

Data sheet



Support arm system
ACROBAT SWING



Support arm system
with height stop



Support arm system
with height stop and
full cardanic
suspension

Features

- User-friendly display keypad
- Electronic focussing (F)
- Light intensity control

Optional features

- Sterilisable handle - 200 sterilisation cycles

Technical data

Type of device	Examination light
Class (according to MDR)	I
IP protection class (IEC 60529)	IP 42
Temperature (for transport and storage) ¹	-25 °C to +70 °C
Relative humidity (for transport and storage) ¹	5 % RH to 95 % RH
Air pressure (for transport and storage) ¹	700 hPa to 1060 hPa
Operating time	Continuous operation possible
Weight of light body incl. accessories	max. 2.4 kg
Expected life ²	10 years

¹ Transport and storage conditions for lamp body and power supply unit.

² At the end of the expected (designed) service life, the lamp must be serviced more frequently for safe operation.

Lighting technical data

	Mach LED 130F	Mach LED 130	Mach LED 130 Plus
Central light intensity (Distance 1 m)	70,000 Lux	60,000 Lux	100,000 Lux
Light field diameter d10	134 mm	142 mm	123 mm
Light field diameter d50	67 mm	73 mm	64 mm
Residual light intensity with one shade	0 %	0 %	0 %
Residual light intensity with two shades	42 %	53 %	50 %
Residual light intensity on the ground of a normed tube	100 %	100 %	100 %
Residual light intensity on the ground from a standardised lens barrel and a shadower	0 %	0 %	0 %
Residual light intensity on the ground of a standardised tube and two shadowers	42 %	53 %	50 %
Illumination depth 20 %	1664 mm	1790 mm	1680 mm
Illumination depth 60 %	595 mm	775 mm	654 mm
Colour rendering index R _a (type)	96	96	96
Colour rendering index R ₉ (type)	94	94	94
Colour rendering index R ₁₃ (type)	97	97	97
Max. radiation strength in the field (distance 1 m)	258 W/m ²	234 W/m ²	366 W/m ²
Max. radiation strength in the field (distance 0.91)	270 W/m ²	-	-
Max. radiation strength in the field (distance 0.85)	-	252 W/m ²	-
Max. radiation strength in the field (distance 0.88)	-	-	377 W/m ²
Relation E _e / E _c	3,69 (mW/m ²) /lx	3,9 (mW/m ²) /lx	3,66 (mW/m ²) /lx
Focusable light field size	13 - 19 cm	14 cm (fixed focus)	17 cm (fixed focus)
Colour temperature (Kelvin)	4500	4500	4500
Temperature increase in the head range	0.5 °C	0.5 °C	0.5 °C
Luminous efficacy (efficiency)	271 lm/W	256 lm/W	273 lm/W
Number of LEDs	19	19	19
Working distance	70 - 140 cm	70 - 140 cm	70 - 140 cm
Dimming range (%)	50 - 100	50 - 100	50 - 100
Dimming levels	5	5	5
Diameter of light body	33 cm	33 cm	33 cm
Life-span of LEDs (hours)	60,000	60,000	60,000
Height adjustment	123 cm	123 cm	123 cm

All technical data are subject to certain fluctuations. For production reasons, the actual values have a tolerance of ± 5%.

The values for the colour temperature can have deviations of ± 200 K.

Electrical data

Protection class/-type	I
Input voltage	24 V DC
Power consumption	16 W
Current consumption	0.7 A max.

Mains power supply 60 W

Input voltage (primary)	100-240 V AC, 50/60 Hz
Current consumption (primary)	1.5 A max.
Output voltage (secondary)	24 V DC
Output power (secondary)	60 W

**Mains power supply 40 W
(mobile version)**

Input voltage (primary)	100-240 V AC, 50/60 Hz
Current consumption (primary)	1.2 A max.
Output voltage (secondary)	24 V DC
Output power (secondary)	40 W

