



SMART SERIES

Laser Cutting Machines

Overview

Details

Ability

Service

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Quote



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P18



Overview



MODEL	SMART HW1000	SMART HW1500	SMART HW2000
Power	1000W	1500W	2000W
Laser type	Fiber		
Wavelength	1080nm		
Frequency	20-5000Hz		
Output focal length	120mm		
Power consumption	≤6Kw		
Electricity demand	220V 50/60Hz		380V 50/60Hz

Details Machine bed



Wobble welding heads

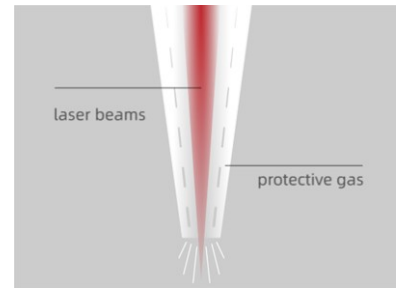
Built-in dual-axis high-speed servo motor



Digital display screen design
Real-time control of welding data

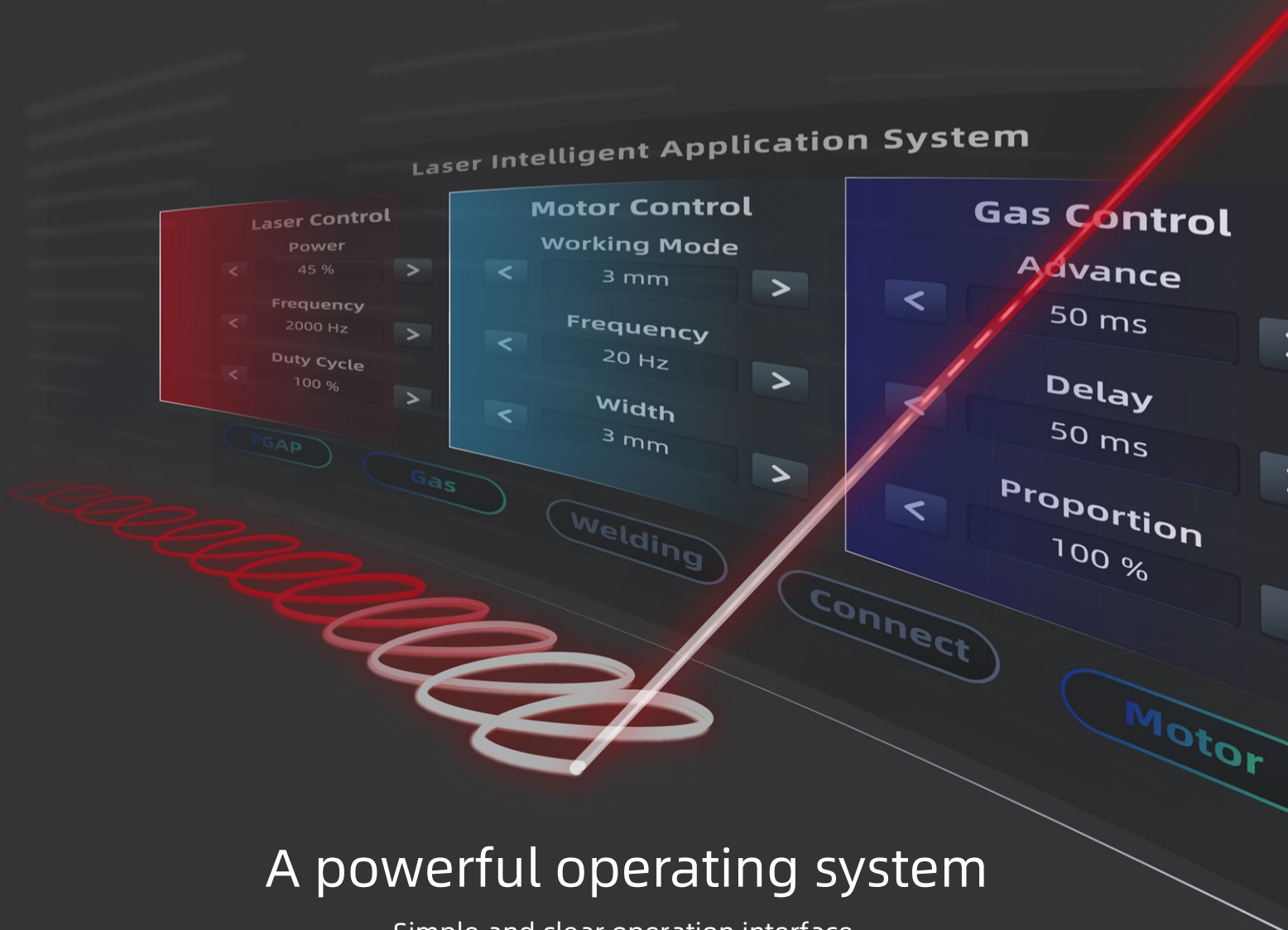


Circulating water circuit design
Rapid cooling of the gun body



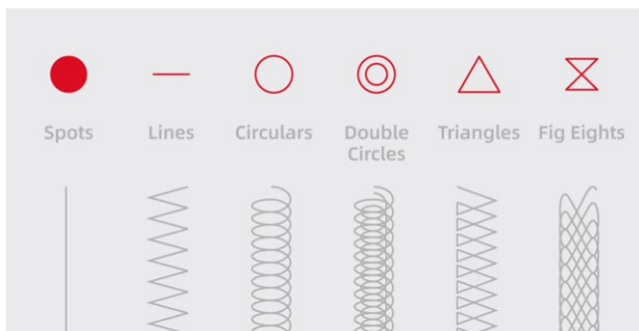
Coaxial blowing mode of protective gas
It is no longer limited to linear welding

