

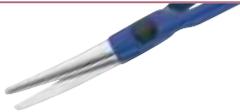
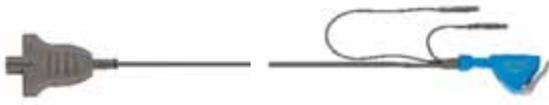
Aesculap® BipoJet®

Bipolar instruments for open surgery



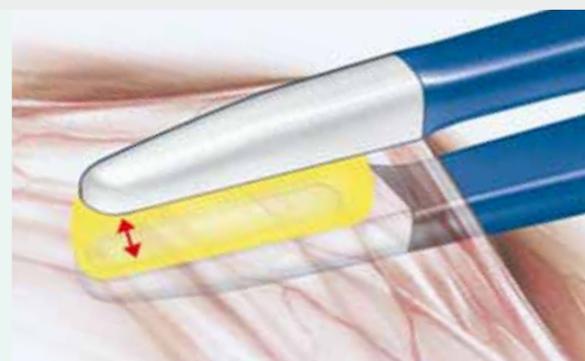
Aesculap Surgical Technologies

Bipolar instruments for open surgery

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- BipoJet bipolar instruments represent innovative technical solutions and improved product characteristics for the benefit of the user.
- Particularly important are the **ceramic components** used in all BipoJet instruments.
- Ceramic is a hard and extremely heat resistant material, which makes it very resistant to wear
- For this reason, we use special **ceramic components** for our BipoJet instruments to insulate the working area.

- The practical advantages of **ceramic insulation** are the low thermal spread in the coagulation zone and the consequent avoidance of collateral coagulation damage. In addition, BipoJet scissors have a **ceramic blade** for improved sharpness and longer life.



Defined coagulation area – low thermal spread

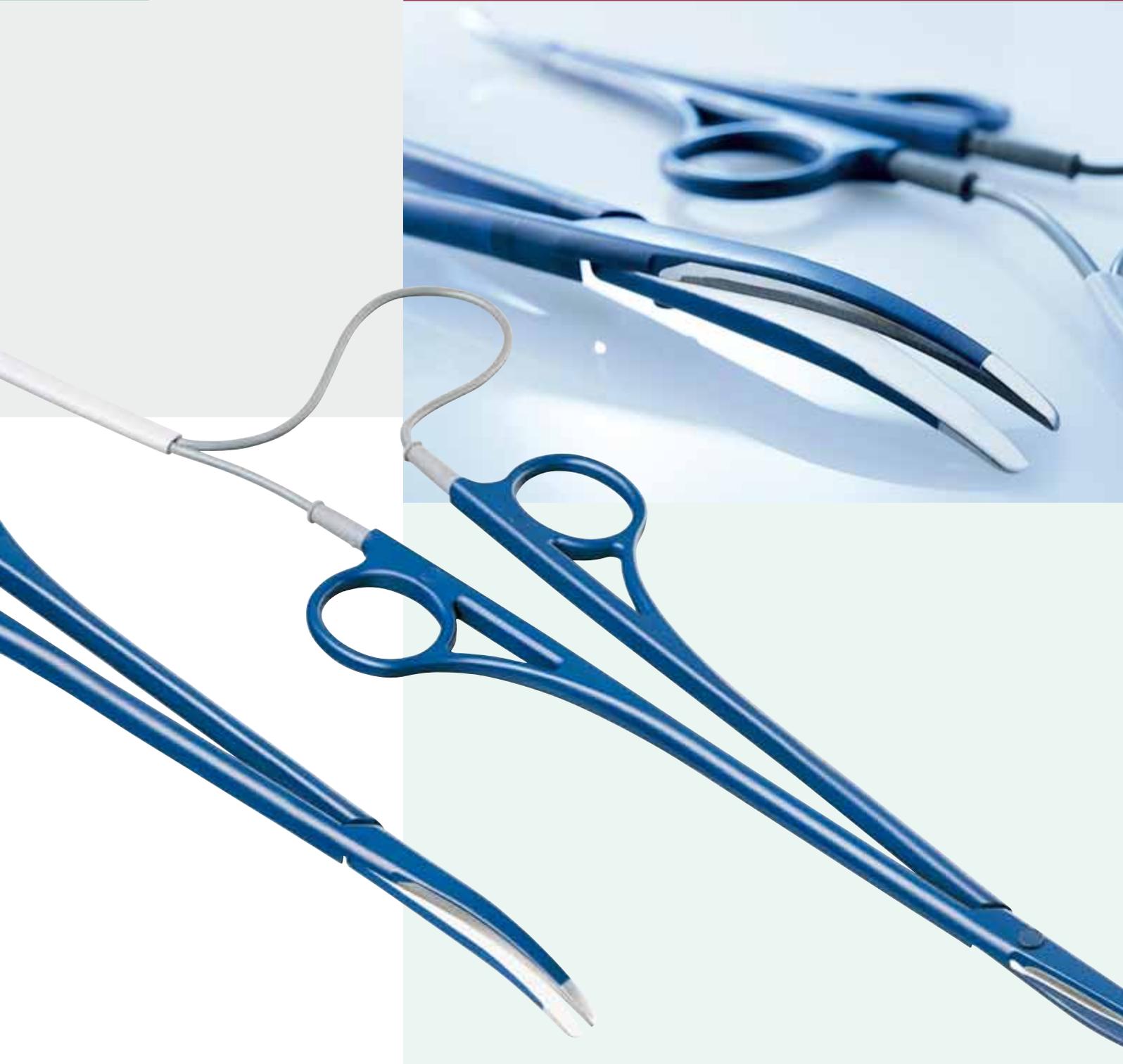


Conventional Forceps

BipoJet® Forceps

Bipolar instruments for open surgery

→ BIPOJET DISSECTING SCISSORS



Cutting and coagulation in one step

→ MORE EFFICIENCY

- Just one instrument for dissection and coagulation
No instrument change required

Bipolar technology

→ MORE SAFETY

- The current flows only through the tissue to be coagulated
No colateral coagulation

Instrument design

→ MORE SENSITIVITY

- New ergonomic handle



Solid ceramic blade

→ MORE ECONOMY

- Scissor blades made of ceramics and instrument steel
Safe insulation, thanks to the wear resistant ceramic inlay
The ceramic cutting edge remains sharp over a long time period

→ MORE INSTRUMENT

Bipolar instruments for open surgery



Without BipoJet:

Example of daily OR routine with three instruments (dissecting scissors, dissection forceps*, monopolar HF electrode).



With BipoJet:

Just one instrument for dissecting and coagulation.

Anti-twist cable

The BipoJet cable and jack are designed and constructed in such a way that the cables cannot become twisted. This means that the scissors can still be opened even after being rotated repeatedly.



* Not the intended use of non-insulated dissecting forceps – risk of collateral coagulation.



Parallel cutting and coagulating

Parallel cutting and coagulation of the incised tissue: The tissue is cut while coagulation mode of the HF generator is activated.

