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Rigid and flexible probes
for open and endoscopic argon surgery

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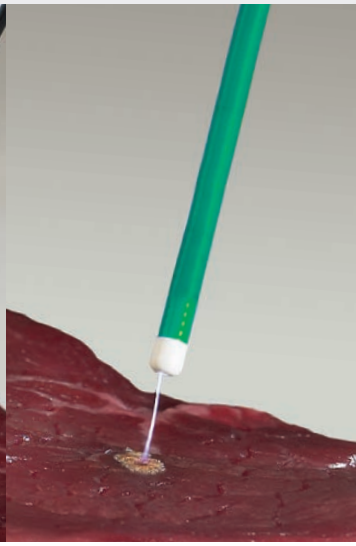
Rigid and flexible Probes for open and endoscopic Argon Surgery



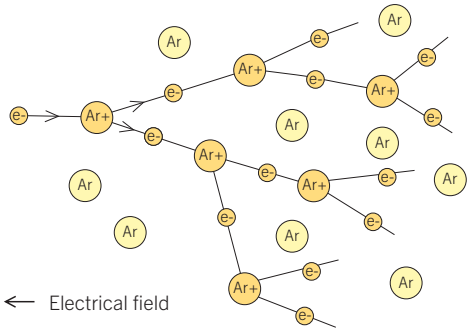
Argon-supported HF surgery has been offering advantages for surface coagulation for many years. The application fields of argon-supported HF surgery include:

- open surgery
- laparoscopic surgery
- pneumology
- gastroenterology

Working principle

By ionizing the argon gas atmosphere using HF current (high-voltage spray coagulation current), electrically conductive argon plasma is generated.

Electrodes of different shape and length are available to users, thus providing for cutting as well as large-area coagulation.



Advantages of argon surgery:

- Reliable coagulation with minimal traumatization of the tissue or organ
- Low blood loss and shortened operating times
- Minimal vaporization at a very low penetration depth (0.5 to max. 3 mm), therefore significantly reduced perforation risk
- No carbonization, therefore faster wound healing
- Significantly reduced smoke development, improved view of the surgical site
- Non-contact method – no tissue sticking to electrode
- Less bronchial and pleural fistula formation on lung parenchyma

Application examples for Argon Probes

Argon Cut

Argon Beam

Argon Endo

Pulsed Argon Slow Rep.

Pulsed Argon Fast Rep.

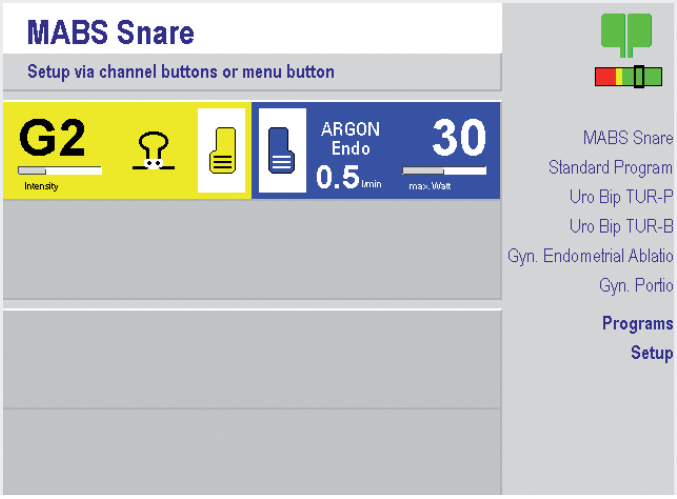
Open surgery examples:

- General surgery
  - Partial liver resection, colon resection
- ENT
  - Tonsillectomy
- Cardiac/thoracic surgery
  - Median sternotomy
- Emergency surgery
  - Large-surface hemostasis during skin grafting procedures
- Plastic surgery
  - Mammary reduction

Endoscopic surgery examples:

- Gastroenterology
  - Gastric ulcer
  - Esophagus
  - Angiodysplasias
  - Hemostasis of diffuse bleeding
  - Conditioning prior to fistula sealing
  - Hemostasis after polypectomy
- Gynecology
  - Hemostasis after myomectomy
- Laparoscopy
  - Hemostasis after cholecystectomy
- Pneumology
  - Coagulation of superficial hemorrhages
  - Coagulation in trachea, primary/ secondary bronchi

MABS Snare probes – the two-in-one solution



ARGON Endo
Argon Endo

ARGON 1.0 l/min
Pulsed Argon Slow Rep.

