Dr. Mach
medical lighting + technology

Mach LED 300 DF

OT-light with LED technology

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Options:

140.000 Lux (1 m distance)

160.000 Lux (1 m distance with spot)

Camera preparation

Technical data (1)

Mach LED 300 OT-light system (2)

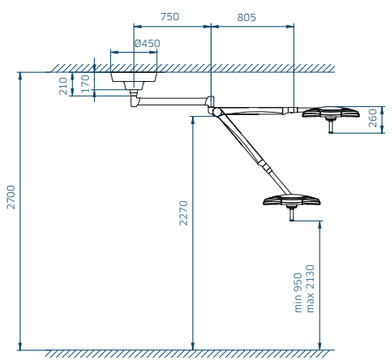
	DF	DF SPOT
Light intensity Lux	140.000	160.000
Colour temperature (Kelvin)	4500	4500
Colour rendering index R_a(3)	95	95
Focussable size of the light field (in cm)	14 – 28	14 – 28
Working distance (in cm)	70 – 140	70 – 140
Diameter of the lamp head (in cm)	55	55
Temperature increase in head area	0,5 °C	0,5 °C
Electronic light intensity control	standard	standard
at the lamp head		
Number of LEDs	36	37
Life-span of the LEDs	60.000 h	60.000 h
Total power consumption	58 W	58 W

(1) Further technical details in the data sheet of the lamp, available upon request

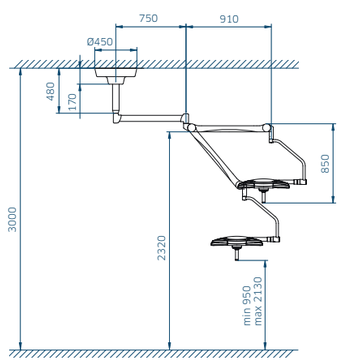
(2) External power supply

(3) 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.

