

THE SPIRIT OF EXPERTISE



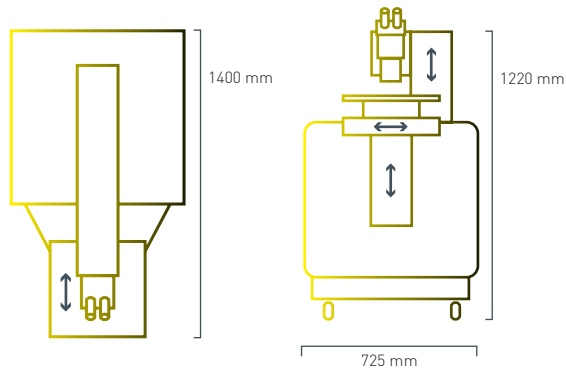
SIDANUS LIGHT

FLASH LAMP-PUMPED, STATIONARY SYSTEMS OF 60 TO 500 WATTS

As a classic stationary laser welding system, this series offers all the advantages of a compact four-axis system (x, y, z, c). You can choose between the individually adjustable operating modes manual, semi-automatic and fully automatic, which make the system suitable for a large number of specific applications - e.g. in tool and mould making or in medical technology.

The automation options are modular and can be implemented later if required.





Schematic representation of the possible axis movements.

SIDANUS LIGHT: TECHNICAL DATA

Mittlere Leistung Mean power	60 W	120 W	160 W	220 W	330 W	420 W	500 W
Nd:YAG-Laser	Wellenlänge 1064 nm Wavelength 1064 nm						
Max. Pulsenergie Max. pulse energy	60 J	80 J	100 J	120 J	140 J	150 J	170 J
Pulsspitzenleistung Pulse peak power	6 kW	9 kW	13 kW	13 kW	13 kW	13 kW	13 kW
Pulsdauer Pulse duration	0,5–20 ms	0,5–20ms	0,5–50 ms	0,5–50 ms	0,5–50 ms	0,5–50 ms	0,5–50 ms
Pulsfrequenz Repetition rate	0,5–20 Hz	0,5–20 Hz	0,5–20 Hz	0,5–20 Hz	0,5–40 Hz	0,5–40 Hz	0,5–40 Hz
Fokus-Durchmesser Focus diameter	0,2–2,0 mm						
Fokus-Änderung Beam expander	motorisch motorized						
Pulsformung Pulse shaping	nein no	ja yes	ja yes	ja yes	ja yes	ja yes	ja yes
Blitzlampen Flashlamp	1	2	2	2	2	2	2
Programmspeicher Memory function	50 Speicherplätze (erweiterbar auf 100) 50 storage places (upgradeable to 100)						
Beobachtungsoptik Controlling optics	Leica Binokular mit Brillenträgerokularen Leica Binocular with large oculars						
Gewicht Weight	210 kg	250 kg	250 kg	300 kg	400 kg	425 kg	425 kg
B x L x H W x l x h	725 x 1400 x 1220 mm						
Verfahrweg (X, Y, Z) Traverse path	200 x 200 x 300 mm						
Bearbeitbare Bauteilhöhe Component height to be machined	max. 450 mm						
Netzspannung Supply voltage	380 V / 3 Ph / 50 Hz						
Kühlsystem Cooling system	Wasser/Luft integriert water/air integrated				Wasser/Luft extern water/air external		

Products and specifications listed in this factsheet are subject to change without prior notice.

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