*

Product availability is subject to regulatory approval in individual markets. Products may therefore not be available in all markets.

The listed lengths and sizes serve as a guideline and may be rounded up or down. The actual lengths may vary slightly.

CURIS® II 4MHz Radiofrequency Generator

36 01 00 – 05	CURIS® II 4 MHz radiofrequency generator (incl. main cord, user´s manual and test protocol)
36 01 08	Foot switch with one pedal and flush button (coag only) cable length: 4m (~13ft.)
36 01 12	Foot switch with two pedals and flush button (cut & coag only) cable length: 4m (~13ft.)
36 01 07	Foot switch with one pedal (coag only) cable length: 4m (~13ft.)
36 01 14	Foot switch with two pedals (cut & coag) cable length: 4m (~13ft.)
36 09 02 – 01	CURIS® Cart (incl. storage drawer and mounting set for CURIS® and CURIS® II generator)
36 09 03	Optional IV-Pole for CURIS® Cart

CURIS® flow Irrigation Pump

36 09 50	CURIS® flow Irrigation pump (incl. IV pole mounting bracket and interconnecting cable)
36 01 15	CURIS® flow one-pedal footswitch with push-button
CD933 – SUT	Sutter Irrigation bipolar cord set, single-use (5 pcs / package)

SuperGliss® non-stick Bipolar Forceps

78 04 49 SG	SuperGliss® non-stick bipolar forceps	working length 4.0 cm (1.5"), total length 15.5 cm (6.0"), bayonet	MicroTip, tip 0.2 x 8.0 mm
78 01 49 SG	SuperGliss® non-stick bipolar forceps	working length 4.0 cm (1.5"), total length 15.5 cm (6.0"), bayonet	MicroTip, tip 0.4 x 8.0 mm
78 01 48 SG	SuperGliss® non-stick bipolar forceps	working length 4.0 cm (1.5"), total length 15.5 cm (6.0"), bayonet	MicroTip, tip 0.7 x 8.0 mm
78 04 69 SG	SuperGliss® non-stick bipolar forceps	working length 5.5 cm (2.25"), total length 17.0 cm (6.75"), bayonet	MicroTip, tip 0.2 x 8.0 mm
78 01 69 SG	SuperGliss® non-stick bipolar forceps	working length 5.5 cm (2.25"), total length 17.0 cm (6.75"), bayonet	MicroTip, tip 0.4 x 8.0 mm
78 01 68 SG	SuperGliss® non-stick bipolar forceps	working length 5.5 cm (2.25"), total length 17.0 cm (6.75"), bayonet	MicroTip, tip 0.7 x 8.0 mm
78 01 67 SG	SuperGliss® non-stick bipolar forceps	working length 5.5 cm (2.25"), total length 17.0 cm (6.75"), bayonet	tip 1.0 x 8.0 mm
78 24 89 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	MicroTip,tip 0.2 x 8.0 mm
78 21 89 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	MicroTip, tip 0.4 x 8.0 mm
78 21 83 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	MicroTip, tip 0.7 x 8.0 mm
78 21 81 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	tip 1.0 x 8.0 mm
78 21 84 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	tip 1.2 x 8.0 mm
78 21 80 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	tip 1.5 x 8.0 mm
78 21 82 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	tip 2.0 x 8.0 mm
78 22 85 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	tip 1.2 x 8.0 mm, 45° angled down
78 22 88 SG	SuperGliss® non-stick bipolar forceps	working length 8.5 cm (3.25"), total length 20.0 cm (8.0"), bayonet	tip 1.2 x 8.0 mm, 45° angled up
78 04 99 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	MicroTip, tip 0.2 x 8.0 mm
78 01 99 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	MicroTip, tip 0.4 x 8.0 mm
78 01 91 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	MicroTip, tip 0.7 x 8.0 mm
78 01 98 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 1.0 x 8.0 mm
78 01 92 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 1.2 x 8.0 mm
78 01 90 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 1.5 x 8.0 mm
78 01 93 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 2.0 x 8.0 mm
78 01 94 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 0.7 x 8.0 mm, 45° angled up
78 01 96 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 0.7 x 8.0 mm, 45° angled down
78 01 95 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 1.2 x 8.0 mm, 45° angled up
78 01 97 SG	SuperGliss® non-stick bipolar forceps	working length 11.5 cm (4.5"), total length 23.0 cm (9.0"), bayonet	tip 1.2 x 8.0 mm, 45° angled down
78 05 99 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	MicroTip, tip 0.2 x 8.0 mm
78 02 99 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	MicroTip, tip 0.4 x 8.0 mm
78 02 91 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	MicroTip, tip 0.7 x 8.0 mm
78 02 98 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	tip 1.0 x 8.0 mm
78 02 92 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	tip 1.2 x 8.0 mm
78 02 94 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	tip 0.7 x 8.0 mm, 45° angled up
78 02 96 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	tip 0.7 x 8.0 mm, 45° angled down
78 02 95 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	tip 1.2 x 8.0 mm, 45° angled up
78 02 97 SG	SuperGliss® non-stick bipolar forceps	working length 13.5 cm (5.25"), total length 25.0 cm (9.75"), bayonet	tip 1.2 x 8.0 mm, 45° angled down
78 03 92 SG	SuperGliss® non-stick bipolar forceps	working length 15.5 cm (6.0"), total length 27.0 cm (10.6"), bajonet	tip 1.2 x 8.0 mm
78 03 99 SG	SuperGliss® non-stick bipolar forceps	working length 15.5 cm (6.0"), total length 27.0 cm (10.6"), bajonet	MicroTip, tip 0.4 x 8.0 mm
78 03 91 SG	SuperGliss® non-stick bipolar forceps	working length 15.5 cm (6.0"), total length 27.0 cm (10.6"), bajonet	MicroTip, tip 0.7 x 8.0 mm
78 03 94 SG	SuperGliss® non-stick bipolar forceps	working length 15.5 cm (6.0"), total length 27.0 cm (10.6"), bajonet	tip 0.7 x 8.0 mm, 45° angled up
78 03 95 SG	SuperGliss® non-stick bipolar forceps	working length 15.5 cm (6.0"), total length 27.0 cm (10.6"), bajonet	tip 1.2 x 8.0 mm, 45° angled up
78 03 81 SG	SuperGliss® non-stick bipolar forceps	working length 17.5 cm (6.8"), total length 29.0 cm (11.4"), bayonet	MicroTip, tip 0.7 x 8.0 mm

