

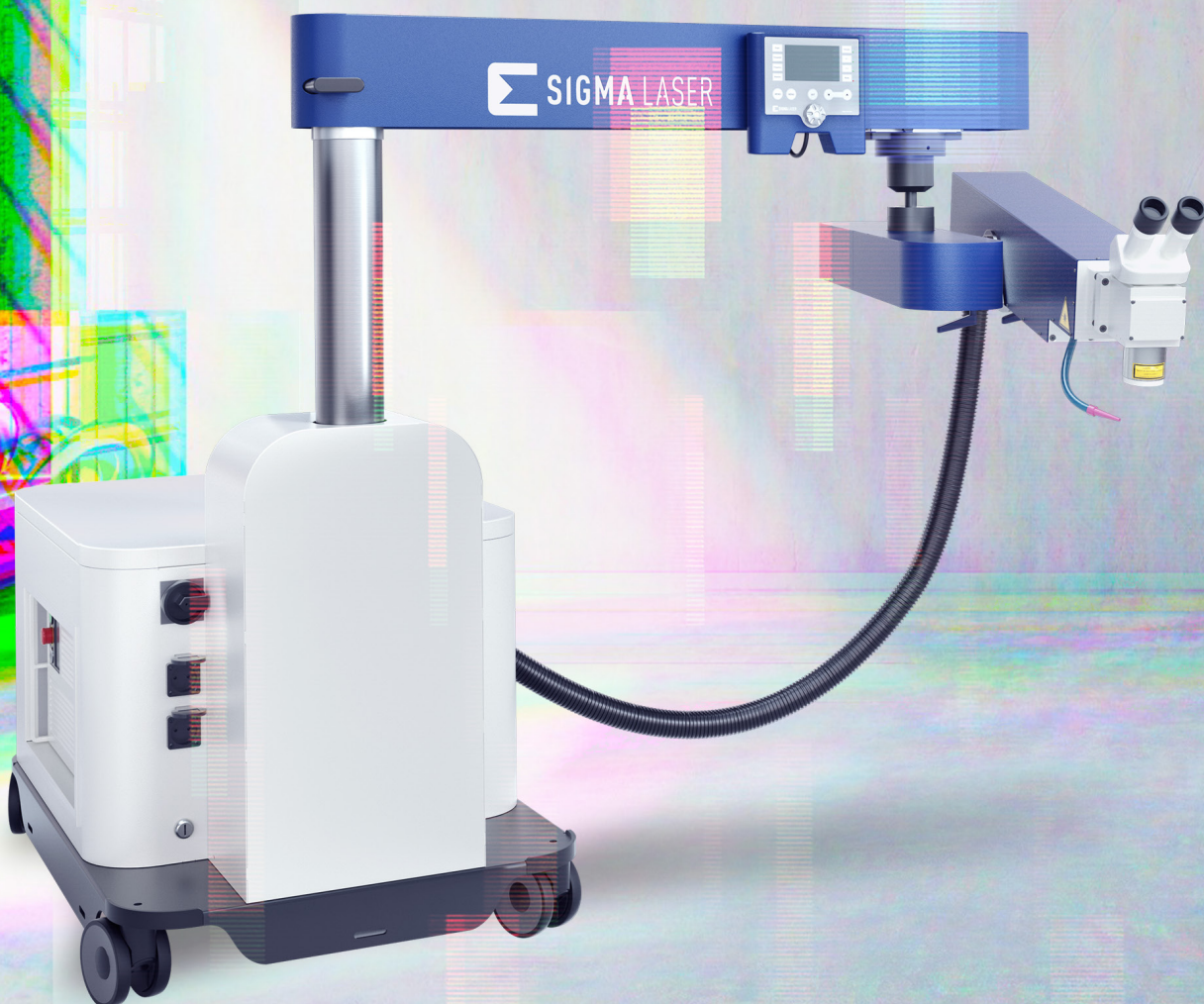
SIRIUS FIBRE

MOBILE SYSTEMS WITH FIBRE LASER FROM 300 TO 450 WATTS

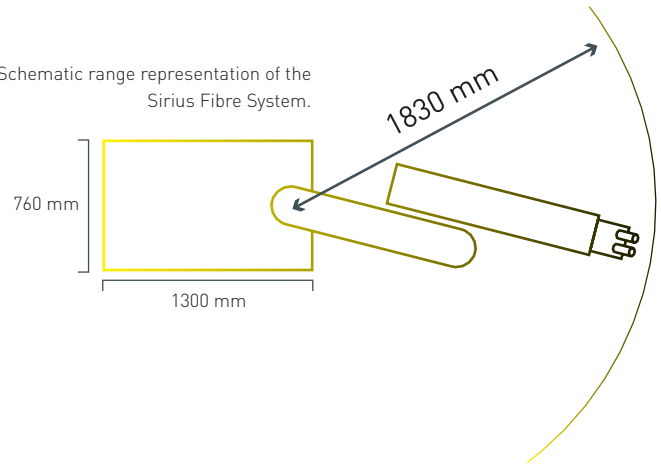
These energy-efficient systems combine flexibility with precision and are the first choice when welding large tools. They also have the proven modular concept developed by Sigma Laser and can therefore be flexibly retrofitted with additional options and adapted to individual requirements at any time.

PRECISION FOR SPECIFIC APPLICATIONS

Originally developed for tool and mould making and equipped with a virtually maintenance-free fibre laser, our mobile laser welding systems are now also being used successfully in other industries – e.g. in the aerospace, automotive or medical technology sectors.



Schematic range representation of the Sirius Fibre System.



SIRIUS FIBRE: TECHNICAL DATA

Mittlere Leistung Mean power	300 W	450 W
Ytterbium-Faserlaser Ytterbium fibre laser	Wellenlänge 1070 nm Wavelength 1070 nm	
Max. Pulsenergie Max. pulse energy	30 J	45 J
Betriebsmodus Operating mode	w / gepulst pulsed	
Pulsspitzenleistung Pulse peak power	3 kW	4,5 kW
Pulsdauer Pulse duration	0,05–50 ms	0,05–50 ms
Pulsfrequenz Repetition rate	bis up to 100 Hz	bis up to 100 Hz
Fokus-Durchmesser Focus diameter	0,1–2,0 mm	
Fokus-Änderung Beam expander	motorisch motor-driven	
Pulsformung Pulse shaping	nein no	
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	300 kg	
B × L × H W × L × h	760 × 1300 × 1200 mm	
Verfahrweg (X, Y, Z) Traverse path	600 × 600 × 450 mm	
Netzspannung Supply voltage	380 V / 3 Ph / 50 Hz	
Kühlsystem Cooling system	Luft/Luft integriert air/air intern	

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

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