## GROMAX HANS



## GROMAX - HAN'S LASER MARKER SERIES For more detailed information, please visit our website at

**UV Series** 

UV-3C

www.gromaxonline.com

Laser engraving/marking is the process of using lasers to engrave or etch an object. The technique does not involve the use of inks, or tool bits which contac the engraving surfaces and cause mechanical extrusion or stress.

ct	Fiber Series YLP-F20 (advanced) Mars20J	
	YLP-MP20	
	YLP-HA20	

<b>CO2 Series</b>
CO2-D180
CO2-D30

## FIBER SERIES

Extremely versatile compact maintenance free fiber laser markers.

## YLP-HA20 Fiber Laser Marker 20W (Base Model)

## Applications:

YLP-HA series laser marker is widely used on Electronic components, Glasses, watches/ clocks, Plastic tool, Medical devices, IC cards, Kitchen and bathroom fixtures, etc.

Model	YLP-HA20
Average Power	20W Fiber Laser Generator
Wavelength	1064 nm
Repetition Rate	20~200 kHz
Marking area	Standard: 100mmx100mm (standard lens)
Min. Font size	0.3mm
Cooling method	Air cooled
Power requirement	110-220V/ Single Phase / 60Hz
Power Consumption	0.5 kW
Dimensions (LxWxH)	620mmx1070mmx1410 mm
Weight	155 kg



## YLP-MP20 Fiber Laser Marker

#### Applications

Ideal for metal marking, highly photo sensitive materials, such as anodized aluminum.

Widely used in Electronic components, Glasses, Watches, Clocks, Plastic tools, Medical devices, IC cards, Kitchen and bathroom fixtures etc.



Model	YLP-MP20
Average Power	≤20W MOPA laser generator
Wavelength	1064nm
Repetition Rate	1.6-1000 kHz
Marking area	Standard: 100mm x100mm (standard lens) Max. size: 400mm x 400mm with special lens
Beam Quality M2	<1.3
Marking depth	≤0.4mm
Marking speed	≤7000mm/s
Minimum marking line	10µm
Min. Character size	0.1mm
Repeatability	±0.003mm
Cooling Method	Air cooled
Operating temperature	15ºC - 35ºC
Power requirement	110-220V/Single Phase /60Hz/2.5A
Power Consumption	0.5 kW
Dimension	800mmx840mmx1410mm
Weight	260 kg
Marking Font support	TTF, SHX, user defined fonts
Compatible marking file	BMP, JPG, PNG, TIF, PCX, TAG, IOO, PNG, GIF, PLT

## HL.YLP-F20 / HL. Mars 20J Fiber Laser Marker 20W

## Applications:

YLP-F series laser marker is widely used in Electronic components, Glasses, Watches, Clocks, Plastic tools, Medical devices, IC cards, Kitchen and bathroom fixtures, etc. Model Т MADE 201



YLP-F20 Shown without Protective Cover





Model	fLP-F20	MAR5-20J	
Average Power	20 W		
Beam quality M2	<1.3		
Marking area	Standard: 100mm x100mm (standard lens) Max. size: 400mm x 400mm w/ special lens		
Working distance	197±2mm		
Min. Character size	0.5mm		
Repetition Rate	20~200 kHz		
Cooling method	Air cooled		
Power consumption	0.5	kW	
Power requirement	110-220V 60 Hz		
Dimensions (LxWxH)	920x740x1415mm	545x186x430mm 552x125x142mm	
weight	260 kg	36 kg	



MARS-20J Shown





- Applications

  Tiny laser spot, fine marking line width
- High laser frequency, fast marking speed
- · Compact design

Model	CO2-D180	CO2-D30	
Average Power	180W	30W	
Wavelength	10.6µm		
Marking Depth	≤8mm	≤3mm	
Marking Speed	≤7000mm/s		
Min. Line Width	0.15mm	0.12mm	
Min. Character Size	0.8mm	0.6mm	
Marking Area	600mm×600 mm	120mmx120mm	
Power requirement	220V/Single Phase/60Hz/20A	220V/Single Phase/60Hz/6A	



**UV SERIES** 

**UV Laser Marker** 





## Applications

• Good for non-metalic, such as PVC, ABS, plastic etc.

- · Good for most materials, produces delicate high quality characters.
- · Used for IC cards, IT components, crafts, communication devices, electrical components etc.

UV-3C
3W
355 nm
5-120 kHz
100mm×100mm(standard)
≤7000mm/s
0.01mm
0.3mm
±0.003mm
Air Cooled
220V/ 60Hz
2 kW
800mmx1030mmx1650mm



UV-3C-D (with Turning Table)

## **GROMAX - HAN'S LASER WELDER SERIES**



### Features:

- High Electrical Efficiency
- · Ultra-low amplitude noise, high stability and ultra-long pump diode lifetime
- · Ideal Beam Quality, small heat affected zone, less deformation
- Maintenance free

· Single-mode Fiber Laser Delivery

Applications

 Various metals such as titanium, nickel, zinc, copper, aluminum, chrome, niobium, gold and silver and other alloys.

