medifa

the medical factory

medifa H!Light

LED operating light system

we care.

medifa H!Light

- Innovative lighting technology combined with high functionality

- User-friendly control concept

- Operating theatre adapted colour rendering

- Large, homogeneous surface illumination

- Easy adjustability

- One universal handle holder for all cameras (4K and HD) and all handles

- Sterile control at the multifunction handle

- Lightweight construction (aluminium housing)

- Optional: 360° monitor arm with stop-free signal transmission

- Ideal cleaning and disinfection conditions

- Sustainable energy efficiency with minimal warming

- Long lifespan

- Optional with HD or 4K wireless camera

medifa H!Light - illuminating advantages

Light field size

Light field sizes from 18 - 32 cm.

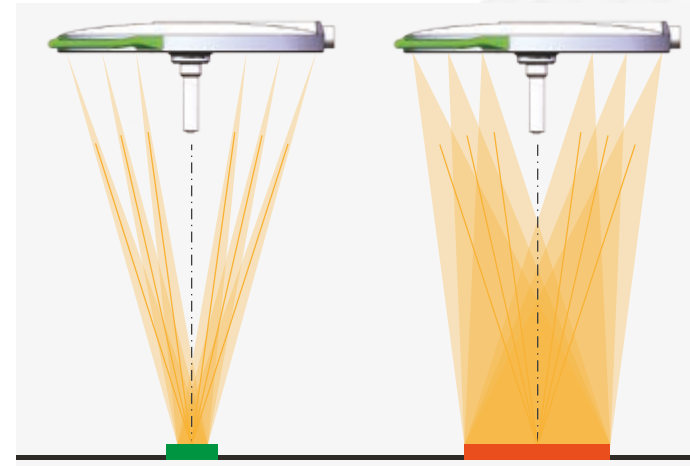For the distances of 0.8 to 1.2 metres frequently required in everyday operating theatres

LED Technology

The newest medifa LED technology for a homogeneous mixture of cold and warm white LEDs behind the lenses.

The mixed light emerges as white light and is distributed evenly over the wound area.

This prevents the creation of colour shadows by the surgeon's head or hands in the light channel of the operating light.

Focus

Electronic focus through the medifa dual lens system, consisting of 72 versatile lenses in 2 sizes.

No mechanical adjustment of the optical components necessary.

Universal handle holder

The universal handle holder offers unique flexibility.

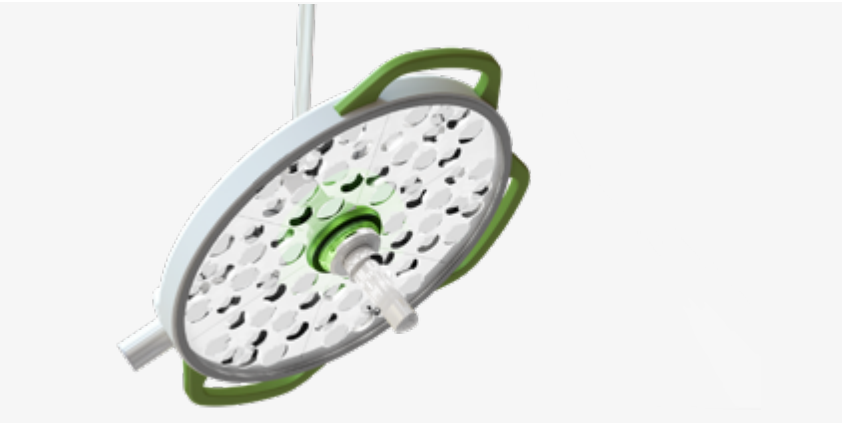All handle adapters fit into the same handle holder.

Tool-free change possible.

medifa H!Light - illuminating advantages   Models

Colour temperature

The right colour temperature for every type of tissue and wound structure.

From 3,000 K to 5,500 K.

3,000 K   5,500 K

Endoscopy mode

The inner area is illuminated in green for higher contrast on the monitor.

Extremely user-friendly for minimally invasive procedures.

