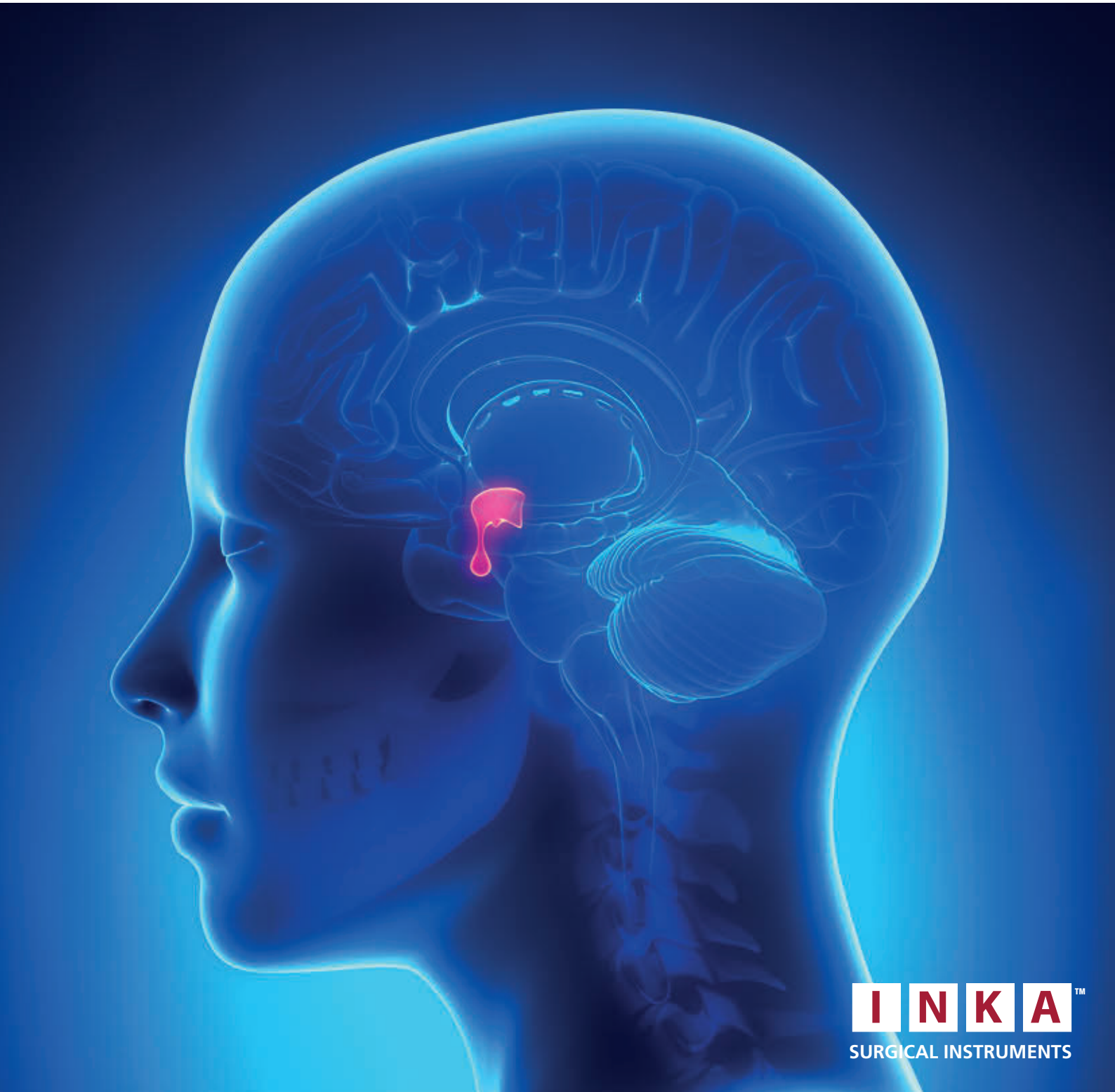
ENT

Endoscopic Pituitary Skull Base Surgery



INKA™
SURGICAL INSTRUMENTS

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BRC-00078

contents

INKA™
SURGICAL INSTRUMENTS

legend

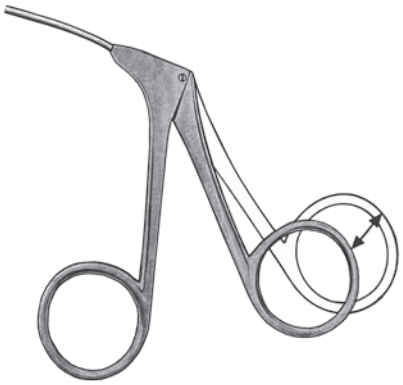
Shaft

Shaft refers to the long cylindrical part of an instrument. Example on the right.

ø 2mm shaft

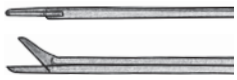
Reverse Action Handles

Reverse Action Handles are thumb activated and reduces distal tip movement.



nasal scissors

Instruments @ 50% unless stated · Inserts to Scale

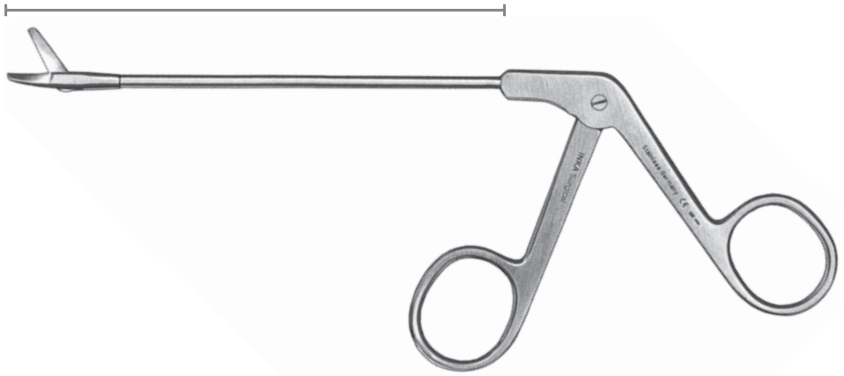


130mm / 150mm / 190mm

BELLUCCI
Paediatric Nasal Scissors
delicate pattern,
straight blades 5mm

31650.13/13 Shaft 13cm
31650.13/15 Shaft 15cm
31650.13/19 Shaft 19cm

130mm

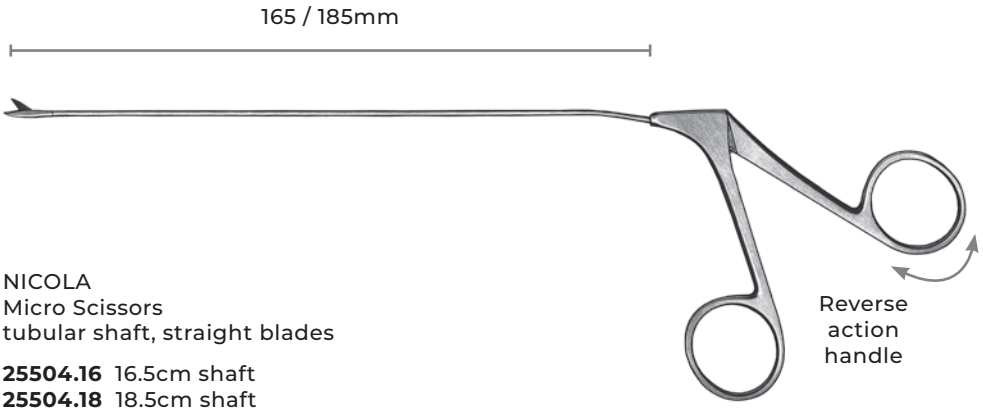


Nasal Scissors
with tubular shaft,
serrated blades, straight,
11mm cutting edge

33195.01

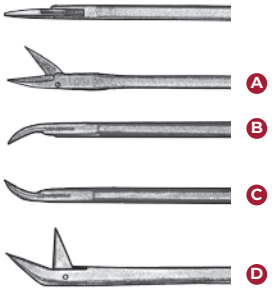
micro scissors

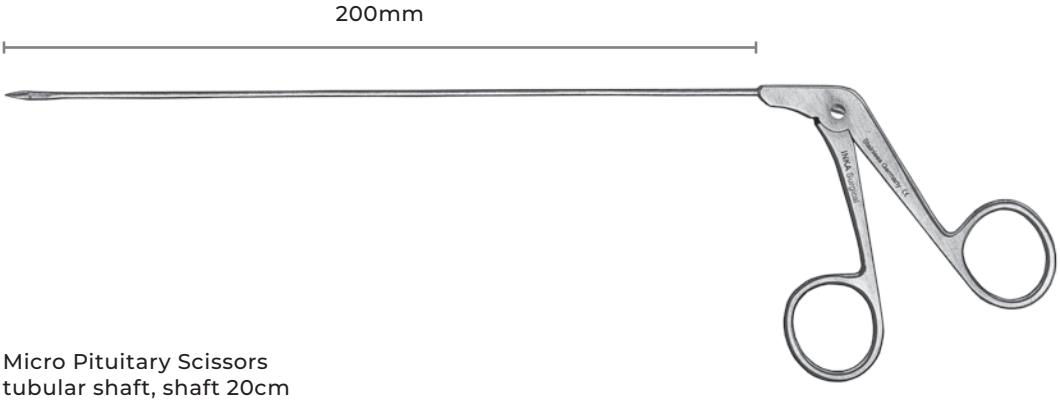
Instruments @ 50% unless stated · Inserts to Scale



NICOLA
Micro Scissors
tubular shaft, straight blades

25504.16 16.5cm shaft
25504.18 18.5cm shaft





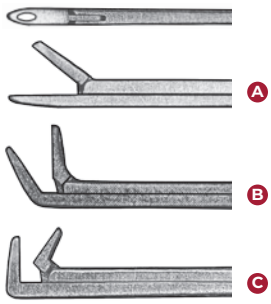
Micro Pituitary Scissors
tubular shaft, shaft 20cm

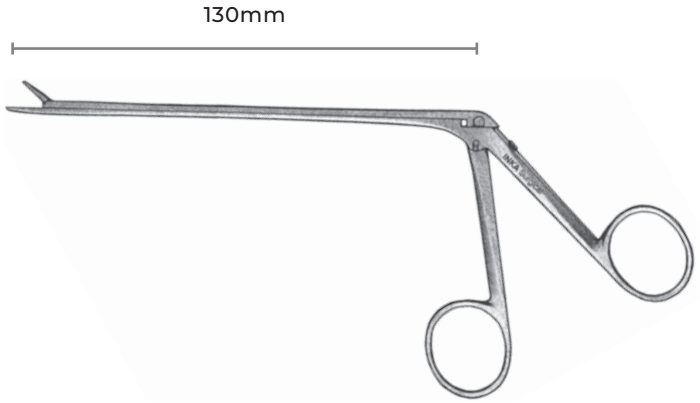
A 25495.20 Straight
B 25496.20 Left curved
C 25497.20 Right curved
D 25498.20 Up-curved

INKA SURGICAL INSTRUMENTS

nasal forceps

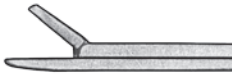
Instruments @ 50% unless stated · Inserts to Scale

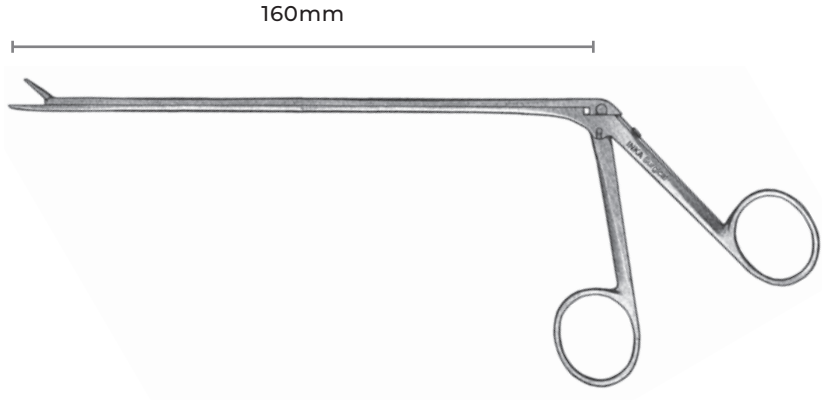




STRUEMPEL
Oval Cupped Forceps
fenestrated jaws 2.5mm,
long shaft

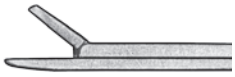
Ⓐ **33257.25/13** Straight
Ⓑ **33257.60/13** 60˚ up-curved
Ⓒ **33257.90/13** 90˚ up-turned