Details Beam

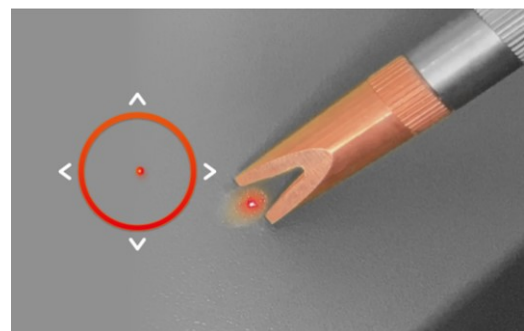


A powerful operating system

Simple and clear operation interface,
easy to master and easy to adjust

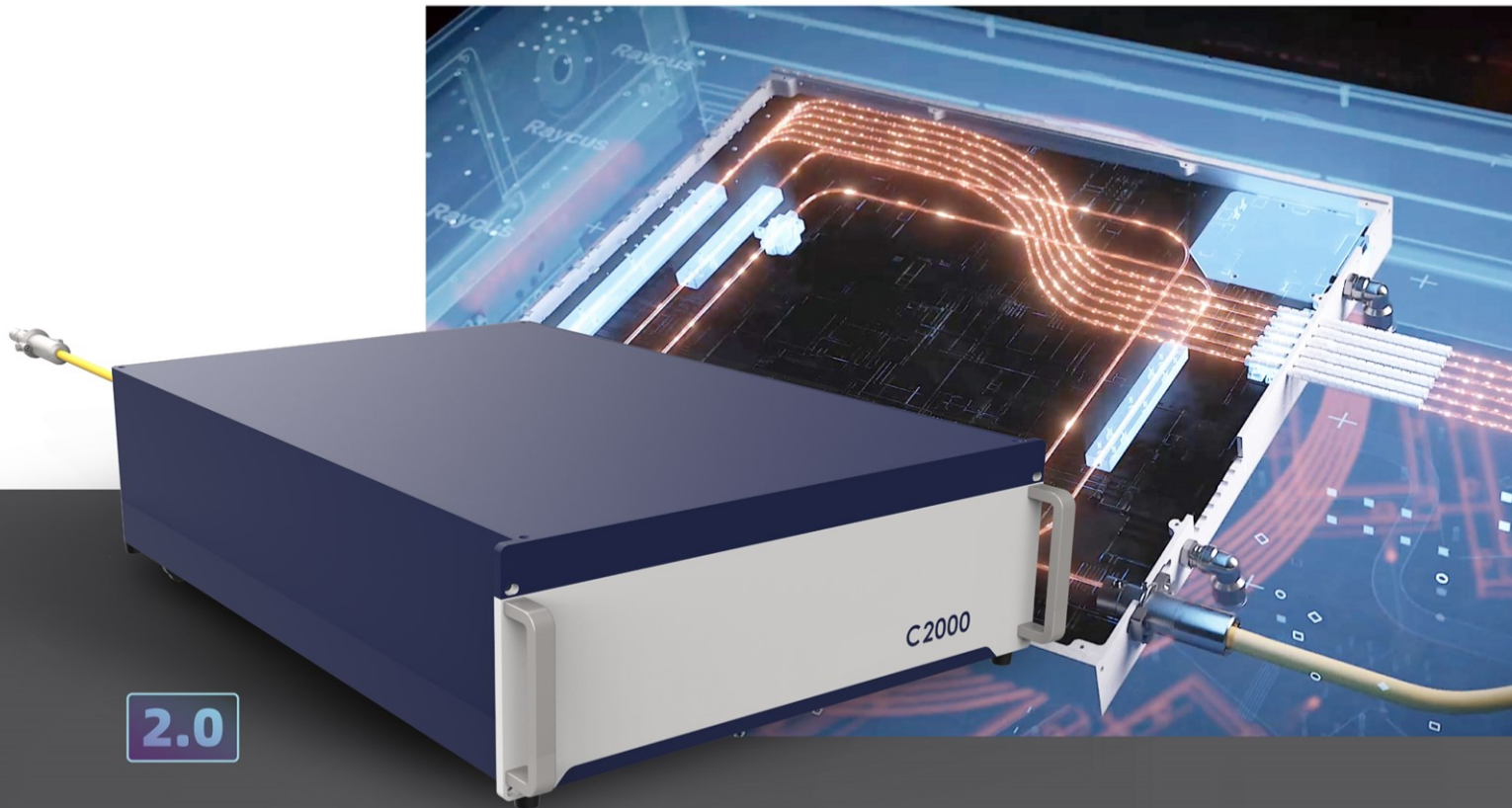


Multiple spot modes can be switched freely



The light spot can be adjusted arbitrarily
Accurately align the welding wire

Details Laser source



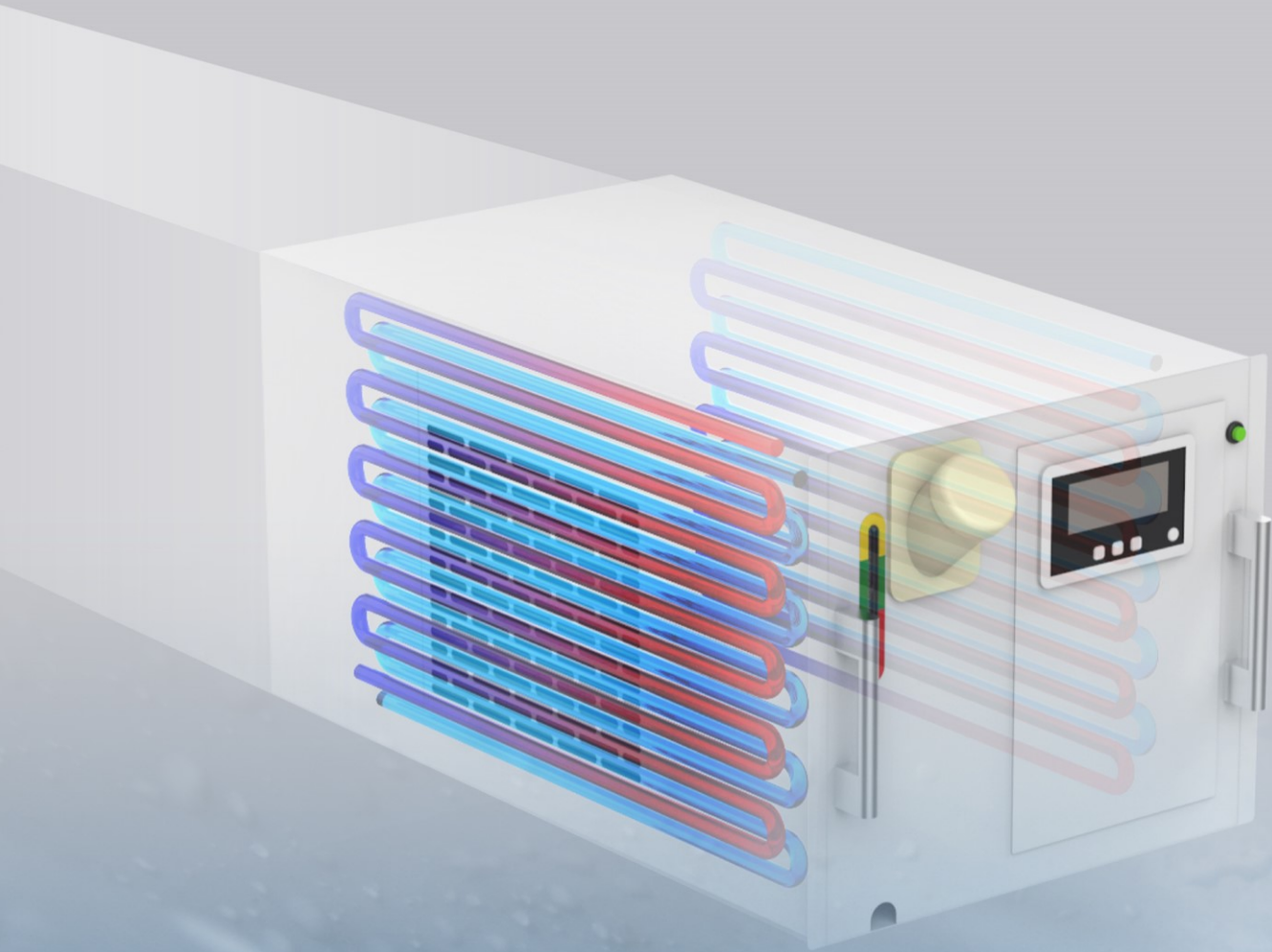
2.0

Higher photoelectric conversion efficiency

Second generation optical fiber transmission system
Better and more stable beam quality



Details Structure



Powerful chiller

Provide cooling protection for laser and laser head
Ensure the stability of the production process and prolong the service life



