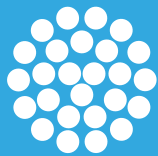




**Dr. Mach**  
medical lighting+technology

## Mach LED 150

Small operating light system with LED technology





### Small operating light Mach LED 150FP / 150F / 150

**Ceiling model** incl. ceiling fixation

**Wall model** incl. wall fixation

**Mobile model** on four feet mobile stand

#### Technical Data (1)

##### Mach LED 150 light system

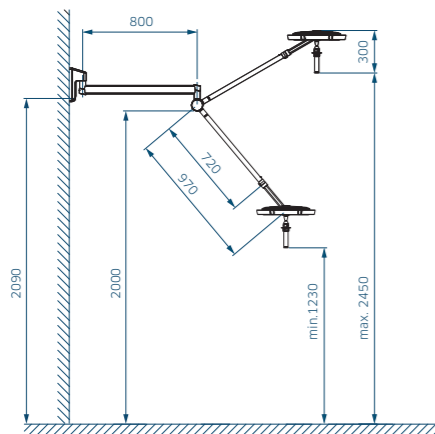
Light intensity at 1 meter distance  
 Colour temperature  
 Colour rendering index R<sub>a</sub> (4)  
 Focussable light field size  
 Working distance  
 Diameter of light head  
 Temperature increase in the head area  
 Electronic light intensity control at the lamphead  
 Light source LED  
 Life-span of the LEDs  
 Total power consumption

Mach LED 150FP (2)	Mach LED 150F (2)	Mach LED 150 (3)
130,000 lux	110,000 lux	110,000 lux
4,500 kelvin	4,500 kelvin	4,500 kelvin
96	96	96
17 - 24 cm	18 - 25 cm	19 cm
70 - 140 cm	70 - 140 cm	70 - 140 cm
40 cm	40 cm	40 cm
0.5 °C	0.5 °C	0.5 °C
standard	standard	standard
26	26	26
60,000 h	60,000 h	60,000 h
35 W	35 W	35 W

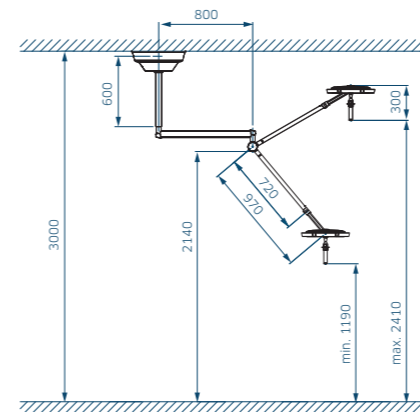
(1) Further technical details in the data sheet of the lamp, available upon request.  
 (2) F-models with focussing  
 (3) model with fixed focus  
 (4) Ra is an average of R<sub>1</sub> = burnt pink, R<sub>2</sub> = mustard yellow, R<sub>3</sub> = yellow green, R<sub>4</sub> = light green, R<sub>5</sub> = turquoise blue, R<sub>6</sub> = skyviolet, R<sub>7</sub> = violet, R<sub>8</sub> = lilac. Maximum value = 100.



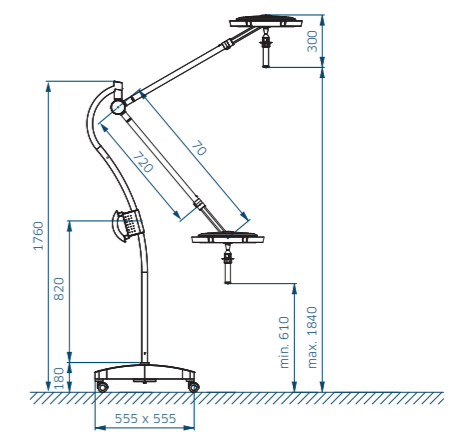
Wall fixation



Ceiling fixation



Mobile light with four castors





## Dr. Mach LED Technology

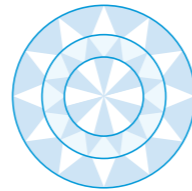
### Superiour colour rendition

With an outstanding colour rendering index  $R_a = 96$  the surgeon recognizes clearly the tiniest nuances of colour in tissue. The colour spectrum of the surgical field is rendered naturally with rich contrast. The OT-light clearly provides welcome relief for your eyes.



### Facetted multi-lens system

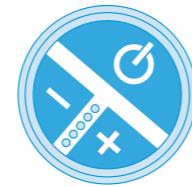
Several computer-calculated facetted lenses guarantee homogeneity and lowest shadiness in the light field. Separately arranged optical systems, each with one LED module, generate their own light field, which increases the contrast effect. Light intensities up to 130,000 lux can be attained without difficulty.



### Control panel on the light housing

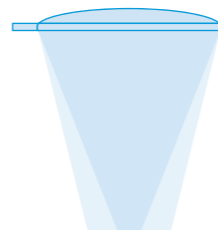
The following light functions can be controlled on the light housing:

- Switching on / off (mechanical)
- Electronic brightness control



### Focussing (optional)

The light field can be focused by turning the handle. The focussable light beam allows a punctual illumination of deepest wound channels with light intensity and an exact matching of the light field diameter with the size of the wound field.



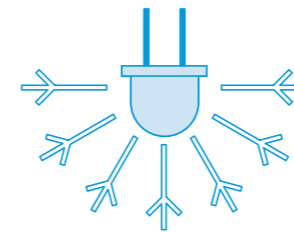
### Handling

During development high attention was paid to easy handling and high ease of maintenance. Furthermore the flow-enhancing ring form and the minimal surface avoid any heat increase in the surgeon's head area and create a perfect laminar flow performance. The light can be positioned exactly to the wound field.



### Long life-span/low power consumption

The life-span of more than 60,000 operating hours reduces the costs for exchanging and replacing the illuminants considerably, compared with the conventional halogen technology used with former OT-lights. By implementation of the LED technology the power consumption could be reduced with more than 50% to conventional halogen lights.



### Cool light

The LED technology is much more efficient 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 imperceptible.

---

**Dr. Mach GmbH & Co. KG**

Floßmannstraße 28  
85560 Ebersberg  
Germany

Phone: +49 (0) 8092 / 20 93-0

Fax: +49 (0) 8092 / 20 93-50

E-mail: [info@dr-mach.de](mailto:info@dr-mach.de)

Please visit our website [www.dr-mach.de](http://www.dr-mach.de)