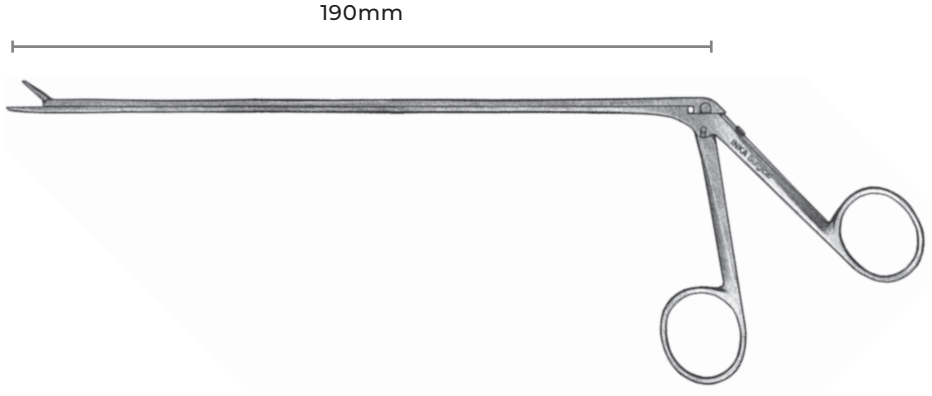




STRUEMPEL
Oval Cupped Forceps
fenestrated jaws 2.5mm,
x-long shaft

33257.25/16 Straight
33257.60/16 60˚ up-curved
33257.90/16 90˚ up-turned





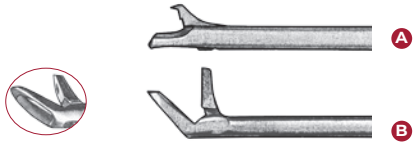
STRUEMPEL
Oval Cupped Forceps
fenestrated jaws 2.5mm,
xx-long shaft

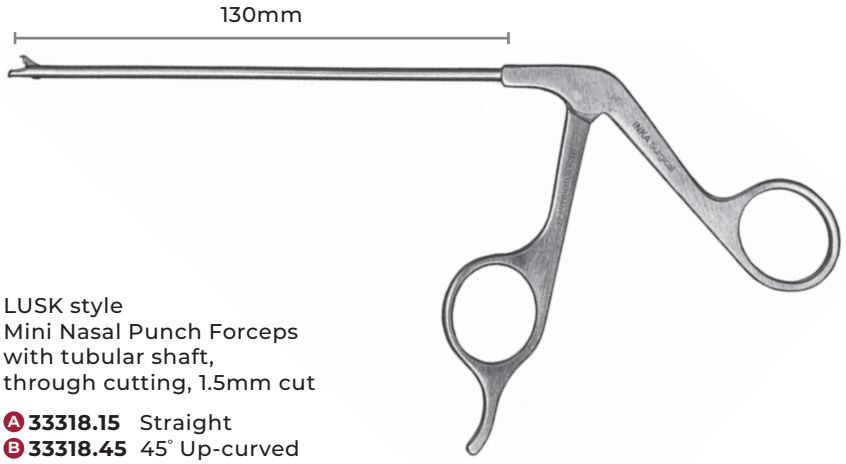
33257.25/19 Straight
33257.60/19 60˚ up-curved
33257.90/19 90˚ up-curved

INKA SURGICAL INSTRUMENTS

through cutting forceps

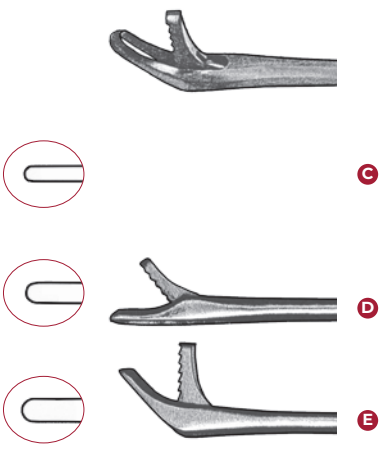
Instruments @ 50% unless stated · Inserts to Scale

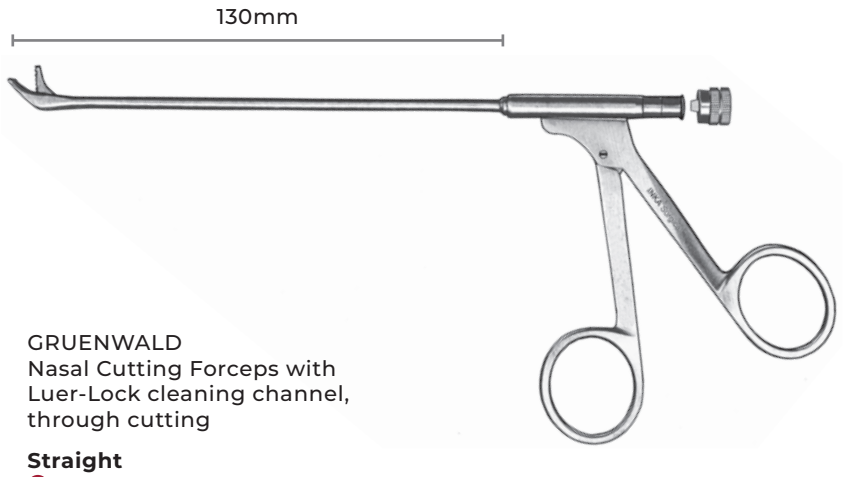




LUSK style
Mini Nasal Punch Forceps
with tubular shaft,
through cutting, 1.5mm cut

A 33318.15 Straight
B 33318.45 45° Up-curved





GRUENWALD
Nasal Cutting Forceps with
Luer-Lock cleaning channel,
through cutting

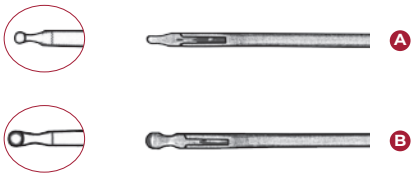
Straight
C 33338.20 2mm cut
D 33338.25 2.5mm cut
E 33338.30 3mm cut

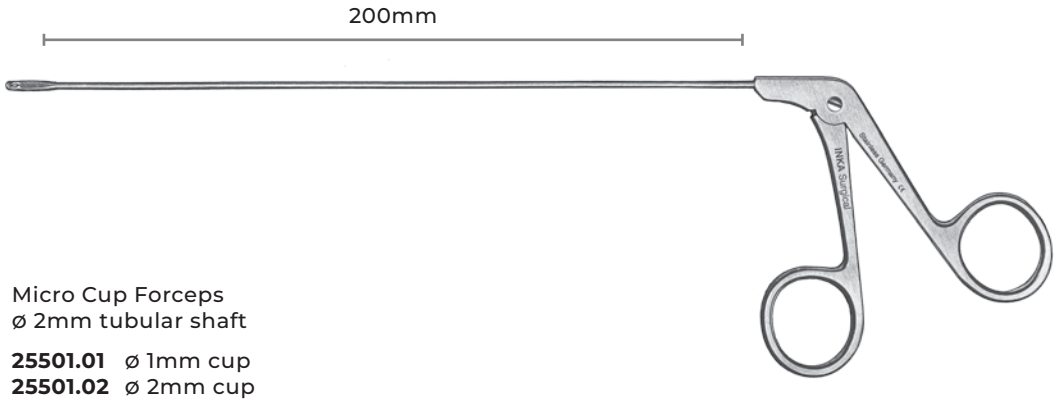
45° Up-curved
C 33339.20 2mm cut
D 33339.25 2.5mm cut
E 33339.30 3mm cut

INKA SURGICAL INSTRUMENTS

cup forceps

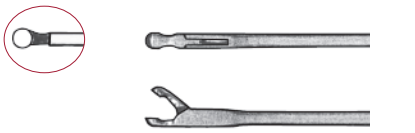
Instruments @ 50% unless stated · Inserts to Scale

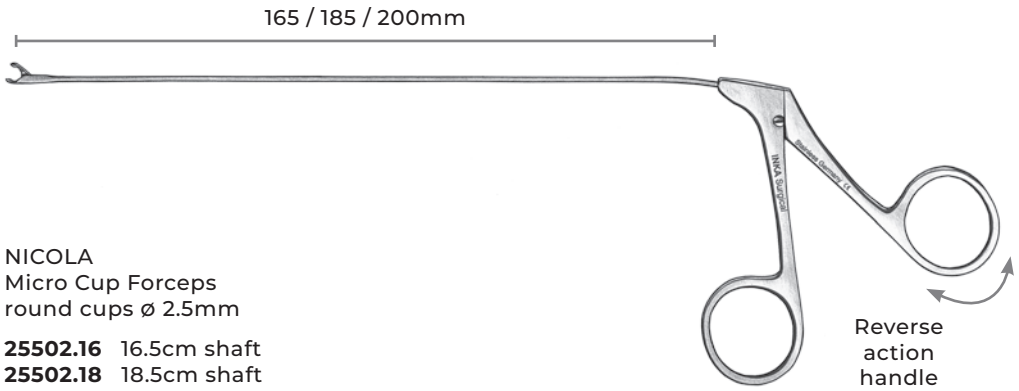




Micro Cup Forceps
ø 2mm tubular shaft

25501.01 ø 1mm cup
25501.02 ø 2mm cup



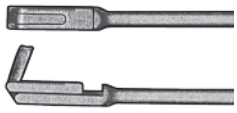


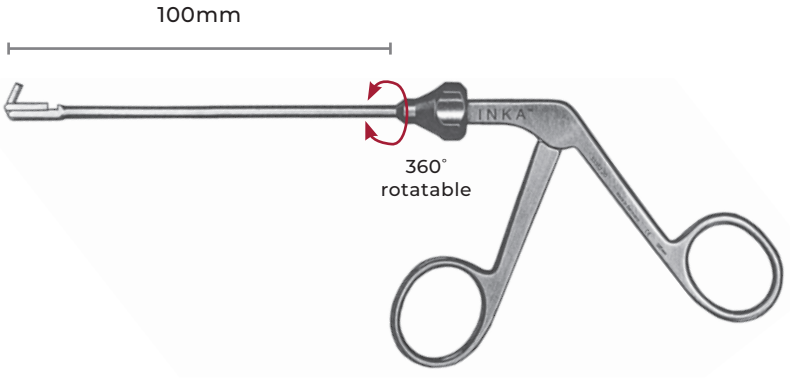
NICOLA
Micro Cup Forceps
round cups ø 2.5mm

25502.16 16.5cm shaft
25502.18 18.5cm shaft
25502.20 20cm shaft

rotating backbiter punches

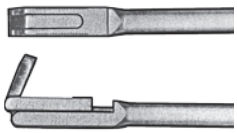
Instruments @ 50% unless stated · Inserts to Scale

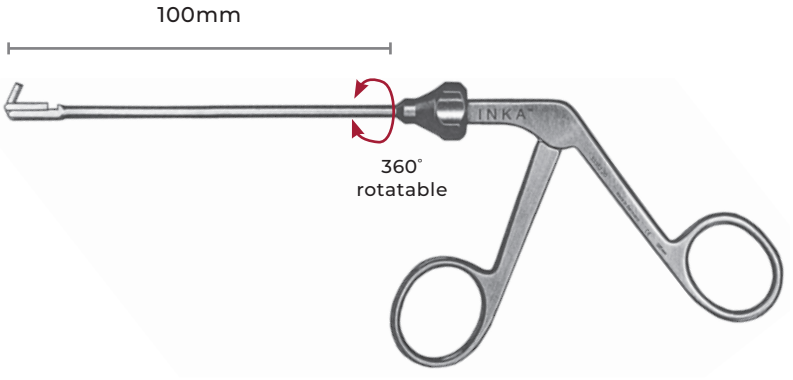




OSTRUM
Retro Antrum Punches
360° rotatable, 1.5mm cut,
paediatric size

33352.15



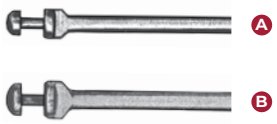


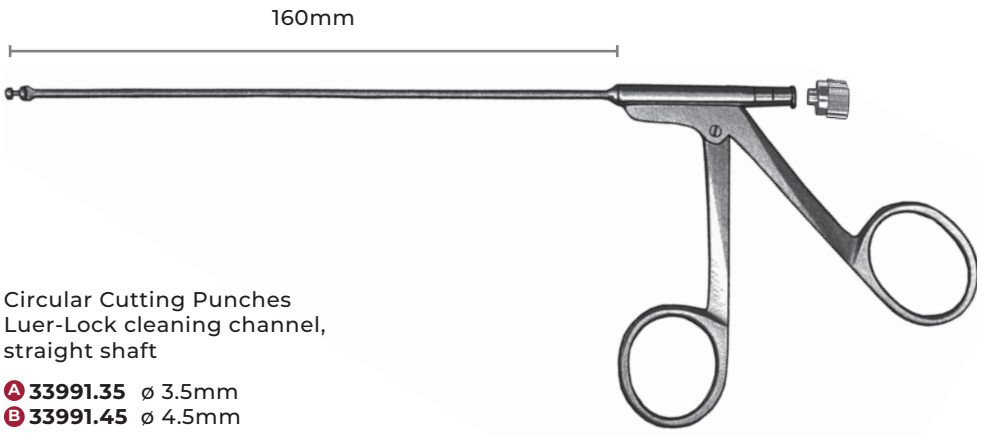
OSTRUM
Retro Antrum Punches
360° rotatable, 2mm cut,
standard size

