YAG Laser Handy Welder 400W NEW



ML-2550AM

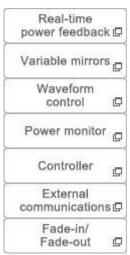
These handheld welders are easy to use and allow highquality laser welding to be performed with less burn and distortion.

Easy-to-handle "L-type" handy torch Anyone can easily perform YAG laser welding

Features

- YAG laser welding can be manually performed by using the "L-type" handy torch.
- Various metals (including stainless steel, mild steel, titanium, and some aluminum alloys) can be welded.
- The fast, repeated emission of the laser beam creates beautiful weld beads and eliminates clean-up.
- Up to 2.0 mm thick stainless steel sheets can be welded. *For welding thicker stainless steel sheets, contact AMADA MIYACHI.
- The handy torch is fitted with the safety function of automatically turning off the laser when it is moved off the workpiece.

Standard Features





- The torch is fully air cooled and constructed for high-efficiency discharge of the shielding gas from the tip.
- Various applications, including tack welding, correction, low-volume highmix products, prototypes, and welding of thin sheets with less burn-through distortion.

Handy torch

L-type and lightweight handy torch

High workability thanks to the lightweight, compact design with a "L-type" torch and a weight of 400g.

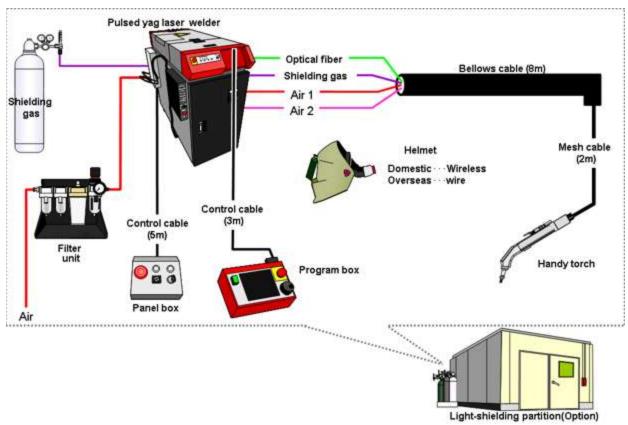


Example usage



Equipment layout block diagram





Applications

These welders can be used in various applications, such as temporary welding and modification during prototyping, high-mix low-volume production, mold repair, and cutting (optional nozzle required).



Specifications

[Handy torch]

Model		ML-2550AM
Oscillation wavelength		1064nm
Laser output	Maximum rated output	400W
	Maximum energy	80J/P
	Peak power	8kW
Pulse repetition rate		1~500pps
Fiber type		SI type Φ0.6mm
Fiber optic delivery		4-power sharing / 4-time sharing *
Torch	Shape	L-type
	Cooling method	Air cooled
	Spot diameter	(1) : $\Phi 0.9$ mm, (2) : $\Phi 0.8$ mm, (3) : $\Phi 0.7$ mm
Dimensions	Laser oscillator	530(W)×1347(D)×1170(H)mm
	L-type handy torch	①: 309mm, ②: 300mm, ③: 296mm
	Controller	63(W)×320(D)×330(H)mm
	Relay box	80(W)×270(D)×450(H)mm
	Panel box	150(W)×120(D)×80(H)mm
Weight	Laser oscillator	Approx. 400kg (AC200V,220V,240V) Approx. 450kg (AC380V,400V)
	L-type handy torch	400g
Safety device		Helmet, Light-shielding partition (Option)

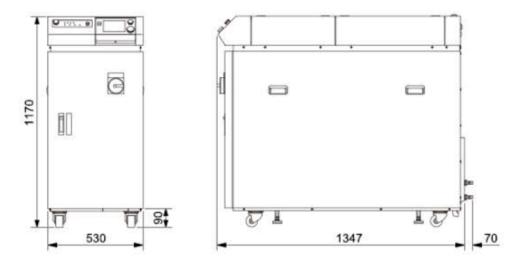
* Each oscillator is equipped with one hand unit (additional output units can be used to share deliveries other than those that use the hand unit).



External View

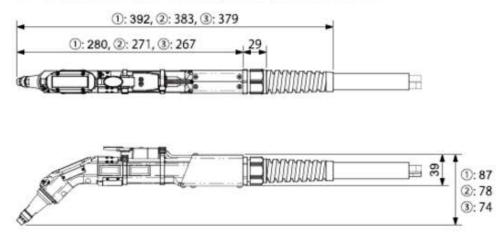
* Unit (mm)

[Laser oscillator: ML-2550AM]



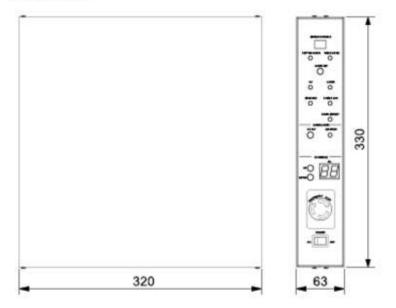
[L-type handy torch]

① F40S-F60S ¢ 0.9mm, ② F40S-F50S ¢ 0.8mm, ③ F40S-F45S ¢ 0.7mm

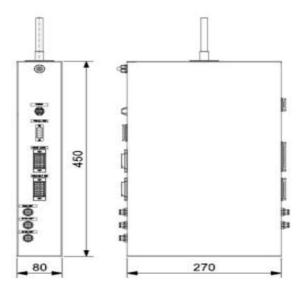




[Controller]

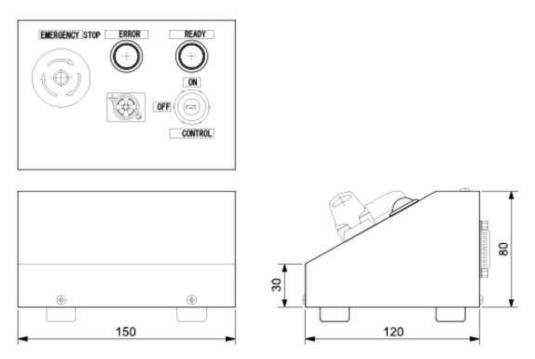


[Relay box]



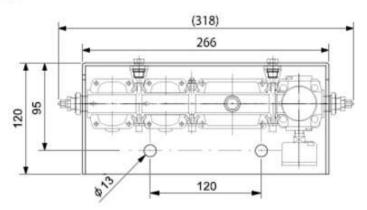


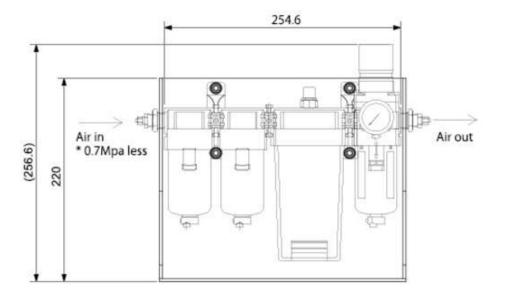
[Panel box]





[Filter unit]





Sample



Fillet welding of SUS



Cross section of penetration;thickness: 2.0 mm (penetrate possible)



Welding of curved surfaces

