

Laser Welding Machines Specification Sheet

Metal joining machines that focus high-energy laser beams to fuse edges, for workshops that need minimal distortion and precise control on complex geometries.

Mold Repair Cantilever Laser Welder

Parameter	Value
Model	WH-MW200 / WH-MW300 / WH-MW400 / WH-MW500
Laser Type	YAG
Wavelength	1064 nm
Max Output Power	200 W / 300 W / 400 W / 500 W
Max Single Pulse Energy	100 J / 110 J / 120 J / 140 J
Peak Power	8 KW / 12 KW / 18 KW / 24 KW
Max Pulse Frequency	<=30 Hz / <=30 Hz / <=40 Hz / <=50 Hz
Pulse Width	0.1-6 ms / 0.1-6 ms / 0.1-8 ms / 0.1-10 ms
Welding Depth	0.1-1.5 mm / 0.1-2 mm / 0.1-2.5 mm / 0.1-3 mm
Focal Diameter	0.3-3.0 mm
Laser Cavity	Ceramic Cavity / Metal Cavity
Xenon Lamp	Single Xenon Lamp / Dual Xenon Lamps
Vision System	10X Stereo Microscope + CCD Camera Display (optional)
Worktable Size	X:200 mm, Y:100 mm, Z:200 mm
Work Range	X:400 mm, Y:200 mm, Z:700 mm
Loading Ability	<=200 kg

Mold Repair Laser Welding Machine

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Focal Diameter	0.3-3.0 mm
Worktable Travel	X: 200 mm, Y: 100 mm, Z: 200 mm

Parameter	Value
Work Range	X: 400 mm, Y: 200 mm, Z: 700 mm
Loading Ability	<=200 kg
Power Supply	AC220V/50Hz-60Hz / AC380V/50Hz-60Hz

Automatic Laser Welding Machine

Parameter	Value
Laser Power	1000w/1500w/2000w/3000w/4000w
Laser Wavelength	1080nm
Laser Material	Fiber
Beam-divergence Angle	<5mrad
Laser Energy Instability	<3%
Continuous Working	16hours
Pulse Width	0.05-50MS
Aiming and Positioning	Red Light Pointer in Welding Head
Welding software	CNC20000
Focus Length	150mm
Spot Diameter	0.4-1.0mm
Focus Range	30mm
Cooling system	Purity Water cooling
Input power	3 Phase, 380v±5%, 50Hz
Power rating	4kw/6kw/8kw/12kw/16kw
Machine dimension	1680*750*1720mm

3 in 1 Laser Welding Machine

Parameter	Value
Laser Power	1000 W / 1500 W / 2000 W / 3000 W
Laser Wavelength	1080 nm
Pulse Width	0.1-20 ms
Fiber Length	10 m
Adjusted Spot Range	0.1-5 mm
Minimum Welding Pool	0.1 mm
Gas Source	0.2 Mpa (Argon)
Laser Mode	Continuous
Operating System	Relfar system
Cooling Water Chiller	Industrial chiller
Functions	Welding, Cleaning, Cutting
Cleaning Width	80 mm
Working Voltage	220V±10%, 50/60Hz or 380V, 50/60Hz, 3P
Rated Power	4 kW / 6 kW / 8 kW / 12 kW
Machine Dimension	970 x 610 x 1110 mm
Package Dimension	1530 x 770 x 1340 mm

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Figures are the published machine data. Options and configurations are confirmed per order.