33352.20

cutting punches

Instruments @ 50% unless stated · Inserts to Scale





Circular Cutting Punches
Luer-Lock cleaning channel,
straight shaft

Ⓐ **33991.35** ø 3.5mm
Ⓑ **33991.45** ø 4.5mm

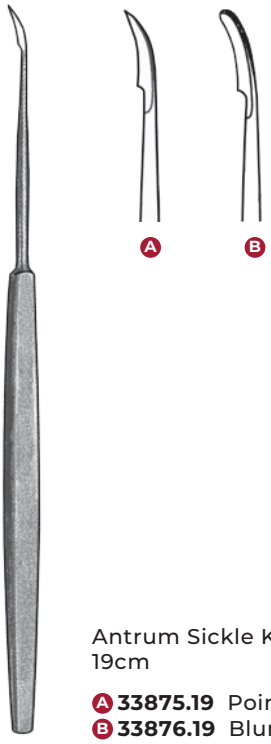
INKA SURGICAL INSTRUMENTS

knives - curettes

Instruments @ 50% unless stated · Inserts to Scale

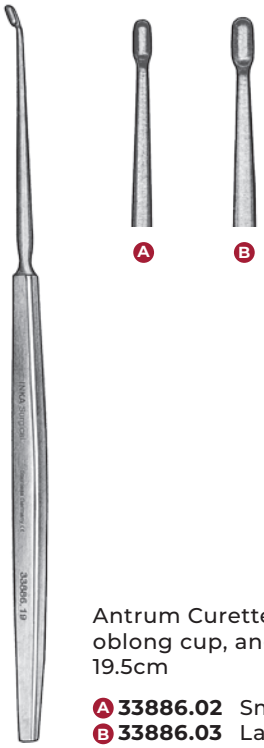
Paediatric Sickle Knife
octagonal handle
16cm

31271.16



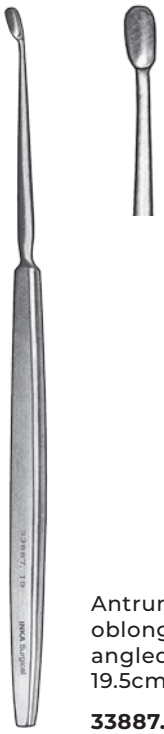
Antrum Sickle Knives
19cm

A 33875.19 Pointed tip
B 33876.19 Blunt tip



Antrum Curettes
oblong cup, angled 30°,
19.5cm

A 33886.02 Small, 2mm
B 33886.03 Large, 3mm



Antrum Curettes
oblong cup, x-large,
angled 45°, 4mm,
19.5cm

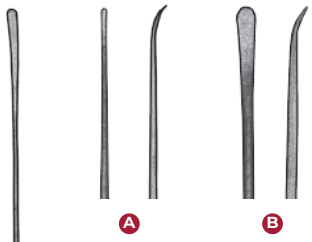
33887.19

elevators

Instruments @ 50% unless stated · Inserts to Scale

GORNEY
Suction Elevator
obturator, blunt tip,
standard pattern,
20cm

33861.20



DRAF
Micro Elevators
sharp, round handle,
25cm

A 33914.01 Slightly curved, 1mm wide
B 33914.03 Slightly curved, 3mm wide

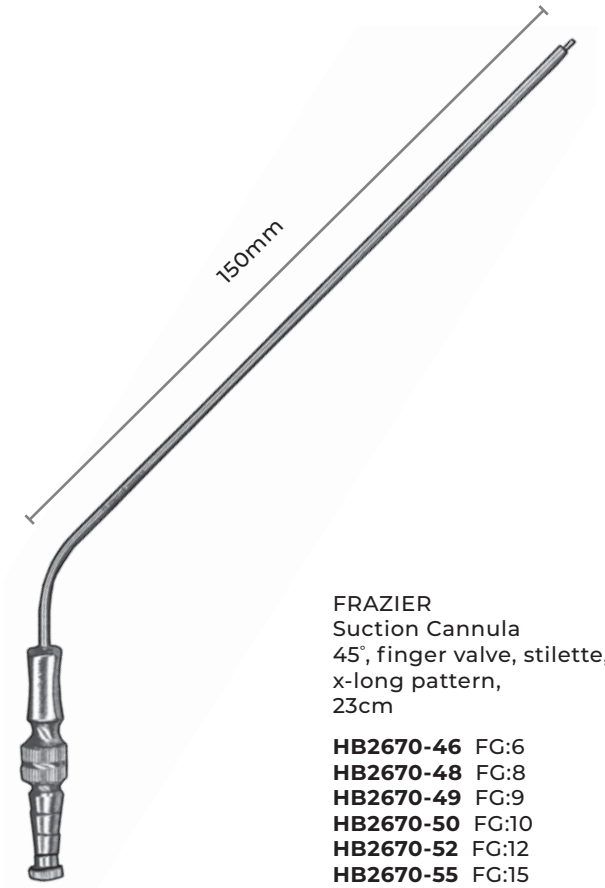
DRAF
Micro Elevators
sharp, round handle, 25cm

A 33915.03 Strongly curved, 3mm wide
B 33916.04 Angled, 4mm wide

INKA SURGICAL INSTRUMENTS

suction tubes

Instruments @ 50% unless stated · Inserts to Scale



FRAZIER
Suction Cannula
45°, finger valve, stilette,
x-long pattern,
23cm

HB2670-46 FG:6
HB2670-48 FG:8
HB2670-49 FG:9
HB2670-50 FG:10
HB2670-52 FG:12
HB2670-55 FG:15

suction tubes

Instruments @ 50% unless stated · Inserts to Scale

A FUKUSHIMA style
Teardrop Suction Tube
semi-malleable,
hub length 100mm,
16.5cm

HB2665-04 FG:4
HB2665-05 FG:5
HB2665-06 FG:6
HB2665-07 FG:7
HB2665-08 FG:8
HB2665-09 FG:9
HB2665-12 FG:12

B FUKUSHIMA style
Teardrop Suction Tube
semi-malleable,
hub length 115mm,
18cm

HB2665-14 FG:4
HB2665-15 FG:5
HB2665-16 FG:6
HB2665-17 FG:7
HB2665-18 FG:8
HB2665-19 FG:9
HB2665-22 FG:12

C FUKUSHIMA style
Teardrop Suction Tube
malleable,
hub length 140mm,
20.5cm

HB2665-24 FG:4
HB2665-25 FG:5
HB2665-26 FG:6
HB2665-27 FG:7
HB2665-28 FG:8
HB2665-29 FG:9
HB2665-32 FG:12

D FUKUSHIMA style
Teardrop Suction Tube
malleable,
hub length 165mm,
23cm

HB2665-34 FG:4
HB2665-35 FG:5
HB2665-36 FG:6
HB2665-37 FG:7
HB2665-38 FG:8
HB2665-39 FG:9
HB2665-42 FG:12

suction cannula

Instruments @ 50% unless stated · Inserts to Scale

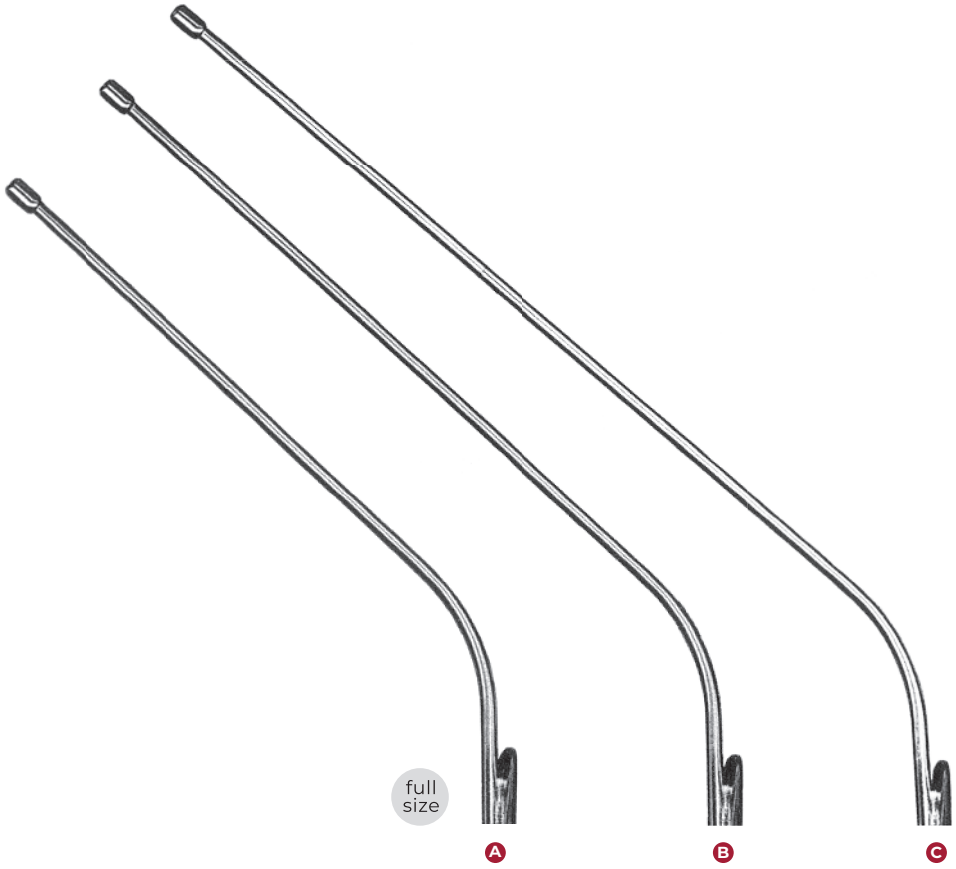
full size

RHOTON-MERZ style
Suction Cannula
atraumatic tip, straight,
working length 10cm

HB2667-10 FG:10
HB2667-15 FG:5
HB2667-17 FG:7

suction cannula

Instruments @ 50% unless stated · Inserts to Scale



A RHOTON-MERZ style Suction Cannula atraumatic tip, angled, working length 8cm

HB2667-20 FG:10
HB2667-25 FG:5
HB2667-27 FG:7

B RHOTON-MERZ style Suction Cannula atraumatic tip, angled, working length 10cm

HB2667-30 FG:10
HB2667-35 FG:5
HB2667-37 FG:7

C RHOTON-MERZ style Suction Cannula atraumatic tip, angled, working length 12.5cm

HB2667-40 FG:10
HB2667-45 FG:5
HB2667-47 FG:7

endoscope holder

Instruments are not to scale

GEISTER
Iron Assistant™ Endoscope Holder
L-shaped bar, holds 5 & 10mm endoscope, variable position, custom modified