Precoagulation

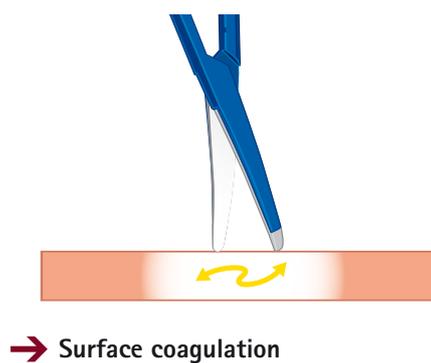
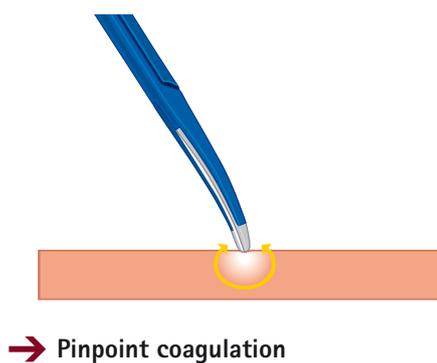
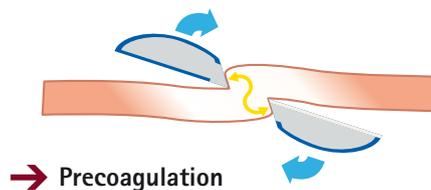
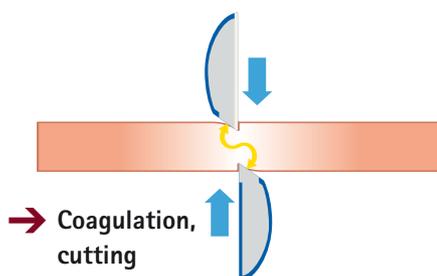
Prior to performance of the cut, the scissors are rotated so as to coagulate more robust tissue and larger blood vessels.

Pinpoint coagulation

Bleeding can be precisely controlled in localized areas with the scissors tip closed or slightly open.

Surface coagulation

Surface coagulation performed between the open blades of the scissors.



Bipolar instruments for open surgery



BC691R
METZENBAUM
Bipolar dissecting scissors
extra fine tip
120 mm, 4³/₄"



BC692R
METZENBAUM
Bipolar dissecting scissors
extra fine tip
140 mm, 5¹/₂"



BC693R
METZENBAUM
Bipolar dissecting scissors
extra fine tip
160 mm, 6¹/₄"

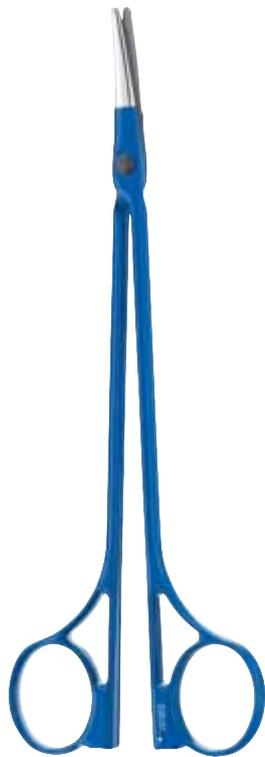


BC694R
STEVENS
Bipolar dissecting scissors
Tenotomy tip
120 mm, 4³/₄"

BC695R
STEVENS
Bipolar dissecting scissors
Tenotomy tip
140 mm, 5¹/₂"

BC696R
STEVENS
Bipolar dissecting scissors
Tenotomy tip
160 mm, 6¹/₄"





BC697R
METZENBAUM
Bipolar dissecting scissors
extra fine tip
180 mm, 7"



BC698R
METZENBAUM
Bipolar dissecting scissors
extra fine tip
230 mm, 9"



BC699R
METZENBAUM
Bipolar dissecting scissors
extra fine tip
280 mm, 11"



Bipolar instruments for open surgery



BC685R
 METZENBAUM
 Bipolar dissecting scissors
 standard tip
 180 mm, 7"



BC687R
 METZENBAUM
 Bipolar dissecting scissors
 standard tip
 230 mm, 9"



BC689R
 METZENBAUM
 Bipolar dissecting scissors
 standard tip
 280 mm, 11"



BC686R
 METZENBAUM
 Bipolar dissecting scissors
 fine tip
 180 mm, 7"

BC688R
 METZENBAUM
 Bipolar dissecting scissors
 fine tip
 230 mm, 9"

BC690R
 METZENBAUM
 Bipolar dissecting scissors
 fine tip
 280 mm, 11"





Bipolar instruments for open surgery

→ BIPOJET FORCEPS



Defined coagulation area – low thermal spread



Conventional Forceps

BiPoJet® Forceps

→ PRECISE

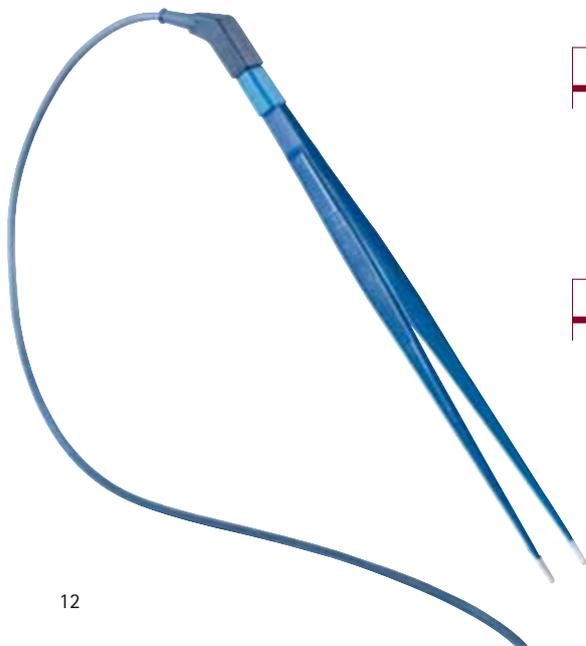
- defined coagulation area prevents collateral coagulation

→ SAFE

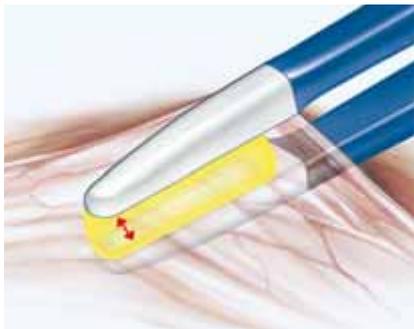
- low temperature range during coagulation
coagulation instead of carbonization

→ ANTI-STICKING

- reduced tissue adhesion
less risk of tearing open coagulated vessels when opening forceps

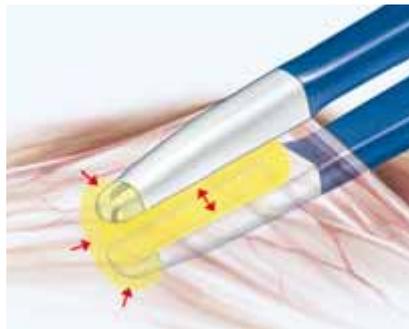


Fully insulated tip



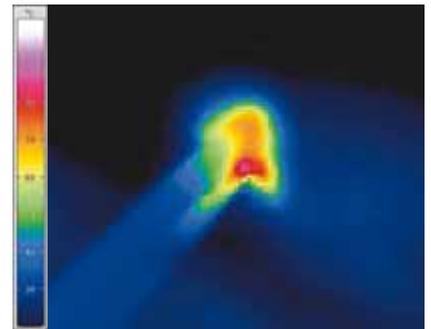
BipoleJet forceps. Strictly confined coagulation zone.

Partially insulated tip

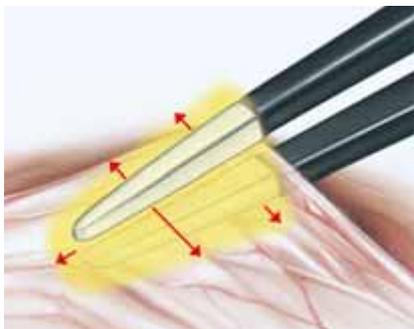


Partially insulated tip. Precise and safe, even in cases where the tips of the forceps have to be used for coagulation.

