ARC 400
ELECTROSURGICAL DEVICE
PERFORMANCE AT YOUR FINGERTIPS

Heart and soul for the OR
The best is never good enough, for beyond it lie new discoveries and new solutions. It is our shared passion for a field in which we both excel, each in our own way. This same passion gives each of us the ability to achieve outstanding accomplishments.

Discover the new generation of electrosurgery devices with the ARC 400. Discover true passion and the highest level of performance for the OR.
Every field has specific requirements, every team works differently, every procedure is unique. This is why the ARC 400's interactive touchpad allows you to freely configure the user interface according to your requirements. Select the pre-configured indication-oriented standard values or create your own, individual preferred settings for your field and work style.

Real performance is achieved by setting intuitively. The interaction touchscreen fingertip operation and clear relationship between controller and instrument give you a full overview – in every situation.

Rapid communication with other system components or software updates take place easily via USB and several standard connections, so that you can continue to work efficiently in the future.

Ideal application areas for the ARC 400 in HF surgery:
- General, visceral, thoracic, vascular surgery
- Gynecology
- Urology
- Plastic and aesthetic surgery
- Orthopedic and trauma surgery
- Oral and maxillofacial surgery
- Neurosurgery
- Cardiac surgery

BOWA ARC 400 – the new generation of electrosurgical device for monopolar and bipolar electrosurgery with sealing technology. It supports every surgical team thanks to its indication-related setup options for specific surgical fields.

Personalised configuration

Intuitive handling

Efficient operation

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Intuitive handling – Smart touchpad technology

Touchpad technology allows increased intuition in the OR.

With the ARC 400, you have fingertip control of all device functions via the interactive touchpad, using clearly designed symbols. Effects, favorites and individualized settings can be easily and clearly selected. Menu depth is generally limited to only two levels, because you want to be working, not searching.

A reasoned user interface

The large, high-definition display is divided into four quadrants that correspond to the four sockets on the sides: If you attach an instrument to the upper right bipolar socket, for example, the upper right quadrant of the display is activated and you immediately know where you need to make your settings.

What You See Is What You Get

The icons behave according to the WYSIWYG (What you See Is What you Get) principle. These clear graphic symbols have a preview mode. If you adjust the desired effect to your individual requirements, the preview changes.

Always work with the correct socket

The touchpad provides outstanding operating comfort with its underlying functions and the display’s innovative user logic. When adjustments are made to the display, the corresponding instrument socket flashes, offering just the right support in the darkened environment of the OR.

More than an interface: Videos on the display

To brief and train new employees, simply use the touchpad display. Insert the USB drive with the introductory video, and a presenter begins demonstrating the functions of the ARC 400.

Smart – and hygienic – display

The ARC 400 display is made of flat, wipe-resistant, shatter- and scratch-proof safety glass. Only the mechanical mains switch protrudes from the front panel. The advantage: The touchpad technology eliminates seams and uneven surfaces. This ensures rapid and hygienic cleaning in the OR.

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Plug’n Cut: ARC 400 automatically recognizes when a standard instrument is connected With a tap of the finger: Rapidly create and call up favorites Everything in the green? Neutral electrode monitoring, shown here in the setting for babies (50 watts max.), gives you continuous status information.

Plug’n Cut COMFORT: The ARC 400 autopilot recognizes the specific instrument and selects the corresponding setup parameters. Everything at a glance: Display of the expected effects Efficient: The lower right bipolar connection socket can be extended to connect two standard plugs – this makes three bipolar connections available.

Plug’n Cut makes your work in the OR immediately more convenient. As soon as you connect an instrument to a standard socket, the assigned menu opens on the touchpad with the relevant input fields. Immediately select your required values and functions and begin the procedure.

Choose your favorites Nothing can replace experience – especially in surgery. This is why, in addition to its many indication-related pre-settings, the ARC 400 offers the possibility of optimizing standard values according to your own personal experience. Up to eight personal/favorite settings can be stored and called up with a tap of your finger in the favorites menu. If you want your favorites to travel with you everywhere, we recommend our Dr. Dongle storage drive which can be easily inserted into any ARC 400 unit. Alternatively, up to 400 device settings can be loaded and stored.

Plug’n Cut COMFORT: Plug’n Cut COMFORT offers even more. Thanks to the latest RFID technology, the ARC 400 and BOWA COMFORT instruments communicate with one another. The latest generation of electrosurgical devices identifies the instrument that was just plugged in, and immediately selects the corresponding parameters. This way, Plug’n Cut COMFORT offers not just the highest level of user convenience, but also maximum application security – logical or inefficient setting options are avoided from the start. Dangerous or contradictory settings are not possible.