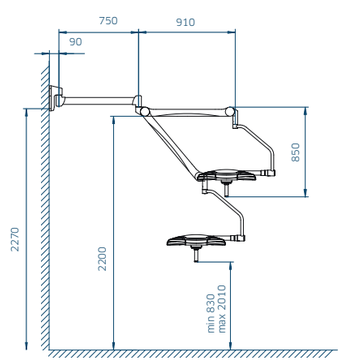
Ceiling fixation low ceiling



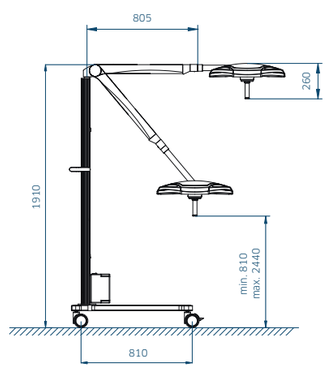
Ceiling fixation

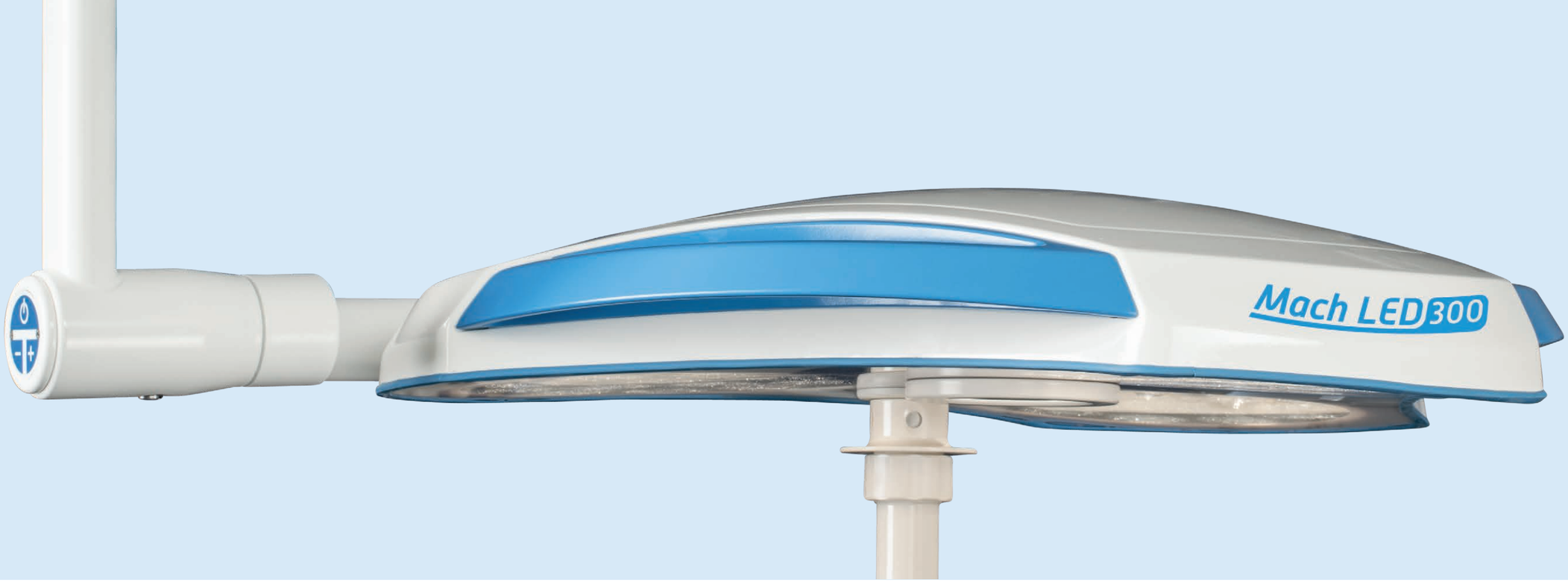


Wall fixation



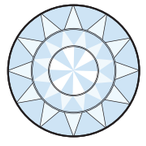
Mobile light





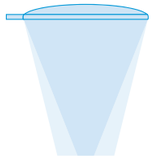
Superiour colour rendition
With colour rendering indexes R_a = 95 and R_9 (red) = 94 the surgeon recognizes clearly the tiniest nuances of colour in tissue. For recognizing the exact colour spectrum of the wound the exact rendition of the red colour range is essential. R_9 (red) = 94 means for the surgeon 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.

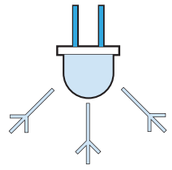
Facetted multi-lens system
A multitude of computer-calculated facetted lenses guarantees homogeneity and lowest shadiness in the light field. Separately arranged optical systems, with one LED module, generate their own light field, which increases the contrast effect of the OT-light.



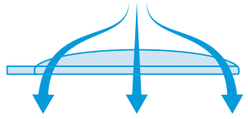
Merging of the individual luminous fields
By turning of the sterilizable handle the LED-clusters with 12 lenses each swivel. The single light fields can be joined and overlap to one field with increased light intensity.

Focussing
By turning of the adjustment ring at the sterilizable handle the light field diameter created by the single LED clusters can be varied. This 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 surgical requirement.



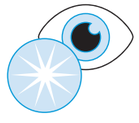


Cool light
The LED technology is much more effective than conventional light sources such as halogen bulbs. The heat radiation is reduced to a minimum without using any expensive filter technique. The temperature increase in the surgeon's head area is almost nonexistent.



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 their modularity all components can be easily exchanged. The housings are easy to clean.



Photobiological safety
The photobiological safety standard DIN EN62471 is met and so there is no risk for the human eye even during very long and intensive use of the OT light.

Dr. Mach GmbH & Co. KG
Flossmannstraße 28
D-85560 Ebersberg

Phone: +49 (0) 8092 / 20 93-0
Fax: +49 (0) 8092 / 20 93-50
e-mail: info@dr-mach.de

Please visit our website **www.dr-mach.de.**