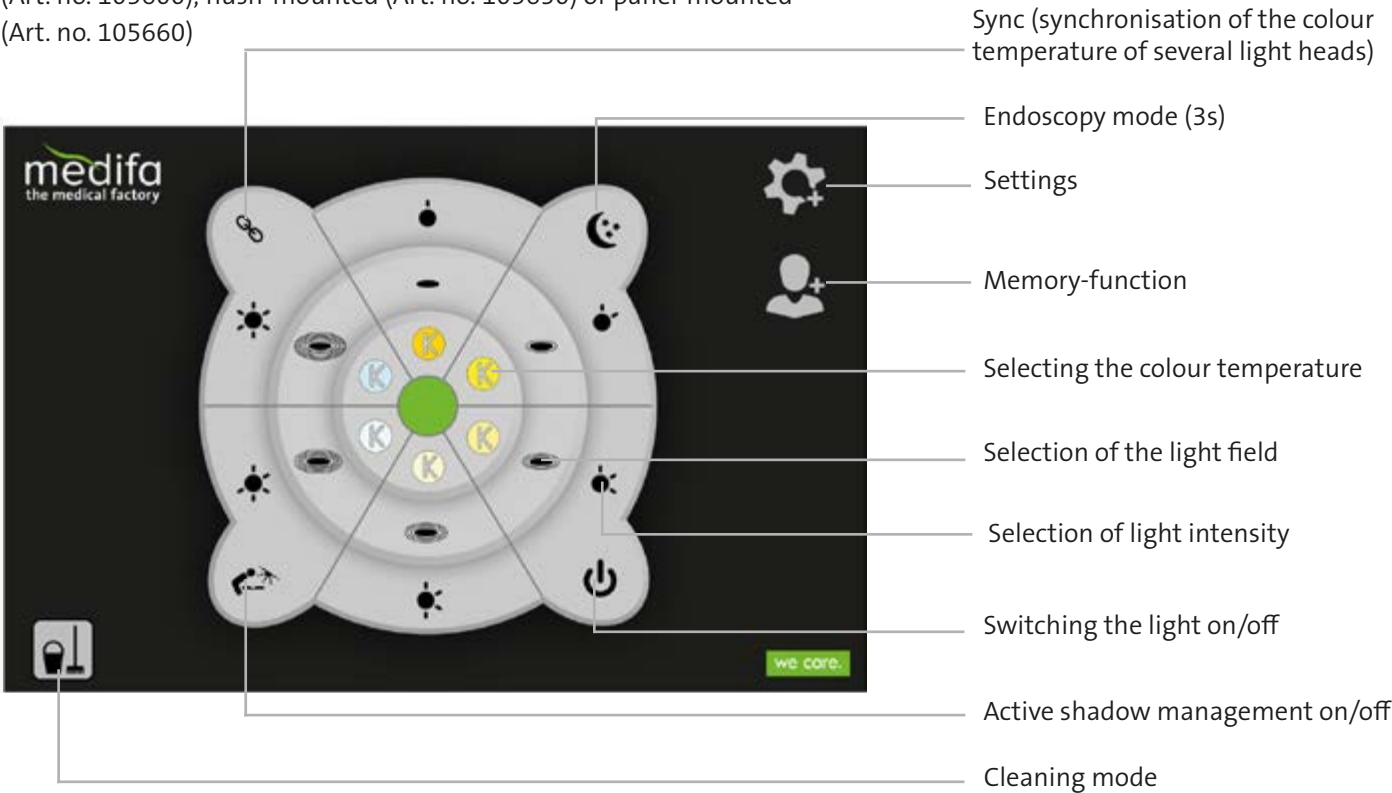|		medifa H!Light Art-No. 100200	medifa H!Light plus Art-No. 100400
K	Colour temperature 3,000 K -5,500 K	●	●
	Control element on light head	●	●
	Sterile control at the multifunction handle	◆	◆
	Active shadow management		●
	Camera	◆	◆
	Endoscopy mode	●	●
	Memory-function	●	●