Directly to your specific application To help the OR team operating without losing time, the ARC 400 offers a wide range of electrosurgical standard or indication-oriented power formats. Select a power profile with a tap of your finger, and refine it if necessary using the effect settings.

Freedom of choice Effects and foot switches can be freely assigned, no symbols are shown for unused sockets.

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Sparing resources – LIGATION with the ARC 400

Rely on an established technique for the permanent sealing of vessels and tissue: LIGATION. Besides the advantage of not introducing foreign bodies into the patient, this method saves OR time, suturing material and clips. Autoclavable BOWA LIGATION instruments are the first choice for use with the ARC 400.

Costs and benefits – Close the gap

ARC 400: The specialist for vessel sealing

With ARC 400 and BOWA LIGATION instruments such as TissueSeal®PLUS for open surgical applications and NightKNIFE® also for laparoscopic use, large-bore veins, arteries and tissue bundles of up to 7 mm diameter can be sealed securely and permanently, economically and without residue. Seal security up to a pressure of 700 mmHg has been proven in studies.

Optimal results based on outstanding ergonomics and tactility are a plus for the surgical artist. And the huge potential for saving OR time, suturing material and clips, as well as instrument reusability, convince the strictest cost controller.

Two hundred times instead of once

BOWA LIGATION instruments can be reused up to two hundred times. As shown in the graph, even after just 50 uses there is an enormous cost advantage over disposable instruments.

Cost advantage of the Bowa NightKNIFE® compared to disposable instruments for 50 procedures

<table>
<thead>
<tr>
<th>Disposable instruments</th>
<th>BOWA NightKNIFE®</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.000 €</td>
<td>14.000 €</td>
</tr>
<tr>
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<td>4.000 €</td>
</tr>
<tr>
<td>4.000 €</td>
<td>2.000 €</td>
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</tbody>
</table>

Literature:
Schuld J, Richter S, Laschke MW, Spörkel J, Menger MD, Schilling MK, Surgical Association for OR and Instrument Technology of the German Association for General and Visceral Surgery: evaluation study: BOWA TissueSeal® vs. valleylab Ligasure™. BOWA, Gomaringen 2008
Special applications – Four examples

1. **Bipolar resection for urology**
   Bipolar resection with the ARC 400 stands out for its extremely reliable initial cuts and a high resection speed.

   Reduced irritation of the obturator nerve and bipolar technology hugely increase operating safety in this field. Using saline solution as a medium prevents the danger of TUR syndrome.

   In addition, monopolar transurethral resection of the prostate (TUR-P), surgical treatment of bladder tumors (TURBT) and vaporization of prostate tissue (TURVAP) can also be carried out with the ARC 400.

2. **Triple specialty: Functions for cardiac surgery**
   For use in the field of cardiac surgery, three highly specialized functions for effective work are available:
   - SimCOAG for simultaneous coagulation and preparation with two monopolar handles.
   - Cardiac mammary for forced coagulation near the mammary’s.
   - Cardiac Thorax for forced coagulation when opening the thorax.
   - Dry cutting for strong hemostasis.

3. **For gynecology: faster removal**
   In addition to the modes for vessel sealing and monopolar and bipolar resection, a special function is available in gynecology for laparoscopic supracervical removal of the uterus (LSH).

   This mode offers more rapid cutting of the loop for uterus removal. Work can be accomplished safely, rapidly and precisely, even with large loops.

4. **GastroCut for gastroenterology**
   With the ARC 400 GastroCut modes, the gastroenterologist achieves the best results for polypectomy and papillotomy and endoscopic resections with loops or knife electrodes.

   The gastroenterologist can adjust the haemostasis level of cutting and coagulation power to three speeds, slow, medium and fast, as required.

   The cut is optimized, the surgeon controls the cut's coagulation effect through the effect in nine steps. This allows cautious work to avoid complications, as well as rapid intervention when the situation allows it.

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**GastroCut power type**

- Voltage: 200 Vp
- Time:...
- Cut, Break, Coagulation phase

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**Innovation: bipolar resection in urology with very high resection speed**

**Support task distribution in cardiac surgery: selectable simultaneous activation**

**Special gynecology effect: extremely safe and rapid uterus removal with the MetaLoop function**

**GastroCut: highly flexible with loops or knife electrodes**


**ARC CART – More mobility**

One unit – Many options
In the OR, ARC 400 and the ARC CART form a high-performance unit that can be easily placed just where it needs to be.

In the ARC CART, everything is in the right place and can be individually configured. The basic ARC CART configuration offers four swiveling rollers with brakes, cable box, power cable detachment prevention device, handle, foot switch holder and a cable holder. The storage shelf of the cart is adapted for the ARC generator.