G29-1482L

kerrison punches

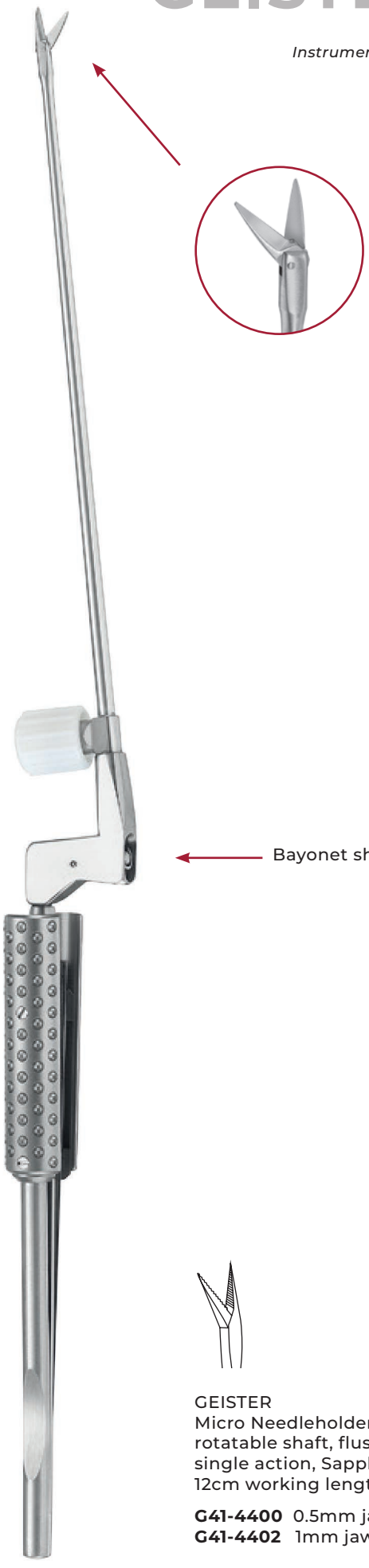
Instruments are not to scale

GEISTER
Hygienic Kerrison Laminectomy Rongeur
black ceremic coating, 40˚ up-biting, semi detachable, cervical (thin footplate), 18cm shaft

G40-1318C1K ø 1mm jaw
G40-1318C2K ø 2mm jaw
G40-1318C3K ø 3mm jaw

GEISTER micro

Instruments are not to scale



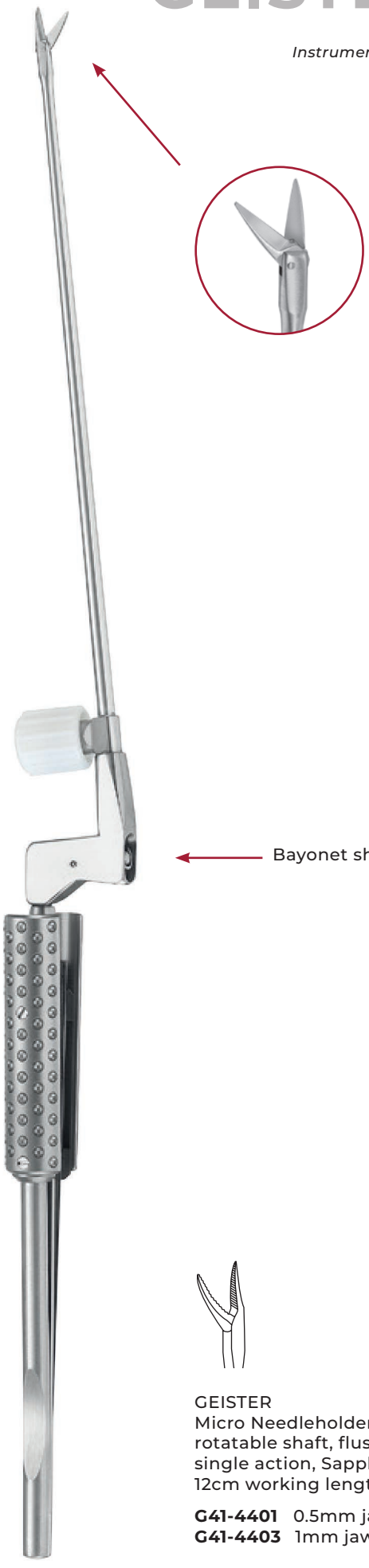
Bayonet shaped

GEISTER
Micro Needleholders
rotatable shaft, flushing channel, straight,
single action, Sapphire™ jaw,
12cm working length, 26cm

G41-4400 0.5mm jaw
G41-4402 1mm jaw

GEISTER micro

Instruments are not to scale



Bayonet shaped

GEISTER
Micro Needleholders
rotatable shaft, flushing channel, curved,
single action, Sapphire™ jaw,
12cm working length, 26cm

G41-4401 0.5mm jaw
G41-4403 1mm jaw

GEISTER micro

Instruments are not to scale

Bayonet shaped

GEISTER
Micro Cupped Forceps
rotatable shaft, flushing channel, straight,
double action, 12cm working length, 26cm

G41-4410 ø 2mm jaw
G41-4414 ø 4mm jaw

GEISTER micro

Instruments are not to scale

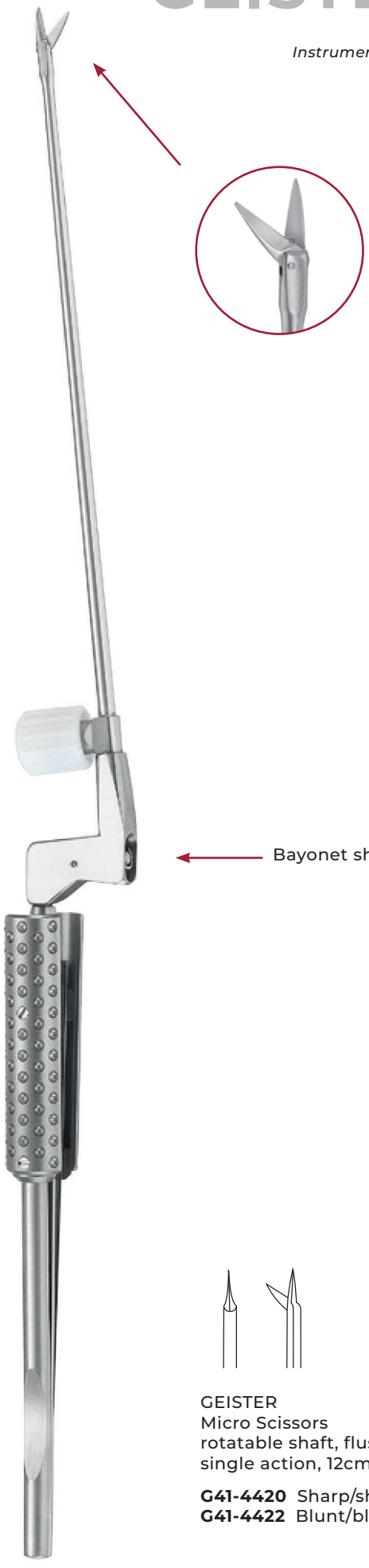
Bayonet shaped

GEISTER
Micro Cupped Forceps
rotatable shaft, flushing channel, 60° angled,
ø 2mm jaw, double action, 12cm working
length, 26cm

G41-4411

GEISTER micro

Instruments are not to scale



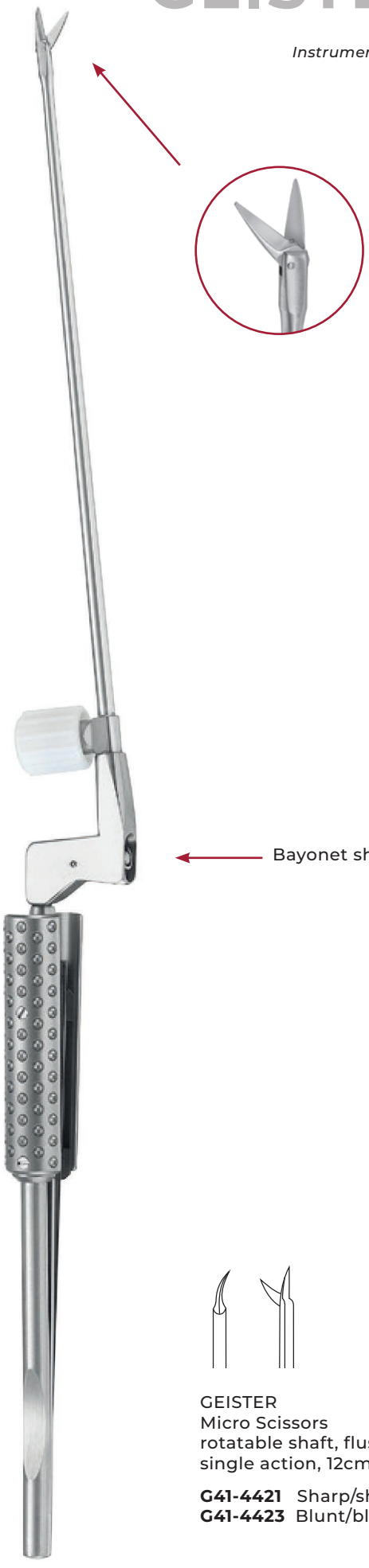
Bayonet shaped

GEISTER
Micro Scissors
rotatable shaft, flushing channel, straight,
single action, 12cm working length, 26cm

G41-4420 Sharp/sharp
G41-4422 Blunt/blunt

GEISTER micro

Instruments are not to scale



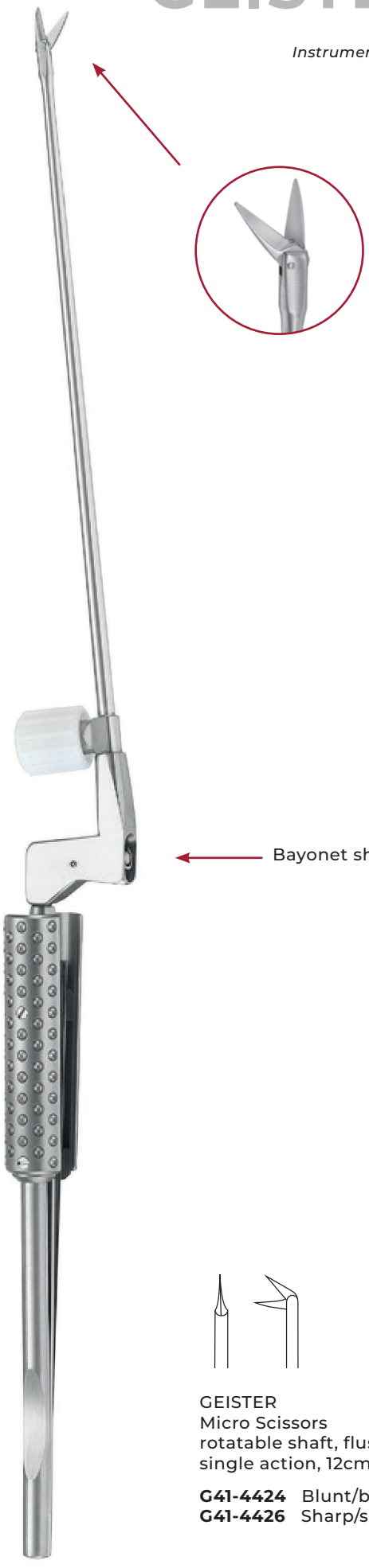
Bayonet shaped

GEISTER
Micro Scissors
rotatable shaft, flushing channel, curved,
single action, 12cm working length, 26cm

G41-4421 Sharp/sharp
G41-4423 Blunt/blunt

GEISTER micro

Instruments are not to scale



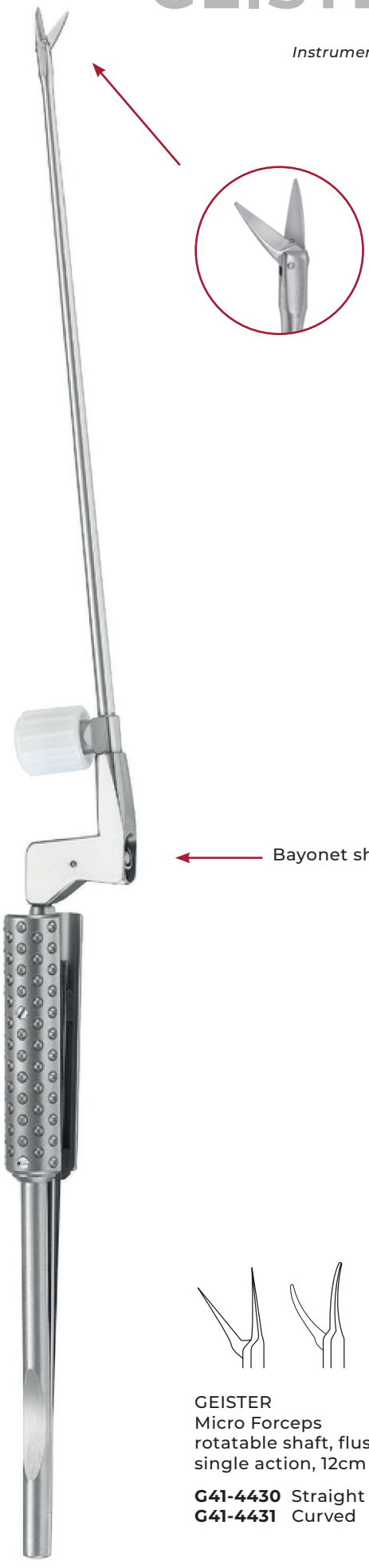
Bayonet shaped

GEISTER
Micro Scissors
rotatable shaft, flushing channel, 45° angled,
single action, 12cm working length, 26cm

