



medifa 8000 hybrid

Mobile hybrid
OR solutions



we care.

Mobile hybrid OR solution

= medifa 8000 hybrid + mobile medical imaging device
(C-arm, cath lab, CT scanner etc.)

With a mobile hybrid OR solution, image-guided surgery can be performed simultaneously and location-independently. That means that nearly each operating room can be used as a mobile hybrid OR for diagnostics in real time and for immediate fluoroscopic procedures, surgical intervention, treatment and therapy.

Advantages of a mobile hybrid OR solution:

Flexibility and efficiency

- Any operating room can be used as a multidisciplinary hybrid OR
- Low acquisition and maintenance costs increases return on investment
- No special requirements for foundations and room size as compared to fixed hybrid ORs
- Lower radiation dose needed than in fixed hybrid ORs
- Demand-based utilization of existing technology and operating rooms
- Mobile solution enables cost-effective and future-proof replacement of imaging devices
- Quick response time in emergency care

Safety and ergonomics

- Excellent imaging quality and less artefacts during fluoroscopy, thanks to the X-ray translucent carbon fiber table top with integrated carbon standard rails
- Higher safety for patient and user due to low required radiation dose
- Avoidance of unnecessary infection by means of transports to radiology departments
- Immediate control based on intraoperative imaging
- User-friendly positioning of the imaging equipment thanks to special operating table design
- Improving workflow, avoiding delays and increasing productivity



Better care in many surgical fields



Endovascular applications

Precise tracking of contrast agents simultaneously with imaging. Control and speed of free-floating table top displacement can be adjusted to the flow of contrast agent (electric up to 150 mm/s ideal for bolus-chase applications).

- Repair of aneurysms in the aortic arch
- EVAR: Endovascular aneurysm repair
- Stent implantation in peripheral vessels



Cardiovascular applications

In cardiovascular procedures and treatment of coronary arteries, less invasive procedures can reduce complications and enhance speedy healing with mobile hybrid solutions.

- TEVAR: Thoracic endovascular aortic/aneurysm repair
- TAVI / TAVR: Transcatheter aortic valve implantation / reimplantation
- Defibrillator (ICD) and pacemaker



Orthopaedics / Traumatology

The treatment results of orthopaedic and traumatological interventions can be significantly improved by direct imaging during the operation. With a mobile hybrid solution, you can avoid a transfer to radiology during surgery, gain important treatment time and reduce the risk of infection.

- Treatment of patients with polytrauma
- Pelvic reconstruction



Neurosurgery / Oncology











Intraoperative imaging increases precision in neurosurgical procedures and can improve resection and minimise damage to healthy tissue in tumour treatments.

- Coiling of aneurysms
- Tumour resection
- Minimally invasive oncological procedures for the treatment of liver, kidney and gynaecological cancers with fluoroscopy
- RF ablation procedures for kidney & liver tumour
- Spinal surgery

Functions

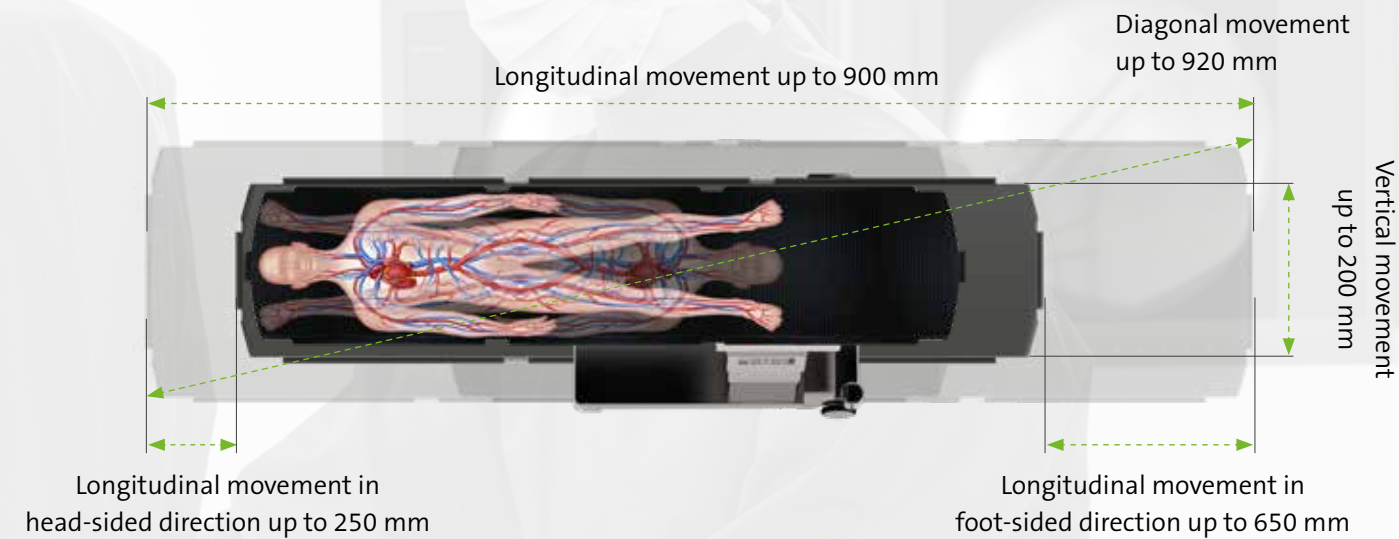
Mobile imaging table with free-float control and carbon lying surface, art.-no. 800400