Coagulation comparison
Thermal camera images



Ceramic forceps. With its ceramic insulation, the BipoleJet forceps coagulates precisely at low temperature.



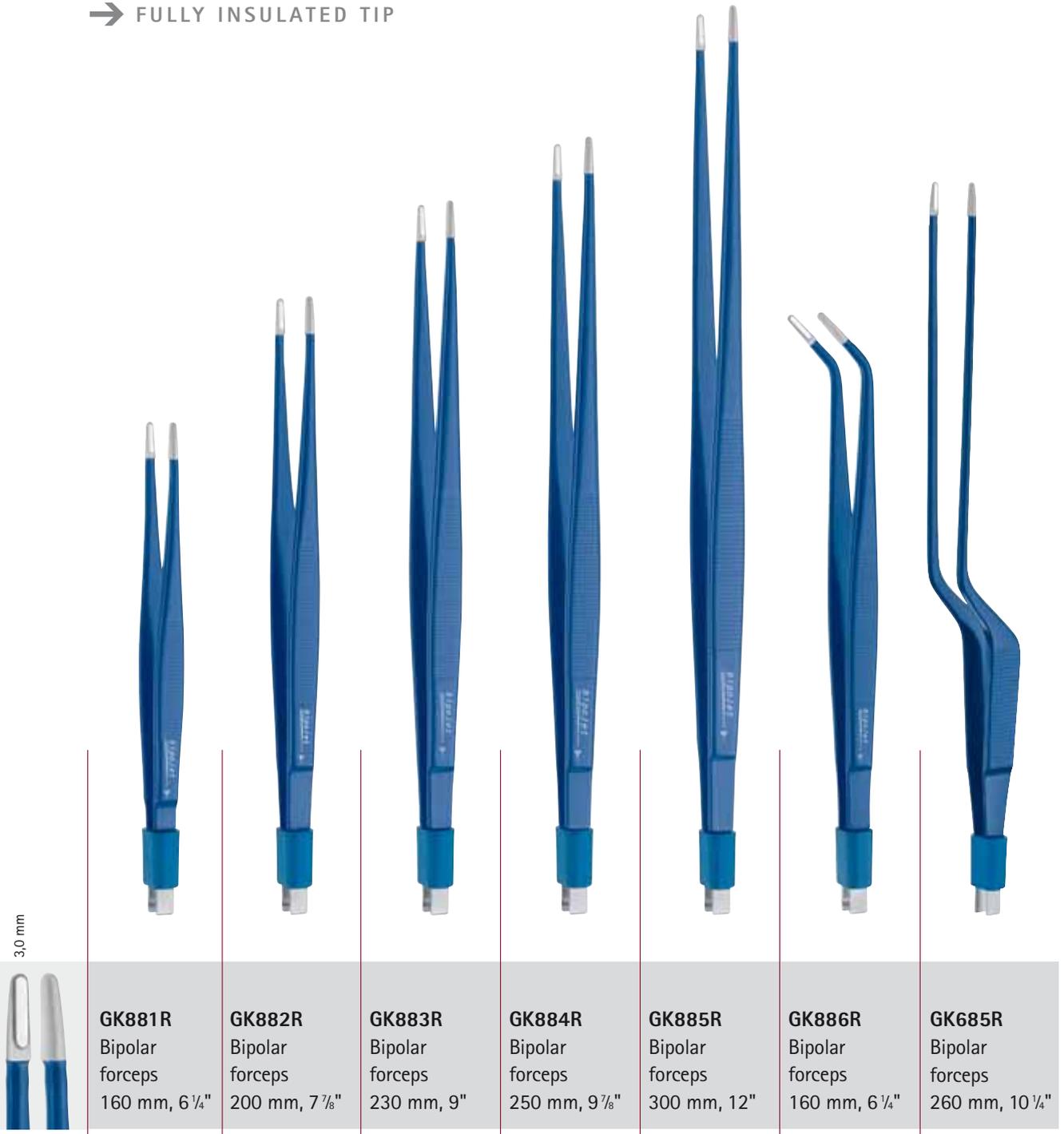
Conventional forceps. Extended coagulation zone. Undefined thermal spread.



Conventional bipolar forceps. Clearly visible are the comparatively high temperatures at the centre, which provoke tissue adhesion, and the coagulation zone, which extends far beyond the forceps.

Bipolar instruments for open surgery

→ FULLY INSULATED TIP



→ PARTIALLY INSULATED TIP

3.0 mm



GK891R
Bipolar
forceps
160 mm, 6 1/4"



GK892R
Bipolar
forceps
200 mm, 7 7/8"



GK893R
Bipolar
forceps
230 mm, 9"



GK894R
Bipolar
forceps
250 mm, 9 7/8"



GK895R
Bipolar
forceps
300 mm, 12"



GK896R
Bipolar
forceps
160 mm, 6 1/4"

Bipolar instruments for open surgery

→ BIPOJET CLAMP

Complete ceramic insulation, coagulation only takes place between the jaws.

Ceramic teeth improve the grasping properties in the jaw



→ FAST

- Coagulation over a large area for each dissection step

→ EASY

- Can be used with practically any HF generator

→ PRECISE

- Defined coagulation zone

→ SAFE

- Low thermal spread during coagulation



BH686R
Bipolar clamp
180 mm, 7"



BH687R
Bipolar clamp
230 mm, 9"



BH689R
Bipolar clamp
280 mm, 11"



Bipolar instruments for open surgery

→ BIPOJET CABLES AND ACCESSORIES



Replacement ceramic protectors*



JG884R Ceramic protector for fine Bipolar scissors BC691R – BC699R



JG885R Ceramic protector for Bipolar scissors BC685R – BC690R and bipolar clamps BH686R – BH689R



GK890P Ceramic protector for Bipolar forceps GK881R – GK886R.
Can also be used as a tip protector for other fine forceps. Pack of 5 pieces.

*All Bipolar instruments are delivered with a fitting ceramic protector as standard.

Bipolar finger switches

Allows the activation of the HF generator without foot switch. To be used with GN640 Nelson deluxe or with the bipolar switch box GN310.

GN084 for BipoJet scissors

GN086 for BipoJet clamps



Bipolar Connecting cables

Generator side

Instrument side with anti-twist technology

GN081 Aesculap, Berchtold, Martin, R. Wolf
Length 5 m



GN082 Erbe, Storz
Length 5 m



GN083 Aesculap, for electrosurgical units:
GK020, GK021, GK030, GK034,
GK050, GK051
Length 5 m



GN085 Valleylab, Erbe VIO
Pin distance 29 mm
Length 5 m



GN145 Dolly, EMC, ERBE-International
Pin distance 22 mm
Length 5 m



GN146 Codman CMC II, CMC III
Pin distance 38 mm
Length 5 m



Bipolar instruments for open surgery

Bipolar connection cables	Equipment side	Instrument side – Aesculap
	 Tab connector	
GN342 ERBE, Storz Length 4 m		
GK140 Aesculap, ACMI, Berchtold, Martin, Wolf Round Pin, Length 4 m		
GN217 Codman Length 4 m		
GK280 Dolly, EMC, ERBE-International Length 4 m Pin distance 22 mm		
GK281 Aesculap, BOWA, EMC, Lamidey, Söring, Valleylab Length 4 m Pin distance 28,6 mm		
GK282 Codman CMC II, CMC III Length 4 m Pin distance 38 mm		

Bipolar connection cables

Equipment side

Instrument side – Aesculap

-  Tab connector
-  Round pin connector

GK290SU Dolly, EMC, ERBE-International
Length 3,7 m
Pin distance 22 mm



GK291SU Aesculap, BOWA, EMC,
Lamidey, Söring, Valleylab
Length 3,7 m
Pin distance 28,6 mm