G41-4424 Blunt/blunt
G41-4426 Sharp/sharp

GEISTER micro

Instruments are not to scale



Bayonet shaped

GEISTER
Micro Forceps
rotatable shaft, flushing channel, 0.5mm jaw,
single action, 12cm working length, 26cm

G41-4430 Straight
G41-4431 Curved

GEISTER micro

Instruments are not to scale

GEISTER
Sharp Scoops
23cm

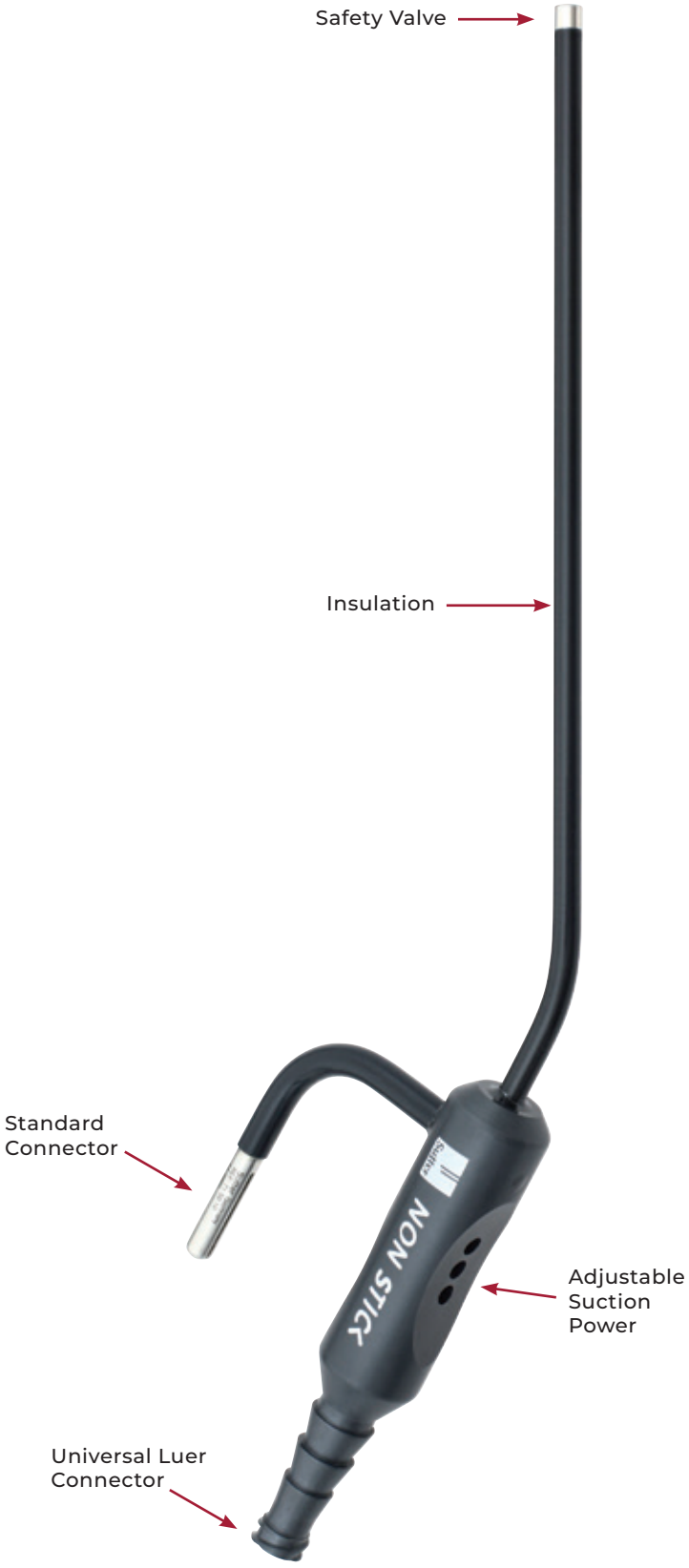
G41-6121

GEISTER
Micro Hooks
blunt,
23cm

G41-6141

SUTTER monopolar

Instruments are not to scale



SUTTER
Non-Stick Monopolar Suction Tube
Cleaning brush included, ø 4mm,
ø 2.8mm lumen, 13cm

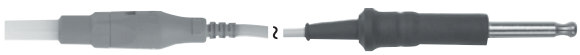
SB715010

SUTTER
Non-Stick Monopolar Suction Tube
Cleaning brush included, ø 3.3mm,
ø 2mm lumen, 13cm

SB715015

SUTTER
Monopolar cable, touch safe,
4mm instrument connector, 3m

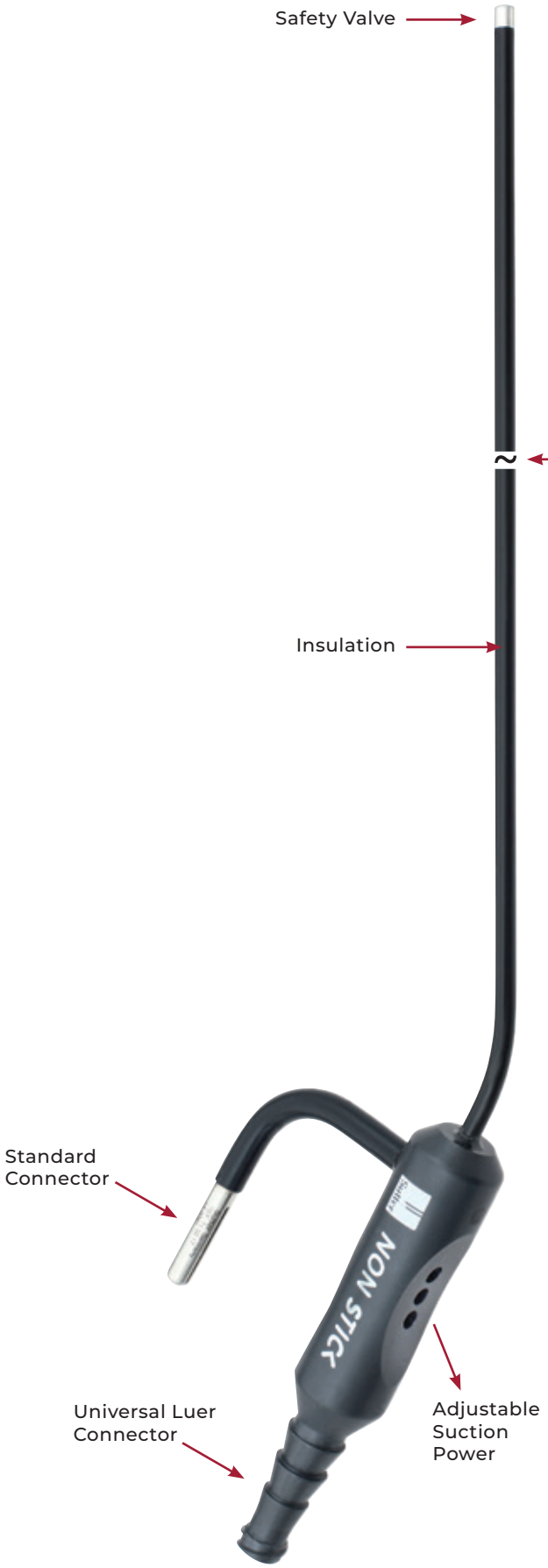
SB360187



INKA SURGICAL INSTRUMENTS

SUTTER monopolar

Instruments are not to scale



SUTTER
Non-Stick Monopolar Suction Tube
Cleaning brush included, ø 3.3mm,
ø 2mm lumen, 25.5cm

SB715017

The non-stick technology prevents the tips from overheating during coagulation. It is autoclavable, precision without interuptions and fits all commonly known electrosurgical units.

INKA SURGICAL INSTRUMENTS

SUTTER monopolar

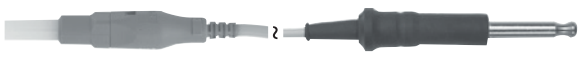
Instruments are not to scale

SUTTER
Non-Stick Monopolar Suction Tube
Cleaning brush included, ø 4.3mm,
malleable, ø 3mm lumen, 13cm

SB715019

SUTTER
Monopolar cable, touch safe,
4mm instrument connector, 3m

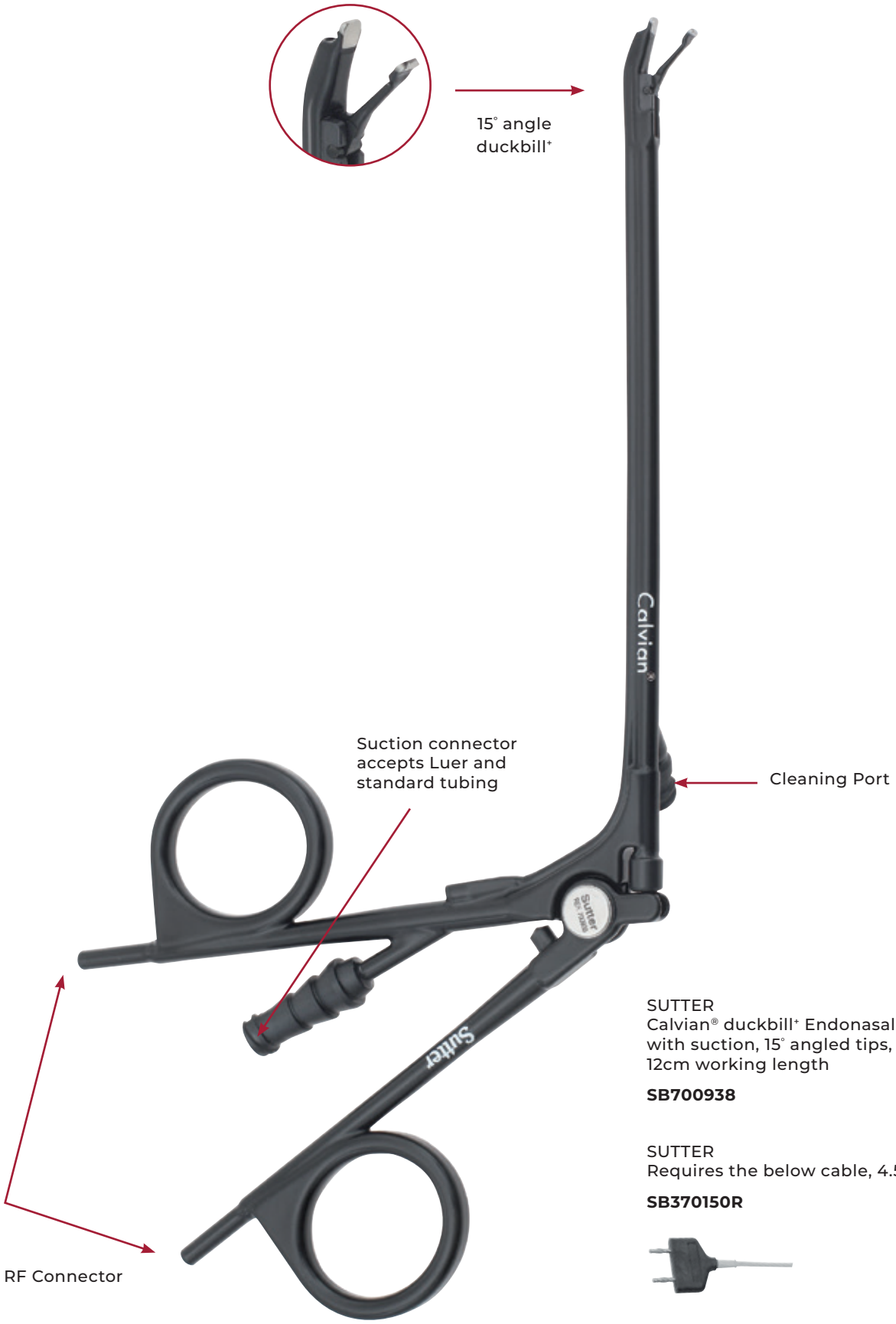
SB360187



INKA SURGICAL INSTRUMENTS

SUTTER calvian® bipolar forceps

Instruments are to scale



SUTTER
Calvian® duckbill+ Endonasal Bipolar Forceps with suction, 15° angled tips, 2x2 pin fitting, 12cm working length