Also available are shelves for e.g. SHE SHA smoke evacuation systems, drawers, gas bottle holders, equipotential bonding connectors or baskets. Mobility is thus greatly increased.

The foot switches are waterproof (IPX8) and explosion-proofed. Pedals are ergonomically arranged to allow for fatigue-free operation over long periods.

**Accessories made by BOWA – Simply safe**

“Simply safe” is more than just a promise. For us it is the commitment to always think past the current standards. This approach leads us to solutions that open up new perspectives and support you optimally in your work. As a specialized HF surgery company, we offer you complete systems as well as complementary individual products.

For a comprehensive overview of our range, visit us at www.bowa.de.

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**Monopolar accessories**
- Open application
- Electrode handles
- Connecting cables
- Electrodes
- Electrode containers
- Electrode extensions
- Adapters
- Arthroscopy electrodes
- Forceps
- Minimally invasive application
- EngalAP
- Electrodes for laparoscopy
- Neutralelektroden

**Bipolar accessories**
- Open application
- Forceps
- Connecting cables
- Bipolar scissors
- Minimally invasive application
- EngalAP BIPOLAR
- Adapters

**Vessel sealing**
- NeutraRRH
- LIGATOR®
- TissueSeal® PLUS
- TissueSeal®

**Argon accessories**
- Open application
- Flexible application
- Electrodes for single use
- Reusable rubber return plates

**Neutralelektroden**
- Accessory set
- ARC Optix
- Power cable and equipotential bonding lines
- Testing device
- Foot switch
- Communication interface
- Pressure reducer
- Trolley ARC CART
- SHE SHA Smoke evacuation system

---

**Optimal accessories and connectors**
- Flexible, heavy-suitable pedals
- Specific therapy unit design

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**Trolley ARC CART**
- Simply safe
- Anatomically arranged
- Top quality
- Precisely articulated
- Well-looked after

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BOWA ARC 400 is designed for use in nearly every field of electrosurgery. The ARC generators can be located on ceiling supply units or, for unlimited mobility, on the ARC CART. The device includes two monopolar and two three bipolar outputs. Simple maintenance can be performed by hospital technicians, e.g. reading the device information or running software updates that we supply on a USB drive. If you want to connect third-party devices, this is possible using special socket variants.

**Made in Germany – ARC 400 technical information**

<table>
<thead>
<tr>
<th>Overview of technical data</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Maximum cutting power</td>
<td>400 watts</td>
</tr>
<tr>
<td>Maximum coag power</td>
<td>350 watts</td>
</tr>
<tr>
<td>Frequency</td>
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<tr>
<td>Mains voltage</td>
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<tr>
<td>Mains frequency</td>
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<tr>
<td>Mains power max.</td>
<td>8 A / 4 A</td>
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<tr>
<td>Mains fuse</td>
<td>T 8 A / T 4 A</td>
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<tr>
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<tr>
<td>Power consumption at max.</td>
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<tr>
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<td>Monopolar sockets</td>
<td>2 x international (configurable)</td>
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<tr>
<td>Bipolar sockets</td>
<td>2 x international, 2 x Erbe</td>
</tr>
<tr>
<td>Simultaneous activation</td>
<td>2 monopolar sockets</td>
</tr>
<tr>
<td>GastroCut 6 cut types with 9 effects</td>
<td></td>
</tr>
<tr>
<td>Micro-adjustments</td>
<td>Included</td>
</tr>
<tr>
<td>AUTOSTART</td>
<td>Yes</td>
</tr>
<tr>
<td>Instrument recognition</td>
<td>Plug’n Cut &amp; Plug’n Cut COMFORT</td>
</tr>
<tr>
<td>Free foot switch assignment and socket switching</td>
<td>Yes</td>
</tr>
<tr>
<td>Item number</td>
<td>ARC 400 900-400</td>
</tr>
<tr>
<td>Option Bipolar resection</td>
<td>900-395</td>
</tr>
<tr>
<td>Option LIGATION</td>
<td>900-396</td>
</tr>
</tbody>
</table>

**Accessories – More than the sum of the parts**

ARC 400 is the new generation of electrosurgical devices. It offers the highest performance for all standard instrument families. Together with BOWA accessories, ARC 400 forms a system with outstanding features, medical as well as economical.

**Update service – Simple with USB**

Take advantage of the latest developments of the future. ARC 400 is ready. With our update service, you can update the ARC 400 software very simply with a USB drive. The many standard connectors guarantee future-proofing and an automated connection to your system environment – even in tomorrow’s world.