G Weike Laser - Fiber Laser Welding Machine Quotation

Model Handheld Optical Fiber Laser Welder with auto wire feeding function

Technical Parameters

No.	Item	Technical Parameter
1	Machine Model	Handheld Optical Fiber Laser Welder
2	Power	1500W
3	Laser wavelength	1070NM
4	Fiber length	Standard 10M. Max: 15M
5	Working mode	Continuous/Modulation
6	Speed range of welding machine	0 ~ 120mm/s
7	Chiller	Industrial constant temperature water tank
8	Temperature range of working environment	15-35 ℃
9	Humidity range of working environment	< 70% No condensation
10	Suggestions on Welding Thickness	0.5-3mm
11	Welding gap requirements	≤0.5mm
12	Voltage	380V
13	Weight	400KGS
14	Warranty	2 Years

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Comparison with other welding systems

comparative project	Traditional welding	Fiber laser welding	G. WEIKE new generation laser welding
weld heat input	very high	low	low
work piece deformation	big	small	small
Bonding strength with base metal	general	good	very good
Subsequent processing	polish	no or few polish	no or few polish
welding speed	general	2 times as traditional welding	More than 2 times as traditional welding
Applicable material	Stainless steel. Carbon steel. Galvanized sheet	Stainless steel. Carbon steel. Galvanized sheet	Stainless steel. Carbon steel. Galvanized sheet
consumptive material	more	less	less
operation difficulty	complicated	General	simple
Safety of the operator	unsafe	safe	safe
impact of environmental protection	Not environmentally friendly	environmentally friendly	environmentally friendly
Welding fault tolerance	good	bad	good
Swing welding	no	no	yes
Light spot width adjustable	no	no	yes
Welding quality	inferior	general	good

Features & advantages

1. Fast welding speed, 2~10 times faster than traditional welding.
2. Easy operating needs no training.
3. welding seam smooth and good appearance, no need to polish, saving time.
4. No deformation or welding scar, firm welding of the workpiece
5. Laser welding has less consumables and long service life.
6. Safe, more environmentally friendly

Application industry

Can be widely used in cabinets, kitchen, staircase elevator, shelf, oven, stainless steel door and window guardrail, distribution box, stainless steel home and other industries complex and irregular welding procedures.

Cutting parameter

1000W								
metal	metal:mm	penetration :mm	output	m/s	air pressure	Wire feed weld	CBM	Total power
SUS/CS	0.6	0.2	16%	0.02	2bar	0.2mm	1.1m*0.7m*1.1m	6.5KW
	0.8	0.2	20%	0.02	2bar	0.2mm		
	1	0.3	25%	0.02	2bar	0.2mm		
	1.2	0.3	30%	0.02	2bar	0.2mm		
	1.8	0.3	40%	0.02	2bar	0.2mm		
	2.5	0.5	40-45%	0.02	2.3bar	0.2mm		
	3	0.7	60%	0.02	2.3bar	0.2mm		
AL/Cu	0.5	0.3	70-80%	0.02	2.5bar	0.2mm		
	1	0.5	80-90%	0.02	2.5bar	0.2mm		
	1.5	0.6	85-95%	0.02	2.5bar	0.2mm		

1500W								
metal	metal:mm	penetration :mm	output	m/s	air pressure	Wire feed weld	CBM	Total power
SUS/CS	0.6	0.3	15%	0.02	2.0bar	0.2mm	1.1m*0.7m*1.1m	9.5KW
	0.8	0.3	20%	0.02	2.0bar	0.2mm		
	1	0.5	25%	0.02	2.0bar	0.2mm		
	1.2	0.5	30%	0.02	2.0bar	0.2mm		
	1.8	0.7	40%	0.02	2.0bar	0.2mm		
	2.5	0.8	40-45%	0.02	2.3bar	0.2mm		
	3	1.2	60%	0.02	2.3bar	0.2mm		
	5	1.5	70-80%	0.02	2.3bar	0.2mm		
AL/Cu	0.5	0.3	70-80%	0.02	2.0bar	0.2mm		
	1	0.5	80-90%	0.02	2.0bar	0.2mm		
	1.5	0.6	80-90%	0.02	2.3bar	0.2mm		
	2	0.8	85-95%	0.02	2.3bar	0.2mm		

2000W								
metal	metal:mm	penetration :mm	output	m/s	air pressure	Wire feed weld	CBM	Total power
SUS/CS	0.6	0.3	10%	0.02	2.0bar	0.2mm	1.1m*0.7m*1.1m	12KW
	0.8	0.4	15%	0.02	2.0bar	0.2mm		
	1	0.5	20%	0.02	2.0bar	0.2mm		
	1.2	0.6	25%	0.02	2.0bar	0.2mm		
	1.8	0.8	35%	0.02	2.0bar	0.2mm		
	2.5	1	35-45%	0.02	2.3bar	0.2mm		
	3	1.4	50%	0.02	2.3bar	0.2mm		
	5	2.1	70-80%	0.02	2.3bar	0.2mm		
	6	2.5	80-90%	0.02	2.3bar	0.2mm		
	7	3	80-90%	0.02	2.3bar	0.2mm		
AL/Cu	0.5	0.4	60-80%	0.02	2.0bar	0.2mm		
	1	0.8	80-90%	0.02	2.0bar	0.2mm		
	1.5	0.8	80-90%	0.02	2.3bar	0.2mm		
	2	1	85-95%	0.02	2.3bar	0.2mm		
	4	2	90-100%	0.01	2.3bar	0.2mm		


FIBER LASER WELDING
G·WEIKE
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WELDING
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Wire feeding

U type(short)

U type(long)

Outer corner

Nozzle

Wire feeding device