THE SPIRIT OF EXPERTISE

SIGMA LASER

SINEO LIGHT

FLASH LAMPPUMPED, MOBILE SYSTEMS OF 220 TO 500 WATTS - INCLUDING SUPER PULSE TECHNOLOGY

This modular laser welding system was specially developed for deposition welding of large tools (up to 25 tons).

UNBEATABLE RANGE

Thanks to their long reach of up to 1,830 mm radius and the long travel path of the individual axes, the systems of this series offer a high level of flexibility in the repair of components – regardless of size or geometry.



THE SPIRIT OF EXPERTISE

SIGMA LASER

JOYSTICK SIGOMAX

THE ULTIMATE JOYSTICK THAT MERGES PRECISION, COMFORT, AND CONTROL FOR UNMATCHED LASER WELDING PERFORMANCE

Introducing Sigomax – the pinnacle of precision and control in laser welding. Designed to be an extension of your hand, Sigomax offers unparalleled accuracy, comfort, and responsiveness.

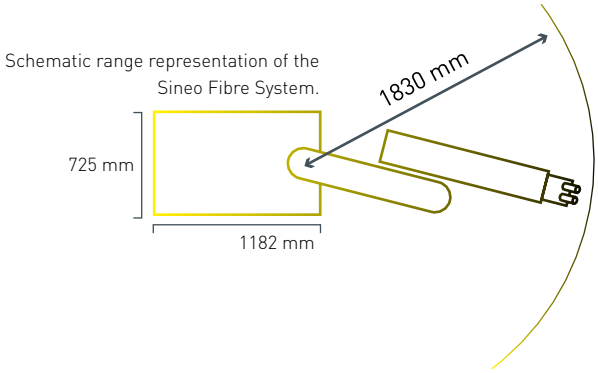
UNBEATABLE PERFORMANCE

Elevate your efficiency with the ultimate joystick, engineered to push the boundaries of performance and workflow.

- 6 programmable buttons
- Axis speed separately regulated
- Padded leather hand rest
- 3.5 inch touch screen display
- User profile for push button customization



SIGMA LASER



SINEO LIGHT : TECHNICAL DATA

Mittlere Leistung Mean power	**220 W**	**330 W**	**420 W**	**500 W**
Nd: YAG-Laser	Wellenlänge 1064 nm		Wavelength 1064 nm	
Max. Pulsenergie Max. pulse energy	120 J	140 J	150 J	170 J
Pulsspitzenleistung Pulse peak power	13 kW	13 kW	13 kW	13 kW
Pulsdauer Pulse duration	0,05–50 ms	0,05–50 ms	0,05–50 ms	0,05–50 ms
Pulsfrequenz Repetition rate	0,05–20 Hz	0,05–40 Hz	0,05–40 Hz	0,05–40 Hz

Fokus-Durchmesser Focus diameter	0,2–2,0 mm			
Fokus-Änderung Beam expander	motorisch motor-driven			
Pulsformung Pulse shaping	ja yes	ja yes	ja yes	ja yes
Blitzlampen Flashlamp	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	350 kg	450 kg	475 kg	475 kg
B × L × H W × l × h	725 × 1182 × 1350 mm			
Verfahrweg (X, Y, Z) Traverse path	620 × 620 × 510 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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