● included   ◆ optional

User-friendly control concept

Operating light

Touch control element
on the lamp head and optionally as wall control units surface-mounted
(Art. no. 105600), flush-mounted (Art. no. 105650) or panel-mounted
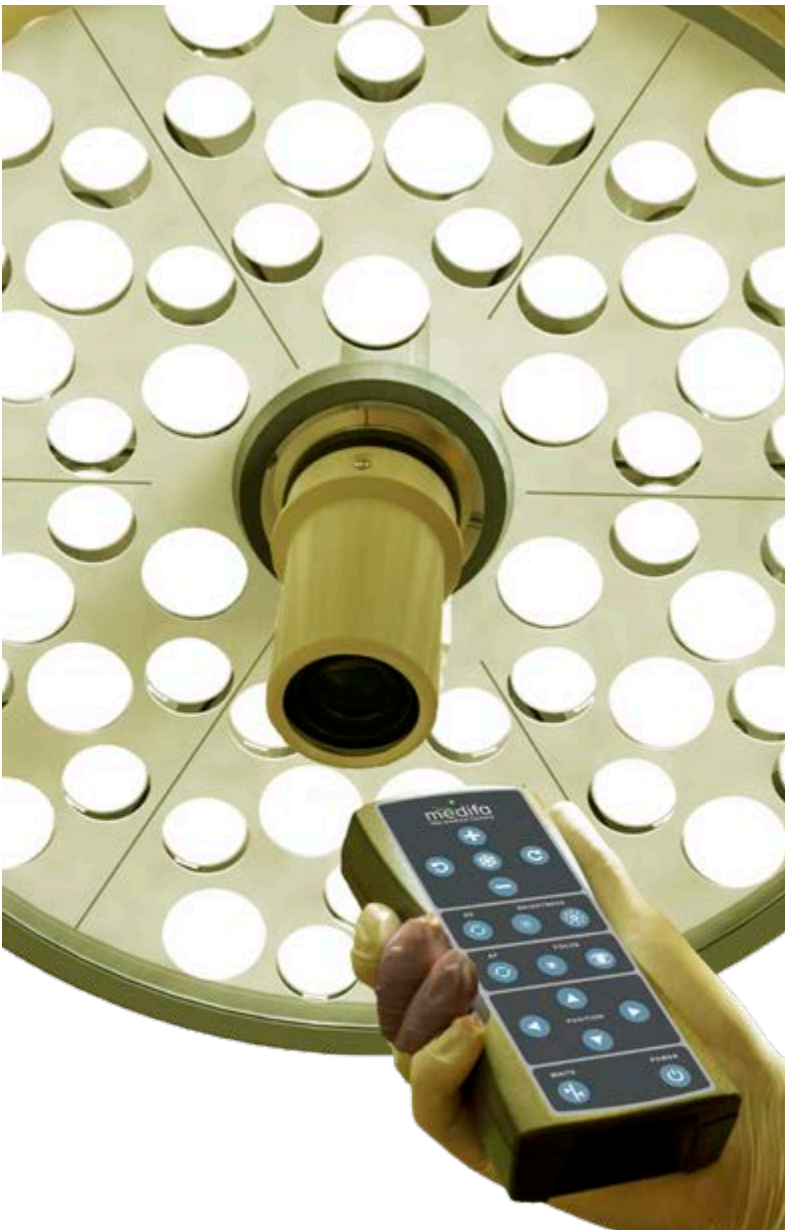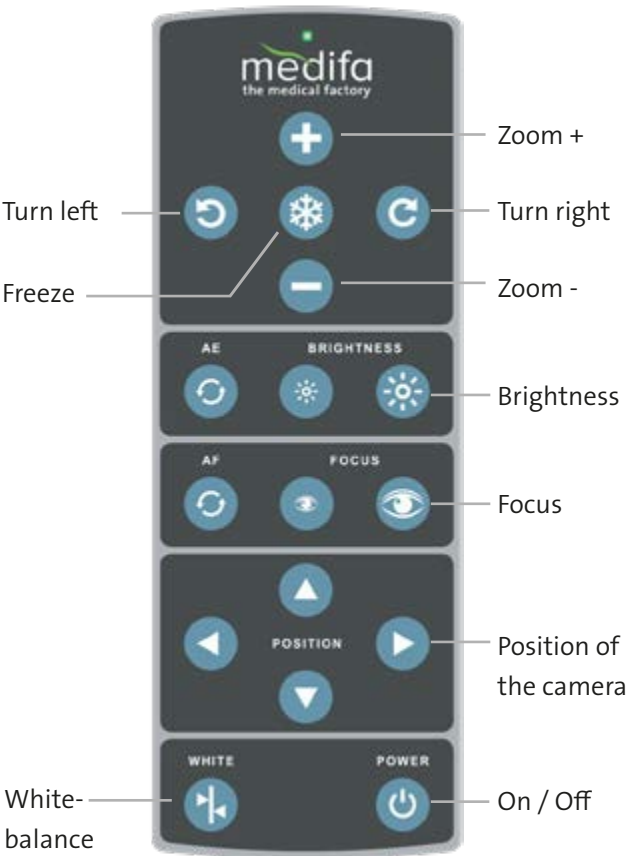(Art. no. 105660)

Sync (synchronisation of the colour
temperature of several light heads)

Endoscopy mode (3s)

Settings

Memory-function

Selecting the colour temperature

Selection of the light field

Selection of light intensity

Switching the light on/off

Active shadow management on/off

Cleaning mode

Option: Sterile control at the multifunction handle

Intensity, light field size and colour temperature can be controlled on the sterile handle.