Details Technical Specification

Machine Model	HW-2000/1500/1000
The laser wavelength	1080nm
Laser power	Raycus-2000W/1500W/1000W
Weldable material	Carbon steel stainless steel aluminum
Optical fiber	50um, 10m
Modulation frequency	20KHz
Energy stability	<3%
Cooling medium	Distilled water/pure water
The whole machine net weight	210KG
Spot diameter (swing optional)	0-5mm
Machine size (mm)	Length: 1200 width: 650 height: 1100
The engine power	6KW-8KW
Recommended Environment	Clean and dust-free, no source, 10°C-40°C, humidity < 70%
Operating mode	LCD touch screen
The power supply	380 v / 3 PH or 220 v / 1 A 50HZ or 60HZ optional based on country and region

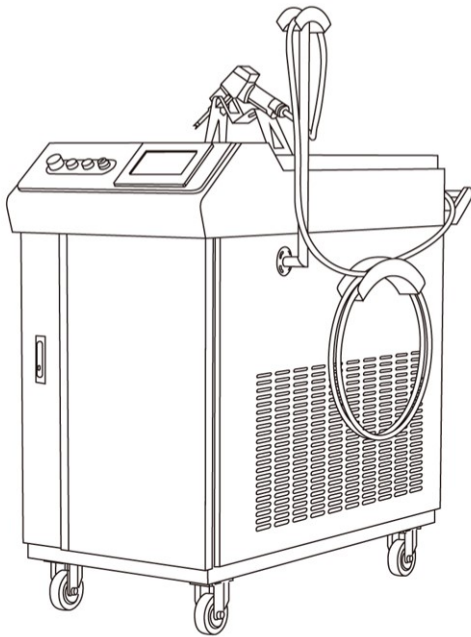


Details Machine configuration

NO.	Name	Specifications	Quantity	Remarks
1	Integrated cabinet	HW series	1 set	HG-Star
2	laser	Raycus 2000W/1500W1000W	1platform	Raycus RFL-2000H RFL-1500H/1000H
3	Cold water machine	Special optical fiber chiller 2000/1500/1000 type	1platform	YYZ-I50HZ/60HZ optional
4	Laser welding joint	BWT15 QBH	1 set	Double pendulum welding joint
5	Control system	Touch screen control system	1 set	HG-Star
		7 inch resistance control screen		
		Hand welding joint		
		Install components by sending wire		
6	Automatic wire feeder	HW special use	1 set	HG-Star
7	Device Appearance Color	HgTECH standard color		HG-Star