ARGON 1.0 l/min
Pulsed Argon Fast Rep.

Polyp I

Polyp II

MABS Snare probes are combination probes allowing you to remove polyps with subsequent argon coagulation of the site.

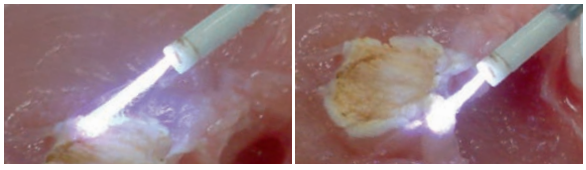
The great advantage of these probes: you don't need to exchange instruments for performing the coagulation in a second step. Following ablation, you just pull the snare back into the instrument to use the probe as a "normal" MABS beam probe. Moreover, the probe can be conveniently used in this way for coagulating/vaporizing minor polyps.

Why coagulation following polypectomy? The answer is that additional coagulation cuts the recurrence rate.

The ideal combination between resection and argon beamer coagulation

Step 1: resection

ARGON Endo



Step 2: argon beamer coagulation

Flexible MABS probes for gastroentorological and endobronchial applications

Flexible MABS electrodes have the following features in common:

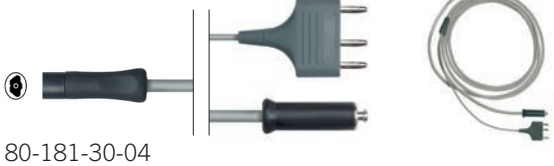
- distal ceramic nozzle
- autoclavable at 134°C / 273°F (only reusable probes)
- reduced gas consumption (50% less than previous models)

¼

80-181-31-04

MABS rinsing adapter for reusable argon probes, 5 item(s)/Pack

¼



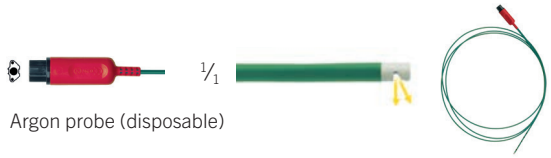
80-181-30-04

MABS connecting cable for flexible probes (disposable and reusable), cable length 2.5 m, for HF current and argon gas, HF-current and gas-flow activation via foot switch, autoclavable at 134°C / 273°F (only reusable probes)

¼ ¹/₁

Argon probe (reusable)

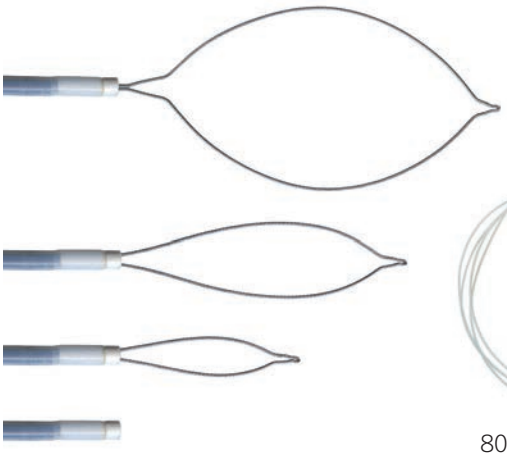
¼ ¹/₁



Argon probe (disposable)