GK292SU Codman CMC II, CMC III
Length 3,7 m
Pin distance 38 mm

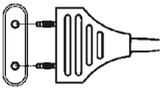
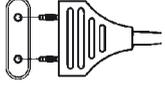
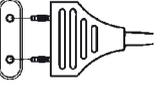
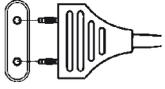


-  Tab connector

GK328 Aesculap GK050, GK051
Length 4 m
Pin distance UHF



Bipolar instruments for open surgery

Bipolar connection cables	Equipment side	Instrument side – Aesculap
<p>GN226 Dolley/EMC Pin distance 22 mm</p>	 <p>22 mm</p>	 <p>Aesculap 28.6 mm</p>
<p>GN219 Conmed Pin distance 32 mm</p>	 <p>32 mm</p>	 <p>Aesculap 28.6 mm</p>
<p>GN224 Codman Pin distance 38 mm</p>	 <p>38 mm</p>	 <p>Aesculap 28.6 mm</p>
<p>GN228 Aesculap GN300 Pin distance 25 mm</p>	 <p>25 mm</p>	 <p>Aesculap 28.6 mm</p>



For more information see our
Electrosurgical Instruments and
Devices catalog C30481.



Bipolar instruments for open surgery

→ NELSON BIPOLAR UNITS

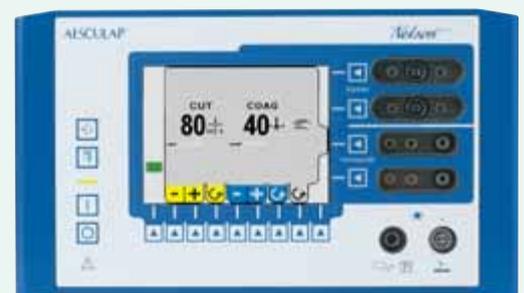


Aesculap
Aesculap GN300, Nelson deluxe
GN640 < SN 2000,

Martin MAXIUM, ME411,
Elektrotom 400

Valleylab Force2, Force FX

ERBE series Erbotom ICC
(z. B. ICC350), VIO*



* Additional adapters necessary, please contact your local Aesculap distributor.

GN310 Nelson BiBox – Bipolar switch box

The Nelson BiBox acts as an adapter, control and distributor unit for operating Aesculap bipolar hand switches with HF generators from other manufacturers (e.g. Erbe, Valleylab, Martin). The BiBox converts the Aesculap hand switch signal into a foot switch signal that the different HF generator can recognize. In addition, the single bipolar output on the HF device is distributed across the double bipolar HF connections of the Nelson BiBox, making two bipolar connections available with the Nelson BiBox (e.g. for a BipoJet clamp and a BipoJet scissor).

Using the BipoJet hand switches with other manufacturers' HF generators avoids having to use a foot pedal and thus reduces stumbling.

You can double the potential of your HF generator by connecting two bipolar instruments to one bipolar output!

Adapter cabel

	HF adapter cable	Pedal adapter cable
Aesculap	GN313	GN314
Erbe	GN311	GN312
Martin	GN313	GN318
Valleylab	GN315	GN316

GN640 Nelson deluxe – Electrosurgery the innovative way

Electrosurgical unit featuring 2 monopolar and 2 bipolar outputs

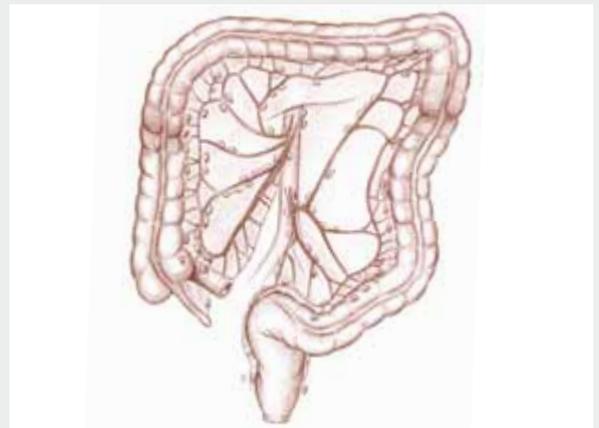
- Starts with the push of a button
- Individually programmable (e.g., according to indication or surgeon)
- 14 separate memories
- Innovative clear information display in color
- Monopolar and bipolar cutting and coagulating
- Freely selectable cutting quality
- All the safety features you'd expect from a best in class device
- Nelson deluxe automatically recognizes coded instruments and uses the correct setting

Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

AREAS OF APPLICATION FOR BIPOJET INSTRUMENTS

The BipoJet instruments are suitable for almost all dissection steps where coagulation is required. Thanks to the ceramic insulation, the surgeon can work along the anatomical planes with great precision. Moreover, the coagulation of lymph vessels in carcinoma surgery might increase safety from the oncological point of view.



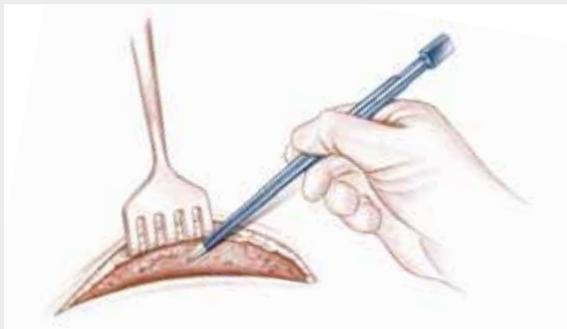
BIPOJET IN VISCERAL SURGERY

Colorectal carcinoma

1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

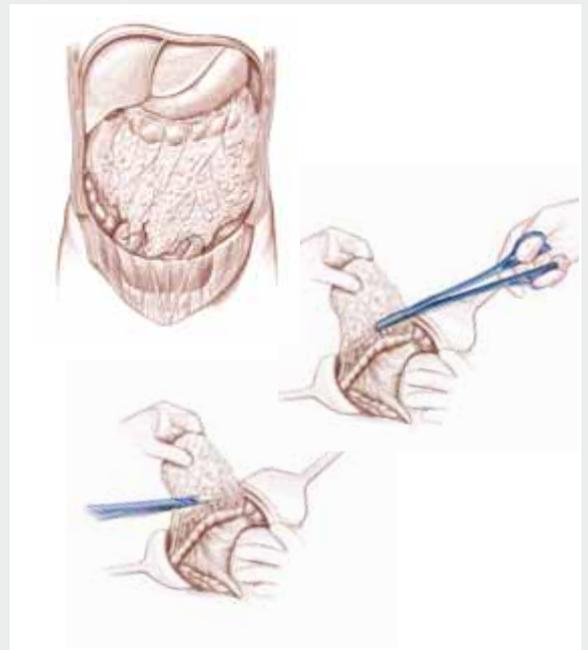
Advantage: fast, because the monopolar knife can be used in parallel.



2. Dissecting the omentum

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp.