• Precision parts such as cell phone outer shells, laptop outer shells, fiber connectors, electronic components, military industry, and medical instruments.



Model	FP150 WFF500		
Average power	150 W	500 W	
Pulse width	0.2~50 ms		
Laser frequency	r frequency 200(max) Hz		
Wavelength	1070 nm		
Optical fiber length	5 m		
Power requirement	AC 220V±10%/60Hz		
Outer dimensions 905x610x1130 mm 44		448x226x650 mm	
Cooling	Air cooled Water coole		

### Features

- Welds can be applied right next to heat sensitive parts like precious gemstones, pearls or springs.
- Strong and invisible high-quality repairs can be achieved in a very short time.
- Welds with a spot diameter smaller than 0.15mm, standard is 0.2~2mm.
- Minimum heat in weld area.
- · No tool wear, contact-free processing.

Spot Welder



Applications

• Good for most metals such as stainless steel, titanium, Ni, Sn, Zn, Cu, Cr, gold, silver, etc.

• Repair of denture, jewelry, IC's, small electronic components, and guns, etc.



Model	W60
Average power	50W
Laser wavelength	1064nm
Max. Pulse energy	30J/6ms(Opt. 60J/12ms)
Pulse frequency	0Hz~20Hz
Peak power	6 kW
Power requirement	220V±5%/60Hz/20A
Cooling method	Air cooled
Waveform quantity	50 groups
Positioning method	LEICA microscope 10X
Dimension	1060mm×600mm×1100mm

## Features

WF300 YAG laser welder can have 1~4 welding heads independently.

- MOTIC microscope + liquid-crystal light-valve protector.
- Real-time current feedback system to ensure the stability of the laser power.
- Small heat-effected areas, no distortion or porosity.



## Applications

Good for most metals such as stainless steel, titanium, Ni, Sn, Zn, Cu, Cr, gold, silver, etc.
Good for cell phone battery packs, sensors, clocks, watches, jewelry, electronics components, eyeglasses, crafts, precision instruments and medical devices.



Model (Generator C	Only)	WF300	PB300CE	
Average Pov	ver	300W		
Max. peak p	ower	6kW		
Max. laser pulse power		30J/ <sup>.</sup>	30J/10ms	
Type of laser		Nd: YAG		
Wavelength		1064nm		
Wave type Num.		50		
Pulse width		0.1 ~50ms		
Pulse freque	Pulse frequency 1 ~150Hz		50Hz	
Power requirement		380V/60Hz/40A		
Dimension	Main device	1480mm×610	0mm×1100mm	
	Cooler	810mm×570	mm×805mm	
Total Weight		900 kg		

\*\*\* Worktable is not included. Available upon request.

## **GROMAX - HAN'S FIBER LASER CUTTER SERIES**

## Features:

- High performance. Fiber laser generator with service life of up to more than 100,000 hours.
- High speed, high efficiency, cutting speed up to 10+ meters/minute.
- Uses oriented transmission mechanism and servo motor for high precision cutting.
- No tooling required, you simply program the computer and the laser is able to accurately cut and reproduce the design.

• Laser beam exerts no mechanical or outside contact on the pieces being cut. Results in less burr, deformation compared to other cutting methods.





### MPS-XC SERIES (with Enclosed Double Table) dimensions(LxWxH): 9000mmx3000mmx2000mm

Model	MPS-XID	MPS-XII	MPS-XIII
Wavelength	1070nm	1070nm	1070nm
Average Power	500W	1000W	1500W
Power Consumption	11kW	14kW	18kW
Woring Area (X x Y)	1500mm×3000mm	1500mm×3000mm	1500mm×3000mm
Dimensions(LxWxH)	4300mmx2500mmx1400mm	4300mmx 2500mmx1400mm	4300mmx2500mmx1400mm
Max. Moving Speed	650mm/s	650mm/s	650mm/s
Max. Cutting Speed	12mm/s	25mm/s	32mm/s
Max. Cutting Thickness (Carbon Steel)	<u>≤</u> 6mm	<u>≤</u> 10mm	<u>≤</u> 12mm
Z Travel	0-100mm	0-100mm	0-100mm
Worktable - XY Stage Positioning accuracy	<±0.03mm	<±0.03mm	<±0.03mm
Worktable - XY Stage repositioning accuracy	<±0.015mm	<±0.015mm	<±0.015mm
Z Positioning Accuracy	<±0.02mm	<±0.02mm	<±0.02mm
Z Repositioning Accuracy	<±0.01mm	<±0.01mm	<±0.01mm





MPS-X SERIES

## Hans Laser

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