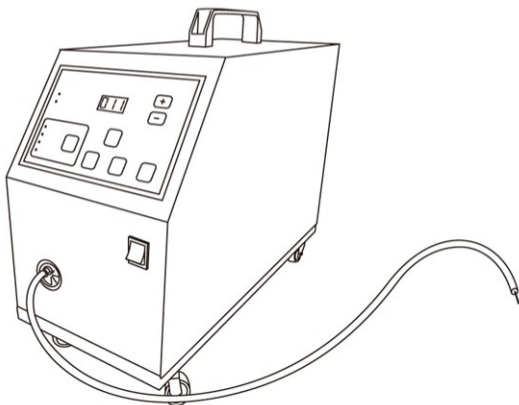


Details Machine configuration



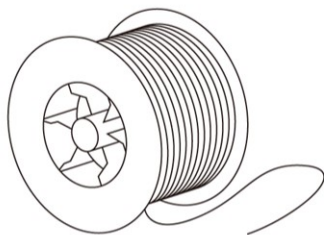
Hand-held welding machine complete machine

1



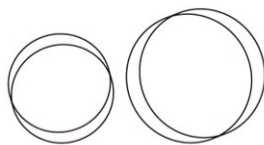
The wire feeding machine

1



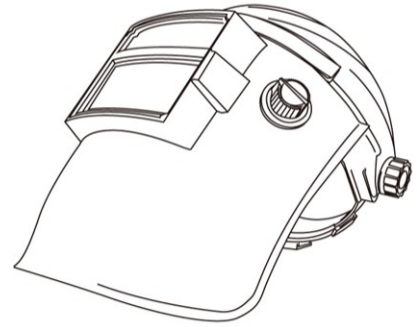
Wire 1.0

1



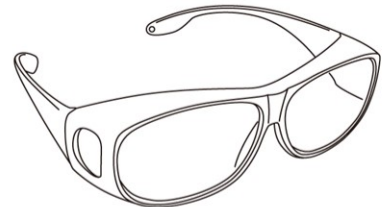
To protect the lens

20



Welding helmet

1



Safety glasses

2



Cutting nozzle

5



Flat fillet weld

30



Outside, welding

5



An internal Angle welding

20

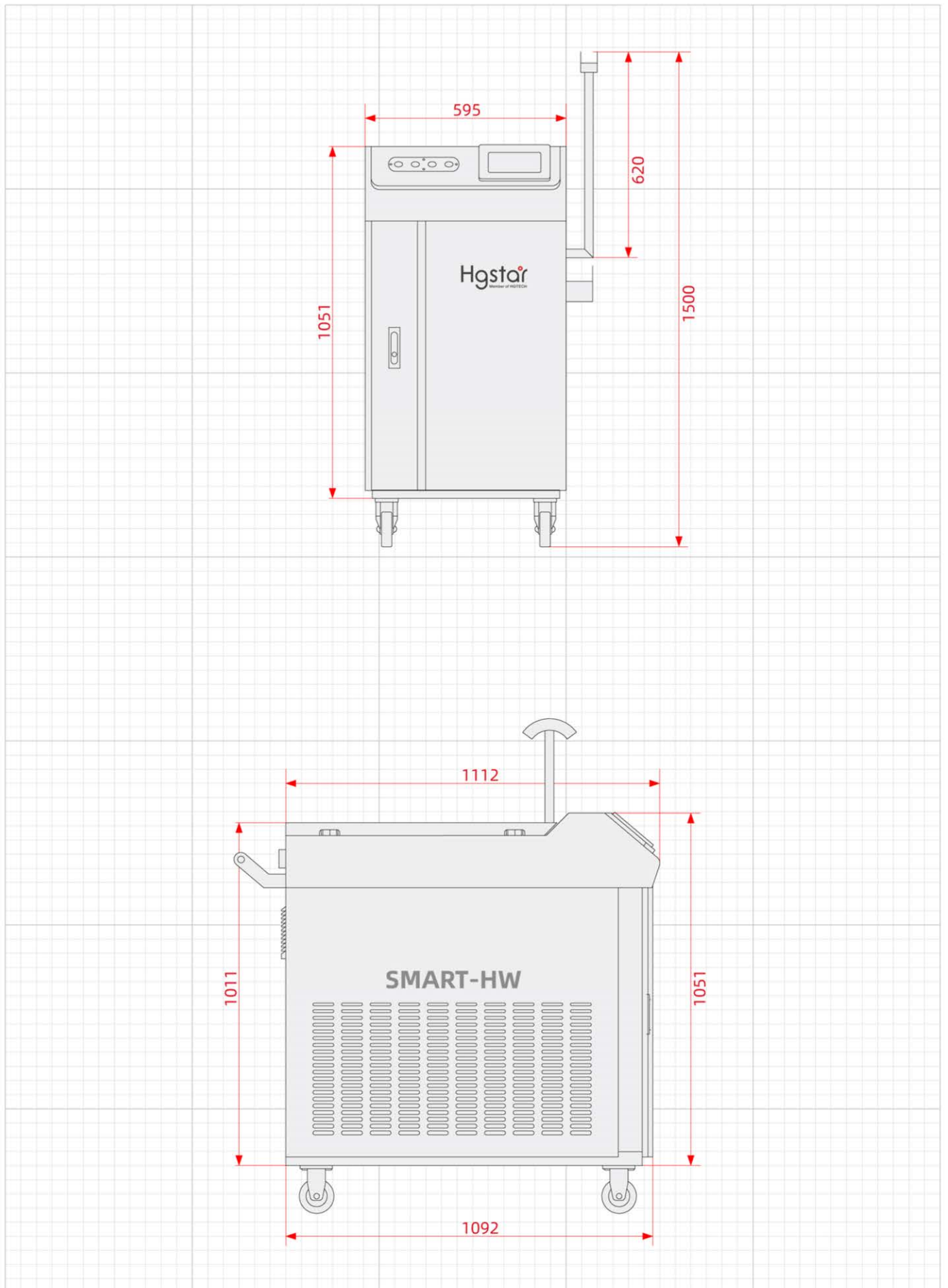


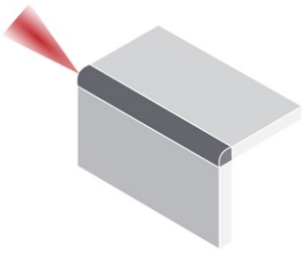
Details Equipment Working Conditions and Buyer Assistance

NO.	Item	Name	Requirements	Remarks
1	The power supply	Laser source	5.5KVA /6KVA	1000W/1500W use single 220V, the installed total capacity is not less than 10KW; 2000W uses three 380V installed capacity of no less than 11KW.
		Chiller	2.8KVA	
		Control system	0.8KVA	
		Other accessories	0.5KVA	
		Power supply	380V±5%, 50Hz /60HZ 220V±5%, 50Hz /60HZ	
		Instability of power	< 2.5%	
		Grounding / Earthing	< 4 Ω	
2	Water	The chiller uses cooling water	Distilled water	
3	Gas	Welding gas	N2>99.95%	
			Ar>99.95%	
4	The work environment	Temperature requirements	5-35 °C	There is an obvious source foundation for seismic trench
		Humidity requirements	Less than 70% no condensation	
5	Plank	The foundation asked	There shall be no obvious earthquake source nearby	
			The surface has no rust corrosion	

