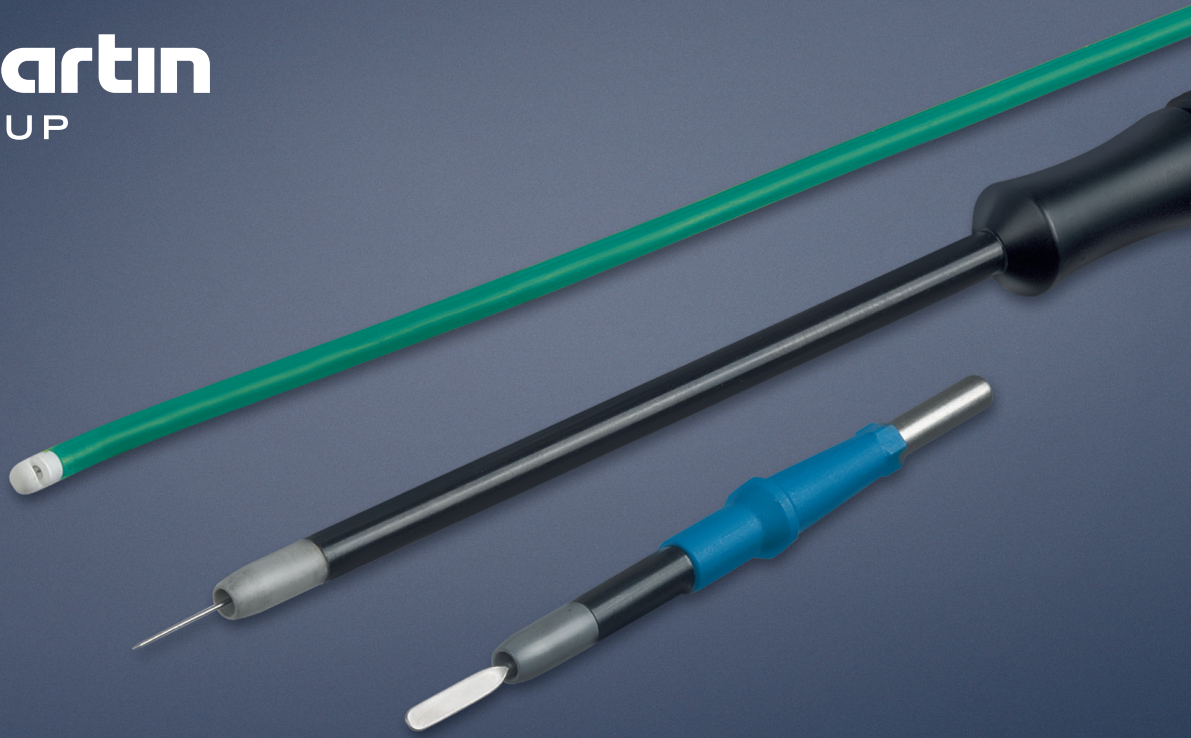




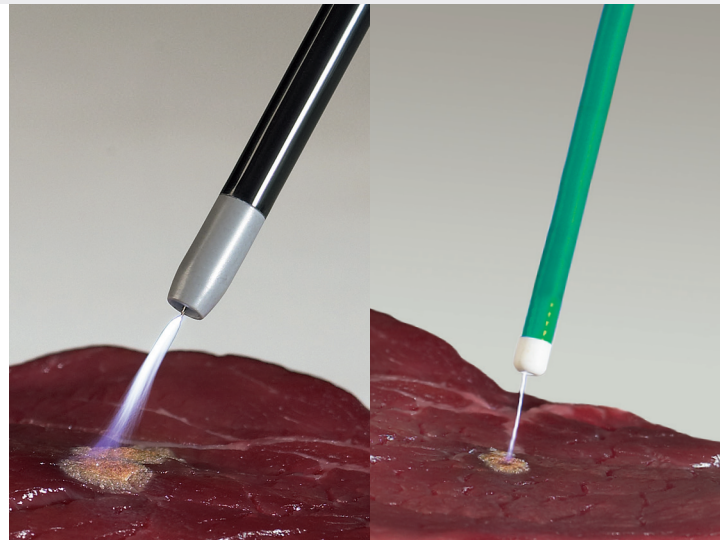
Rigid and flexible probes
for open and endoscopic argon surgery

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:

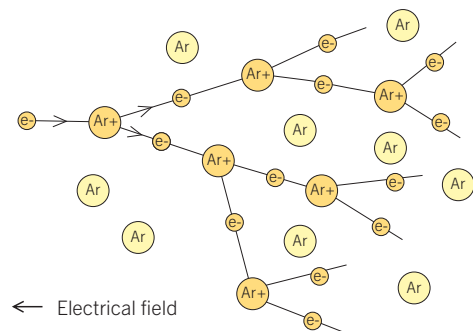
- open surgery
- laparoscopic surgery
- pneumology
- gastroenterology

