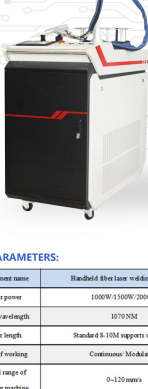


LASER WELDING MCHINE

ZCGX-HW-1000W/1500W/2000W



TECHNICAL PARAMETERS:

1	Equipment name	Handheld fiber laser welding machine
2	Laser power	1000W/1500W/2000W
3	Laser wavelength	1070NM
4	Fiber length	Standard 8-10M supports up to 15M
5	Way of working	Continuous/ Modulation
6	Speed range of welding machine	0-120mm/s
7	Cooling water machine	Industrial constant temperature water tank
8	Working environment temperature range	15-35℃
9	Working environment humidity range	<70% without condensation
10	Recommended welding thickness	0.5-5mm
11	Welding gap requirements	≈0.5mm
12	Operating Voltage	AV220V

EQUIPMENT NAME:

HANDHELD LASER WELDING MACHINE

DEVICE MODEL:

ZCGX-HW-1000W/1500W/2000W

MACHINE DIMENSIONS

LENGTH: 120CM

WIDTH: 60CM

HEIGHT:163CM



MAIN CONFIGURATION



JPT-1000W LASER



NT-18 LASER WELDING JOINT



S&A RMFL-1000 WATER COOLER

DEVICE CONFIGURATION

Serial Number	Name	Quantity	Unit	Remarks
1	Laser	1	set	fiber laser (optional)
2	Laser chiller	1	set	Shanghai Qiangpu Group
3	sheet metal	1	set	optional
4	Handheld gun	1	set	Swing hand gun/Double swing hand gun (optional)
5	Protective lens	5	pieces	imported quartz 20X2
6	Toolbox	1	set	standard
7	Equipment instruction manual	1	a	standard
8	Factory nameplate	1	piece	standard
9	Equipment installation and commissioning table	1	copy	Laser standard configuration
10	Equipment acceptance form	1	copy	Laser standard configuration
11	Switching power supply	1	set	Taiwan MEAN WELL
12	Swing motor power supply	1	set	constant floating power supply
13	Leakage switch	1	pcs	Zhejiang Chint
14	Copper nozzles	5-5	pcs	Y-shaped and wire feeding copper nozzles
15	protective glasses	1	pair	anti-radiation glasses
16	gloves	2	sets	cotton

EQUIPMENT ADVANTAGES:

Pure hand-held laser welding machine is a hand-held welding head, which connects the optical fiber to the hand-held welding head to realize various welding of products. The advantage of the handheld laser welding machine is that for products with larger specifications and longer welding lengths, such as sinks and stainless steel kitchen cabinets, they can be welded without placing these products on the workbench. The welding is flexible and easy to operate. In addition to repairing large molds, large machinery can also achieve long-distance welding, and welding can be done without removing the product. It has the advantages of simple operation, beautiful welding seam, fast welding speed, and no consumables. It can perfectly replace traditional argon arc welding, electric welding and other processes for welding thin stainless steel plates, iron plates, galvanized plates and other metal materials. The handheld laser welding machine can be widely used in the complicated and irregular welding processes of cabinets, kitchens and bathrooms, stair elevators, shelves, ovens, stainless steel door and window guardrails, power distribution boxes, stainless steel home appliances and other industries.

PRODUCT FEATURES

The handheld laser welding machine can perform long-distance laser welding of large workpieces. The heat affected area is small during welding, and it will not cause deformation, blackening, and traces on the back of the workpiece. The connection depth is large, the welding is firm, and the melting is sufficient. There is no depression in the joint between the raised part of the molten material in the bath and the substrate! The welding speed is fast, 2-10 times faster than traditional welding, and one machine can save at least 2 welders a year.

CUSTOMER CONSULTATION QUESTIONS

(1) What is a fiber laser handheld welding machine and what can it do?
Answer: This is a new type of metal welding technology, which has low technical requirements for skilled workers. It only needs light grinding and light polishing to produce exquisite effects, which is firm and reliable. It is another new welding method that reduces labor costs and increases production efficiency.

(2) How big products can the fiber laser handheld welding machine weld?
Answer: Strictly speaking, the general fiber cable is 8-15 meters, and it can be welded within the diameter range.

(3) What materials can be welded by the fiber laser handheld welding machine?
Answer: Fiber laser hand-held welding machine can weld 0.4-5.0mm thick stainless steel, galvanized sheet, iron sheet, copper, aluminum and other metal materials.