Swyng® non-stick Bipolar Forceps, single use

78 44 905 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 19.0 cm (7.5"), working length 6.0 cm (2.5"), bayonet	tip 0.5 mm
78 44 910 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 19.0 cm (7.5"), working length 6.0 cm (2.5"), bayonet	tip 1.0 mm
78 44 915 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 19.0 cm (7.5"), working length 6.0 cm (2.5"), bayonet	tip 1.5 mm
78 44 105 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 0.5 mm
78 44 110 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.0 mm
78 44 115 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.5 mm
78 44 710 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.0 mm, 45° angled up
78 44 810 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.0 mm, 45° angled down
78 44 405 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 0.5 mm
78 44 410 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.0 mm
78 44 415 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.5 mm
78 44 610 ST	Swyng ® non-stick Standard bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.0 mm, 45° angled up

78 44 105 SL	Swyng ® non-stick Slim bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 0.5 mm
78 44 110 SL	Swyng ® non-stick Slim bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.0 mm
78 44 115 SL	Swyng ® non-stick Slim bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.5 mm
78 44 405 SL	Swyng ® non-stick Slim bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 0.5 mm
78 44 410 SL	Swyng ® non-stick Slim bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.0 mm
78 44 415 SL	Swyng ® non-stick Slim bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.5 mm

Swyng® non-stick Dual Irrigating Bipolar Forceps, single use

78 44 905 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 19.0 cm (7.5"), working length 6.0 cm (2.5"), bayonet	tip 0.5 mm
78 44 910 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 19.0 cm (7.5"), working length 6.0 cm (2.5"), bayonet	tip 1.0 mm
78 44 915 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 19.0 cm (7.5"), working length 6.0 cm (2.5"), bayonet	tip 1.5 mm
78 44 105 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 0.5 mm
78 44 110 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.0 mm
78 44 115 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 21.0 cm (8.25"), working length 8.0 cm (3.0"), bayonet	tip 1.5 mm
78 44 405 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 0.5 mm
78 44 410 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.0 mm
78 44 415 STI	Swyng ® non-stick dual irrigating bipolar forceps, single-use	total length 24.0 cm (9.5"), working length 11.0 cm (4.25"), bayonet	tip 1.5 mm

