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. And it is this same passion that gives each of us the ability to achieve outstanding accomplishments. Discover the new generation of electrosurgical units with the ARC 400. Discover real passion and maximum performance in your OR.
Our passion. Your performance.

Ideal applications for the ARC 400 in HF surgery:

- General, visceral, thoracic and paediatric surgery
- Gynaecology
- Gastroenterology
- Urology
- ENT
- Plastic and aesthetic surgery
- Orthopaedics 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 set-up options for specific surgical fields.

Personalised configuration

Every field has specific requirements, every team works differently and every procedure is individual. This means 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.

Intuitive handling

Attain real performance by working intuitively. The interactive fingertip operation of the touchscreen and clear relationship between the controller and instrument give users a complete overview – in every situation. The Plug’n Cut function recognizes instruments and Plug’n Cut COMFORT also automatically preselects the right basic settings for whichever COMFORT instruments are connected.

Efficient operation

Its ease of use and safe operation, its special LIGATION function and the ability to connect up to 5 instruments to the ARC 400 simultaneously save valuable OR time.

The ARC 400 communicates rapidly with other system components and software is updated simply via a USB and several standard connections, ensuring that you can also work efficiently in the future.

Figure: Scale 1:1

ARC 400 has been awarded:
100% intuition

Operation of the ARC 400 is intuitive and fast with the touchpad. Each instrument socket is related to the display quadrant directly adjacent. Activated parameters are framed in green and the socket for the corresponding instrument begins to flash, thereby providing security and ease of use.

Intuitive handling
Smart touchpad technology

Toucphad technology allows enhanced intuition in the OR.
With the ARC 400 you have fingertip control of all operating functions via the interactive touchpad, using clearly designed symbols. Effects, functions, and individualised 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 logically-constructed user interface

The large, high-definition display is divided into four quadrants that correspond to the four sockets on the device. 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 adjustments.

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 touch pad provides outstanding operating convenience 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 in the OR.

More than an interface: videos on the display

 Simply use the touchpad display to brief and train new employees. 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. The benefit of this is that the touchpad technology eliminates joints and grooves, thereby ensuring fast, hygienic cleaning in the OR.

Clarity: Every connected socket – in this photo the upper left and lower right – is clearly assigned to one quadrant of the display.

Help: The introductory film can be played directly on the device.

Dr. Dongle® – Your perfect settings in every OR

Would you like to work with your own personal device settings on every ARC 400, in every OR, in every clinic? It’s easy with Dr. Dongle. You can have your individual device settings available in your pocket at all times. Simply store your perfect settings and use them with every ARC 400.

Dr. Dongle® was awarded:
The COMFORT SYSTEM – process reliability, quality assurance and monitoring

Our COMFORT SYSTEM relies on smart RFID technology – and thus on the new standard for electromechanical circuits. The COMFORT BOX is the interface for all electrosurgical accessories. The COMFORT SYSTEM is the new standard for process optimisation in the OR – across all electromechanical applications. Every ARC 400 is equipped with the COMFORT SYSTEM and thus with the standard of the future: the advantages of intelligent COMFORT instruments and secure for your decision benefits for your workflow in the OR.

Lean processes – more time for what's important

The COMFORT SYSTEM documents the use in the instrument itself. The ARC 400 or the COMFORT BOX reads the information and you can see at a glance how many procedures the instrument has already performed. This helps you to optimise your process, thereby preventing the number of uses being exceeded. By displaying ordering information, the system simplifies the repeat ordering process. The ARC 400 or the COMFORT BOX reads the information and you can see at a glance how many times it may still be used and selects the Plug’n Cut COMFORT: The COMFORT SYSTEM automatically recognises the instrument, checks it and selects the correct device settings. The Plug’n Cut functionality of the COMFORT SYSTEM enables the generator to automatically identify the instrument, checks it and selects the correct device settings. The Plug’n Cut functionality of the COMFORT SYSTEM thereby avoids incorrect settings.

