



STARPULSE 40/90/150

STARPULSE – FOR LASER FINE WELDING

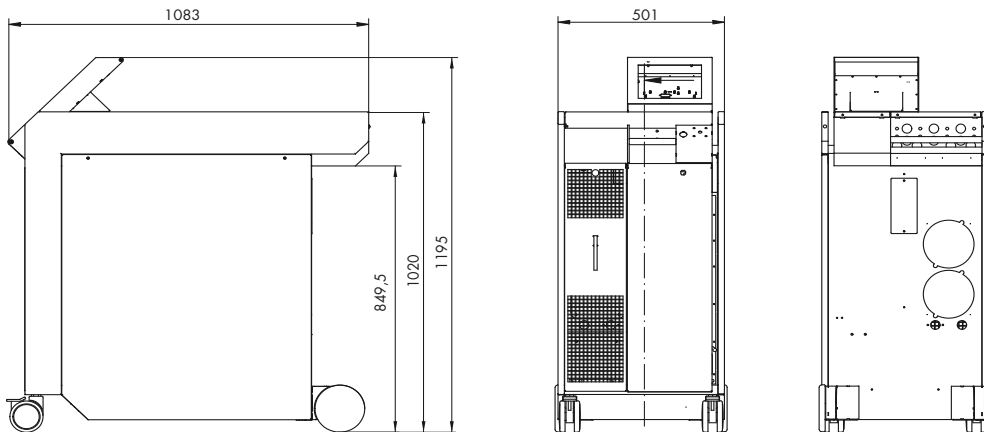
ROFIN's laser sources for welding satisfy all criteria for the optimized laser joining of workpieces. They allow very small seam geometries at very high welding speeds. The welded joints show maximum strength with minimal heat input to the workpieces. Our pulsed rod lasers feature a wide variety of innovations and unique technological characteristics.

Features

- 40 – 150 W
- Double Closed Loop™ power control
- Patented Sweet Spot Resonator®
- Flexible pulse shaping
- Real-time pulse display
- Convenient operator control
- Innovative ROFIN control unit (RCU)
- Complete solutions for fine welding applications



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Specifications

StarPulse		40	90	150
Wavelength	nm	1064		
Output power max.	W	40	90	150
Pulse energy max.	J	35	50	70
Pulse width (FWHM)	ms	0.3 – 20		
Pulse repetition rate min.	Hz	single pulse		
Pulse repetition rate max.	Hz	200		
Beam quality	M ²	25	35	45
Pulse peak power	kW	3.5	6	8
Beam divergence (full angle, for 400 µm fiber)	mrad	110	185	240
Optical fibre	µm	200 – 600	400 – 600	
Beam profile		top hat		
Environmental and Electrical Operating Conditions				
Supply voltage	VAC/A	230/16	400/16	
Line frequency	Hz	50/60		
Power consumption max.	kW	3	5	6
Weight power supply	kg	150	170	
Cooling		air	water	
	l/min (15°C)	–	3	7
	ext. water temp. range	–	12 – 18	
Operational temperature	°C	15 – 35	15 – 40	
Dimensions power supply	mm (L x W x H)	1100 x 520 x 1235		
Options				
Scannersystem		x	x	x
Pilotlaser		x	x	x
Camera view		x	x	x
Remote maintenance		x	x	x
Welding monitoring		x	x	x
Direct Beam		x	x	

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INHERENT LASER HAZARDS
 AVOID EYE OR SKIN EXPOSURE
 TO DIRECT OR SCATTERED
 RADIATION
 CLASS I LASER PRODUCT