

ARC 100

ELECTROSURGICAL DEVICE

THE COMPACT SOLUTION FOR YOUR PRACTICE  
AND OPERATIONS



**BOWA**

**ARC**  
**100**



## Passionate about your practice and operations

The best is not good enough. Because beyond it lie new discoveries and new solutions.

With the ARC 100, the compact solution for your practice and operations, you can benefit from the experience and expertise of BOWA ARC






electrosurgical hospital systems, reduced to meet the requirements of outpatient applications.

As a compact member of the ARC family, the ARC 100 links practicability and performance with intuitive operation.

# Monopolar and bipolar electrosurgery in one compact solution

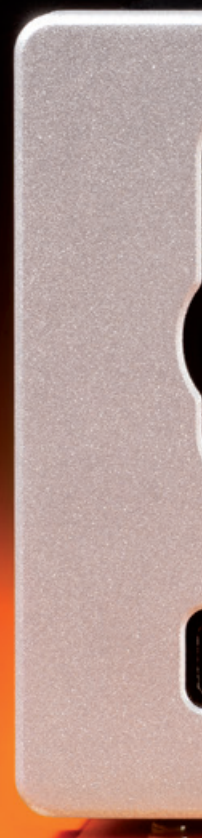
The ARC 100, with one bipolar and one monopolar instrument connection, is the compact solution that is best equipped for all the requirements of both outpatient operations and small operations. With 100 watt output power in all modes, it is ideal for a wide range of uses.

## **Ideal areas of use for the ARC 100 in HF surgery:**

-  General, visceral, thoracic and pediatric surgery
-  Gynecology
-  ENT
-  Plastic and esthetic surgery
-  Maxillofacial surgery

## Simply safe

Modern safety functions – such as EASY neutral electrode monitoring – guarantee 100 % safety in use.





## Compact yet versatile

The ARC 100 with its 100 watts of power output has five tissue effects: two monopolar cutting functions, two monopolar coagulation functions and one bipolar coagulation function.

All modes can be activated using the foot switch. For monopolar cutting and coagulation, activation is also available through the handle.

The ARC 100 provides 5 tissue effects:

#### Cutting current types



- Pure CUT – for pure cuts without hemostatis



- Dry CUT – cuts with a strong hemostatic effect ("blend")

#### Coagulation current types



- Moderate coagulation – Soft desiccation of the tissue



- Forced coagulation – Fulguration of the tissue

#### Bipolar COAG

- Bipolar coagulation using bipolar instruments, e.g. forceps

## Always intuitive

Keep your eye on everything with the ARC 100. All of the tissue effects and power settings are selected intuitively at the touch of a button. The selected

mode and the selected power are shown at all times using illuminated indicators.





## 2-in-1: Two instruments in one socket

The multi-functional socket for the simultaneous connection of one bipolar and one monopolar instrument gives the user of the ARC 100 two advantages: the compact attachment provides maximum functionality at a minimal size, and makes the ARC 100 one of the most economical

electro-surgical systems in the 100-watt class, because one cable is available, which unites both standards, to connect combinations of instruments such as a handle with an electrode and a bipolar forceps.

### Precise monopolar cutting and effective coagulation

The 100 W power output and the tissue effect can be finely adjusted for all modes in 10 steps using the up and down buttons.

For monopolar cutting, the modes **smooth cutting (Pure CUT)** and **dry cutting (Dry CUT)** are available. Using Dry CUT, deeper coagulation effects are achieved in cutting thanks to a larger arc.

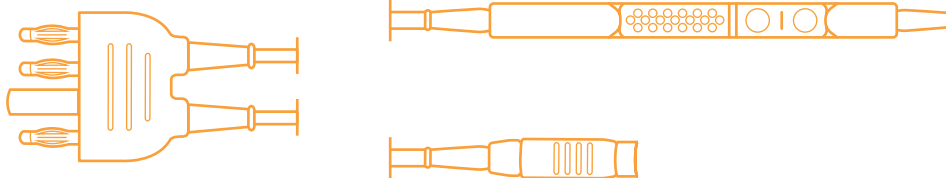
For monopolar coagulation, the modes **Moderate** and **Forced** are available. Moderate provides lower carbonization and coagulation with an increased penetration depth. The choice of Forced Coag is ideal for rapid and effective hemostasis with a simultaneous reduced penetration depth in the tissue.