Maximum safety and instantaneous reduction of OR time

The Plug’n Cut functionality of the COMFORT SYSTEM enables the generator to automatically identify the instrument, checks it and selects the correct device settings. The Plug’n Cut functionality of the COMFORT SYSTEM thereby avoids incorrect settings.

Personalised configuration – Your experience is the best standard

Choose your favourites

Nothing can replace experience – especially in surgery. This is why, in addition to its technical capabilities, the ARC 400 offers the possibility of optimising standard values according to your personal preference. You can store up unlimited personal favourite settings and call them up with a tap of your finger in the favourites menu. If you want your favourites to travel with you everywhere, we recommend our Dr. Dongle storage drive, which can be easily inserted into any ARC 400 unit. Alternatively, you can store up to 400 device settings.

Freedom of choice

Effects and foot switches can be freely assigned; no symbols are shown for unused sockets.

Directly to your specific application

To help the OR team operate without losing time, the ARC 400 offers a wide range of electrosurgical areas.

ZAP mode – Change programs using hard or fast increase performance in the operating theatre using ZAP mode. Simple operation of the foot switch or button lets you choose between two preset modes. The operating surgeon chooses between two preset modes.

Work efficiently – on a high-tech basis

Pain is nothing – without the right technology

Excellent results depend on the right technology. In addition to the innovative circuit design that ensures the same results, the ARC 400 also offers a wide range of effects with ARC 400 and two handles. When used with all popular standard connections, there are numerous tournament points that can also directly affect performance in the OR.

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While a tap of your finger quickly create and call up favourites

Professionals pooling together: set the power, type of current and the activation type through the KARL STORZ OR1™

The best connects to the KARL STORZ OR1™ operating system

The ARC 400 can be incorporated perfectly in the integrated KARL STORZ OR1™ operating theatre. Thus the user can change and use the required programs and settings from the client area.

Plug’n Cut COMFORT: The COMFORT SYSTEM automatically recognises the COMFORT instrument, indicates how many times it may still be used and selects the correct device settings for the procedure.

Plug’n Cut: The ARC 400 automatically detects that a standard instrument is connected.
A join that conserves resources – LIGATION® with the ARC 400

Refine an established technique for permanent vessel and tissue sealing: LIGATION. Alongside the advantage of preventing the introduction of foreign bodies into the patient, this method also saves OR time, tissue materials and clips. Adaptable BOWA LIGATION instruments are the first choice for use with the ARC 400.

Costs and benefits – close the gap

Two hundred times instead of once
BOWA LIGATION instruments can be reused up to two hundred times. As shown in the graph, there are massive cost benefits over single-use instruments, even after only 50 procedures.

Cost benefits of BOWA NightKNIFE® compared to single-use instruments after 50 procedures

<table>
<thead>
<tr>
<th>Cost of single-use instruments</th>
<th>€ 9,000</th>
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Surgical applications:
- Cholecystectomy
- Gastronomy
- Hemostasis
- Thyroidectomy
- Liposuction
- Gastrectomy

Gynaecological applications:
- Hysterectomy – open and vaginal (laparoscopic and vaginal hysterectomy)
- TLH: Total laparoscopic hysterectomy
- LASH: Laparoscopic supracervical hysterectomy
- Mastectomy

Urological applications:
- Prostatectomy
- Cystectomy
- Nephrectomy

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The premium workstation for surgery and structures. ARC 400 combined with ARC PLUS is designed to diffuse bleeding and fine dosage on sensitive tissues. Benefit: contact-free work on large surfaces with Argon-assisted electrosurgery offers a major advantage in terms of perfusion safety and simple administration.