	Range	800400
	Height adjustment	780 - 1,140 mm ●
	Trendelenburg	± 25° ●
	Lateral tilt	± 20° ●
	Free-floating of table top	◆
	Longitudinal sliding of table top	900 mm ■◆
	Vertical sliding of table top	200 mm ■◆
	Mobility	◆
	Central brake	◆
	Memory (3 Positions)	■
	Maximum permissible overall load	250 kg

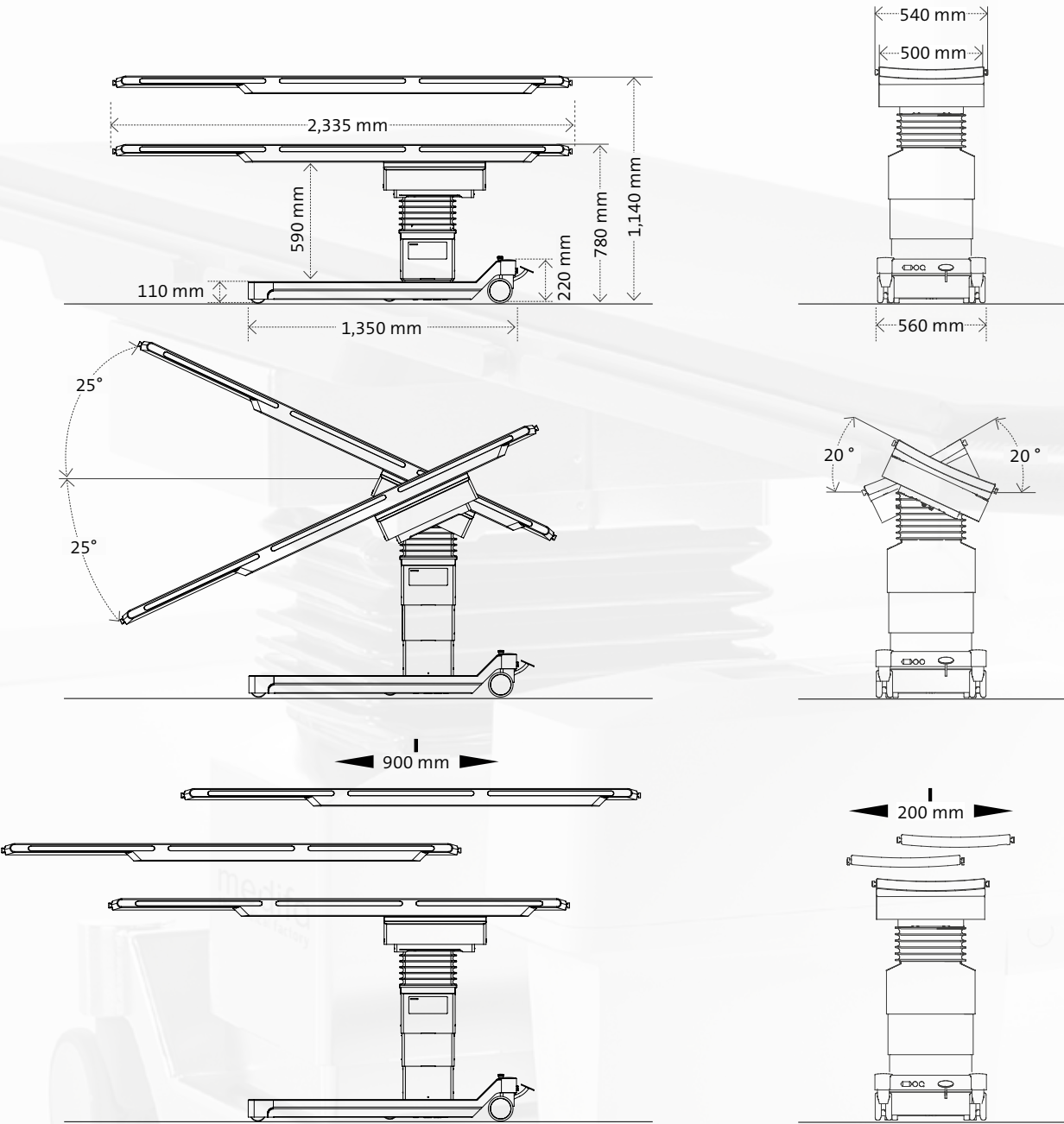
● electro-hydraulic ■ electrical ◆ manual