Of course, numerous standard commercial monopolar and bipolar instrument cables can be connected to the socket of the ARC 100.

All monopolar modes can be activated using the foot switch and using the finger switch on the handle.

### Perfect bipolar coagulation

Bipolar COAG allows precise coagulation of tissue using a bipolar instrument, e.g. bipolar forceps. No neutral electrode is required for using bipolar coagulation. It is activated by means of the foot switch of the ARC 100.



Keep your eye on everything – dual function: ARC 100 with cable for mono- and bipolar applications as well as connection of unsplit neutral electrode

Use without switching: The electrode handle and forceps can both be activated using the foot switch. The push-buttons additionally let you activate the electrode directly from the handle

# ARC 100 – SIMPLE TO OPERATE

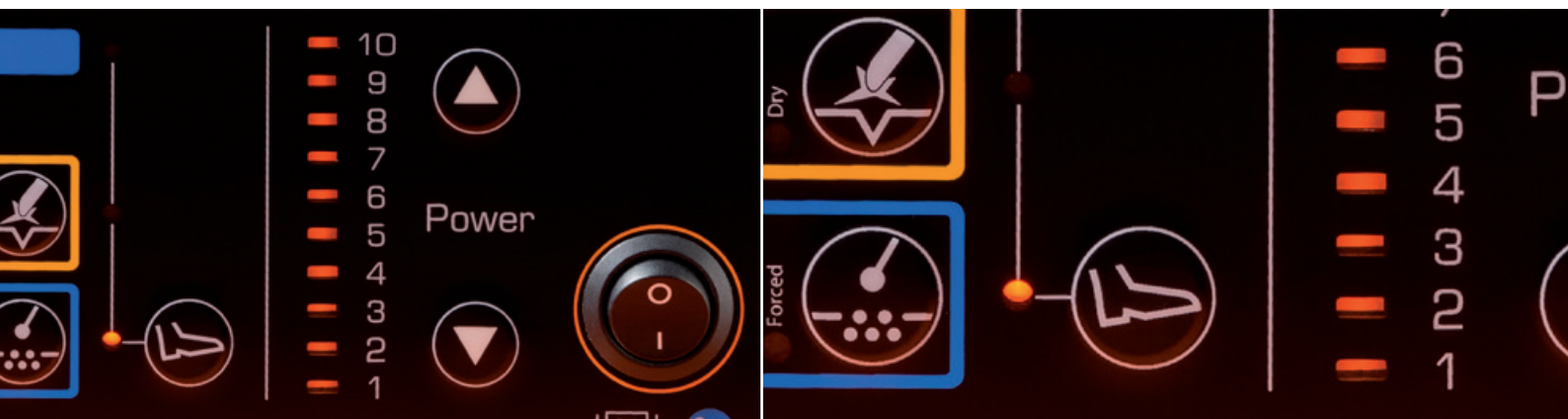
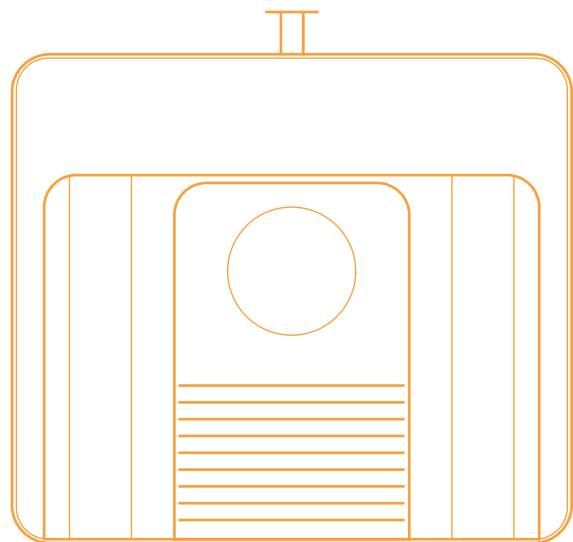
## Power setting

The ARC 100 provides a maximum power output of 100 W in all modes. It thus has a range of power to meet every requirement in the outpatient area.