Mechanical data

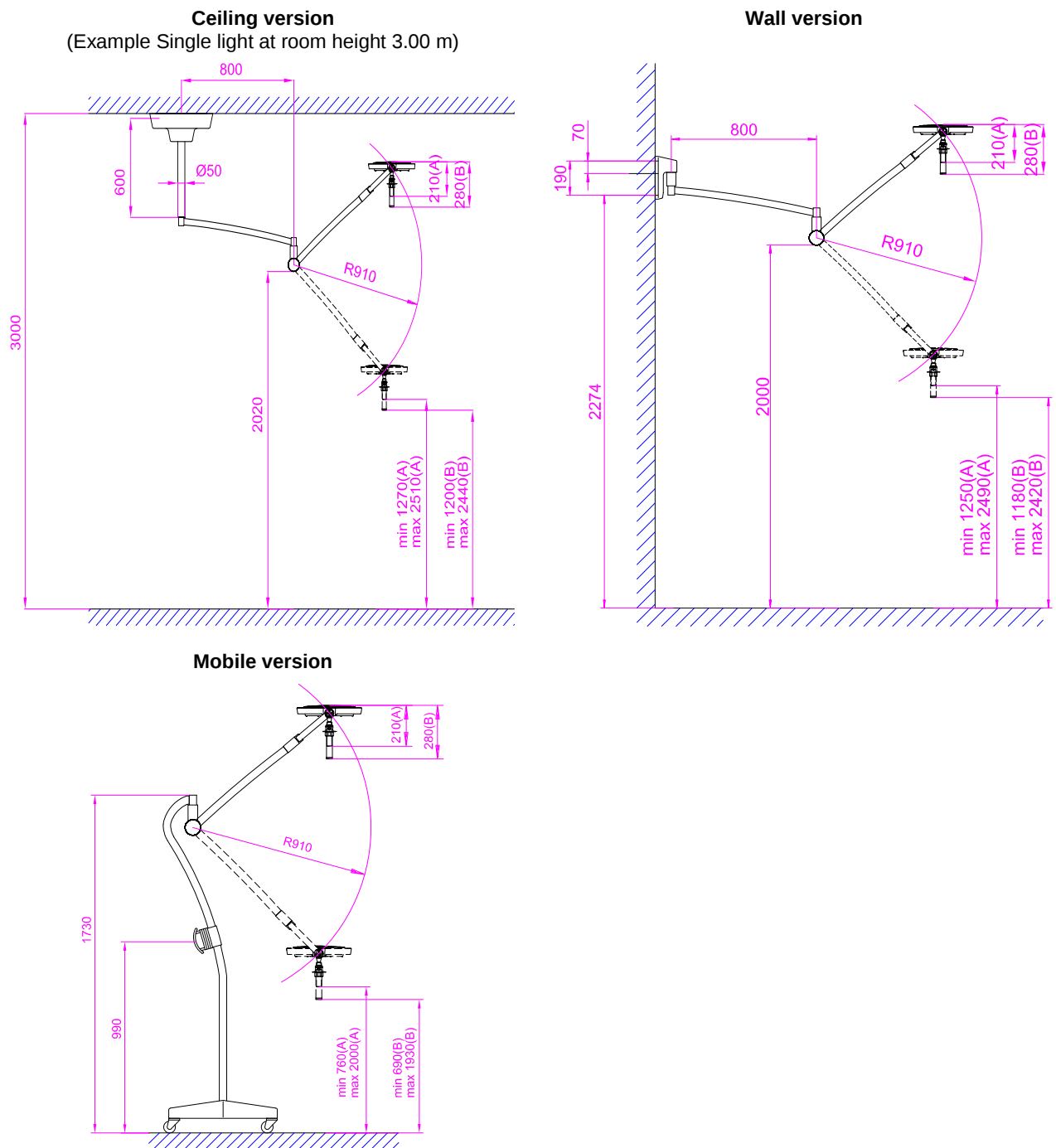
Joints on cardanic bows rotatable by 430° ($\pm 215^\circ$), on spring arm > 360° without stop Rotatability on ceiling tube/flange tube of single suspension: > 360° without stop Rotatability on 2-fold standard axis: - Lower mounting pin : > 360° without stop - Upper mounting pin : 300° ($\pm 150^\circ$) Rotatability on stand tube of mobile stand: 60° ($\pm 30^\circ$) Height adjustment: - Spring arm Swing: 1230 mm - Spring arm Acrobat 2000: 1180 mm
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Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 130/130F/130 Plus with standard handle (A)	2570 mm	2570 mm
Mach LED 130/130F/130 Plus with sterilisable handle (B)	2570 mm	2570 mm

