

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. 1.9 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 120F	Mach LED 120
Central light intensity (Distance 1 m)	50.000 Lux	40.000 Lux
Light field diameter d10	132 mm	146 mm
Light field diameter d50	69 mm	75 mm
Residual light intensity with one shade	0 %	0 %
Residual light intensity with two shades	61 %	57 %
Residual light intensity on the ground of a normed tube	100 %	100 %
Residual light intensity on the ground of a normed tube with one mask	0 %	0 %
Residual light intensity on the ground of a normed tube with two masks	61 %	57 %
Illumination depth 20 %	1802 mm	1635 mm
Illumination depth 60 %	987 mm	863 mm
Colour rendering index R _a (type)	96	96
Colour rendering index R ₉ (type)	93	91
Colour rendering index R ₁₃ (type)	98	97
Radiation strength in the field (distance 1 m)	216 W/m ²	150 W/m ²
Maximum radiation strength (distance 0.82 m)	245 W/m ²	173 W/m ²
Relation E _e / E _c	3,72 (mW/m ²) /lx	3,75 (mW/m ²) /lx
Focusable light field size	13 - 18 cm	15 cm (Fixfokus)
Colour temperature (Kelvin)	4500	4500
Temperature increase in the head area	0,5 °C	0,5 °C
Luminous efficacy (efficiency)	269 lm/W	267 lm/W
Number of LEDs	12	12
Working distance	70 - 140 cm	70 - 140 cm
Dimming range (%)	50 - 100	50 - 100
Dimming levels	5	5
Diameter of light body	29 cm	29 cm
Life-span of LEDs	60.000	60.000
Height adjustment	121 cm	121 cm

All technical data are subject to certain fluctuations. For production reasons, the actual values have a tolerance of $\pm 10\%$.

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

Electrical data

Protection class/-type	I
Input voltage	24-30 V DC
Power consumption	9 W
Current consumption	0.4 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

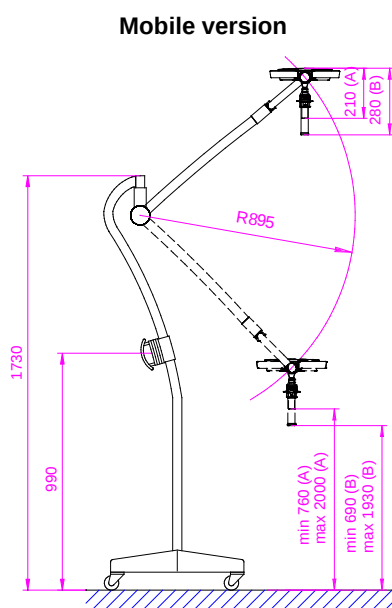
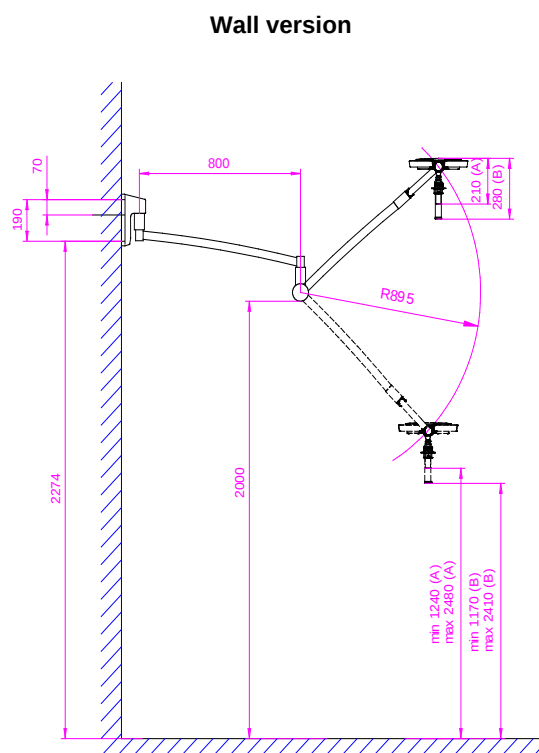
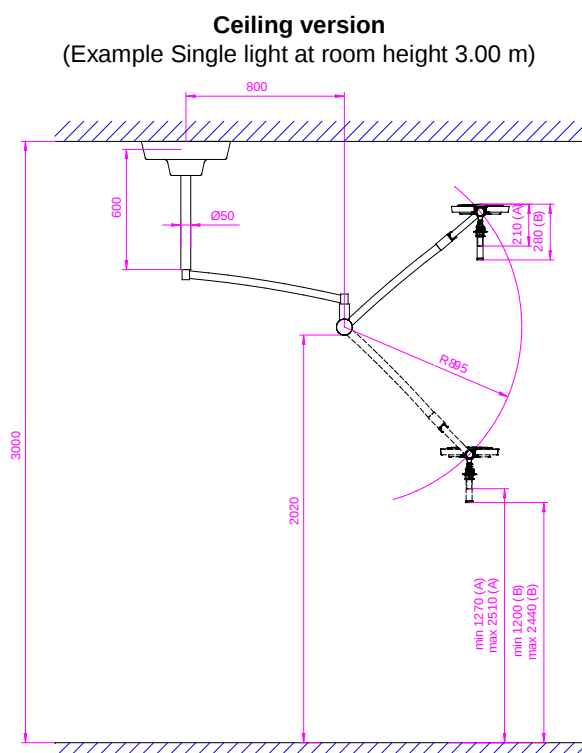
Joints on cardanic bows rotatable by 430° ($\pm 215^\circ$), on spring arm > 360° without stop Rotatability on ceiling tube/flange tube of single suspension: > 360° without stop Rotatability on 2-fold standard axis: - Lower mounting pin : > 360° without stop - Upper mounting pin : 300° ($\pm 150^\circ$) Rotatability on stand tube of mobile stand: 60° ($\pm 30^\circ$) Height adjustment: - Spring arm Swing: 1210 mm - Spring arm Acrobat 2000: 1180 mm
--