The power output can be adjusted quickly and easily in 10-watt steps using a fingertip. The display is always visible and, thanks to the bar display, assists in the rapid detection of the selected output power.

## Foot-switch assignment

At the touch of a button, all of the functions of the ARC 100 can be assigned to the foot switch. The mode currently activated is always in sight thanks to the illuminated displays. The special foot switch for the ARC 100 has a side stop to the left and right of the pedal, thus allowing ergonomic working and sightless orientation with the foot.



Up and down: 100W available in 10 steps

At the touch of a button: all modes can be activated by the foot switch



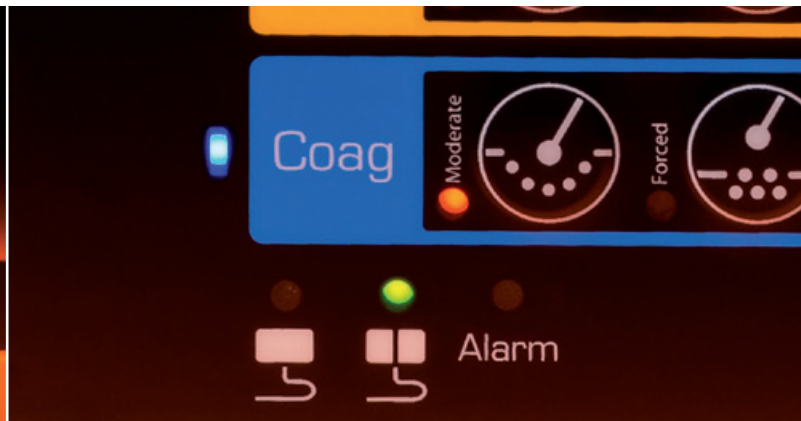
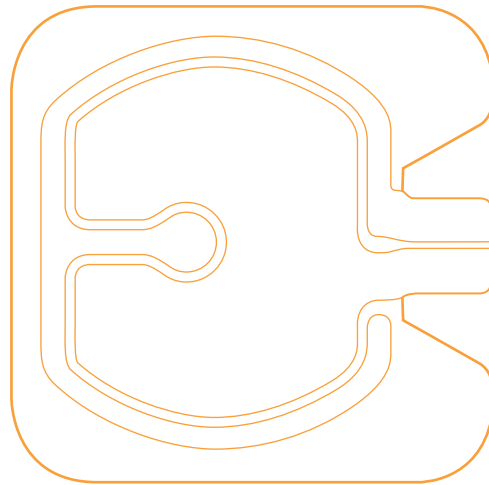
**Compact, hygienic design**

The compact multi-functional socket means a compact and space-saving structure for the ARC 100. The housing and user front have a wipe-clean surface and can be treated using standard commercial surface disinfectants.

**EASY neutral electrode monitoring**

Thanks to the EASY function, the ARC 100 recognizes by contact whether a split or unsplit electrode is connected. Split electrodes allow monitoring the contact quality of the neutral electrode on the patient. The monitoring system provides an immediate acoustic and visual warning if there is insufficient skin contact with the connected electrode, thus preventing unintentional burning.

BOWA essentially recommends the use of split disposable neutral electrodes to prevent injury to patients through burns and for reasons of hygiene.