Real free-floating in each direction



- Real free-floating positioning as well as electrical longitudinal and vertical sliding of table top
- Better control over the surgical procedure due to the independent operation of the surgeon (speed and direction)
- Unique carbon table top with integrated standard rails offer highest image quality combined with minimal radiation dose
- Slim and narrow design of the table top allows best possible patient access
- Bolus chase possible from thorax to lower leg in one step and with only one injection (longitudinal displacement up to 900 mm)
- Continuous radiolucency up to 1,590 mm, (up to 1,910 mm continous radiolucency (when attaching optional radiolucent headrest system (art.-no 811076 or 811078))
- Software class „B“
- Emergency stop with less than 150 ms by spring-loaded safety brake
- Open interface for connection to external imaging systems

Technical information



Control concept

1. Standard: Backlit control panel with joystick, colour display and battery indicator



- Activation of control panel
- Activation of up to three user-defined operating positions
- Saving of up to three user-defined operating positions
- Button for changing direction of joystick
- Joystick for horizontal and vertical sliding of table top
- Reverse-Mode
- Positioning keys
- Leveling
- Colour display with battery indicator

- 2. Standard: Free-Float Control for precise manual movement of table top (only available for model 800400)
- 3. Standard: Additional backlit control unit at column
- 4. Optional: Backlit wireless infrared hand switch with colour display and battery indicator (art.-no. 804070, not retrofittable)
- 5. Optional: Foot switch for height, lateral and Trendelenburg adjustment (optional, art.-no. 804060)

Priority of control options:

- 1. Ethernet (SDC Interface)
- 2. Control panel
- 3. Foot switch



External connection options of the operating table:

- Connection to external device via Ethernet cable / network cable RJ45
- Power line
- Potential equalisation

Open SDC interface: Service-oriented device connectivity (www.ornet.org):

- IEEE 11073 SDC Communication Protocol
- IP-based service-oriented protocol that enables interoperability between devices according to IEEE
 - 11073-10207
 - 11073-20702
 - 11073-20701



The interface allows other medical devices to take over the position of the table and the movement information in real time and to control the table movement.