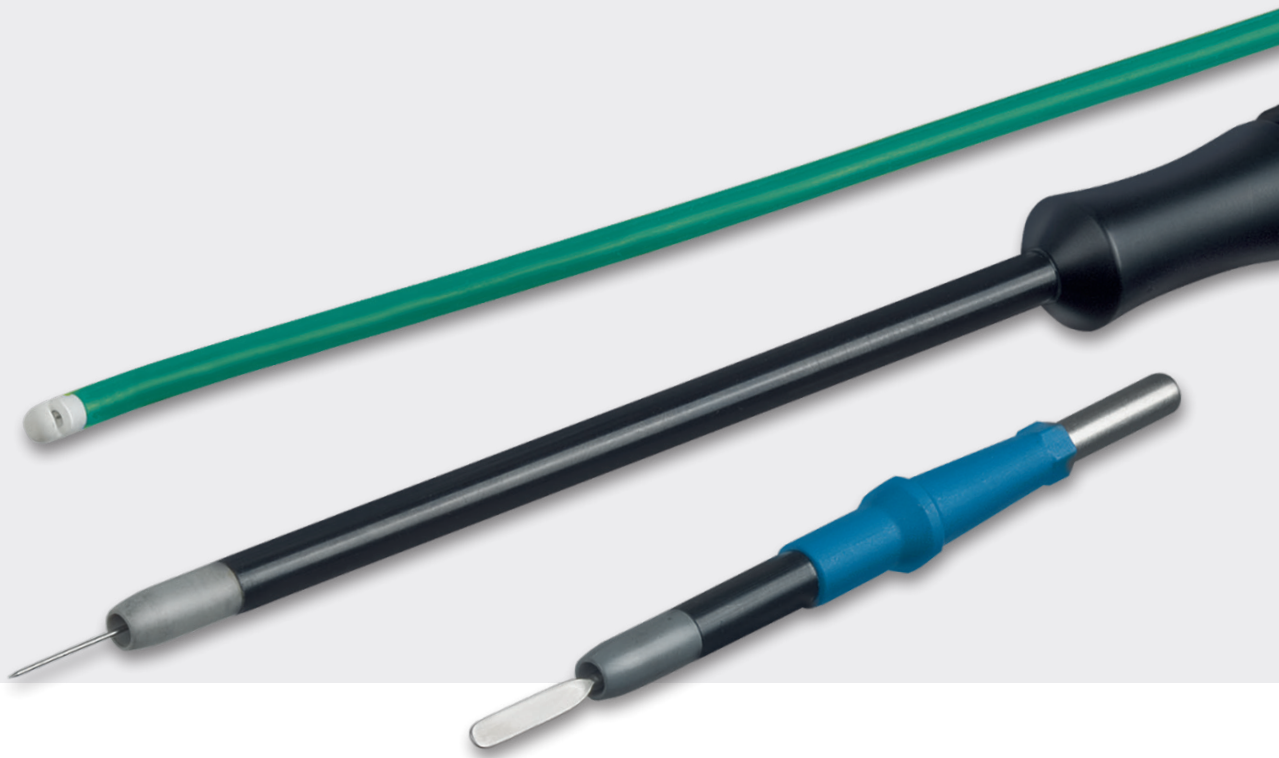


Working principle

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.

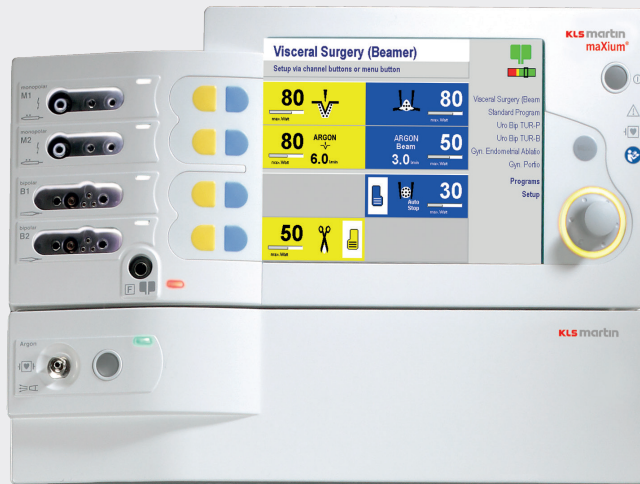




Advantages of argon surgery:

- Reliable coagulation with minimal traumatization of the tissue or organ
- Low blood loss
- Minimal vaporization at a very low penetration depth (0.5 to max. 3 mm), therefore significantly reduced perforation risk
- Less carbonization, therefore faster wound healing
- Reduced smoke development, improved view of the surgical site
- Non-contact method – no tissue sticking to electrode

