

YAG Laser Welders Specification Sheet

YAG mould repair welders for tool rooms that have to rebuild a worn cavity edge without pulling the mould apart or distorting it.

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

Parameter	Value
Model	WH-MW200 / WH-MW300 / WH-MW400 / WH-MW500
Max Output Power	200 W / 300 W / 400 W / 500 W
Laser Type	YAG
Wavelength	1064 nm
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
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

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