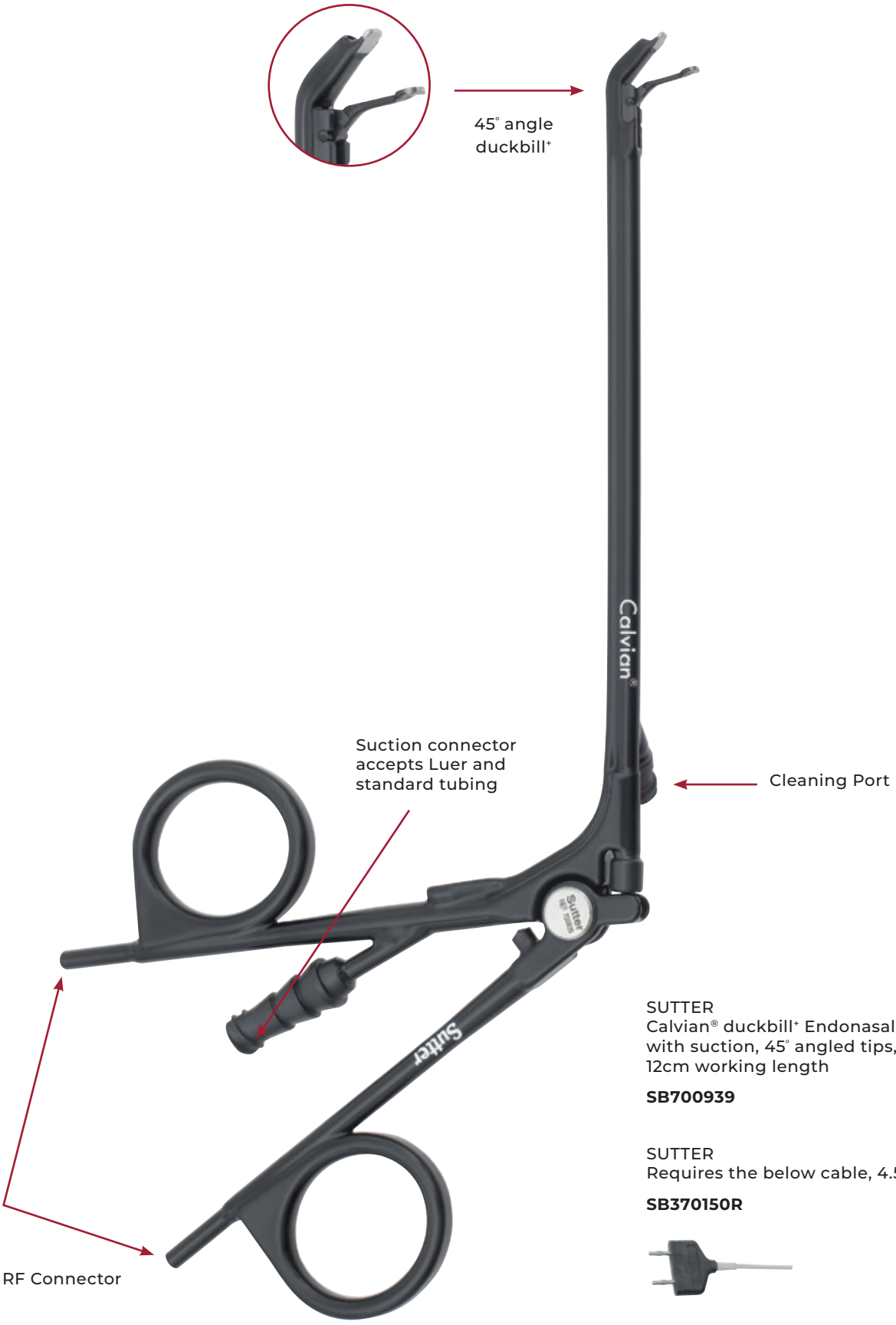
SB700938

SUTTER
Requires the below cable, 4.5m long

SB370150R

SUTTER calvian® bipolar forceps

Instruments are to scale



SUTTER
Calvian® duckbill+ Endonasal Bipolar Forceps with suction, 45° angled tips, 2x2 pin fitting, 12cm working length

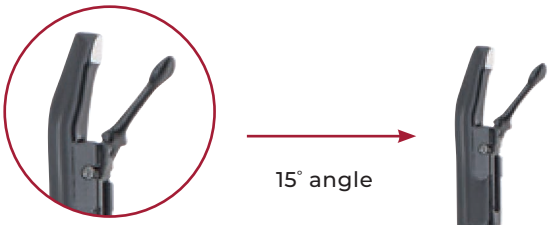
SB700939

SUTTER
Requires the below cable, 4.5m long

SB370150R

SUTTER calvian® bipolar forceps

Instruments are to scale



15° angle

SUTTER
Calvian® Endonasal Bipolar Forceps
with suction, 15° angled tips, 2x2 pin fitting,
12cm working length

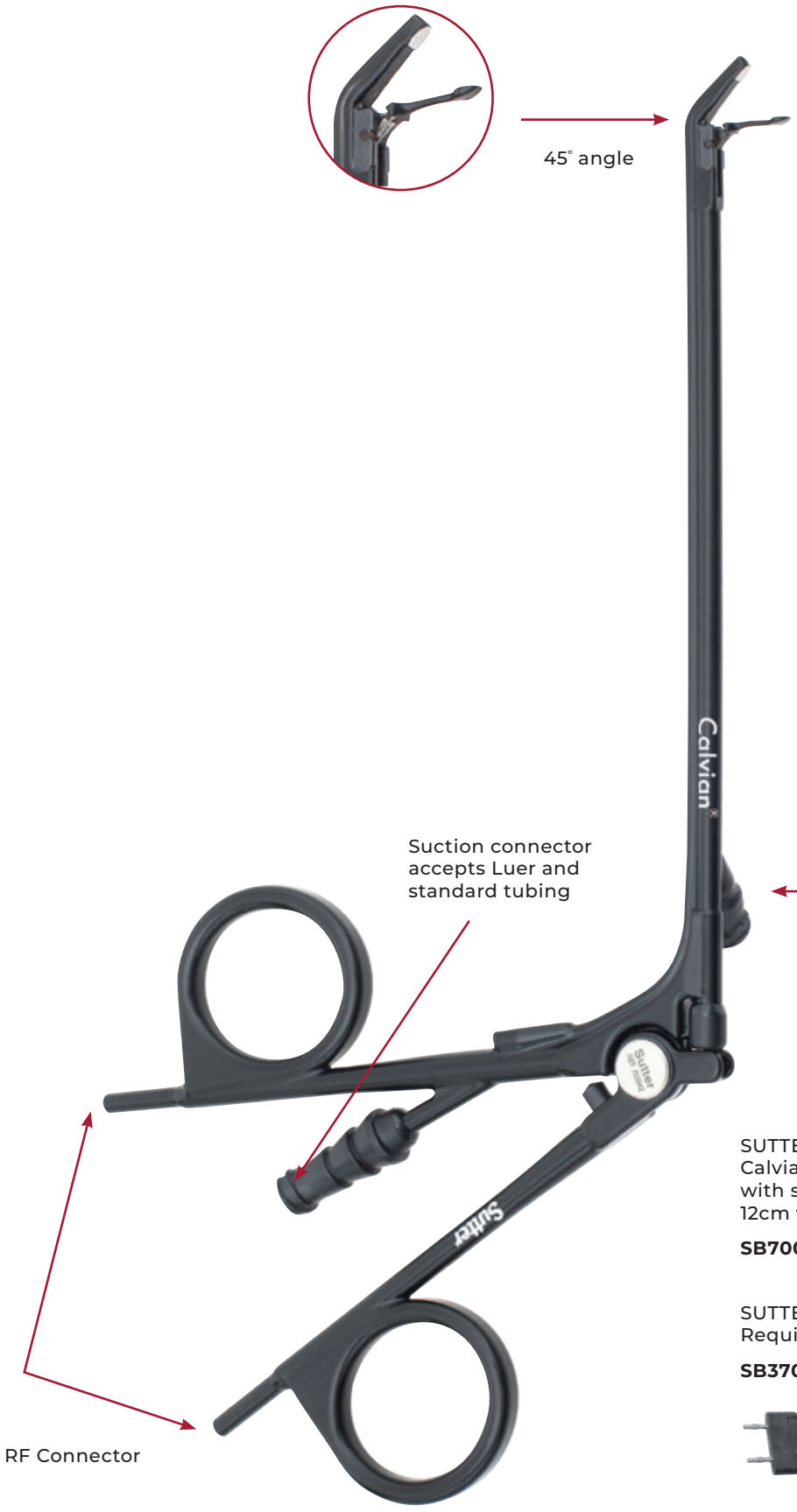
SB700940

SUTTER
Requires the below cable, 4.5m long

SB370150R

SUTTER calvian® bipolar forceps

Instruments are to scale



SUTTER
Calvian® Endonasal Bipolar Forceps
with suction, 45° angled tips, 2x2 pin fitting,
12cm working length

SB700942

SUTTER
Requires the below cable, 4.5m long

SB370150R

SUTTER calvian® bipolar forceps

Instruments are not to scale

SUTTER
Calvian® Endonasal Bipolar Forceps
with suction, 45° angled tips, 2x2 pin fitting,
23cm working length

SB700946

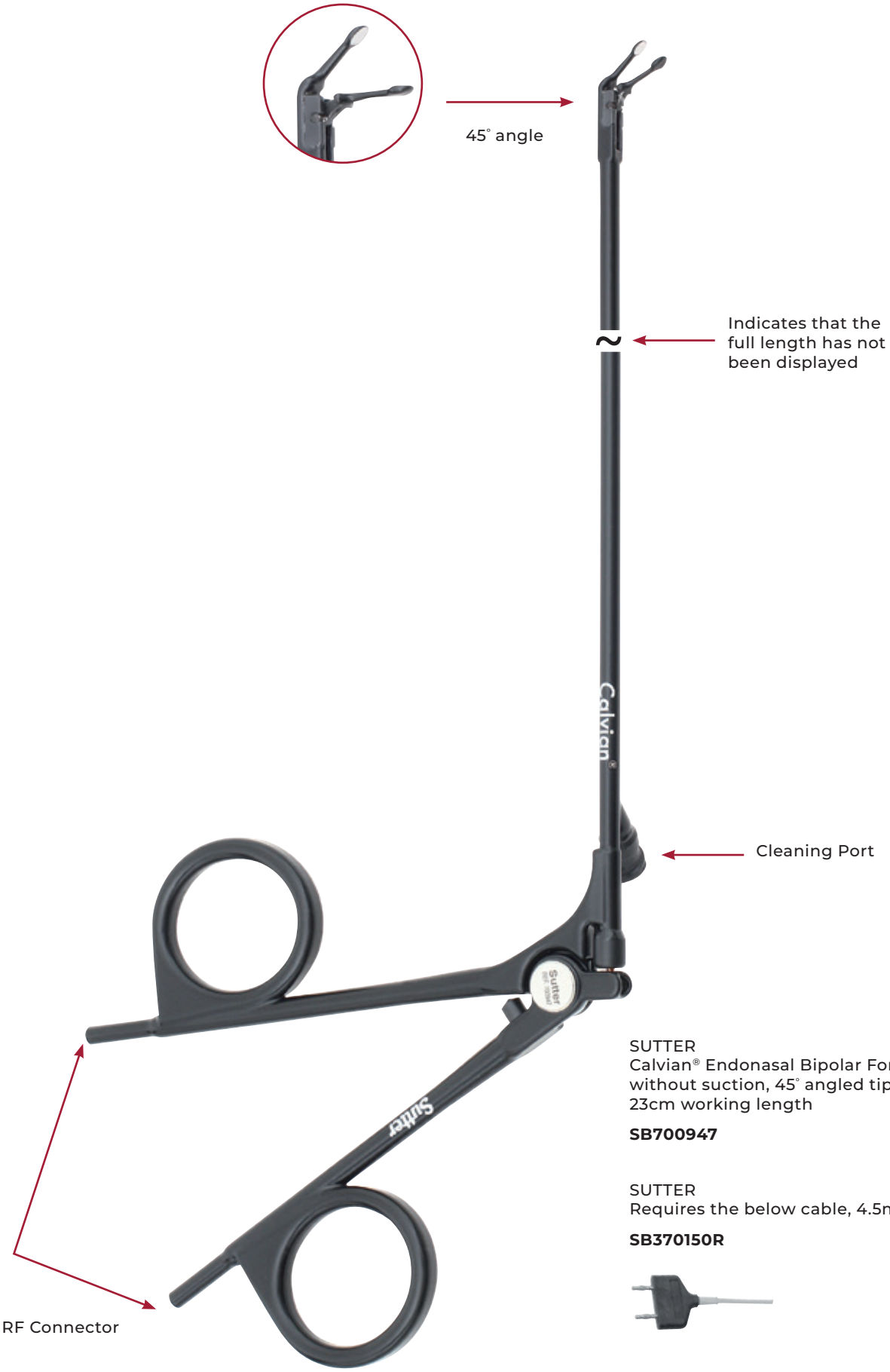
SUTTER
Requires the below cable, 4.5m long