Clear shape: Compact and hygienic design

EASY: Permanent monitoring of the neutral electrode contact with the patient

# ARC 100 – GET GOING WITH THE EXTENSIVE COMPLETE PACKAGE

Electrode container complete with tray, lid and 12 standard electrodes, shaft 2.4 mm in diameter

ARC 100 electro-surgical device



JackKNIFE, 2 buttons, shaft 2.4 mm, to 3-pin, cable 4.5 m

Single neutral electrode cable, international (NON-REM), 4.5 m



Bipolar forceps, straight,  
195 mm, 8 mm x 1 mm


Bipolar forceps cable, 4.5 m



Single-pedal foot switch for ARC 100,  
cable 4 m





Neutral electrode, 70 cm<sup>2</sup>, split, EASY (100 pieces)









	ARC 100 electrocautery device	900-100
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	<b>Accessory pack</b>	<b>901-126</b>
	Electrode container, complete with tray, lid and 12 standard electrodes, shaft 2.4 mm diameter	530-000
	JackKNIFE, 2 buttons, shaft 2.4 mm, to 3-pin, cable 4.5 m	220-045
	Neutral electrode, 70 cm <sup>2</sup> , split, EASY (100 pieces)	816-072
	Single neutral electrode cable, international (NON-REM), 4.5 m	386-050
	Bipolar forceps, straight, 195 mm, 8 mm x 1 mm	605-040
	Bipolar forceps cable, 4.5 m	287-040
	Single-pedal foot switch for ARC 100, cable 4 m	901-012

## ARC 100 – OPTIONAL ACCESSORIES

	ARC 100 JackKNIFE, 2 buttons, shaft 2.4 mm, cable for bipolar forceps, 4 m	220-345
	Cable, rubber international neutral electrode, 4.5 m	385-050
	Rubber neutral electrode, 150 x 80 mm, international	232-003
	Rubber band with button fastener, 750 mm, latex free	194-075

Standard forceps		
	Bipolar forceps, bayonet, 195 mm, 6 mm x 1 mm	605-002
	Bipolar forceps, straight, 195 mm, 8 mm x 1 mm	605-040
	Bipolar forceps, straight, 110 mm, 6 mm x 0.5 mm	605-020

Electrodes		
	Blade electrode, straight, shaft 2.4 mm (5 pieces)	530-207
	Needle electrode, straight, shaft 2.4 mm (5 pieces)	530-211
	Micro wolfram needle electrode, straight, shaft 2.4 mm	530-012

Electrodes with insulated shaft		
	Loop electrode, 20 x 20 mm, 142 mm, isolated shaft 2.4 mm	530-132

Further accessory parts can be found in the BOWA accessory catalog and at [www.bowa-medical.com](http://www.bowa-medical.com)

## Technical information on the ARC 100

Voltage range/mains frequency	100–260 V/50–60 Hz
Output frequency	500 kHz
Mains power/mains fuse	1.6–0.7 A/T 3.15 A
Power consumption on standby/max.	30/160 VA
Width x height x depth	280 x 114 x 310 mm
Weight	5.6 kg
Classification under EC Directive 93/42/EEC	II b
Protection class under EN 60601-1/Type	I/CF
Identifying mark	CE0123
Monopolar CUT	100 W
Monopolar COAG	100 W
Bipolar COAG	100 W
Power setting	10 levels
Connections	2 instruments (1 x monopolar, 1 x bipolar)
Neutral electrode monitoring	EASY automatic recognition and monitoring of split and unsplit neutral electrodes
Volume control	Smooth using rotary knob
Foot switch	Single-pedal foot switch for all modes
Cutting current types	Pure CUT – for pure cutting without hemostatis Dry CUT – Cutting with strong hemostatis
Coagulation current types	Moderate coagulation – Soft dessication of the tissue Forced coagulation – Fulguration of the tissue
Bipolar COAG	Bipolar coagulation using bipolar instruments, e.g. forceps
ARC 100	900-100
Accessory set (excluding ARC 100)	901-126



**BOWA**  
EINFACH SICHER

BOWA-electronic GmbH & Co. KG  
Heinrich-Hertz-Strasse 4 – 10  
72810 Gomaringen | Germany

Phone +49 (0) 7072-6002-0  
Fax +49 (0) 7072-6002-33  
info@bowa.de | bowa-medical.com

