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
- Orthopaedic and trauma surgery
- Oral and maxillofacial surgery
- Neurosurgery
- Cardiac surgery

BOWA ARC 400 – the new generation of electrosurgical devices 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
Achieve real performance by working intuitively. The interactive fingerprint operation of the touchscreen and clear relationships between the controls and instruments give users a complete overview – in every situation. The Plug’n Cut function recognises instruments and Plug’n Cut COMFORT also automatically presets the right basic settings for whichever COMFORT instruments are connected.

Efficient operation
In 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 USB and several standard connections, ensuring you can also work efficiently in the future.
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

Touchpad technology allows enhanced intuition in the OR. With the ARC 400 you have fingertip control of all functions via the interactive touchpad, using clearly designed symbols. Effects, parameters, and individual settings are 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’s back panel. 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 clearly defined functions and the socket for the corresponding instrument begins to flash, thereby providing security and ease of use.

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.

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 electrosurgical accessories. The COMFORT SYSTEM ensures greatest process reliability, as it is equipped with an RFID reader for process optimisation in the OR – across all electrosurgical 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 yourself decisive 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 times the instrument has already been used. 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 simultaneous reduction of OR time

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

Choosing your favourites

Nothing can replace experience – especially in surgery. This is why, in addition to its many benefits, the ARC 400 offers the possibility of optimising standard values according to your own personal experience. You can store up unlimited personal favourite settings and call them up with a tap of your finger in the favourites menu.

Maximum safety and simultaneous reduction of OR time

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

Directly to your specific application

To help the OR team operate without losing time, the ARC 400 offers a wide range of electrosurgical applications. Effects and foot switches can be freely assigned; no symbols are shown for unused sockets.

Freedom of choice

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Choose your favourites

The ARC 400 offers a wide range of electrosurgical applications. Effects and foot switches can be freely assigned; no symbols are shown for unused sockets.

Plug’n Cut: The ARC 400 automatically detects that a standard instrument is connected.

Plug’n Cut: The ARC 400 automatically detects that a standard instrument is connected.

With a tap of your finger, quickly call up your favourites.

Professionals calling together: Set the power, type of current and the activation type through the KARL STORZ OR1™ operating system.

ZAP mode – Change programs using hand or foot

The ARC 400 offers a wide range of electrosurgical applications. Effects and foot switches can be freely assigned; no symbols are shown for unused sockets.

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.

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Personalised configuration – Your experience is the best standard

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ZAP mode – Change programs using hand or foot

The ARC 400 offers a wide range of electrosurgical applications. Effects and foot switches can be freely assigned; no symbols are shown for unused sockets.

Work efficiently – on a high-tech basis

The ARC 400 offers a wide range of electrosurgical applications. Effects and foot switches can be freely assigned; no symbols are shown for unused sockets.

CUT modes: e. g. Standard, Dry, Central, GastroCut, Loop and Knife, MetraLOOP, Laparoscopy

Excellent results depend on the right technology. In addition to the innovative socket design that allows up to three connections to be attached simultaneously and is compatible with all premium standard connectors, there are numerous hardware and software components that can also directly affect performance in the OR. The ARC control panel regulation for reproducible monopolar and bipolar cutting results – Up to 9 effects per mode – EASY neutral electrode monitoring with contact matrix, help menu with automatic power initiation – Current leakage monitoring – Short circuit detection – ISS permanent system self-testing – CCS permanent triarc cutting support – Configurable socket design – Information area for device messages – Operating instructions available directly on the device – CUT modes: e. g. Standard, Dry, Central, GastroCut, Loop and Knife, MetraLOOP, Laparoscopy

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A join that conserves resources – LIGATION* with the ARC 400

Rely on 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. As a fully automatic mode for the sealing of tissue with BOWA LIGATION instruments, LIGATION is a fully automatic mode for the sealing of tissue with BOWA LIGATION instruments.

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.

Optimum procedural results, thanks to outstanding ergonomics and tactility, are a further bonus for surgical artists. The massive potential for time-saving in the OR, as well as savings in terms of suturing materials and clips and instrument reusability, are all key factors to convince even the strictest cost controller.