MABS probes

Item No.	Designation		Diameter	Length	Item(s)/Pack
80-181-23-04	MABS GIT probe,	reusable	2.3 mm	2.3 m	1
80-181-24-04	MABS GIT probe,	reusable	3.2 mm	2.3 m	1
80-181-25-04	MABS TBS probe,	disposable	1.8 mm	1.6 m	10
80-181-26-04	MABS GIT probe,	disposable	1.8 mm	3.2 m	10
80-181-27-04	MABS GIT probe,	disposable	2.3 mm	2.3 m	10
80-181-28-04	MABS GIT probe,	disposable	3.2 mm	2.3 m	10
80-181-29-04	MABS GIT probe,	disposable	2.3 mm	3.4 m	10
80-181-32-04	MABS GIT probe, Side Fire,	disposable	2.3 mm	2.3 m	10



¹/₁

80-181-41-04

MABS Snare probe (multifilament, disposable)

¼

80-289-40-04

4 m/12 ft.

Monopolar connecting cable for KLS Martin HF units

¼

80-289-41-04

4 m/12 ft.

Monopolar connecting cable for HF units with 3-pin connectors

¼

80-289-42-04

4 m/12 ft.

Monopolar connecting cable for maxium® “e” version and Erbe ICC/ACC/VIO units

MABS snare probes

Item No.	Designation		Diameter	Length	Items/Pack
80-181-41-04	MABS GIT snare	15 mm, multifil., disposable	2.5 mm	2.3 m	5
80-181-42-04	MABS GIT snare	30 mm, multifil., disposable	2.5 mm	2.3 m	5
80-181-43-04	MABS GIT snare	15 mm, monofil., disposable	2.5 mm	2.3 m	5
80-181-44-04	MABS GIT snare	30 mm, monofil., disposable	2.5 mm	2.3 m	5

monofil

multifil

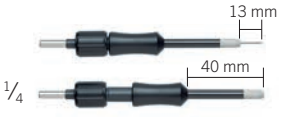
Rigid and flexible MABS probes for open and endoscopic applications

Rigid MABS electrodes have the following features in common:

- insulated, rigid shaft with a diameter of 5 mm
- distal ceramic nozzle
- autoclavable at 134°C (273°F)

80-181-02-04

MABS handle for rigid applicators
Two pushbuttons for coagulation and cutting
Connecting cable, 4.5 m/15 ft., for HF current and argon gas
Autoclavable at 134°C (273°F)



80-181-07-04

MABS needle electrode, axially adjustable

80-181-08-04

MABS needle electrode, axially adjustable

80-181-05-04

Fixing cap, suitable for all rigid electrodes

80-181-10-04

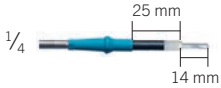
MABS beam electrode for open surgery,
with high-temperature-proof ignition tip

80-181-11-04

MABS beam electrode for open surgery,
with high-temperature-proof ignition tip

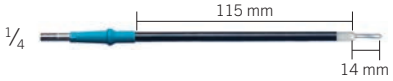
80-181-12-04

MABS beam electrode for laparoscopy and pelviscopy, with high-temperature-proof ignition tip and fixing cap



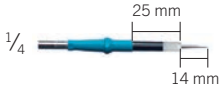
80-181-13-04

MABS lancet electrode for open surgery



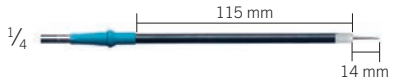
80-181-14-04

MABS lancet electrode for open surgery



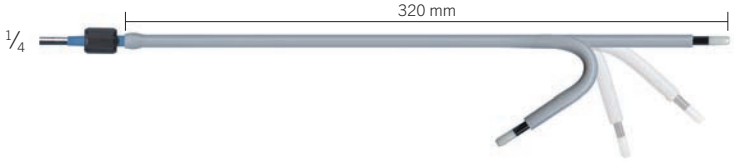
80-181-15-04

MABS needle electrode for open surgery



80-181-16-04

MABS needle electrode for open surgery



80-181-60-04

MABS beam electrode, 320 mm, flexible

80-181-62-04

MABS beam electrode, 115 mm, flexible

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