The functions are selected by pressing the selection button at the bottom of the handle.

The selected function is adjusted by turning the sterilisable handle.

Wireless-camera

Remote control

Zoom +

Turn left   Turn right

Freeze   Zoom -

Brightness

Focus

Position of
the camera

White-   On / Off
balance

H!Light for your operating theatre

Everything from one source for your OR:

1. Operating lights

2. Modular room system RooSy

3. Mobile operating tables and accessories

4. Medical furniture and customized solutions

Technical data

Technical data operating light

Technical data operating light	
Light intensity in Lux	40,000 lx - 160,000 lx
Adjustability of the light intensity	in 6 steps
Colour temperature (Kelvin)	3,000 - 5,500
Colour rendering index R_a	96
Colour rendering index R_9 (blood)	95
Colour rendering index R_{13} (skin)	98
Focusable light field size (Diameter d_{10} in cm)	18 - 32 cm
Adjustability of the light field size	in 6 steps
d_{50}/d_{10} ratio	0.67
Working distance (in cm)	70 - 150 cm
Diameter of light head (in cm)	60 cm
Temperature increase in the head area	<0.5°
Number of LEDs	72
Life-span of the LEDs	> 60,000h
Depth of light field L1+L2 at 60% Ec(cm)	65
Depth of light field L1+L2 at 20% Ec(cm)	120
Total power consumption	160 VA

All values are conform to IEC 60601-2-41 and are subject to a general industrial tolerance of ± 10%.

*In accordance with the IEC 60601-2-41 standard, the maximum illuminance must not exceed 160,000 lx. The industrial tolerance is therefore only -10%.

Technical data wireless-camera

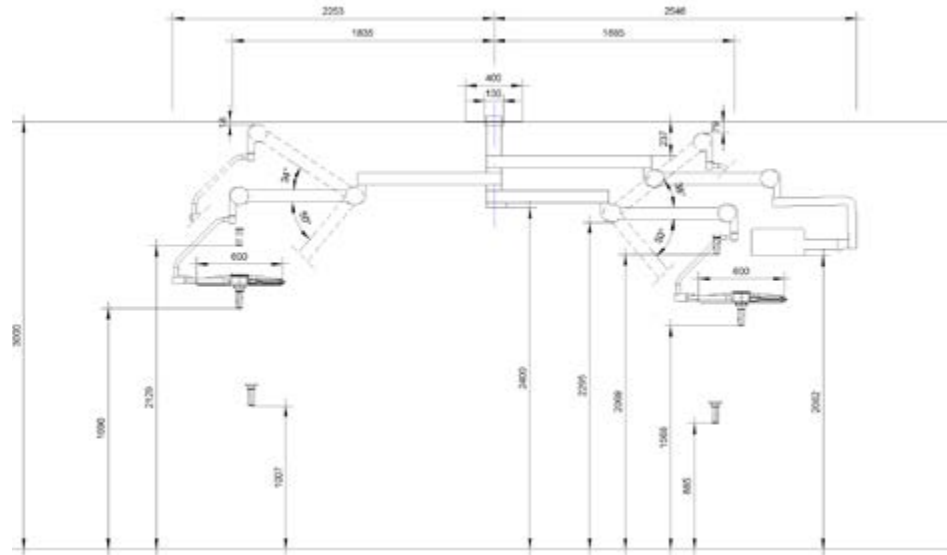| Technical data wireless-camera	wireless HD (Art.-no. 103200)	wireless 4K (Art.-no. 103200)
Resolution pixel	ca. 2,140,000 Pixel	8,510,000 Pixel
Resolution	1,920 x 1,080	3,840 x 2,160
Zoom	30x optical, 12x digital	20x optical, 12x digital
Image rotation	limitless, motorised	limitless, motorised
Video outputs	HDMI 1.4, DVI	HDMI 1.4, DVI
Aspect ratio	16:9	16:9
Dimensions (Ø, length)	68 mm x 179 mm	68 mm x 179 mm
Weight camera	1 kg	1 kg
Security of data transmission	exclusively between coupled transmitter + receiver AES 128 bit encryption	exclusively between coupled transmitter + receiver AES 128 bit encryption

Use our wireless camera systems in the operating theatre for detailed, precise representation and highest image quality

Our cameras offer you finely structured images, optimum detail and brilliant reproduction with clear, sharp contours and perfect colour reproduction from every position.