(4) After using the handheld laser welding machine, how many skilled workers can one machine hold?
Answer: It is conservative to say that you can have 3 welding technicians, and you can have a 1-2 years welding master when you just get started. Of course, practice makes perfect, it depends on where your workers' comprehension ability can reach

(5) How long is the warranty for the handheld laser welding machine?
Answer: The laser has a two-year warranty, the whole machine has a one-year warranty and lifetime maintenance (Note: Consumables are not included)

(6) Can laser welding with wire feed?
Answer: Yes, 0.8-1.0 for 1000 watts, 0.8-1.2 for 1500 watts

(7) Compared with traditional welding

Comparison item	Traditional Welding	Laser Welding	Continuous laser welding
Heat Input To The Workpiece	Very high	Low	High
Deformation And Undercut of Workpiece	Big	Small	Small
Bond Strength With Base Material	General	Good	Very good
Subsequent Processing	Polished	No sanding required or little	No sanding required or little
Welding Speed	General	More than twice that of argon arc welding	More than twice that of argon arc welding
Supplies	Much	Few	Few
Applied Material	Stainless Steel, Carbon Steel, Galvanized sheet	Stainless Steel, Carbon Steel, Galvanized sheet	Stainless Steel, Carbon Steel, Galvanized sheet
Operation Difficulty	Complicated	General	Easy
Operator Safety	Unsafe	Safe	Safe
Environmental Impact	Not environmentally friendly	Environmental Friendly	Environmental Friendly
Welding Fault Tolerance	Good	Not Good	Good
Wearing Welding	No	No	Yes
Adjustable Light spot width	No	No	Yes
Welding Quality Comparison	Bad	General	Good

WELDING PENETRATION DATA

Stainless Steel	Laser Source (W)	Power (W)	Speed (mm/s)	Rate (kHz)	Focus (mm)
1mm	500	260	800	5	+2
1.5mm	500	340	750	5	+2
2mm	1000	600	800	5	+2
2.5mm	1000	730	700	5	+2
3mm	1000	860	720	5	+3

Aluminum	Laser Source (W)	Power (W)	Speed (mm/s)	Rate (kHz)	Focus (mm)
1mm	500	480	700	20	+1
1.5mm	1000	560	800	20	+1
2mm	1000	780	800	20	+2
2.5mm	1000	920	800	20	+2
3mm	1500	1150	800	20	+2

Brass	Laser Source (W)	Power (W)	Speed (mm/s)	Rate (kHz)	Focus (mm)
1mm	1000	900	600	30	+3
1.5mm	1500	1100	600	30	+4
2mm	1500	1350	500	30	+4
2.5mm	2000	1600	500	30	+5
3mm	2000	1850	500	30	+6

Copper	Laser source (W)	Power (W)	Speed (mm/s)	Frequency (kHz)	Focus (mm)
1mm	1000	650	600	30	0
1.5mm	1000	850	600	30	0
2mm	1500	1100	500	30	0
2.5mm	1500	1400	500	30	0
3mm	2000	1750	500	30	0

Carbon Steel	Laser source (W)	Power (W)	Speed (mm/s)	Frequency (kHz)	Focus (mm)
1mm	500	300	500	20	0
1.5mm	500	370	500	20	0
2mm	500	480	600	20	+1
2.5mm	1000	600	600	20	+1
3mm	1000	760	700	20	+2

Galvanized sheet	Laser source (W)	Power (W)	Speed (mm/s)	Frequency (kHz)	Focus (mm)
1mm	500	320	600	20	0
1.5mm	500	460	600	20	+1
2mm	1000	600	500	20	+2
2.5mm	1000	800	700	20	+3
3mm	1000	960	650	20	+3

EQUIPMENT USE ADVANTAGES:

1. Raw and skilled hands learn to operate normally and quickly, saving you expensive technical labor costs!
The operation of this product is simple and convenient. It can solve the problem of difficult recruitment of technical personnel and high salary of technical personnel for you!

2. Workers are highly efficient and not tired at work!
Hand-held fast positioning welding, no need to move the workpiece, just move the hand-held welding head to quickly weld, high work efficiency,

3. Clean and hygienic work, enhance company image!
Hand-held laser welding machine at work, welding without smoke, no glare, ultra-low noise, no matter the size, how complicated it can be welded, welding is accurate and meticulous.

SCOPE OF APPLICATION:

Suitable for welding of stainless steel, iron sheet, aluminum, copper, alloy, steel, diamond equivalent materials or dissimilar materials, cabinets, kitchens, stair elevators, shelves, ovens, stainless steel doors and windows guardrails, distribution boxes, Stainless steel household and other industries.

SAMPLE CASE