Support arm system ACROBAT SWING

Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 120 / 120F with standard handle (A)	2550 mm	2550 mm
Mach LED 120 / 120F with sterilisable handle (B)	2550 mm	2550 mm

Technical drawings

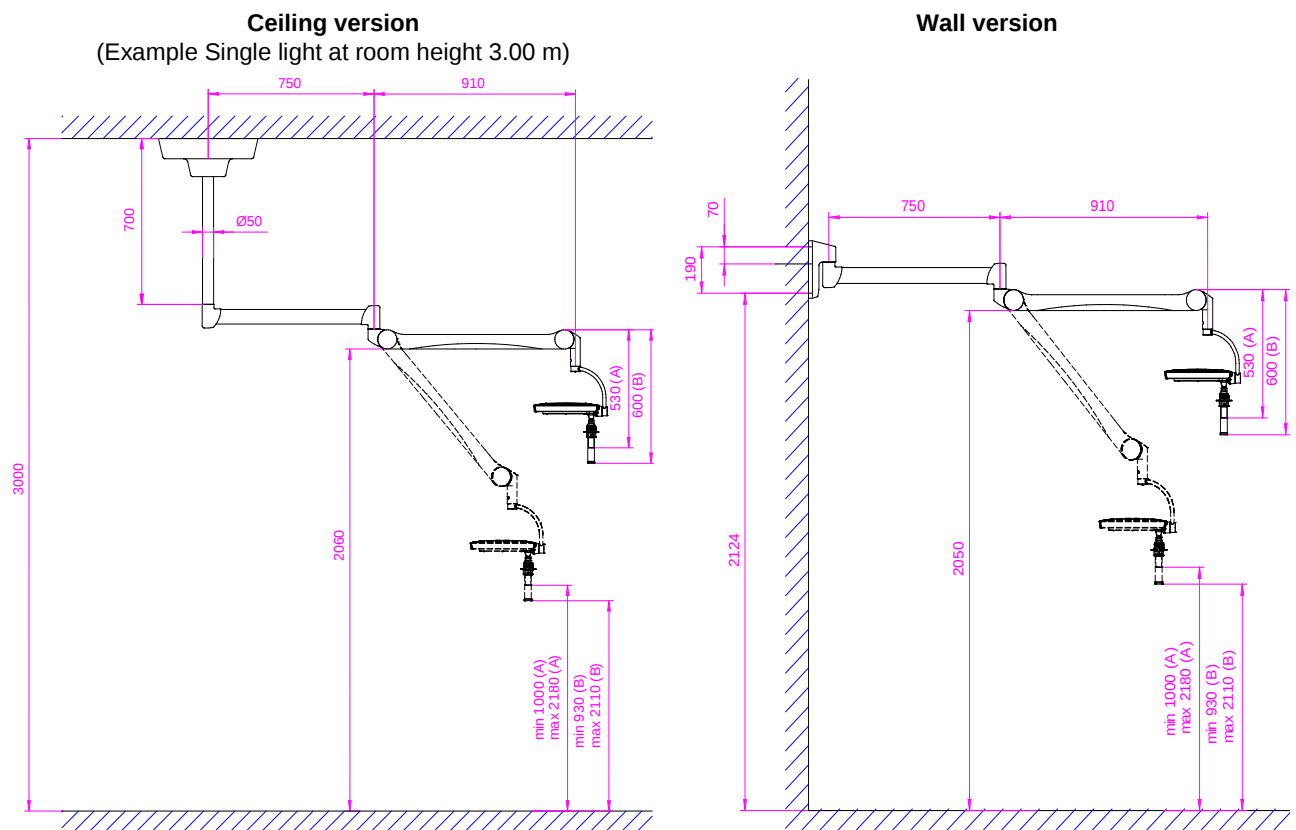


Support arm system with height stop and option for full cardanic suspension

Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 120 / 120F with standard handle (A)	2560 mm	2560 mm
Mach LED 120 / 120F with sterilisable handle (B)	2630 mm	2630 mm