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

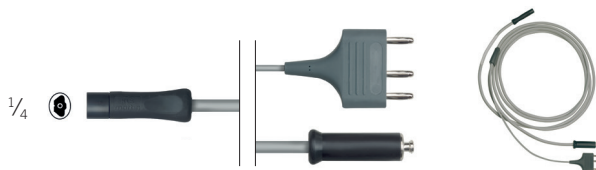
Flexible MABS probes for gastroentorological and endobronchial applications

Flexible MABS electrodes have the following features in common:

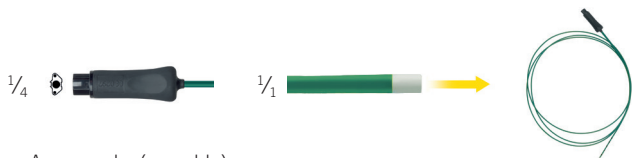
- distal ceramic nozzle
- autoclavable at 134°C / 273°F (only reusable probes)
- reduced gas consumption (50% less than previous models)



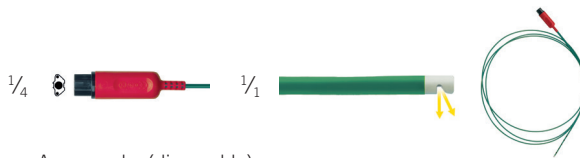
80-181-31-04
MABS rinsing adapter for reusable argon probes,
5 item(s)/Pack



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)



Argon probe (reusable)



Argon probe (disposable)

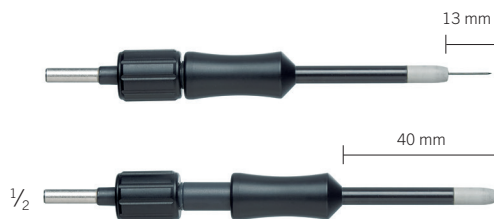
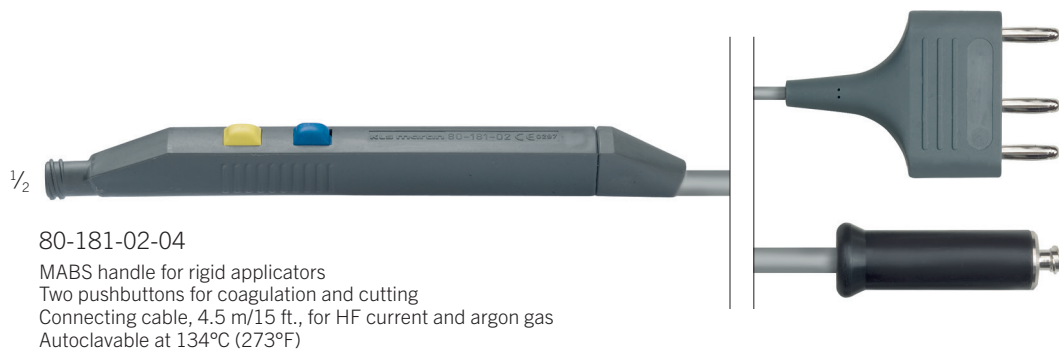
MABS probes

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

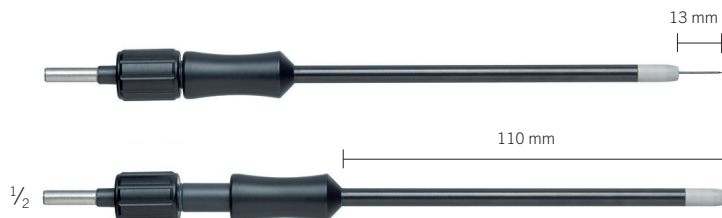
Rigid and flexible MABS probes for open and endoscopic applications

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)



80-181-07-04
MABS needle electrode, axially adjustable



80-181-08-04
MABS needle electrode, axially adjustable



80-181-05-04
Fixing cap and O-ring, 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



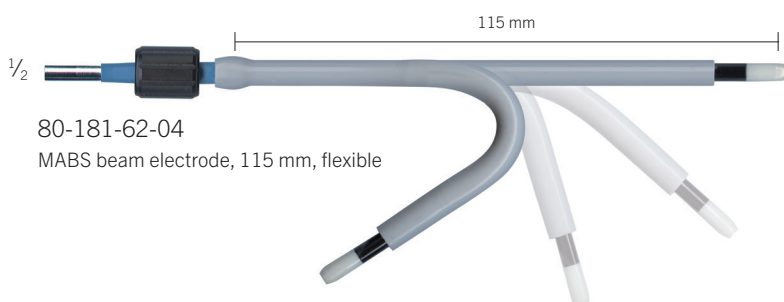
80-181-15-04
MABS needle electrode for open surgery



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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