A wired solution is also available on request.
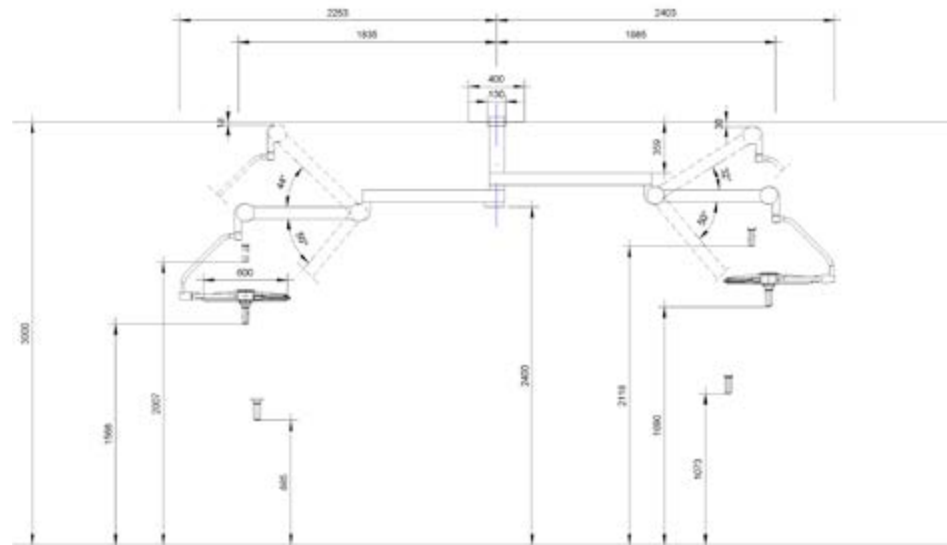
Configuration examples

Triple combination with monitor holder

Combination of

- **Art.-no. 105075** Flat cover 400x400
- **Art.-no. 105060** Ceiling tube 105 mm
- **Art.-no. 105300** Central axis trio
- **Art.-no. 100200** medifa H!Light
- **Art.-no. 100400** medifa H!Light plus
- **Art.-no. 105700** 2x medifa handle adapter standard or
  Art.-no. 105750 medifa handle adapter sterile control
- **Art.-no. 102400-1** medifa H!Light monitor 4K up to 32˝
  Art.-no. 102200-1 medifa H!Light monitor stop

Double combination

Combination of

- **Art.-no. 105075** Flat cover 400x400
- **Art.-no. 105060** Ceiling tube 105 mm
- **Art.-no. 105200** Central axis duo
- **Art.-no. 100200** medifa H!Light
- **Art.-no. 100400** medifa H!Light plus
- **Art.-no. 105700** 2x medifa handle adapter standard or
  Art.-no. 105750 medifa handle adapter sterile control

Accessories

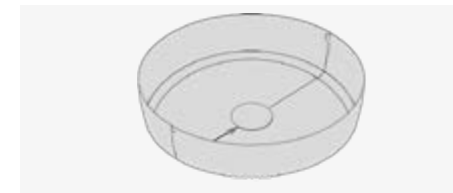**Ceiling fixation set Light**
Art.-no. 105050
- For intermediate ceiling
- Max. distance intermediate/bare ceiling 1,200 mm for installation with flat cover
- Consisting of: 1x Ceiling anchor plate M16, 6x Distance unit M16
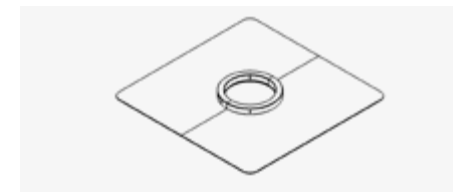

Ceiling tube 105 mm
Art.-no. 105060
- Ceiling tube diameter: 105 mm
- Standard length: 300 mm or 500 mm
- Other length on request
- Fixation hole pattern 6x M16 270 mm

Cover 590
Art.-no. 105095
- Solo cover round
- D = 590 mm H = 125 mm
- Two part with 6 pcs. Mounting screws
- one part holding ring