Technical drawings

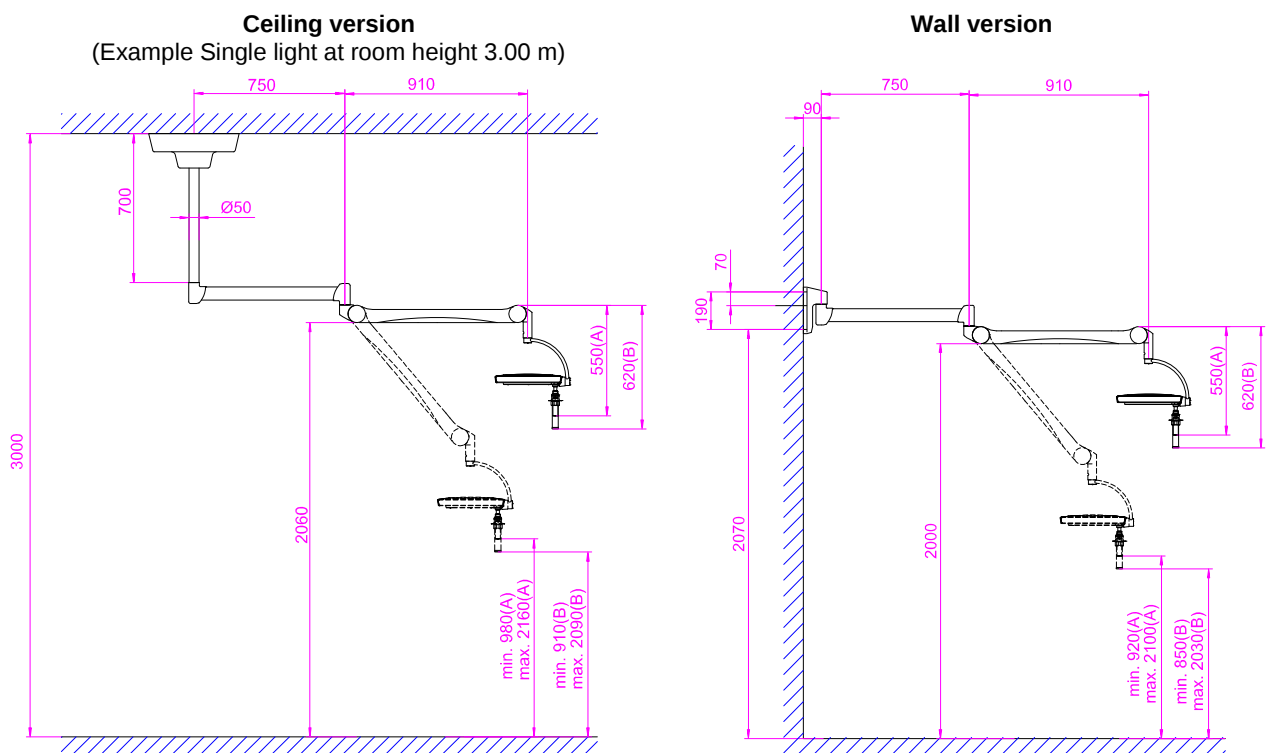


Support arm system with height stop and option for full cardanic suspension

Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 130/130F/130 Plus with standard handle (A)	2570 mm	2570 mm
Mach LED 130/130F/130 Plus with sterilisable handle (B)	2640 mm	2640 mm

Technical drawings

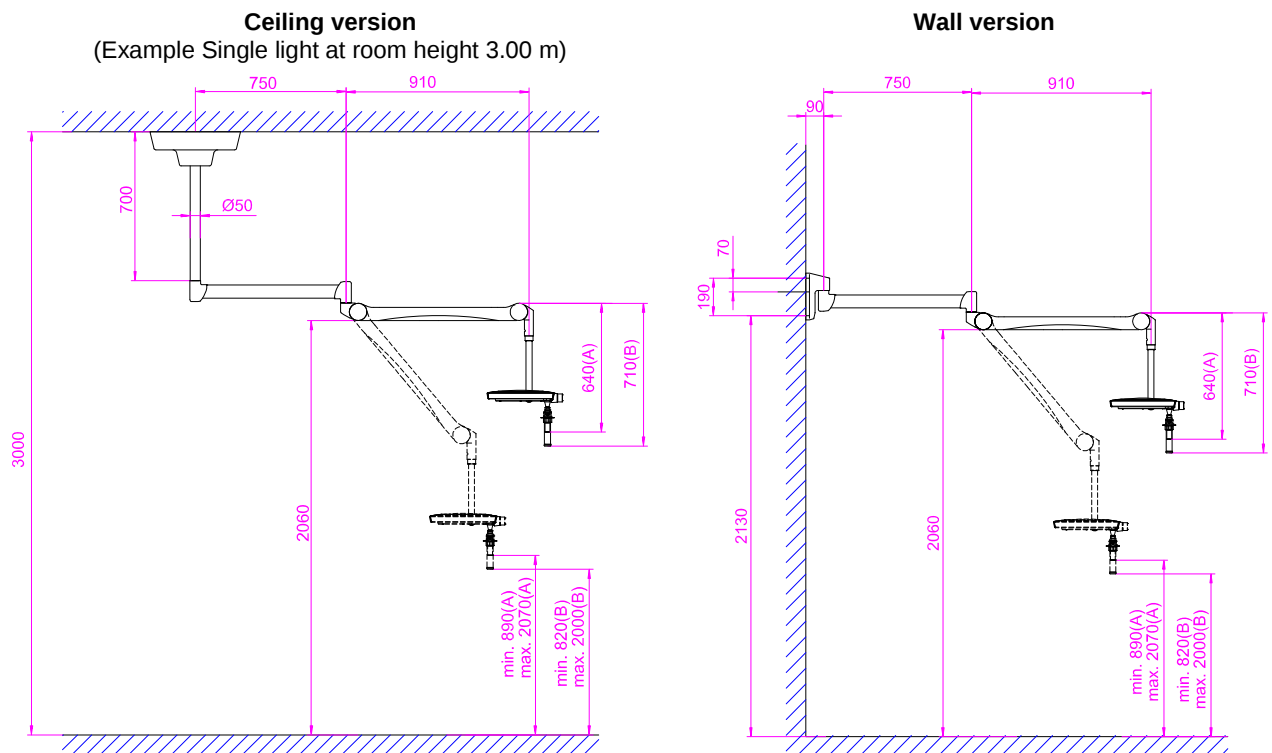


Support arm system with height stop and full cardanic suspension

Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 130/130F/130 Plus with standard handle (A)	2660 mm	2660 mm
Mach LED 130/130F/130 Plus with sterilisable handle (B)	2730 mm	2730 mm

Technical drawings



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Subject to technical modification