SB370150R

INKA SURGICAL INSTRUMENTS

SUTTER calvian® bipolar forceps

Instruments are not to scale



SUTTER
Calvian® Endonasal Bipolar Forceps
without suction, 45° angled tips, 2x2 pin fitting, 23cm working length

SB700947

SUTTER
Requires the below cable, 4.5m long

SB370150R

INKA SURGICAL INSTRUMENTS

SUTTER calvian® bipolar forceps

Instruments are not to scale

SUTTER
Calvian® Endonasal Bipolar Forceps
without suction, 45° angled tips, 2x2 pin fitting, 18cm working length

SB700948

SUTTER
Requires the below cable, 4.5m long

SB370150R

INKA SURGICAL INSTRUMENTS

SUTTER calvian® bipolar forceps

Instruments are not to scale

SUTTER
Calvian® Endonasal Bipolar Forceps
without suction, 15˚ angled tips, 2x2 pin fitting, 18cm working length

SB700949

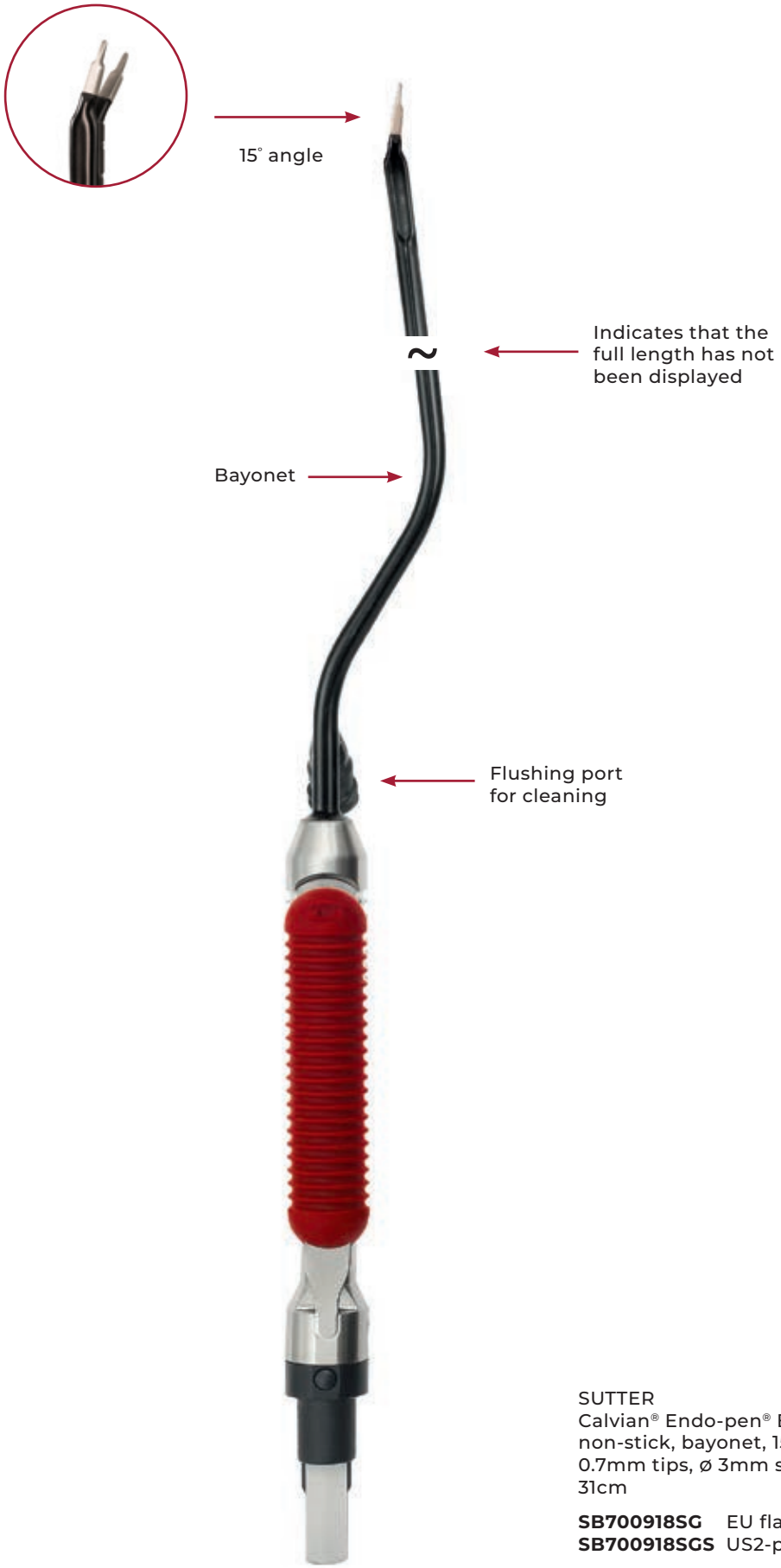
SUTTER
Requires the below cable, 4.5m long

SB370150R

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale



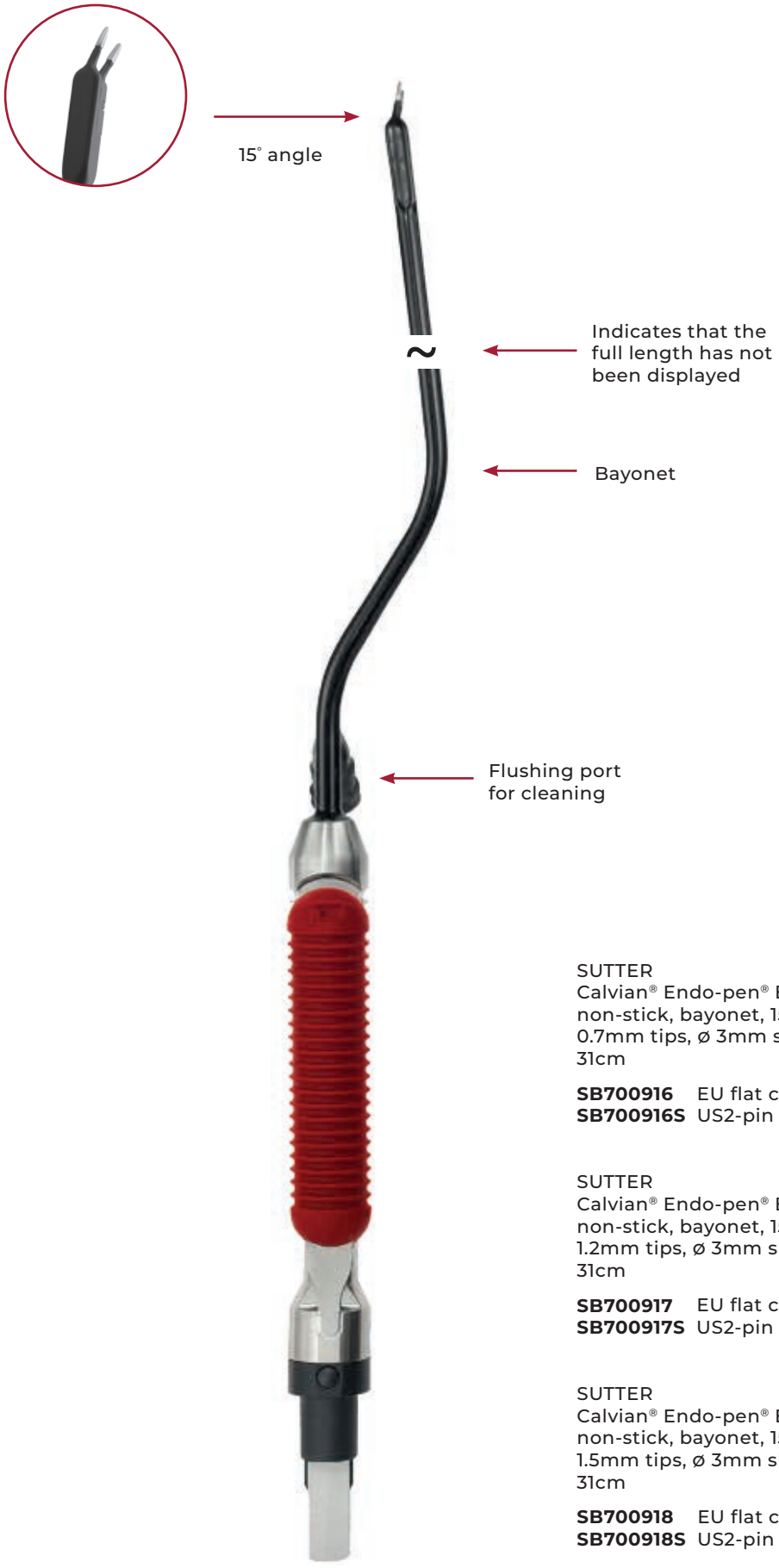
SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, bayonet, 15° angled tips,
0.7mm tips, ø 3mm shaft, horizontal movement,
31cm

SB700918SG EU flat connector
SB700918SGS US2-pin connector

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale



SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, bayonet, 15° angled tips,
0.7mm tips, ø 3mm shaft, horizontal movement,
31cm

SB700916 EU flat connector
SB700916S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, bayonet, 15° angled tips,
1.2mm tips, ø 3mm shaft, horizontal movement,
31cm

SB700917 EU flat connector
SB700917S US2-pin connector

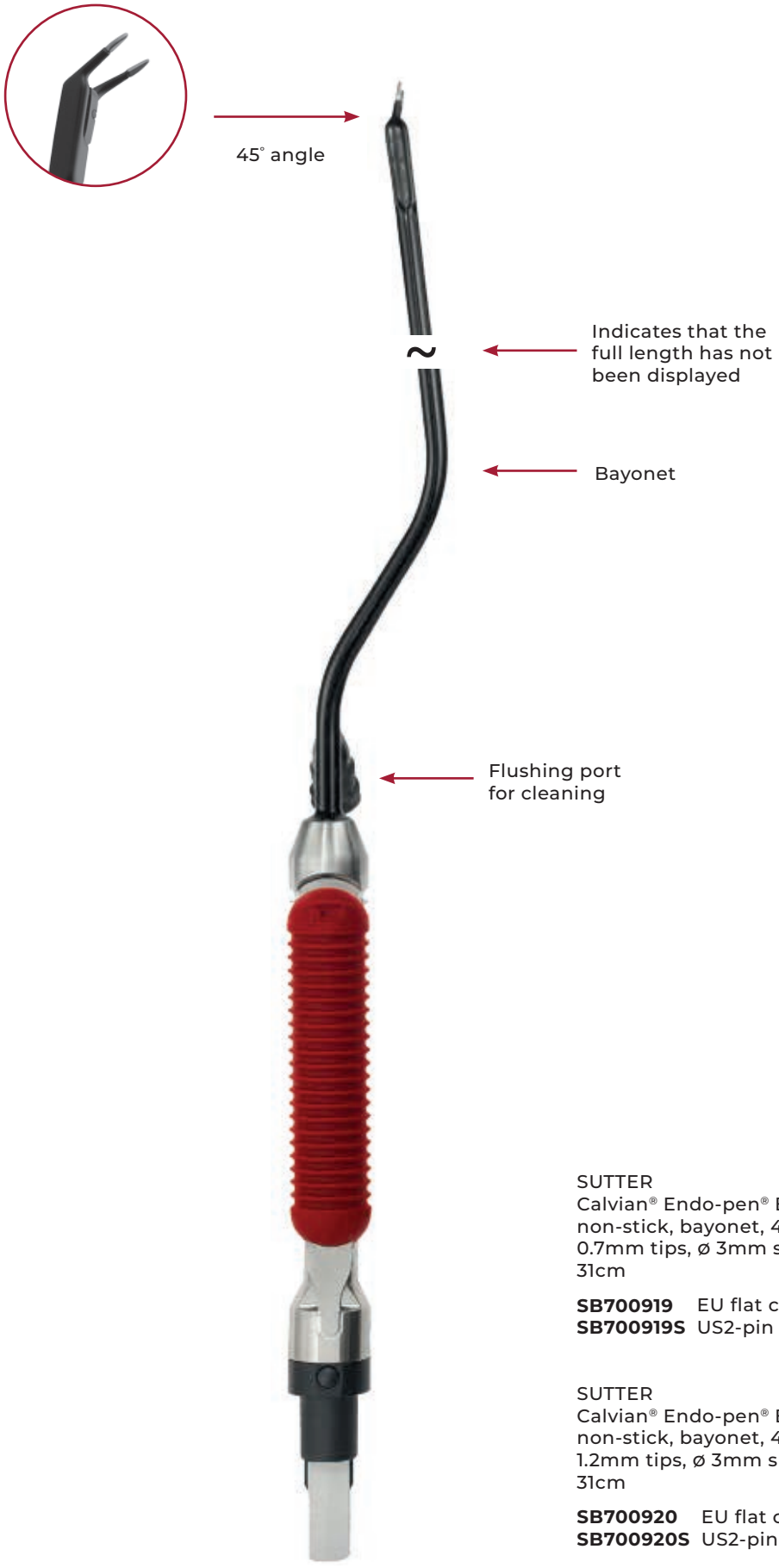
SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, bayonet, 15° angled tips,
1.5mm tips, ø 3mm shaft, horizontal movement,
31cm