Bipolar Irrigation Forceps

70 08 71 S	Bipolar irrigation forceps	total length 20.0 cm (8.0"), working length 9.0 cm (3.5")	tip 1.5 mm
70 08 80 S	Bipolar irrigation forceps	total length 20.0 cm (8.0"), working length 9.0 cm (3.5"), bayonet	tip 0.5 mm
70 08 81 S	Bipolar irrigation forceps	total length 20.0 cm (8.0"), working length 9.0 cm (3.5"), bayonet	tip 1.0 mm
70 08 91 S	Bipolar irrigation forceps	total length 23.0 cm (9.0"), working length 13.0 cm (5.0"), bayonet	tip 0.5 mm
70 08 92 S	Bipolar irrigation forceps	total length 23.0 cm (9.0"), working length 13.0 cm (5.0"), bayonet	tip 1.0 mm

Masterpiece™ non-stick Bipolar Forceps

78 77 88	Masterpiece™ non-stick bipolar forceps	total length 21.5 cm (8.5"), working length 8.5 cm (3.25")	MicroTip, tip 0,2 mm
78 79 89	Masterpiece™ non-stick bipolar forceps	total length 21.5 cm (8.5"), working length 8.5 cm (3.25")	MicroTip, tip 0,4 mm
78 78 89	Masterpiece™ non-stick bipolar forceps	total length 21.5 cm (8.5"), working length 8.5 cm (3.25")	Classic, tip 0,4 mm
78 76 87	Masterpiece™ non-stick bipolar forceps	total length 21.5 cm (8.5"), working length 8.5 cm (3.25")	Classic, tip 0,7 mm
78 87 88	Masterpiece™ non-stick bipolar forceps	total length 23.0 cm (9.0"), working length 10.0 cm (4.0")	MicroTip, tip 0,2 mm
78 91 89	Masterpiece™ non-stick bipolar forceps	total length 23.0 cm (9.0"), working length 10.0 cm (4.0")	MicroTip, tip 0,4 mm
78 81 89	Masterpiece™ non-stick bipolar forceps	total length 23.0 cm (9.0"), working length 10.0 cm (4.0")	Classic, tip 0,4 mm
78 86 87	Masterpiece™ non-stick bipolar forceps	total length 23.0 cm (9.0"), working length 10.0 cm (4.0")	Classic, tip 0,7 mm
78 97 88	Masterpiece™ non-stick bipolar forceps	total length 26.0 cm (10.25"), working length 13.0 cm (5.0")	MicroTip, tip 0,2mm
78 98 89	Masterpiece™ non-stick bipolar forceps	total length 26.0 cm (10.25"), working length 13.0 cm (5.0")	MicroTip, tip 0,4mm
78 99 89	Masterpiece™ non-stick bipolar forceps	total length 26.0 cm (10.25"), working length 13.0 cm (5.0")	Classic, tip 0,4mm
78 96 87	Masterpiece™ non-stick bipolar forceps	total length 26.0 cm (10.25"), working length 13.0 cm (5.0")	Classic, tip 0,7mm

Calvian endo-pen® Bipolar Forceps

70 09 89 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 23,0 cm (9.0"), working length 10,0 cm (3.9"), forceps style	tip 0,7 mm, 15° angled up
70 09 67 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 23,0 cm (9.0"), working length 10,0 cm (3.9"), forceps style	tip 1,2 mm, 15° angled up
70 09 69 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 23,0 cm (9.0"), working length 10,0 cm (3.9"), forceps style	tip 1,5 mm, 15° angled up
70 09 88 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 0,7 mm, 15° angled up
70 09 87 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 1,2 mm, 15° angled up
70 09 98 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 1,5 mm, 15° angled up
70 09 99 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 0,7 mm, 45° angled up
70 09 90 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 1,2 mm, 45° angled up
70 09 57 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 0,7 mm, 15° angled up

70 09 58 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 1,2 mm, 15° angled up
70 09 53 SG	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 1,0 mm, 35° angled up