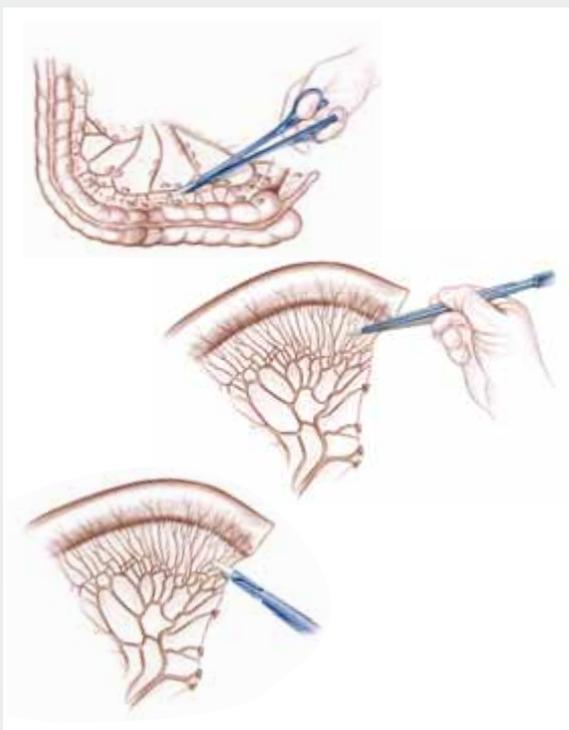
Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Using the BipoJet clamp to coagulate delicate vessels over a large area provides a clearer overview.



3. Dissecting the mesentery

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp and spring forceps.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise and safe coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas.

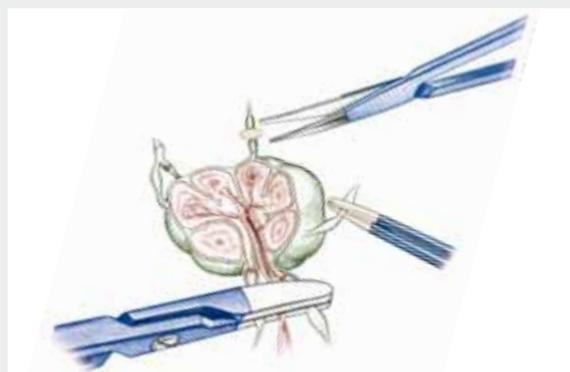


4. Mobilizing the intestine

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp and forceps. Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas.

5. Lymphadenectomy

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and coagulation of blood and lymph vessels prior to lymph node removal. Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas. Lymph vessel coagulation during dissection with the scissors and using the BipoJet clamp prior to lymph node resection is possible.



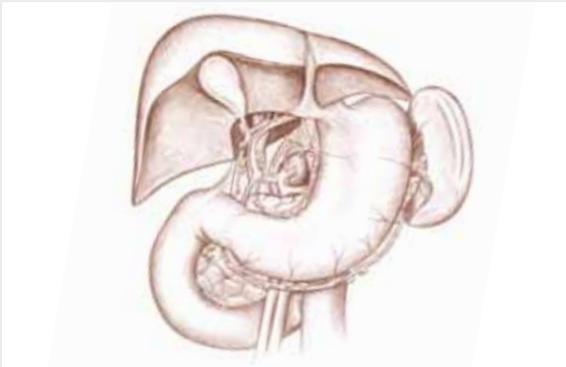
Recommendation

BC687R	Bipolar dissecting scissors 230 mm, 9"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC698R	Bipolar dissecting scissors extra fine tip 230 mm, 9"
BC689R	Bipolar dissecting scissors 280 mm, 11"
BC698R	Bipolar dissecting scissors extra fine tip 280 mm, 11"
BH687R	Bipolar clamp 230 mm, 9"
BH689R	Bipolar clamp 280 mm, 11"
GN086	Hand switch for bipolar clamp
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK885R	Bipolar forceps fully insulated 300 mm, 12"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"
GK894R	Bipolar forceps partially insulated 250 mm, 9 7/8"

Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

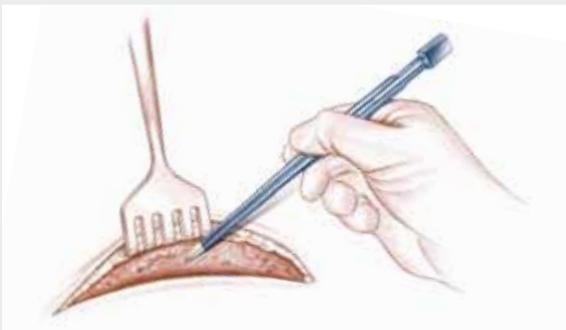
Gastric carcinoma



1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

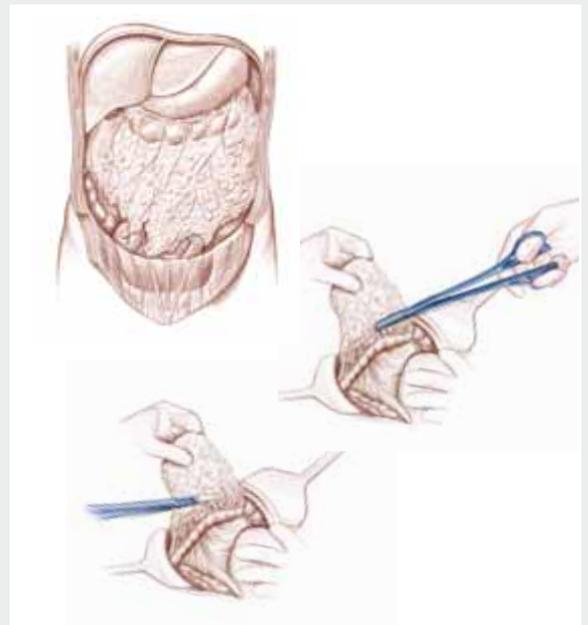
Advantage: fast, because the monopolar knife can be used in parallel.



2. Dissecting the omentum

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Using the BipoJet clamp to coagulate delicate vessels over a large area improves the overview.



3. Dissecting the stomach

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp and forceps.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise and safe coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas.

4. Mobilizing the stomach

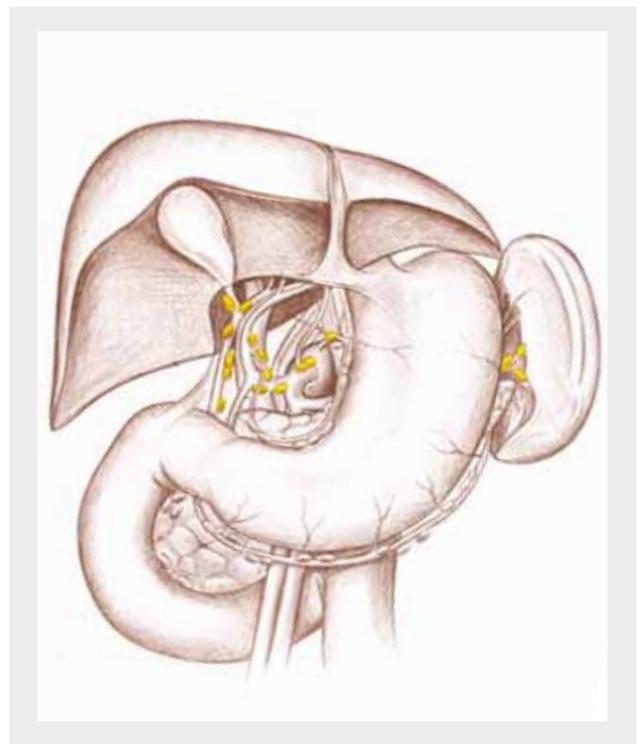
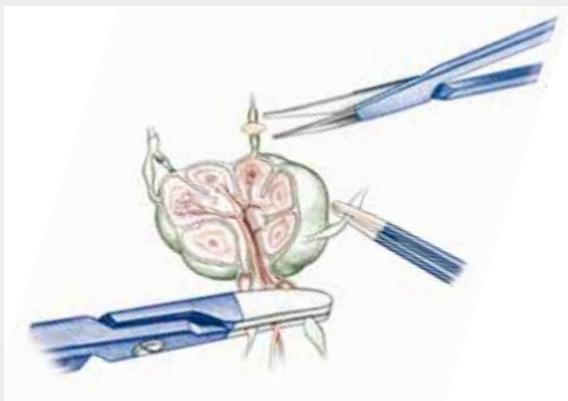
Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp and forceps.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise coagulation can also be achieved close to vessels and nerves using the BipoJet forceps for small areas or the BipoJet clamp for large areas.

