

Specification for BWT 5IN1 laser welding machine



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Parameter Specifications		
Machine	BWT Laser laser welding machine	
Model	1500W 5 IN 1 Welder	2000W 5 IN 1 Welder
Laser wavelength	1070nm	
Laser power	1500W	2000W
Welding Gun Model	Relfar FWH30-DS10E	
Collimation focal length	40mm	40mm
Focus length	150mm	150mm
Protective lens size	D25*2mm	D25*2mm
Welding lens size	D20*F150	D20*F150
Cleaning lens size	D20*F1000/F800	D20*F1000/F800
Collimating lens	D16*F50	D16*F50
Reflective lens	27*14*2	27*14*2
Welding Gun Applicable	≤3000W	
Scan speed	20000mm/s	



Weight of welding gun	0.75kg	
Control system	Relfar handheld laser control system V4	
Wire feeder	Relfar FWS-01A	Relfar FWS-01A
Laser source model	BFL-CW1500T	BFL-CW2000T
Power adjust range	10%-100%	
Operating mode	Continuous	
Length of fibre optic	10m(standard)	
Fiber-optic interface	QBH	
Lifetime module	100000hrs	
Cooling method	Water cooling	
Laser Energy Stability	<2%	
Red light positioning	Support	
Max Cleaning Width	1-150mm	
Water Tank Capacity	8L	
Voltage	220V Single phase 50Hz/60Hz	



Laser Max electrical power	4.5KW	6KW
Machine total electrical	6KW	7.5KW
Max Current	27A	34A
Max Welding thickness of	0.35-4mm	0.35-5.5mm
Max Cutting thickness of	0-5mm	0-6.5mm
Max Welding thickness of	3mm	4mm
Max Cutting thickness of	0-2mm	0-2.5mm
Machine weight	85kg	95kg

Specification for Relfar Single Wire Feeder



Model	FWS-01A
Dimensions	560(L) × 240(W) × 472(H) mm
Gross Weight	16.2kg
Power Supply	220V
Max Wire Weight	25kg
Max Wire Core Diameter	Ø2.0mm
Maximum Wire Feeding Speed	80mm/s
Reduction Ratio	1:5

Specification for Relfar Dual Wire Feeder



Model	FWS-02A
Dimensions	605(L) × 398(W) × 472(H) mm
Gross Weight	22.6kg
Power Supply	220V
Max Wire Weight	25kg
Max Wire Core Diameter	Ø2.0mm
Maximum Wire Feeding Speed	80mm/s
Reduction Ratio	1:5

Specification for Relfar Welding Gun



Model	FWH30-DS10E
Fiber Interface	QBH
Wavelength Range	1070±20nm
Rated Power	≤3000W
Collimation Focal	40mm
Focus Focal Length	150mm
Oscillation Type	—、○、∞、X、●、△、∞
Energy Storage	○ □ — ⊙
Energy Storage	φ20mm, 20mm(L)×5mm(W), 20mm(L), φ
Energy Storage	■ + ⊙ ⊖
Energy Storage	20mm(L)×5mm(W), 20mm(L)×20mm(W), φ
Focus Adjustment	-10mm ~ +10mm
Spot Adjustment	0 ~ 5mm
Auxiliary Air Pressure	≤1MPa
Weight	1Kg