**Technical Features**

- Extensive range of accessories
- Flow testing and pressure monitoring
- Simple, space-saving docking of the ARC PLUS
- Foot and manual operation
- Large coverage with 2 argon bottles
- Flow rates of from 0.1 to 10 l/min
- Electronic level indicator and pre-warning
- Automatic control by the ARC 400
- Documentation of uses in the BOWA COMFORT instrument
- Automatic detection of argon instruments

**Advantages of argon-assisted electrosurgery in surgery and endoscopy**

- Ultra-simple to operate with large ignition gap
- Clear vision due to smoke-free coagulation
- Flexible coagulation zone
- Carbonisation-free
- Fast coagulation of large surfaces
- Contact-free coagulation without adherence or sticking in parenchymal tissues, such as the liver and kidney

**Applications (excerpts)**

- Interventional bronchology
- Gastroenterology
- Argon FLEX / Argon FLEX 90°
- Bronchoscopy
- Endoscopy
- Gastroenterology
- Rectal surgery
- Laparoscopy
- Abdominal surgery
- Visceral surgery
- Mamma surgery
- Liver surgery
- ENT
- Abdominal plastic
- General surgery
- Nephrectomy
- makoagulation bei der endoskopischen Blutstillung am Gastrointestinal-Trakt (GIT)

**Activation of argon modes**

- Argon COAG
- Argon CUT
- Argon COAG and CUT

**Notes**

- The argon beam produced with ARC PLUS can be administered particularly well and can be used for endosurgical applications in surgery and endoscopy.
- Low tissue damage due to minimal energy absorption or minimal energy consumption.
- Fast and easy ignition by argon support
- Contact-free haemostasis. Take advantage of enhanced clinical effectiveness for fast contact-free haemostasis and easy ignition.
- Maximal safety: +10 mm and easy ignition

**The new bipolar SimCoag**

The new and patent-protected SimCoag function of ARC PLUS ensures twice the performance during simultaneous bipolar operations. As two surgeons can operate on the same patient at the same time, an entirely new perspective is created for your HF surgery skills. The new bipolar SimCoag really does equal 2, as each power output is completely separate. You can now work safely and reliably with constant tissue effects within a 12 W range at all times. Because with SimCoag 1+1 range exactly in the selected and desired performance from each other. Each bipolar instrument remains completely separate. You can now work safely and reliably with constant tissue effects within a 12 W range at all times. Because with SimCoag 1+1 the new perspectives open up new perspectives.
SimCoag for ARC 400

Makes you a real team player in the field of HF surgery

- Simultaneous activation of instruments
- Individual power output

- Individual settings
- Individual power output

Simultaneous operating
In contrast to common generators, this brand new function now allows you to activate two bipolar instruments simultaneously:
- Uninterruptible
- Individual parameters
- Precise and safe

SimCoag for ARC 400

Special applications – just four of many

Bipolar resection* for urology
Bipolar resection with the ARC 400 stands out on account of its extremely reliable initial cutting and 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 transmural resection of the prostate (TUR-P), surgical treatment of bladder tumours (TUR-BT) and resection of the prostate tissue (TUR-NVP) can also be carried out with the ARC 400.

- Simultaneous activation of instruments
- Individual power output
- Individual settings
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Bipolar resection* for urology

- Simultaneous activation of instruments
- Individual power output
- Individual settings
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Quadruple specialties: functions for cardiac surgery
Four highly specialized functions for effective work are available for use in the field of cardiac surgery:

- Monopolar SimCOAG for simultaneous coagulation and preparation with two monopolar handles
- Cardiac thorax for forced coagulation when opening the thorax
- Cardiac mammaria for forced coagulation in the area of the mammarys
- Dry cutting for strong haemostasis

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

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

GastroCut for gastroenterology
With the ARC 400's GastroCut modes, gastroenterologists can achieve the best results with polypectomy and papillotomy and endoscopic resections with loops or knives electrodes. Gastrecterologists can adjust the haemostatic level of cutting and coagulation power to three speeds "slow", "medium" and "fast" as required to meet their needs.

