



Specification for Raycus laser welding machine



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Parameter Specification			
Machine	1500W 4in1 Laser Welder	2000W 4in1 Laser Welder	3000W 4in1 Laser Welder
Picture			
Welding Gun Model	Sup 23T / Sup-28T		
Rated output power: (W)	1500	2000	3000
Center wavelength: (nm) :	1080±5	1080±5	1080±5
Maximum modulation frequency: (kHz)	5	5	5
Output power stability :	±1%	±1%	±1.5%
Red laser	Yes	Yes	Yes
Red light indicates output power (mW) :	0.5-1	0.5-1	0.5-1
Output connector:	IQB	IQB	IQB
fiber core diameter (μ m)	50	50	50
Beam quality BPP(m2):	< 1.5	< 1.5	1.5-2



Half angle divergence angle (rad) :	< 0.06	< 0.06	< 0.06
Output cable length (m) :	10	10	10
Fiber core diameter (um) :	50	50	50
Working voltage (VAC):	220V 50/60Hz Single Phase	220V 50/60Hz Single Phase	380V 50/60HZ Three-phase
Control method :	Control line/ Bluetooth, Ethernet	Control line/ Bluetooth, Ethernet	RS232/AD/Etherne
power adjustment range (%)	1-100	1-100	10-100
Cooling method :	Water Cooling	Water Cooling	Water Cooling
Water Tank Capacity	10L		
Cooling medium	Distilled/Deionized Water Add Antifreeze Below 0°C		
Working temperature (°C) :	10-40	10-40	10-40
Operating mode	Continuous/pulse		
Laser wavelength	1080nm		
Welding speed	0-120mm/S		



Max Welding thickness of Steel	0.35-4mm (Max 4.5mm)	0.35-5.5mm (Max 6mm)	7-8mm
Max Cutting thickness of Steel	0-5mm (Max 8mm)	0-6.5mm (Max 10mm)	5-6mm
Max Welding thickness of Aluminum	3mm (Max 3.5mm)	4mm (Max 4.5mm)	5-6mm
Max Cutting thickness of Aluminum	0-2mm (Max 2.5mm)	0-2.5mm (Max 3mm)	4-5mm
Welding Gap	0~4mm(STD Single Wire Feeder) . > 4mm: Optional Dual Wire Feeder		
Rust Removal Width	0-150mm		
Tot. Power	6Kw	8Kw	12Kw
Max. Current	27A	36A	32A
Machine Weight	105.5kg	126kg	178.5kg

Specification for SUP Single Wire Feeder



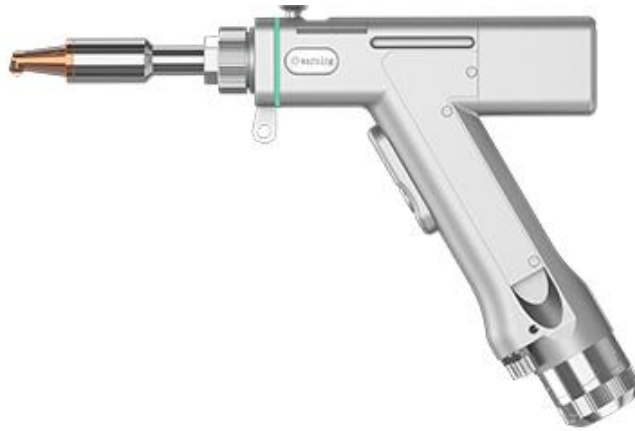
Wire feeder model	SUP - AMF - A
Rated input	220±5% 50/60Hz
Maximum power and current	60W/2.5A
Rated wire feed speed	15~600cm/min
Applicable welding wire	0.8/1.0/1.2/1.6mm (Standard)
	Carbon steel solid core wire,
Suitable for welding wire disc	Shaft diameter: Min 50mm
	Outside diameter: Max 300mm
	Width: Max 105mm
	weight: < 20kg
Net weight of product	13.2kg
Product size	560mm*250mm*350mm

Specification for SUP Dual Wire Feeder



Wire feeder model	SUP - AMF - D
Rated input	220±5% 50/60Hz
Maximum power and current	144W
Rated wire feed speed	15~600cm/min
Applicable welding wire	0.8/1.0/1.2/1.6mm (Standard)
	Carbon steel solid core wire,
Suitable for welding wire disc	Shaft diameter: Min 50mm
	Outside diameter: Max 300mm
	Width: Max 105mm
	weight: < 20kg
Net weight of product	25kg
Product size	575mm*250mm*670mm

Specification for SUP 23T Welding Gun



SUP 23T Welding Gun	
Supply voltage (V)	220V±10% AC 50/60Hz
Put the environment	Flat, with no vibration or impact
Working environment temperature: (°C)	10 ~ 40°C
Working environment humidity: (%)	≤70%
cooling-down method	hydrocooling
Applicable wavelengths (nm)	1070nm (±10nm)
Applicable power (W)	≤3000W
Collimator Specification (mm)	D16-F60
Focus mirror size (mm)	D20-F150
Protective mirror size (mm)	D18×T2
Gun body air pressure (Bar)	≤15Bar
Focus vertical adjustment range (mm)	±10mm
Scan width-Welding (mm)	0~8mm
Scan width-Wash (mm)	F150-0~30mm
	F400-0~60mm
	F800-0~120mm
Weight (kg)	0.7kg

Specification for SUP 28T Welding Gun



SUP 28T Welding Gun	
Supply voltage (V)	220V±10% AC 50/60Hz
Put the environment	Flat, with no vibration or impact
Working environment temperature: (°C)	10 ~ 40°C
Working environment humidity: (%)	≤70%
cooling-down method	hydrocooling
Applicable wavelengths (nm)	1070nm (±10nm)
Applicable power (W)	≤3000W
Collimator Specification (mm)	D16-F60
Focus mirror size (mm)	D20-F150
Protective mirror size (mm)	D18×T2
Gun body air pressure (Bar)	≤15Bar
Focus vertical adjustment range (mm)	±10mm
Scan width-Welding (mm)	0~8mm
Scan width-Wash (mm)	F150-0~30mm
	F400-0~60mm
	F800-0~120mm
Weight (kg)	0.65kg