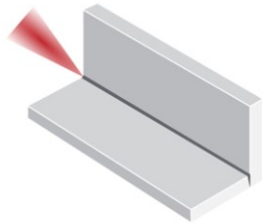


Details Appearance size drawing

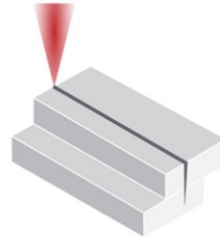




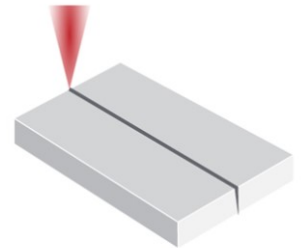
corner seam



fillet seam



lap seam



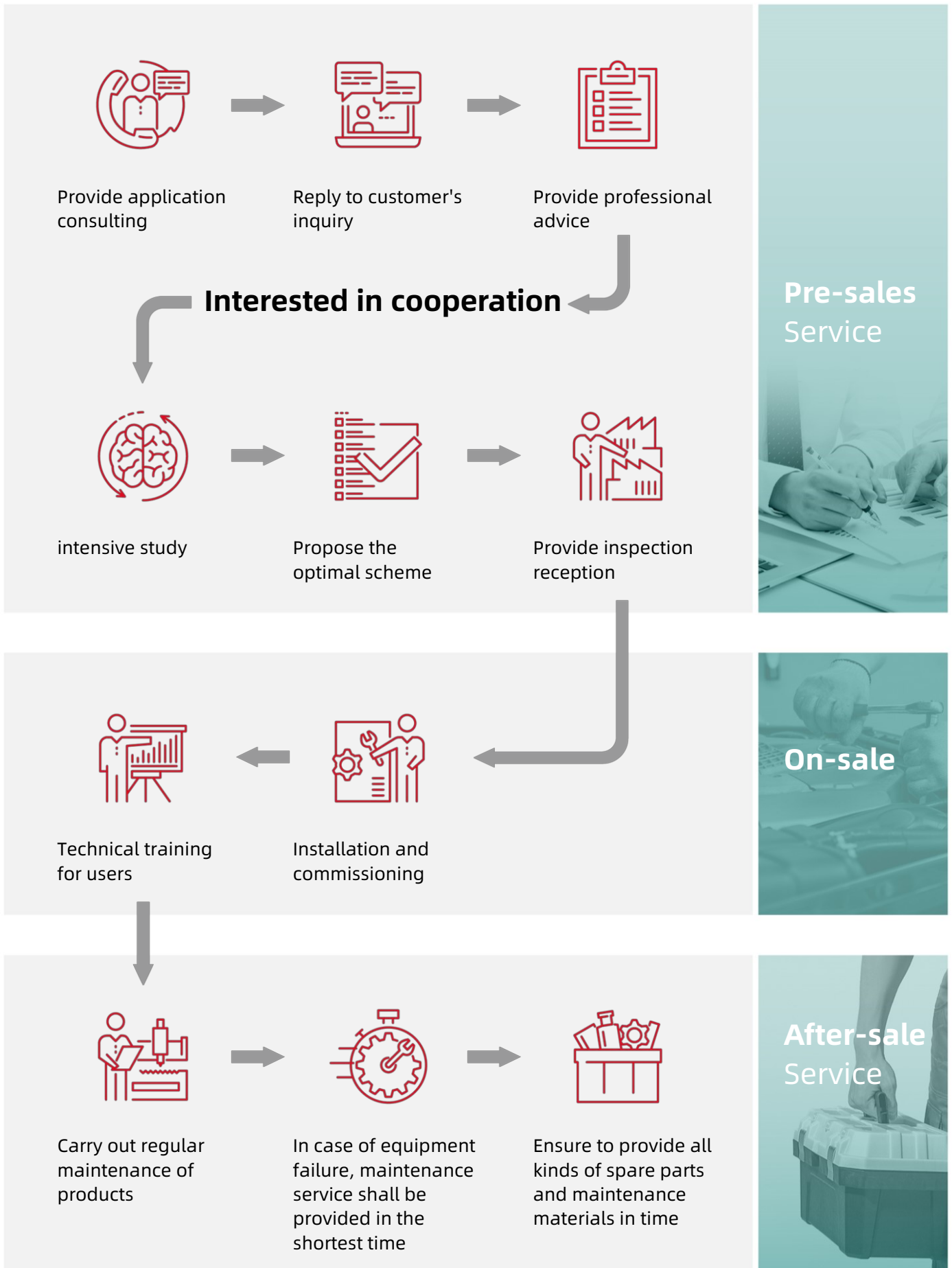
butt joint

Welding Samples

Applicable to welding carbon steel, stainless steel, aluminum, brass , alloy metals, etc.