5. Lymphadenectomy

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and coagulation of blood and lymph vessels with the BipoJet clamp prior to lymph node removal.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas. Lymph vessel coagulation during dissection with the scissors and using the BipoJet clamp prior to lymph node resection is possible.



Recommendation

BC687R	Bipolar dissecting scissors 230 mm, 9"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC698R	Bipolar dissecting scissors extra fine tip 230 mm, 9"
BC689R	Bipolar dissecting scissors 280 mm, 11"
BH687R	Bipolar clamp 230 mm, 9"
BH689R	Bipolar clamp 280 mm, 11"
BC698R	Bipolar dissecting scissors extra fine tip 280 mm, 11"
GN086	Hand switch for bipolar clamp
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK884R	Bipolar forceps fully insulated 250 mm, 9 ⁷ / ₈ "
GK891R	Bipolar forceps partially insulated 160 mm, 6 ¹ / ₄ "
GK893R	Bipolar forceps partially insulated 230 mm, 9"
GK895R	Bipolar forceps partially insulated 300 mm, 12"

Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

Thyroid surgery

1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

Advantage: fast, because the monopolar knife can be used in parallel.

2. Exposing the thyroid

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Precise coagulation with the BipoJet forceps (fully insulated tips).

3. Mobilizing and resecting the thyroid

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Safe coagulation can also be achieved close to vessels or nerves using the BipoJet forceps (fully insulated tips).

Recommendation

BC697R	Bipolar dissecting scissors extra fine tip 180 mm, 7 1/8"
BC693R	Bipolar dissecting scissors extra fine tip 160 mm, 6 1/4"
BC696R	Stevens bipolar dissecting scissors 160 mm, 6 1/4"
BH686R	Bipolar clamp 180 mm, 7 1/8"
GN086	Hand switch for bipolar clamp
GK881R	Bipolar forceps fully insulated 160 mm, 6 1/4"
GK882R	Bipolar forceps fully insulated 200 mm, 7 7/8"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"

BIPOJET IN GYNAECOLOGY

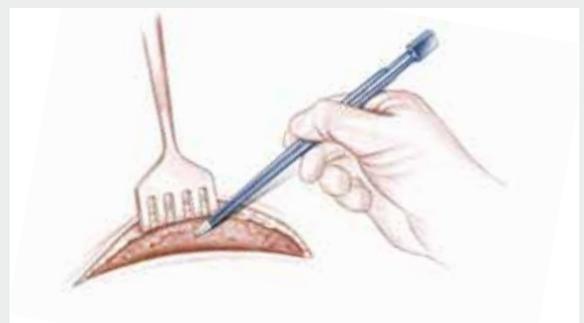
Breast cancer



1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

Advantage: fast, because the monopolar knife can be used in parallel.



2. Resecting the tumor / breast

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Coagulation

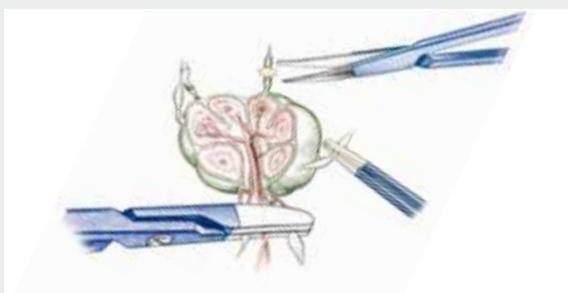
in the narrow and not clearly visible operating site is assured by the length of the insulation on the BipoJet scissor blades and the ceramic insulation on the forceps (prevents any accidental coagulation on the outside of the tip).

3. Axillary lymphadenectomy

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and coagulation of blood and lymph vessels with the BipoJet clamp prior to lymph node removal.



Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Coagulation in the narrow and not clearly visible operating site can be achieved using the BipoJet forceps for small areas or the BipoJet clamp for large areas. Lymph vessel coagulation during dissection with the scissors and using the BipoJet clamp prior to lymph node resection is possible.



Recommendation

BC686R	Bipolar dissecting scissors fine tip 180 mm, 7 1/8"
BC697R	Bipolar dissecting scissors extra fine tip 180 mm, 7 1/8"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC698R	Bipolar dissecting scissors extra fine tip 230 mm, 9"
BC693R	Bipolar dissecting scissors extra fine tip 160 mm, 6 1/4"
BH686R	Bipolar clamp 180 mm, 7 1/8"
GN086	Hand switch for bipolar clamp
GK881R	Bipolar forceps fully insulated 160 mm, 6 1/4"
GK882R	Bipolar forceps fully insulated 200 mm, 7 7/8"
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"
GK892R	Bipolar forceps partially insulated 200 mm, 7 7/8"

Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

Abdominal hysterectomy

1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

Advantage: fast, because the monopolar knife can be used in parallel.

2. Dissecting the uterus

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp and forceps.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Precise coagulation can be achieved using the BipoJet forceps for small areas or the BipoJet clamp for large areas.

3. Mobilizing and resecting the uterus

Dissection with the BipoJet scissors, with additional hemostasis using the BipoJet clamp and forceps.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Precise coagulation can be achieved using the BipoJet forceps for small areas or the BipoJet clamp for large areas.

4. Lymphadenectomy

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and coagulation of blood and lymph vessels with the BipoJet clamp prior to lymph node removal.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas. Lymph vessel coagulation during dissection with the scissors and using the BipoJet clamp prior to lymph node resection is possible.

Recommendation

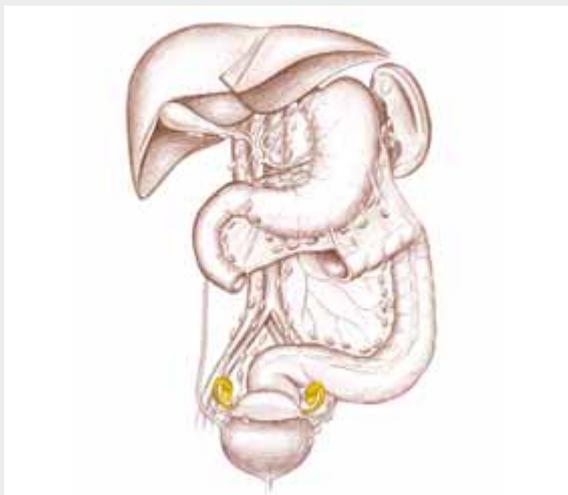
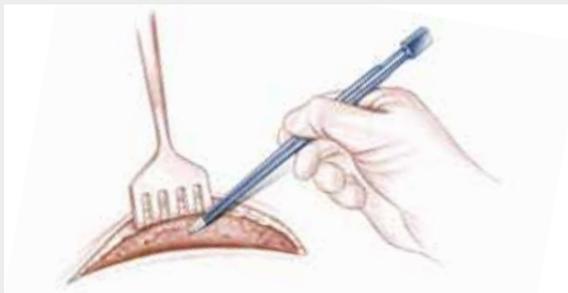
BC687R	Bipolar dissecting scissors 230 mm, 9"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC689R	Bipolar dissecting scissors 280 mm, 11"
BH687R	Bipolar clamp 230 mm, 9"
BH689R	Bipolar clamp 280 mm, 11"
GN086	Hand switch for bipolar clamp
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK884R	Bipolar forceps fully insulated 250 mm, 9 ⁷ / ₈ "
GK891R	Bipolar forceps partially insulated 160 mm, 6 ¹ / ₄ "
GK894R	Bipolar forceps partially insulated 250 mm, 9 ⁷ / ₈ "
GK895R	Bipolar forceps partially insulated 300 mm, 12"

Ovarial carcinoma

1. Skin incision

The surgical assistant uses the Bipolar forceps (Partially insulated tips) for hemostasis.