Integration possibilities for SDC interface through external devices:

- Control of table movement via external device: table height, tilting, Trendelenburg, memory positions as well as longitudinal, transversal and diagonal displacement of table top enable optimum operating comfort
- Synchronised movements of table and external device enable image fusion
- Automatic movement sequences controlled by the imaging device
- Control and programming of predefined travel profiles (incl. feed speed and feed path of the table top) with infinitely variable speed adjustment up to 150 mm/s
- Continuous movement of the table top, e.g. for computer tomographic spiral scans
- Collision protection for more patient and device safety
- OR integration connection
- Recording of table position / patient positioning for documentation purposes



Foot switch for medifa 8000 & 8000 hybrid
Art.-no. 804060

- Additional control unit for the main functions height, lateral and Trendelenburg movement
- Tethered



Infrared remote control for medifa 8000 & 8000 hybrid
Art.-no. 804070

- Incl. charging station
- Wireless data transfer
- Control panel for all electric functions



Hand switch support
Art.-no. 61575

- To place hand switch at lateral or head-end side rail
- Tiltable
- Material: Stainless steel



Clamp
Art.-no. 81511

- For fixation of accessories with round rod ($\varnothing = 16-18$ mm)
- Rotatable



Anaesthesia screen for medifa 8000 & 8000 hybrid
Art.-no. 81750

- Incl. clamp, without arm restraint cuff
- Extendible to both sides



Arm restraint cuff
Art.-no. 61755

- For attachment at anaesthesia screen
- Suitable for: 61750, 81750



Flexible anaesthesia screen for medifa 8000 & 8000 hybrid
Art.-no. 81751

- Incl. clamp
- Bendable, individually adjustable
- Length: 2000 mm



Infusion holder for medifa 8000 & 8000 hybrid
Art.-no. 81815

- Incl. clamp
- Extendible
- Four hooks



Body or leg strap for medifa 8000 & 8000 hybrid
Art.-no. 81405

- Steplessly adjustable
- With velcro strap



Hand cuffs for medifa 8000 & 8000 hybrid
Art.-no. 81406

- Incl. clamp
- For fixation of hands or arms
- Pair



Joint arm with horseshoe headrest for medifa 8000 & 8000 hybrid
Art.-no. 81110

- Flexible positioning of headrest by means of three joints
- Fast positioning and fixation of horseshoe shaped headrest by means of central screw
- For positioning of head in prone or supine position
- Oval form with cut-out
- Upholstery: PUR, electrically conductive



Horseshoe headrest for adults
Art.-no. 811076

- Incl. detachable gel pads and fixation
- For positioning head in prone or supine position
- Radiolucent
- Composed of: 561060 - Adaptor for accessories, 561061 - Connecting piece short, 561062 - Connecting piece long, 561067 - Swivel adaptor, 561077 - Horseshoe headrest (adults)



Horseshoe headrest for children

Art.-no. 811078

- Incl. detachable gel pads and fixation
- For positioning head in prone or supine position
- Radiolucent
- Composed of: 561060 - Adaptor for accessories, 561061 - Connecting piece short, 561062 - Connecting piece long, 561067 - Swivel adaptor, 561079 - Horseshoe headrest (children)



Skull clamp

Art.-no. 811069

- Incl. fixation
- For fixation of head during neurosurgical procedures
- Radiolucent
- Composed of: 561060 - Adaptor for accessories, 561061 - Connecting piece short, 561062 - Connecting piece long, 561067 - Swivel adaptor, 561068 - Skull clamp
- Skull pins 811073 or 811074 have to be ordered separately



Skull pins adults

Art.-no. 811073

- Reusable, three pieces, made of titan
- Attachment at 811069

Skull pins children

Art.-no. 811074

- Reusable, three pieces, made of titan
- Attachment at 811069



Bow frame

Art.-no. 81900

- Incl. hand crank
- Radiolucent
- Unlimited access to C-arms
- Patient supports are adjustable to fit different patient sizes
- Maximum patient weight: 227 kg



Radiolucent arm rest

Art.-no. 81220_1

- Swivelling
- Radiolucent
- L x W: 650 x 140 mm
- Upholstery: Artificial leather covered foam, H = 20 mm, electrically conductive
- Also available with upholstery H = 40 mm (Art.-no. 81220_2) and H = 60 mm (Art.-no. 81220_3)



Arm rest with joint arm for medifa 8000 & 8000 hybrid

Art.-no. 81217

- Incl. clamp and fixture straps
- Three joints enable flexible positioning of patient's arm
- Fast positioning and fixation by means of central screw
- Upholstery: Viscoelastic foam, L x W x H: 400 x 115 x 80 mm, electrically conductive, detachable