70 09 51 SG	Calvian endo-pen® non-stick bipolar forceps, curved	total length 30,0 cm (12.0"), working length 17,0 cm (6.7"), duckbill	tip 1,0 mm, 35° angled up
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70 09 08 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 25,0 cm (9.8"), working length 9,0 cm (3.5"), forceps style	tip 0,7 mm, 15° angled up
70 09 07 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 25,0 cm (9.8"), working length 9,0 cm (3.5"), forceps style	tip 1,2 mm, 15° angled up
70 09 11 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 25,0 cm (9.8"), working length 9,0 cm (3.5"), forceps style	tip 1,5 mm, 15° angled up
70 09 18 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 0,7 mm, 15° angled up
70 09 17 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 1,2 mm, 15° angled up
70 09 12 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 1,5 mm, 15° angled up
70 09 19 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 0,7 mm, 45° angled up
70 09 20 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 1,2 mm, 45° angled up
70 09 25 SG	Calvian endo-pen® non-stick bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), duckbill	tip 1,0 mm, 35° angled up

78 09 91	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 0,4 mm, 0°
70 09 86	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 0,7 mm, 15° angled up
70 09 87	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 1,2 mm, 15° angled up
70 09 88	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 1,5 mm, 15° angled up
70 09 89	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 0,7 mm, 45° angled up
70 09 90	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 1,2 mm, 45° angled up
70 09 56	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), forceps style	tip 2,5 mm, 45° angled up
70 09 57	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 0,7 mm, 15° angled up
70 09 53	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 1,0 mm, 35° angled up
70 09 58	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 1,2 mm, 15° angled up
70 09 52	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 2,5 mm, 15° angled up
70 09 50	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 2,5 mm, 45° angled up
70 09 54	Calvian endo-pen® non-stick bipolar forceps, straight	total length 31,0 cm (12.25"), working length 18,0 cm (7.0"), duckbill	tip 2,5 mm, 70° angled up

70 09 51	Calvian endo-pen® biolar forceps, curved	total length 30,0 cm (12.0"), working length 17,0 cm (6.7"), duckbill	tip 1,0 mm, 35° angled up
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70 09 21	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 0,4 mm, 0°
70 09 16	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 0,7 mm, 15° angled up
70 09 17	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 1,2 mm, 15° angled up
70 09 18	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 1,5 mm, 15° angled up
70 09 19	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 0,7 mm, 45° angled up
70 09 20	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), forceps style	tip 1,2 mm, 45° angled up
70 09 25	Calvian endo-pen® bipolar forceps, bayonet	total length 30,0 cm (12.0"), working length 14,0 cm (5.5"), duckbill	tip 1,0 mm, 35° angled up

Calvian® Bipolar Forceps

70 09 38	Calvian® bipolar forceps, duckbill+	working length 12.0 cm (4.75")	15° angled tip, with suction
70 09 39	Calvian® bipolar forceps, duckbill+	working length 12.0 cm (4.75")	45° angled tip, with suction
70 09 40	Calvian® bipolar forceps	working length 12.0 cm (4.75")	15° angled tip, with suction
70 09 42	Calvian® bipolar forceps	working length 12.0 cm (4.75")	45° angled tip, with suction
70 09 49	Calvian® bipolar forceps	working length 18.0 cm (7.0")	15° angled tip
70 09 48	Calvian® bipolar forceps	working length 18.0 cm (7.0")	45° angled tip
70 09 46	Calvian® bipolar forceps	working length 23.0 cm (9.0")	45° angled tip, with suction
70 09 47	Calvian® bipolar forceps	working length 23.0 cm (9.0")	45° angled tip

ARROWtip™ Monopolar Microdissection Electrodes, single-use

36 44 10	ARROWtip™ monopolar microdissection electrode, single-use	total length 40 mm, straight
36 44 20	ARROWtip™ monopolar microdissection electrode, single-use	total length 53 mm, straight
36 44 21	ARROWtip™ monopolar microdissection electrode, single-use	total length 52 mm, 45° angled
36 44 25	ARROWtip™ monopolar microdissection electrode, single-use	total length 65 mm
36 44 28	ARROWtip™ monopolar microdissection electrode, single-use	total length 63 mm, 45° angled
36 44 40	ARROWtip™ monopolar microdissection electrode, single-use	total length 105 mm
36 44 42	ARROWtip™ monopolar microdissection electrode, single-use	total length 103 mm, 45° angled

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