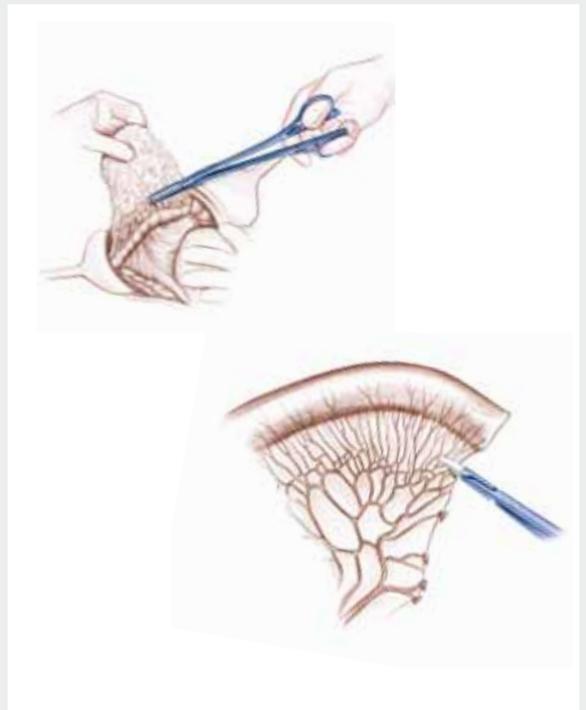
Advantage: fast, because the monopolar knife can be used in parallel.



2. All dissecting and resecting steps (omentum, ovaries, etc.)

Dissection with the Bipolar scissors, with additional hemostasis using the Bipolar clamp and forceps.

Advantage: simultaneous dissection and coagulation with the Bipolar scissors might save time. Precise coagulation can be achieved using the Bipolar forceps for small areas or the Bipolar clamp for large areas.



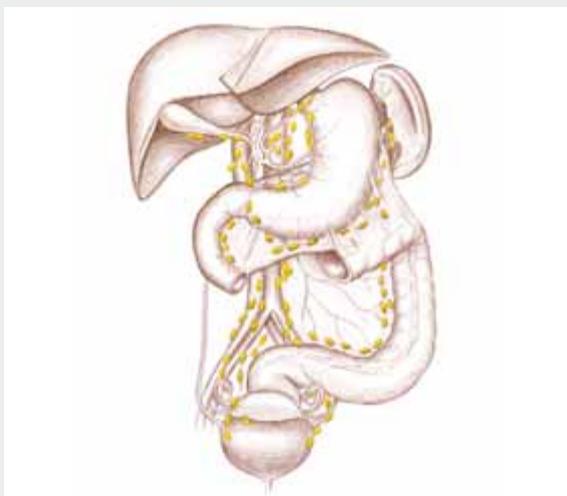
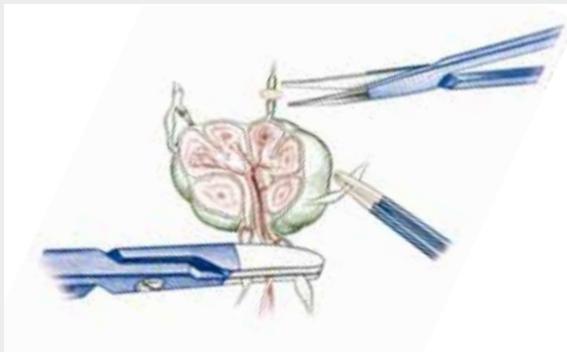
Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

3. Lymphadenectomy

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and coagulation of blood and lymph vessels with the BipoJet clamp prior to lymph node removal.

Advantage: simultaneous dissection and coagulation with the Bipojet scissors might save time. Precise coagulation can also be achieved close to vessels or organs using the BipoJet forceps for small areas or the BipoJet clamp for large areas. Lymph vessel coagulation during dissection with the scissors and using the BipoJet clamp prior to lymph node resection is possible.

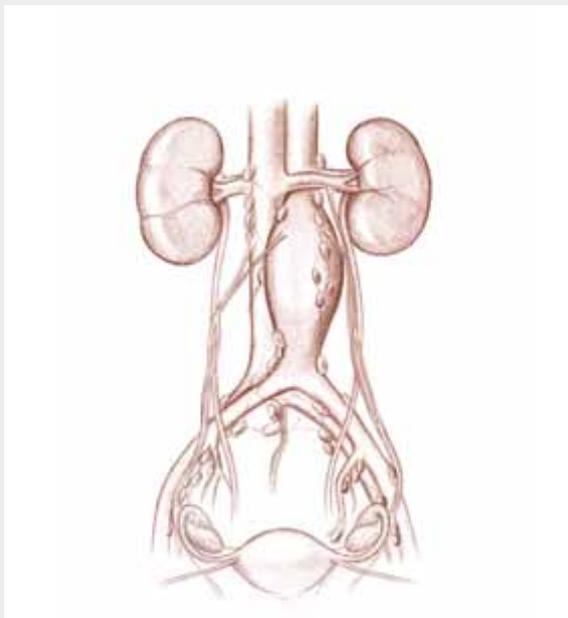


Recommendation

BC686R	Bipolar dissecting scissors fine tip 180 mm, 7 1/8"
BC697R	Bipolar dissecting scissors extra fine tip 180 mm, 7 1/8"
BC687R	Bipolar dissecting scissors 230 mm, 9"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC698R	Bipolar dissecting scissors extra fine tip 230 mm, 9"
BC689R	Bipolar dissecting scissors 280 mm, 11"
BC699R	Bipolar dissecting scissors extra fine tip, 280 mm 11"
BH686R	Bipolar clamp 180 mm, 7 1/8"
BH687R	Bipolar clamp 230 mm, 9"
BH689R	Bipolar clamp 280 mm, 11"
GN086	Hand switch for bipolar clamp
GK882R	Bipolar forceps fully insulated 200 mm, 7 7/8"
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK884R	Bipolar forceps fully insulated 250 mm, 9 7/8"
GK885R	Bipolar forceps fully insulated 300 mm, 12"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"
GK892R	Bipolar forceps partially insulated 200 mm, 7 7/8"
GK893R	Bipolar forceps partially insulated 230 mm, 9"
GK894R	Bipolar forceps partially insulated 250 mm, 9 7/8"
GK895R	Bipolar forceps partially insulated 300 mm, 12"

VASCULAR SURGERY

Abdominal Aortic Aneurysm



1. Skin incision

The assistant surgeon uses the Bipolar forceps (Partially insulated tips) for hemostasis.