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

GastroCut power types

Monopolar SimCOAG: simultaneous coagulation and preparation with two monopolar handles
Cardiac thorax: forced coagulation when opening the thorax
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The ARC 400 is the new generation of electro-surgical units, offering maximum performance for all standard instrument families. When used in conjunction with BOWA accessories, the ARC 400 becomes a closed system with outstanding properties – medical as well as economical.

**ARC CART – greater mobility**

**One unit – many options**
The ARC 400, ARC PLUS and the ARC CART form a high-performance unit that can be quickly manoeuvred to wherever it is needed in the OR.

Everything is in the right place and can be individually configured in the ARC CART. The basic ARC CART offers four steerable rollers with brakes, cable conduit, power cable detachment prevention device, handle, foot switch holder and a cable holder. The storage shelf is optimised for the ARC generator.

Also available as accessories are shelves, for SHE SHA smoke evacuation systems, drawers, gas bottle holders, equipotential bonding connectors or baskets. The result is much greater mobility.

The foot switches are waterproof (IPX8) and explosion-protected. Pedals are ergonomically arranged to allow for fatigue-free operation over long periods of time.
"Simply safe" is more than just a promise. For us it is the commitment to always think beyond the current standards. This approach leads us to solutions that open up new perspectives and support you as best as possible in your work.

As a specialist HF surgical company, we offer you complete systems as well as complementary individual products.

For a comprehensive overview of our product range, visit us at www.bowa.de.
Update service – simply by USB

Take advantage of the latest developments of the future. The ARC 400 is ready and waiting. Our update service lets you update your ARC 400’s software simply using a pen drive. The many standard sockets guarantee the future-proofing of your unit and its automated integration into your system landscape – even in the future.

Made in Germany – technical information

BDWA ARC 400 is designed for use in almost all areas of electrosurgery. ARC generators can be placed on ceiling supply units or on the ARC CART for unrestricted mobility. The device has two monopolar and three bipolar outputs. Hospital technicians can perform simple maintenance work, such as reading off unit information or running software updates that are supplied on a USB stick. Should you wish to connect third-party accessories, this is also possible using a range of different sockets.

Technical data at a glance

<table>
<thead>
<tr>
<th></th>
<th>ARC 400</th>
<th>ARC PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains voltage</td>
<td>100 – 120 V / 220 – 240 V ± 10 %</td>
<td>100 – 240 V ± 10%</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>50 / 60 Hz</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Mains fuse</td>
<td>T 10 A / 5 A</td>
<td>T 1 A</td>
</tr>
<tr>
<td>Power consumption in standby mode</td>
<td>40 W</td>
<td>6 W</td>
</tr>
<tr>
<td>Power consumption at max.</td>
<td>550 W</td>
<td>25 W</td>
</tr>
<tr>
<td>Width x Height x Depth</td>
<td>430 x 180 x 475 mm</td>
<td>430 x 90 x 490 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>12.5 kg</td>
<td>7.7 kg</td>
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<tr>
<td>Classification under EC Directive 93 / 42 / EEC</td>
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<td>II a</td>
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<tr>
<td>Protection class according to EN 60601-1</td>
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<td>Type according to EN 60 601-1</td>
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<td>900-001</td>
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<td>Bipolar resection option</td>
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<tr>
<td>LIGATION option</td>
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<td>-</td>
</tr>
<tr>
<td>Bipolar SimCOAG option</td>
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<td>-</td>
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<tr>
<td>Maximum CUT power</td>
<td>400 W</td>
<td>-</td>
</tr>
<tr>
<td>Maximum COAG power</td>
<td>350 W</td>
<td>-</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>350 kHz / 1 MHz</td>
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An innovative socket system for all connections and up to five instruments:
- monopolar: 2 x 3-pin & Bovie or 2 x 3-pin & Erbe
- bipolar: 2 x 2-pin or 1 x 2-pin & 2 x Erbe

Clear design: compact design, ideal to meet the exacting hygiene conditions in your OR

Communicative interfaces: with USB and network socket – designed for today and tomorrow