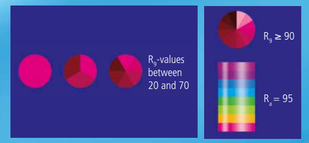
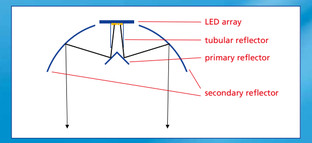
Advantages of the Mach LED 200



Conventional light systems

Dr. Mach light system



Mach LED 200 OT-light

Light quality and optics

Superiour colour rendition

With colour rendering indexes R_a above 95 and R_9 (red) above 90 the surgeon recognizes clearly the tiniest nuances of colour in tissue. The colour rendering index for SC models is $R_a = 95$. For recognizing the exact colour spectrum of the wound the exact rendition of the red colour range is essential. R_9(red) ≥ 90 means for the surgeon a visibly better recognition of details. The colour spectrum of the wound is rendered naturally with rich contrast. The OT-light clearly provides welcome relief for your eyes.

LED Array with three-reflector-system

An optimized alignment of three reflectors (tubular reflector, primary reflector and secondary reflector) produces a directional guidance of the light beams created by a special LED Array.
This guarantees homogeneity, reduces the shadiness in the light field and increases the contrast effect of the LED-light. Light intensities of 125.000 Lux can be attainde without difficulty.

Focussing

By turning of the adjustment ring at the sterilizable handle the bulbs are moved inside the reflector up and down. The focussable light beam allows a punctual illumination of deepest wound channels with hight intensity and an exact matching of the light field diameter with the size of the wound field.

Additional comfort

Cool light

The LED technology is much more effective than conventional light sources such as halogen bulbs. The heat radiation is reduced to a minimum without using any expensive filter technique. The temperature increase in the surgeon's head area is almost nonexistent.

Flow properties

During development high attention was paid to the performance of the new LED OT-lights in laminar-flow ceiling systems.

Easy maintenance

With only a few steps the lamp housings can be opened to have access to all system components. Due to the module technology all components can be easily exchanged. The housings are easy to clean.

Mach LED 200

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Dr. Mach
Medical lighting
+Technology

Mach LED 200

Small operating light system with LED technology

LED OT-LIGHTS

Mach LED 200 small operating light

Mach LED 200 F / LED 200
125.000 Lux / 100.000 Lux

Handy small operating light with the optional advantage of focussing

Mach LED 200 with cardanic bow (against surcharge), ceiling fixation

Mach LED 200 with ceiling fixation and central spring arm for room height < 2,60 m

Mach LED 200 with wall fixation

Mach LED 200 mobile with four castors (optionally with emergency power supply)

Performance description

Mach LED 200

Superior colour rendition

LED Array with three-reflector-system

Cool light

Optimum flow properties

Easy maintenance

Mach LED 200 F

Additionally to the advantages of the Mach LED 200:

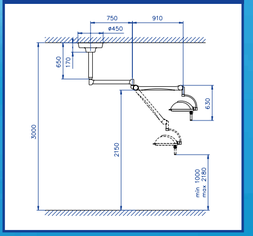
Focussing

Handling

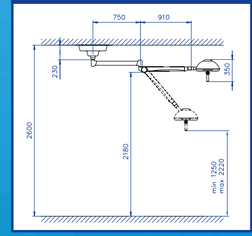
2 functions via touch panel:

- on/off
- light intensity control

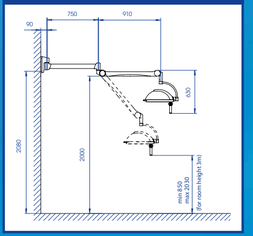
Ceiling fixation



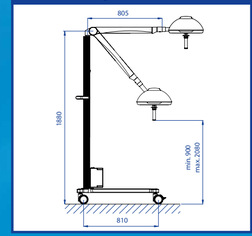
Ceiling fixation with central spring arm



Wall fixation



Mobile light with four castors



Dimensions in millimeter

Technical Data Mach LED 200 light system[1]	Mach LED 200 F[2]	Mach LED 200[3]
Light intensity in Lux at 1 meter distance	125.000	100.000
Colour rendering index R_a[4]	95	95
Colour rendering index R_9[5]	≥ 90	≥ 90
Focussable light field size (in cm)	14 - 26	17 (fixed focus)
Colour temperature (Kelvin)	4500	4500
Electronic light intensity control at the lamphead	50 - 100%	50 - 100%
Temperature increase in the head area	0,5° C	0,5° C
Total power consumption	40 W	40 W
Light source LED	16	16
Diameter of light head (in cm)	38	38
Working distance (in cm)	70 - 140	70 - 140
Height adjustment (in cm)	118	118

(1) external power supply
(2) F-models with focussing
(3) models with fixed focus
(4) R_a is an average of R_1 = burnt pink, R_2 = mustard yellow, R_3 = yellow green, R_4 = light green, R_5 = turquoise blue, R_6 = skyviolet, R_7 = violet, R_8 = lilac. Maximum value = 100.
(5) R_9 is the value for the rendering of the colour red. This is not used in calculating the general colour rendering index R_a. The values for conventional operating lights are between 20 and 70. Maximum value = 100. Values of more than 90 allow the surgeon to recognise details better in the wound area.