Flat cover 400x400
Art.-no. 105075
- Flat cover Solo
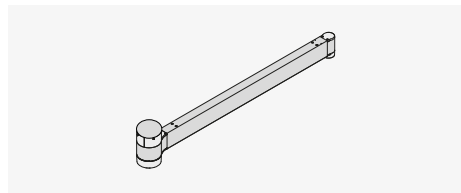- 400 x 400 mm H = 2 mm
- Two part holding ring

Installationkit Laminar Air Flow
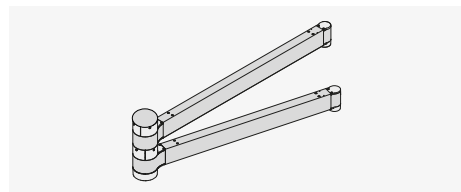**Art.-no. 105080**
- Two units, two part holding ring

Accessories

Central axis single
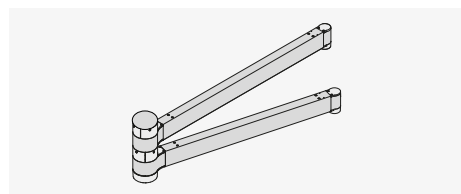**Art.-no. 105100**
• Central axis and extension arm
• Extension arm length standard: 1,075 mm
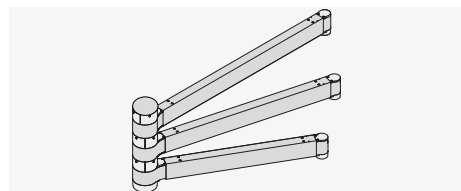
Central axis duo
Art.-no. 105200
• Central axis and extension arm
• Extension arm length standard: 925 mm / 1,075 mm

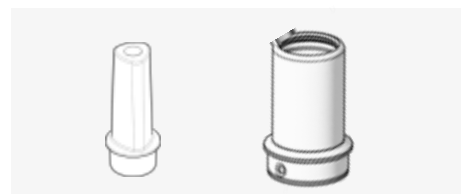**Central axis duo hybrid**
Art.-no. 105210
• Central axis and extension arm
• Extension arm length standard: 1,375mm / 1,525 mm

Central axis trio
Art.-no. 105300
• Central axis and extension arm
• Extension arm length standard: 775 mm / 925 mm / 1,075 mm

medifa handle standard (set of 5)
Art.-no. 104100
• Sterilisable handle

medifa handle camera (set of 5)
Art.-no. 104200
• Sterilisable handle camera

medifa

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 mobile operating tables, operating table accessories and operating lights, right up to examination chairs 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 pl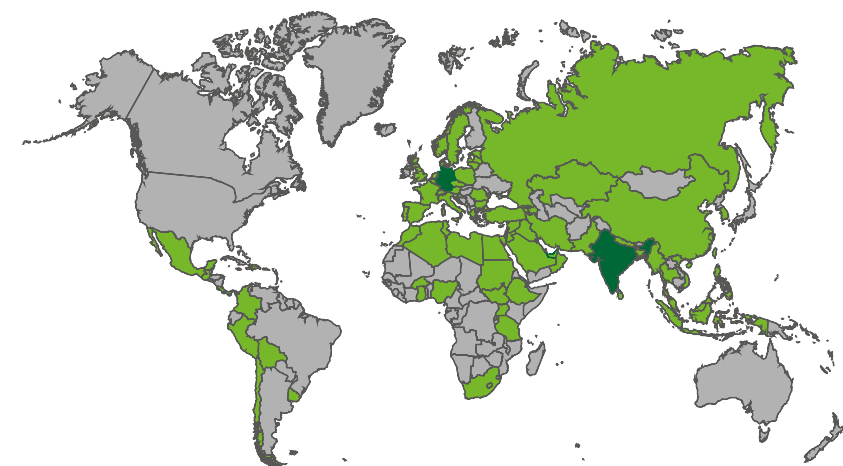anning, engineering and production take place exclusively in Germany, and with over 90% added value in the group of companies, the group guarantees fast reaction times.

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: walls, doors, ceilings and cabinets (RooSy)

• Mobile operating tables and accessories

• Operating lights

• Examination and treatment chairs

• Medical furniture and trolleys

• Customized medical solutions

medifa worldwide

we care.

medifa
the medical factory

Made in Germany

we care. Code

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ISO 9001
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ISO 13485
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