Arm rest with ball joint for medifa 8000 & 8000 hybrid
Art.-no. 81211

- Incl. clamp and fixture straps
- Rotatable and tiltable by means of ball joint
- Adjustable in height and horizontally slidable
- Upholstery: Viscoelastic foam, L x W x H: 400 x 115 x 80 mm, electrically conductive, detachable



Arm shield for medifa 8000 & 8000 hybrid
Art.-no. 81345

- Incl. upholstery
- L x H: 410 x 180 mm



Arm and hand surgical table
Art.-no. 81230

- Incl. clamp, upholstery and supporting leg
- Table top made of carbon
- Radiolucent
- Adjustable in height
- L x W: 815 x 430 mm
- Upholstery: Soft Foam Core, H: 30 mm, electrically conductive



Side support / arm rest
Art.-no. 81092

- For stabilisation of patient or positioning of arm
- Hinged in three steps (upwards, horizontally, downwards)
- L x H: 600 x 140 / 235 mm
- Upholstery made of artificial leathered covered foam, H= 20 mm has to be ordered separately (art.-no. 56031)



Adaptor for side rails
Art.-no. 81560

- Incl. clamps
- For attachment of external accessories
- L: 200 mm



Holder of body supports for medifa 8000 & 8000 hybrid
Art.-no. 81361

- For attachment of body supports
- Adjustable in height, extendible and swivelling (360°)
- Positioning of body supports by means of ball joint



Body support for pubis, sacrum and sternum

Art.-no. 61361_1

- Upholstery: PUR, Ø: 100 mm, electrically conductive
- Suitable for: 61361, 61365 and 81361
- Material: Stainless steel



Body support for side and shoulder

Art.-no. 61361_2

- To support side and shoulder
- Upholstery: PUR, L x W: each 220 x 110 mm, electrically conductive
- Suitable for: 61361, 61365 and 81361
- Material: Stainless steel



Body support for back and buttocks

Art.-no. 61361_3

- Upholstery: PUR, L x W: each 220 x 110 mm, electrically conductive
- Suitable for: 61361, 61365 and 81361
- Material: Stainless steel



Supporting roll

Art.-no. 61361_4

- For lateral positioning of patient
- Upholstery: PUR, L x Ø: 190 x 100 mm, electrically conductive
- Suitable for: 61361, 61365 and 81361
- Material: Stainless steel



Width extensions for medifa 8000 & 8000 hybrid

Art.-no. 81355_1

- Radiolucent
- Integrated side rails
- L x W: 600 x 50 mm
- Upholstery: Artificial leather covered foam, H: 20 mm
- Also available with upholstery height 40 mm (Art.-no. 81355_2) and 60 mm (Art.-no. 81355_3)
- Pair



Radiation protection

Art.-no. 81040

- Incl. fixation
- Protects lower body from scattered radiation
- Three segments (each L x W: 750 x 290 mm)
- X-ray tube voltage range: 50 - 120 kV



Radiation protection with upper shield

Art.-no. 81045

- Incl. fixation
- Protects body from scattered radiation
- Lower shield consisting of three segments (each L x W: 750 x 290 mm)
- Upper shield consisting of four segments (each L x W: 270 x 180 mm)
- X-ray tube voltage range: 50 - 120 kV



Head support

Art.-no. 61147

- For positioning of patient in supine position
- Radiolucent
- L x W: 250 x 250 mm
- Material: PUR, electrically conductive



Spinal disc pad

Art.-no. 61900

- For positioning during surgeries at spinal disc
- Radiolucent
- L x W x H: 820 x 450 x 90 mm
- Material: Viscoelastic foam, electrically conductive