Technical drawings

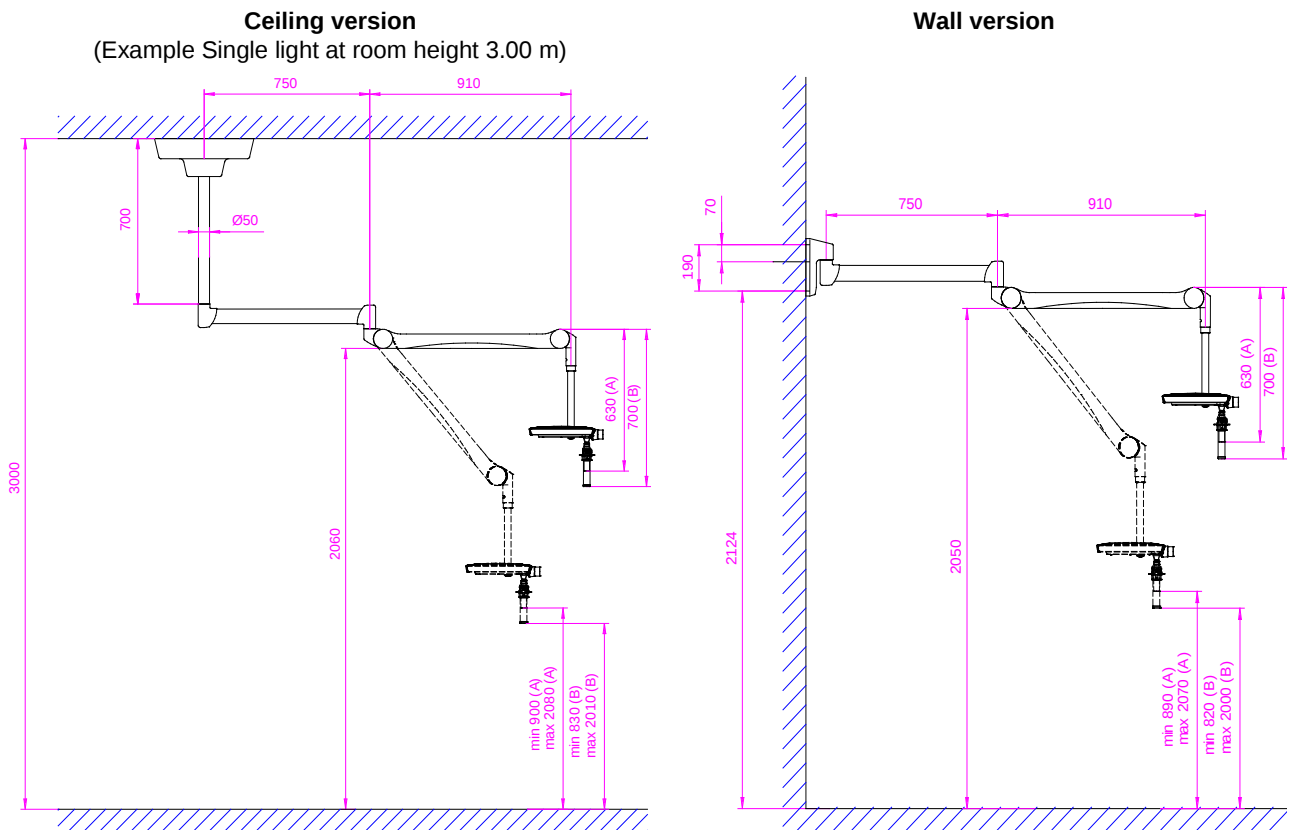


Support arm system with height stop and full cardanic suspension

Minimum clear room height for single light

Light body	Ceiling version	Wall version
Mach LED 120 / 120F with standard handle (A)	2660 mm	2660 mm
Mach LED 120 / 120F with sterilizable handle (B)	2730 mm	2730 mm

Technical drawings



Dr. Mach GmbH & Co. KG
 Flossmannstrasse 28
 85560 Ebersberg, GERMANY

Tel.: +49 (0)8092 2093 0
 Fax +49 (0)8092 2093 50

Internet: www.dr-mach.de
 E-Mail: info@dr-mach.de

Subject to technical modification