SB700918 EU flat connector
SB700918S US2-pin connector

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale



SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, bayonet, 45° angled tips,
0.7mm tips, ø 3mm shaft, horizontal movement,
31cm

SB700919 EU flat connector
SB700919S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, bayonet, 45° angled tips,
1.2mm tips, ø 3mm shaft, horizontal movement,
31cm

SB700920 EU flat connector
SB700920S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

15° angle

Indicates that the full length has not been displayed

Flushing port for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps non-stick, 15° angled tips, 0.7mm tips, ø 3mm shaft, horizontal movement, 31cm

SB700988SG EU flat connector
SB700988SGS US2-pin connector

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

15° angle

Flushing port
for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 0.7mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700989SG EU flat connector
SB700989SGS US2-pin connector

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

15° angle

Flushing port
for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 0.7mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700959 EU flat connector
SB700959S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 1.2mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700967 EU flat connector
SB700967S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 1.5mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700969 EU flat connector
SB700969S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

45° angle

Flushing port
for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 0.7mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700992 EU flat connector
SB700992S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 1.2mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700994 EU flat connector
SB700994S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 2.5mm tips,
ø 3mm shaft, horizontal movement,
23cm

SB700955 EU flat connector
SB700955S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

15° angle

Indicates that the full length has not been displayed

Flushing port for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 0.7mm tips,
ø 3mm shaft, horizontal movement,
31cm

SB700986 EU flat connector
SB700986S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 1.2mm tips,
ø 3mm shaft, horizontal movement,
31cm

SB700987 EU flat connector
SB700987S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 1.5mm tips,
ø 3mm shaft, horizontal movement,
31cm

SB700988 EU flat connector
SB700988S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

45° angle

Indicates that the full length has not been displayed

Flushing port for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 0.7mm tips,
ø 3mm shaft, horizontal movement,
31cm

SB700989 EU flat connector
SB700989S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 1.2mm tips,
ø 3mm shaft, horizontal movement,
31cm

SB700990 EU flat connector
SB700990S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 2.5mm tips,
ø 3.4mm shaft, horizontal movement,
31cm

SB700956 EU flat connector
SB700956S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

15˚ angle

Flushing port
for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15˚ angled tips, 1.2mm tips,
ø 3mm shaft, vertical movement,
23cm

SB700968 EU flat connector
SB700968S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

45° angle

Flushing port
for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 45° angled tips, 2.5mm tips,
ø 3mm shaft, vertical movement,
23cm

SB700983 EU flat connector
SB700983S US2-pin connector

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

70˚ angle

Flushing port
for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 70˚ angled tips, 2.5mm tips,
ø 3mm shaft, vertical movement,
23cm

SB700984 EU flat connector
SB700984S US2-pin connector

INKA SURGICAL INSTRUMENTS

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 2.5mm tips,
ø 3.4mm shaft, vertical movement,
31cm

SB700952 EU flat connector
SB700952S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 0.7mm tips,
ø 3mm shaft, vertical movement,
31cm

SB700957 EU flat connector
SB700957S US2-pin connector

SUTTER
Calvian® Endo-pen® Bipolar Forceps
non-stick, 15° angled tips, 1.2mm tips,
ø 3mm shaft, vertical movement,
31cm

SB700958 EU flat connector
SB700958S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

45° angle

Indicates that the full length has not been displayed

Flushing port for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps non-stick, 45° angled tips, 2.5mm tips, ø 3.4mm shaft, vertical movement, 31cm

SB700950 EU flat connector
SB700950S US2-pin connector

SUTTER endo-pen® bipolar forceps

Instruments are not to scale

70˚ angle

Indicates that the full length has not been displayed

Flushing port for cleaning

SUTTER
Calvian® Endo-pen® Bipolar Forceps non-stick, 70˚ angled tips, 2.5mm tips, ø 3.4mm shaft, vertical movement, 31cm

SB700954 EU flat connector
SB700954S US2-pin connector

Skull Base, Micro- and Neurosurgery

Solutions with the CURIS® 4 MHz Radiofrequency Generator

4 MHz RADIOFREQUENCY

AutoRF™

p³ pulsed power performance

product design award

PRECISION ELECTROSURGERY
Made in Germany

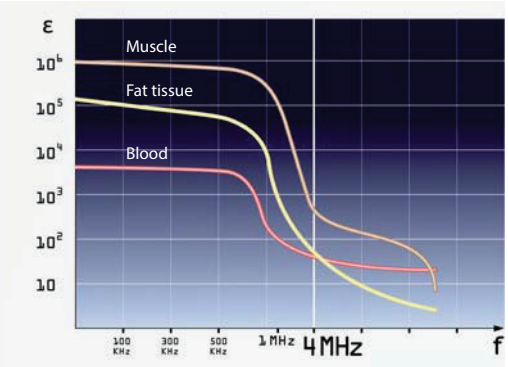
CURIS® 4 MHz Radiofrequency Generator
One unit – many applications

The CURIS® 4 MHz radiofrequency generator relies on our innovative impedance-controlled 4 MHz technology: It is gentle to the tissue and effective for coagulation and for cutting. Scientific studies have shown that tissue trauma may be reduced by using CURIS® 4 MHz radiofrequency technology.[1]

Impedance-controlled 4 MHz radiofrequency technology

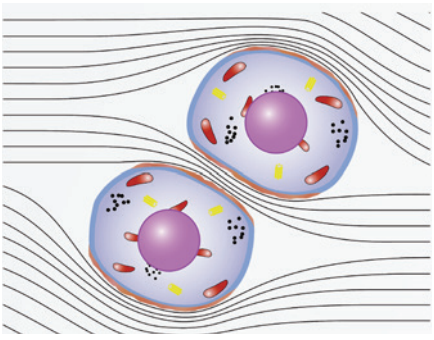
The higher the frequency, the less the resistance of biological tissue to electromagnetic fields – up to the point where cell membranes are capacitively coupled. This effect is created by the CURIS® 4 MHz radiofrequency generator in all monopolar and bipolar modes. When using conventional electrosurgical units the electromagnetic field concentrates between the cells and only heats up the outer layer. However, with the CURIS® 4 MHz radiofrequency generator cell membranes are conductive, and energy is absorbed evenly inside the cells. As a result, energy is administered gently and in a highly focused fashion. Precise monopolar cuts are possible while lateral heat damage is kept to a minimum.[2]

Permittivity/Frequency



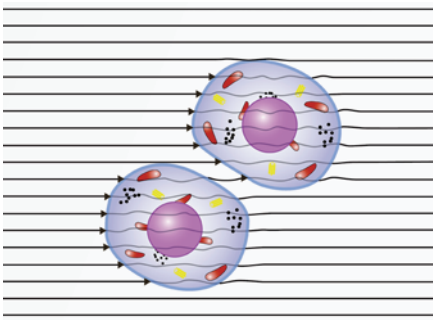
This diagram shows the permittivity of tissue, which depends on the frequency of the electromagnetic field.

Conventional electrosurgical units



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

CURIS®4 MHz radiofrequency generator



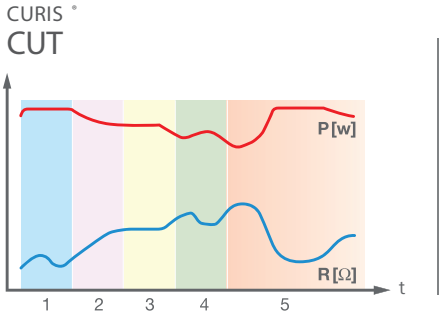
Cell membranes are conductive and the energy is absorbed evenly inside the cells. The results are highly focussed tissue effects.[3]

[1] Muehlfay G. et al., A study on the type of lesions achieved by three electrosurgical methods and their way of healing. Romanian Journal of Morphology & Embryology, 2015, 56(4): 1383-1388
[2] Hoffmann T.K. et al., Comparative analysis of resection tools suited for transoral robot-assisted surgery, European Archives Oto-Rhino-Laryngology, 2014, 271(5): 1207-1213
[3] Holder, D. S., "Brief introduction to Bioimpedance" in: Electrical Impedance Tomography – Methods, History and Applications. IOP Publishing Ltd, 2005

Precision thanks to Auto*RF*™

Auto*RF*™ is a smart impedance control function that will tailor the power output of the CURIS® 4 MHz radio-frequency 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 Auto*RF*™ feature will deliver adapted power output as required by the different tissue impedance.

When dissecting different types of tissue in one cut (skin, fat, muscles), the unit has to process and respond to the Auto*RF*™ data in a flash. For this reason, the CURIS® 4 MHz radiofrequency generator has two microprocessors for additional safety and speed.



Monopolar cutting:
Sections 1 to 5 show the different kinds of tissues and cutting speeds to which the unit adjusts its power output automatically. Illustration only.

p³™-technology

p³™, which stands for pulsed power performance, is active in all coagulation modes of the CURIS® 4 MHz radiofrequency generator. Radiofrequency energy is delivered in about 50 small packages per second. Due to the pulsed power output, there are short breaks between the individual packages, giving the tissue enough time to absorb the energy. Highly focused, yet gentle coagulation with minimal thermal damage is possible.

"The CURIS® 4 MHz radiofrequency generator provides unparalleled precision to the neuro-surgeon seeking optimal control in neurosurgical cases. I have used the device for surgery in the cavernous sinus, resection of cavernous malformation from the motor cortex, minimally invasive clipping of anterior communicating artery aneurysm, and resection of acoustic neuroma. 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
Duke Neurosurgery, Durham, NC (USA)

CURIS®: one unit - many applications

CURIS® 4 MHz radiofrequency generator - basic set

[REF 87 00 10] CURIS® 4 MHz radiofrequency generator
basic set with single-use patient plates

Qty.	REF	Description
1	**36 01 00-01**	**CURIS®** 4 MHz radiofrequency generator (incl. mains cord, user manual and test protocol)
1	**36 01 10**	Foot switch two pedals for CURIS® (cut & coag), cable: 4 m
1	**37 01 54L**	Bipolar cable for CURIS®, length: 3 m (not shown)
1	**36 07 04**	Monopolar handpiece (pencil) cut & coag, shaft 2.4 mm, cable: 3 m (not shown)
1	**36 02 38**	Cable for single-use patient plates, length: 3 m (not shown)
1 (x50)	**12 80H**	Patient plates, single-use, 5 x 10 pcs. (not shown)

Accessories

Generator connector	Length	 Safety connector / EU flat connector	 Angled connector / EU flat connector	 Safety connector / US 2-pin connector
 CURIS®4 MHz radiofrequency generator	**3.0 m**	**37 01 54 L**	**37 01 54 G**	**37 01 54 S**
 US Standard	**4.5 m**	**37 01 35 L**	**37 01 35 G**	**37 01 35 S**

Disclaimer:
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.

INKA™
SURGICAL INSTRUMENTS

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ABN 28 318 606 161

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