Head ring made of silicone gel for adults

Art.-no. 61115

- Height 45 mm, Ø (outer): 200 mm

Head ring made of silicone gel for children

Art.-no. 61115_2

- Height 35 mm, Ø (outer): 140 mm

Head ring made of silicone gel for infants

Art.-no. 61115_3

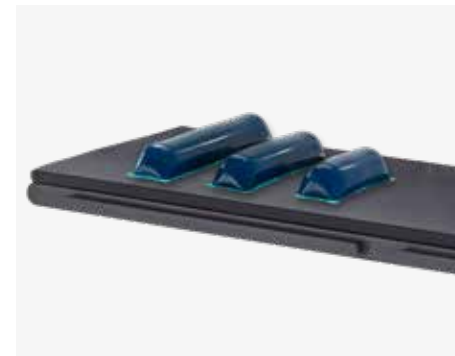
- Height 20 mm, Ø (outer): 90 mm



Head positioning pad for adults made of silicone gel

Art.-no. 61910

- For positioning of patient in prone position
- L x W x H: 280 x 240 x 150 mm



Small flat bottom chest roll made of silicone gel

Art.-no. 61920

- L x W x H: 305 x 100 x 75 mm

Medium flat bottom chest roll made of silicone gel

Art.-no. 61921

- L x W x H: 405 x 100 x 75 mm

Large flat bottom chest roll made of silicone gel

Art.-no. 61922

- L x W x H: 510 x 100 x 75 mm



Heel pads made of silicone gel

Art.-no. 61940

- For positioning patient in supine position
- L x W x H: 190 x 100 x 70 mm
- Pair



Upholstery for lying surface for medifa 8000 & 8000 hybrid

Art.-no. 800020

- Artificial leather covered foam, L x W x H: 2340 x 540 mm x 20 mm, electrically conductive
- Also available with upholstery height 40 mm (Art.-no. 800040) and 60 mm (Art.-no. 800060)

The medifa healthcare group unites competence concerning operating rooms under one roof.

medifa is an owner-run and internationally active complete solution provider in the medical technology.

The product and service portfolio covers all operating room requirements from modular wall, door, ceiling and cabinet systems (RooSy® Room Systems) for the turnkey operating room, as well as operating tables with accessories, operating lights right up to special construction solutions and medical furniture. In addition, one of

the largest German OEM suppliers in the medical technology sector also belongs to medifa.

medifa GmbH & Co. KG (Finnentrop), medifa hygienic rooms GmbH (Ötigheim) and medifa metall und medizintechnik GmbH in Rastatt are all part of this group of companies. The medifa healthcare group employs approximately 350 employees at three locations within Germany. The planning, engineering and production take place exclusively in Germany,

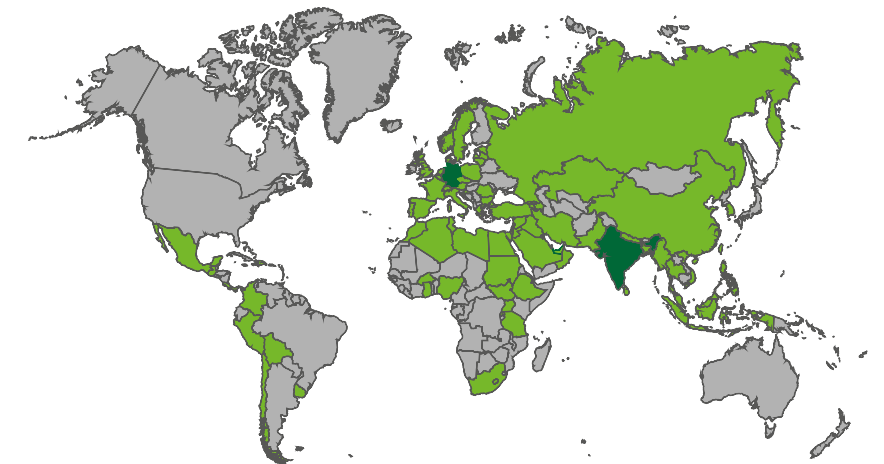
and with over 80% added value in the group of companies, the group guarantees fast reaction times.

The slogan “we care” means for us that we consistently orientate ourselves according to the requirements of our customers. Customers all over the world can rely on top-class consultation, processing and quality from a single source, made in Germany according to certified national and international quality standards.

Products

- Modular operating room systems (RooSy)
- Operating lights (H!Light)
- Mobile carbon tables for minimally invasive applications
- Operating tables and accessories
- Examination and treatment chairs
- Medical furniture and trolleys
- Customized medical solutions

medifa weltweit

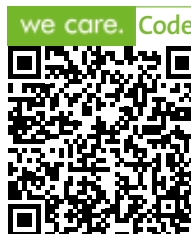


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Subject to modifications due to technical development.
This document is intended to provide information to an
international audience outside of the US.

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