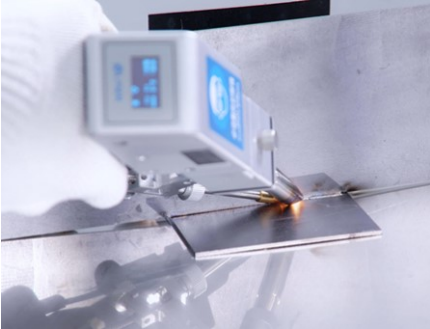
Service Process



Service Delivery Process

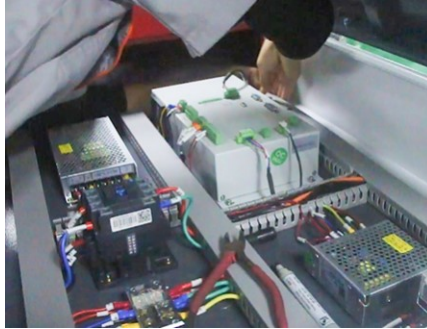
1

Machine Inspection



2

Overall inspection



3

Protective Film Wrapping



4

Weighing



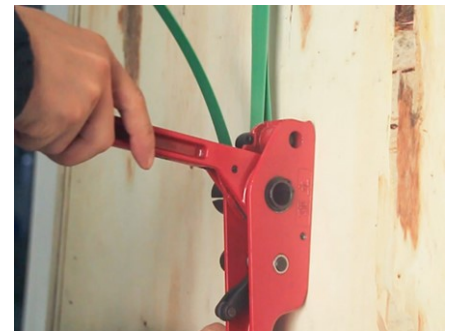
5

Wooden Boxseal



6

Edge Reinforcement



7

Lifting Rail Transfer



8

Container Loading



9

Transportation





About Us



Hgstar is one of the members of HGTECH Group who is the world second provider of intelligent manufacturing system solutions with laser intelligent equipment as the core and whole industry chain layout. We has accumulated 50 years of industry technical experience since 1971.



Innovation Fuels a Better World



About Us



Headquarters



Intelligent Manufacturing industrial Park



Intelligent Equipment Industrial Park



Hebei HG Surmount Laser technology Co. Ltd.



Jiangsu HG Bluesky Intelligent Technology Co.,Ltd.



Suzhou HG Automation Technology Co., Ltd.

4 Overseas R&D Center

10 Overseas Subsidiary

23 Foreign Service Center



U.S. (Silicon Valley) Subsidiary



United States (Chicago) Subsidiary



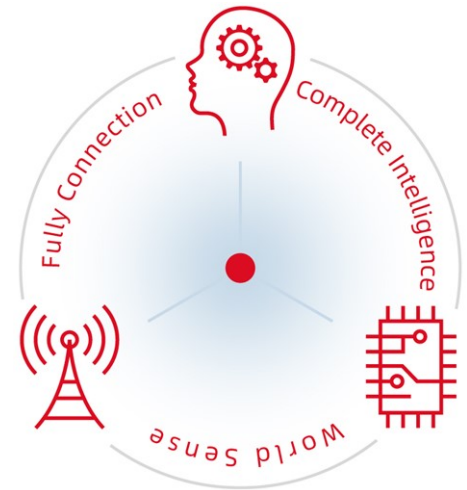
Farley LaserLab Australia



About Us

Our Vision:

Participate in building a fully connected, fully perceptual, and intelligent world, and become a global influential technology company



Business Partners:





HG STAR TECHNOLOGY CO.,Ltd.

Add

HG Tech Intelligent industry park , No. 66, Weilai 2 Road, Optical Valley, East
Lake Hi-Tech Development Zone, Wuhan, China,PC:430223

Tel

+86-27-87180225 / +86-531-80982120

After-sales Service

+86-27-87180253/+86-27-87180263

Email

info@hglaser.com / info@hg-star.com

Web

www.hglaserglobal.com / www.hg-star.com