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

Cost of single use instruments

- € 6,300
- € 10,800
- € 17,900

Surgical applications:
- Cholecystectomy
- Thyroidectomy
- Gastrectomy
- Retroperitoneal lymphadenectomy
- Thyroidectomy
- Abdominal hysterectomy
- Prostatectomy
- Colectomy
- Nephrectomy

Gynaecological applications:
- Hysterectomy – open and vaginal
- Laparoscopic-assisted vaginal hysterectomy
- LASH: Laparoscopic supra-cervical hysterectomy
- Mastectomy

Urological applications:
- Prostatectomy
- Urinary bladder/ureterostomy
- Nephrectomy

The NightKNIFE: Evaluation of Efficiency and Quality of Bipolar Vessel Sealing

JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES 2011

Efficient, no instrument change thanks to NightKNIFE® Seal’n Cut

ERGO 310D
- 340 mm
- Ø 5 mm
- Disposable, sterile
- Packing unit of 5 pieces
- Integrated blade
- Plug’n Cut COMFORT

LIGATION
- 360 and 200 mm
- Ø 10 mm
- Autoclavable
- Replaceable knife
- Plug’n Cut COMFORT

LIGATOR®
- 360 and 110 mm
- Ø 5 mm
- Autoclavable
- Maryland and straight model
- Plug’n Cut COMFORT

TissueSeal® PLUS
- 160, 190, 230 and 280 mm
- Autoclavable
- Plug’n Cut COMFORT

Surgical applications:
- Cholecystectomy
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- Gastrectomy
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- Thymectomy
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LIGATION is a fully automatic mode for the sealing of tissue with BOWA LIGATION instruments.

LIGATION* with the ARC 400

Reusability, safety – Reducing cost of 3 pieces

- Argon plasma
- BOWA, Gomaringen 2008
- BOWA
- Timo 5m
- 250 mm
- Disposable, sterile
- Autoclavable
- Plug’n Cut COMFORT

LIGATION is a fully automatic mode for the sealing of tissue with BOWA LIGATION instruments.
endoscopy, permitting ultra-simple application thanks to reliable ignition and, at the same time, offering excellent perforation safety with low power settings.

ARC 400 and ARC PLUS – the premium high-performance combination

Argon-assisted electrosurgery offers a major benefit: contact-free work on large surfaces with diffuse bleeding and fine dosage on sensitive structures. ARC 400 combined with ARC PLUS is the premium workstation for surgery and endoscopy, permitting ultra-simple application thanks to reliable ignition and, at the same time, offering excellent perforation safety with low power settings.

Contact-free. Reliable. Fast.

An electrical bridge is created between the instrument and the tissue in argon-assisted electro-surgery, with the aid of the ionisation of argon gas. The argon beam produced with ARC PLUS can be administered particularly well and can be used for contact-free haemostasis. Take advantage of enhanced clinical effectiveness for fast contact-free coagulation with maximum perforation safety and simple administration.

Technical features

Automatic detection of argon instruments and parameter presetination by Plug’n Cut
Automatic adjustment of the energy setting and parameter adjustment to the respective argon instrument by Plug’n Cut
Automatic activation of the ARC PLUS function by the ARC 400
Automatic control of the Argon flow by the ARC 400
Flexible coagulation zone
Clear vision due to smoke-free coagulation
Ultra-simple to operate with large ignition gap of >10 mm
Minimal argon flow rates of 0.4 l/min
Limited penetration depth

Applications (excerpts)

- Gastroenterology
- Interventional bronchology
- Superficial and smaller vascular bleeds
- Tumour reduction
- Tumour bleeding
- Recanalisation
- Granulation
- Fistula conditioning
- Stent ingrowth/overgrowth
- Rectoscopy

Safety advantages and perforation safety with low power setting: Energy setting (W) for effective ignition or therapeutic effect

Endoscopy modes are also visualised on the ARC PLUS. The green display signals pre-flushing of the connected instruments with argon.

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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 transurethral resection of the prostate (TUR-P), surgical treatment of bladder tumours (TUR-BT) and vaporisation of the prostate tissue (TUR-VAP) can also be carried out with the ARC 400.

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 cervix (LSH).

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

MetraLOOP

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 knife electrodes. Gastroenterologists can adjust the haemostasis levels of cutting and coagulation power from three speeds “slow”, “medium” and “fast” as required to meet their needs.