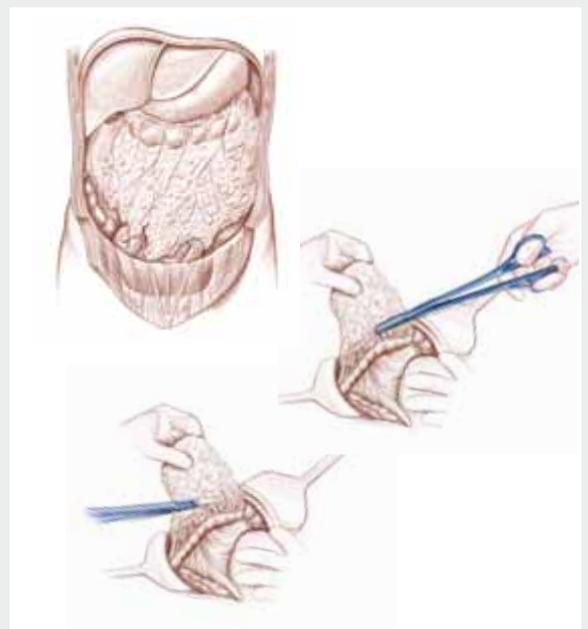
Advantage: fast, because the monopolar knife can be used in parallel.



2. Dissecting the omentum

Dissection with the Bipolar scissors, with additional hemostasis using the Bipolar clamp.

Advantage: simultaneous dissection and coagulation with the Bipolar scissors might save time. Using the Bipolar clamp to coagulate delicate vessels over a large area provides a clearer overview.



3. Mobilizing the intestine

Dissection with the Bipolar scissors, with additional hemostasis using the Bipolar clamp and forceps.

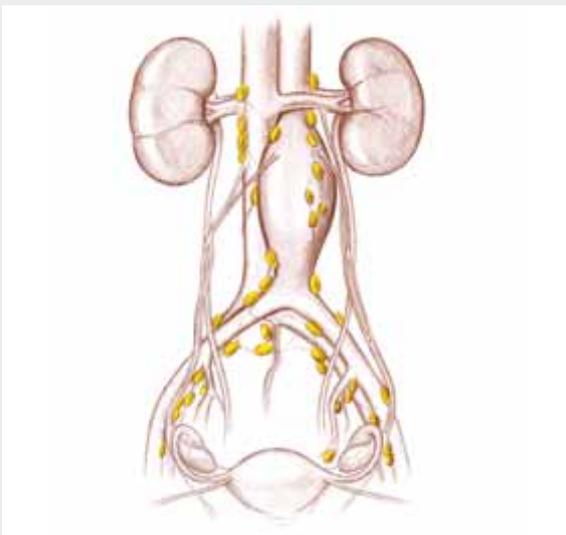
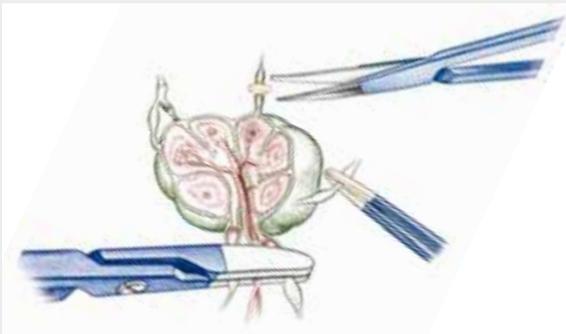
Advantage: simultaneous dissection and coagulation with the Bipolar scissors might save time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the Bipolar forceps for small areas or the Bipolar clamp for large areas.

Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

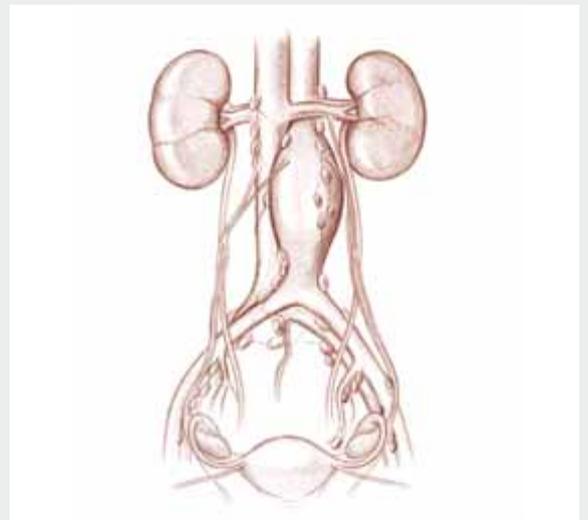
4. Coagulation of lymphatic vessels

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and clamp coagulation of blood and lymph vessels Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Precise coagulation can also be achieved close to vessels or the intestinal wall using the BipoJet forceps for small areas or the BipoJet clamp for large areas.



5. Dissecting of the Aneurysm

Dissection with the BipoJet scissors, haemostasis with the BipoJet forceps and clamp coagulation of blood and lymph vessels. Due to the ceramics insulation of the BipoJet forceps and clamps coagulation is possible even close to vessel walls and other sensitive anatomical structures.



Recommendation

BC687R	Bipolar dissecting scissors 230 mm, 9"
BC688R	Bipolar dissecting scissors fine tip 230 mm, 9"
BC698R	Bipolar dissecting scissors extra fine tip 230 mm, 9"
BC689R	Bipolar dissecting scissors 280 mm, 11"
BC699R	Bipolar dissecting scissors extra fine tip, 280 mm 11"
BH687R	Bipolar clamp 230 mm, 9"
BH689R	Bipolar clamp 280 mm, 11"
GN086	Hand switch for bipolar clamp
GK883R	Bipolar forceps fully insulated 230 mm, 9"
GK885R	Bipolar forceps fully insulated 300 mm, 12"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"
GK894R	Bipolar forceps partially insulated 250 mm, 9 7/8"

Carotis operations

1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

Advantage: fast, because the monopolar knife can be used in parallel.

2. Dissecting

Dissection with the delicate BipoJet scissors, with additional hemostasis using the BipoJet forceps and clamp.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Using the BipoJet forceps to coagulate delicate vessels and using the BipoJet clamp to coagulate lymphatic vessels. Due to the ceramics insulation of the BipoJet forceps and clamps coagulation is possible even close to vessel walls and other sensitive anatomical structures.

Recommendation

BC686R	Bipolar dissecting scissors fine tip 180 mm, 7 1/8"
BC697R	Bipolar dissecting scissors extra fine tip 180 mm, 7 1/8"
BC693R	Bipolar dissecting scissors extra fine tip 160 mm, 6 1/4"
BC696R	Stevens bipolar dissecting scissors 160 mm, 6 1/4"
BH686R	Bipolar clamp 180 mm, 7 1/8"
GN086	Hand switch for bipolar clamp
GK881R	Bipolar forceps fully insulated 160 mm, 6 1/4"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"

Bipolar instruments for open surgery

→ SURGICAL APPLICATION/INDICATIONS

Operations in the groin

1. Skin incision

The assistant surgeon uses the BipoJet forceps (Partially insulated tips) for hemostasis.

Advantage: fast, because the monopolar knife can be used in parallel.

2. Dissecting

Dissection with the delicate BipoJet scissors, with additional hemostasis using the BipoJet forceps and clamp.

Advantage: simultaneous dissection and coagulation with the BipoJet scissors might save time. Using the BipoJet forceps to coagulate delicate vessels and using the BipoJet clamp to coagulate lymphatic vessels. Due to the ceramics insulation of the BipoJet forceps and clamps coagulation is possible even close to vessel walls and other sensitive anatomical structures.

Recommendation

BC686R	Bipolar dissecting scissors fine tip 180 mm, 7 1/8"
BC697R	Bipolar dissecting scissors extra fine tip 180 mm, 7 1/8"
BH686R	Bipolar clamp 180 mm, 7 1/8"
GN086	Hand switch for bipolar clamp
GK881R	Bipolar forceps fully insulated 160 mm, 6 1/4"
GK882R	Bipolar forceps fully insulated 200 mm, 7 7/8"
GK891R	Bipolar forceps partially insulated 160 mm, 6 1/4"

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