The cut is optimised, 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.

Highly flexible: GastroCut permits 6 cutting types with loops or knife electrodes for up to 9 effects.

The new and patented SimCoag* – the simultaneous application of two bipolar instruments opens up new perspectives

The new bipolar SimCoag* function of ARC 400 ensures twice the performance during operations. An additional Coag unit can operate in the same control unit at the same time, but separately from each other. Each bipolar instrument remains exactly in the selected and desired performance range at all times. Because with SimCoag 1+1 really does equal 2, as each power output is completely separate. You can now work safely and reliably with constant tissue effects within a broad and open-up brand new fields for your HF surgery skills.
Accessories – more than the sum of their parts

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.

SimCoag for ARC 400

Simultaneous operating
In contrast to common generators, this brand new function now allows you to activate two bipolar instruments simultaneously:

- Uninterrupted
- Individual parameters
- Precise and safe

Ideal application areas for the new SimCoag function are:

- Orthopedics and Traumatology
- Neuro Surgery
- General Surgery
- Plastic and Aesthetic Surgery

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

Simultaneous activation of instruments
- Individual power output

Simultaneous activation of instruments
- Individual settings
- Individual power output

Simultaneous activation of instruments
- Individual power output

Accessories – more than the sum of their parts

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.

Optimum: Vision and operation
Flexible: Freely assignable foot pedals
Space-saving: Streamlined
Precise: Individual power and effect settings
Time saving: Uninterruptible performance for two surgeons

Simultaneous operating

Ideal application areas for the new SimCoag function are:

- Orthopedics and Traumatology
- Neuro Surgery
- General Surgery
- Plastic and Aesthetic Surgery

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.

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Optimum: Vision and operation
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Space-saving: Streamlined
"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-medical.com.
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.

<table>
<thead>
<tr>
<th>Technical data at a glance</th>
<th>ARC 400</th>
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<tbody>
<tr>
<td>Mains voltage</td>
<td>100 – 127 V / 220 – 240 V</td>
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<td>Mains frequency</td>
<td>50 / 60 Hz</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Mains power</td>
<td>Max. 5 A @ 230 V</td>
<td>8 A @ 127 V</td>
</tr>
<tr>
<td></td>
<td>Max. 10 A @ 120 V</td>
<td>Max. 0.8 A</td>
</tr>
<tr>
<td>Mains fuse</td>
<td>2 x T 5 AH 250 V / 2 x T 10 AH 250 V</td>
<td>2 x T 1 A</td>
</tr>
<tr>
<td>Power consumption min.</td>
<td>3 W / 40 VA</td>
<td>1 W / 20 VA</td>
</tr>
<tr>
<td>Power consumption max.</td>
<td>700 W / 1150 VA</td>
<td>32 W / 65 VA</td>
</tr>
<tr>
<td>Width x Height x Depth</td>
<td>430 x 180 x 475 mm</td>
<td>433 x 97 x 489 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>12.5 kg</td>
<td>7.3 kg</td>
</tr>
<tr>
<td>Classification under EC Directive 93/42/EEC</td>
<td>II b</td>
<td>II a</td>
</tr>
<tr>
<td>Protection class according to EN 60601-1</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Type according to EN 60601-1</td>
<td>CF</td>
<td>–</td>
</tr>
<tr>
<td>CE marking</td>
<td>CE0123</td>
<td>CE0123</td>
</tr>
<tr>
<td>Item no.</td>
<td>900-400</td>
<td>900-001</td>
</tr>
<tr>
<td>Bipolar resection option</td>
<td>900-395</td>
<td>–</td>
</tr>
<tr>
<td>LIGATION option</td>
<td>900-396</td>
<td>–</td>
</tr>
<tr>
<td>Bipolar SimCOAG option</td>
<td>900-399</td>
<td>–</td>
</tr>
<tr>
<td>Max. MONOPOLAR power</td>
<td>400 W (at 200Ω)</td>
<td>–</td>
</tr>
<tr>
<td>Max. BIPOLAR power</td>
<td>400 W (at 75Ω)</td>
<td>–</td>
</tr>
<tr>
<td>Output frequency</td>
<td>350 kHz / 1 MHz</td>
<td>–</td>
</tr>
</tbody>
</table>

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