

Product Information

Product Description:

Stainless steel material is widely used in various fields, such as construction, kitchen appliance, electronic equipment, vehicles and so on. At present, the stainless color marking application in China has been used by increasingly manufacturers.

Carmnhaas as professional laser machine supplier in china, ([laser marking Machine wholesales](#)),offer you the laser technical support to achieve different color on Stainless steel. Only a few minutes, the stainless-steel surface can have a variety of beautiful patterns, not only improve the aesthetic value, but also provides more possibilities for the application of stainless steel in life, and create another era of laser marking.

Product Principe:

Carmnhaas laser color marking machine principle of stainless steel material color laser marking is using thin-film analyzer to analyze the stainless-steel laser painted surface and found that a thin-film will be produced on the surface of stainless steel under the action of laser. Because when light hits the surface of the film after the laser action is shown in the figure below, different colors are generated. What kind of light is strengthened when it interferes depends on the thickness of the stainless steel oxide film, When the light of one of the colors is intensified, the surface of the thin film shows the enhanced color.

Product Features:

- (1)Pulse width is adjustable, could get different color on Stainless steel;
- (2)Green processing, compared with spray painting, laser marking has no pollution;
- (3)Non-contact processing, no damage to products, no tool wear, good marking quality
- (4)The laser beam is thin, the processing material consumption is very small, and the processing heat affected area is small.
- (5)High processing efficiency, computer control and easy automation.

Product Application:

- (1)Metal surface processing, peeling coating
- (2)Aluminum black marking
- (3)Semi-conductor&electronics industry applications
- (4)Large area engraving
- (5)Excellent marking effect on plastic or other sensitive material
- (6)Black marking on stainless steel



Precision Marking +



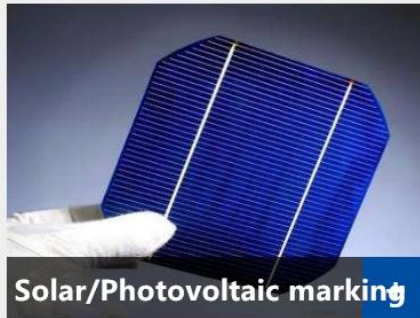
Color Marking +



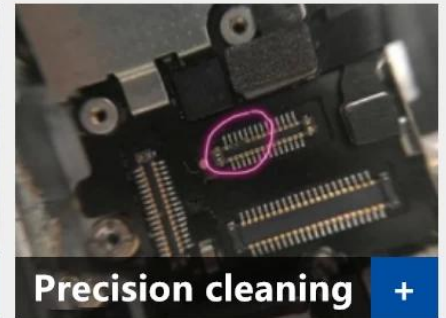
Alumina black marking



Film cutting +



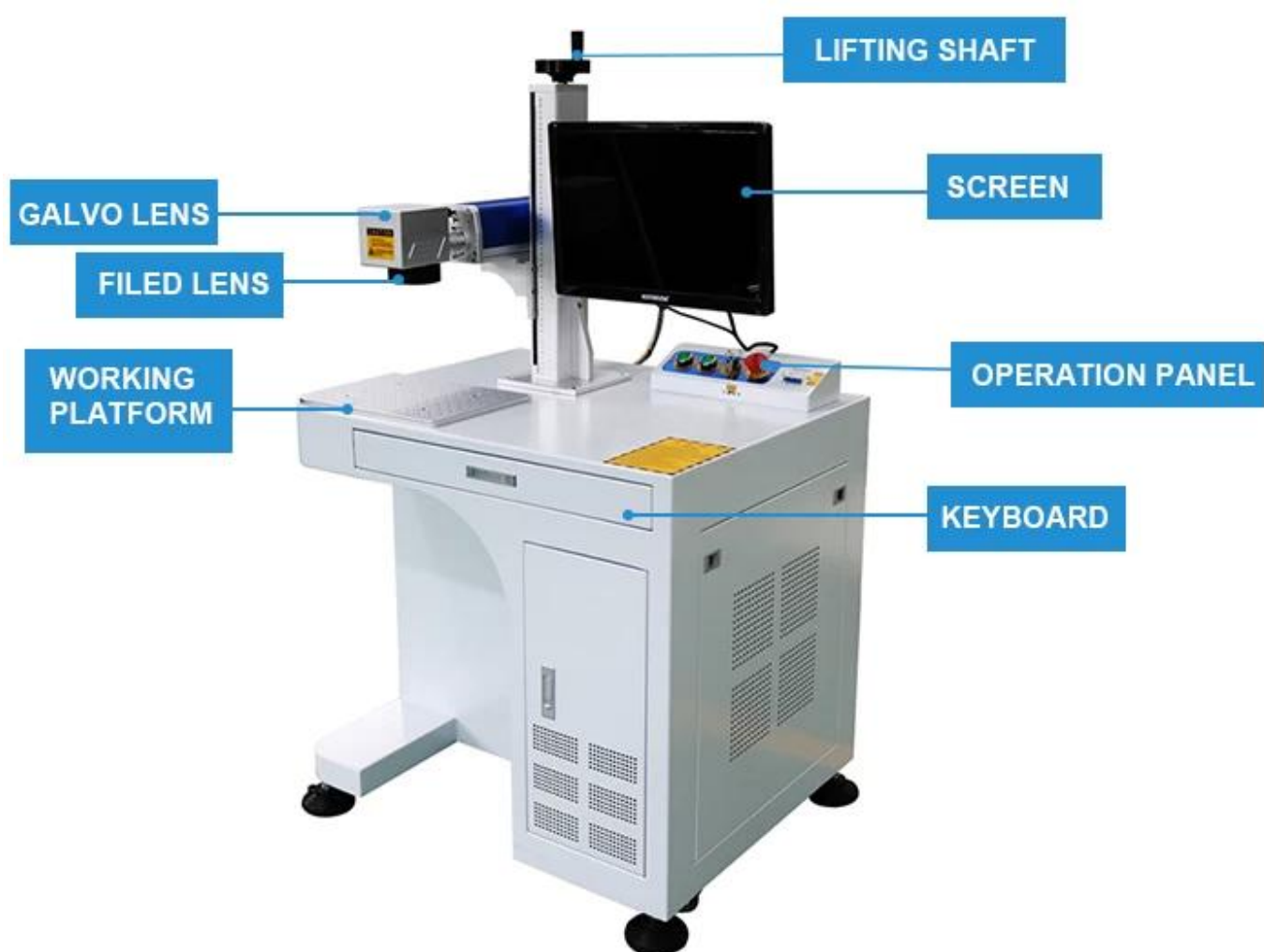
Solar/Photovoltaic marking



Precision cleaning +

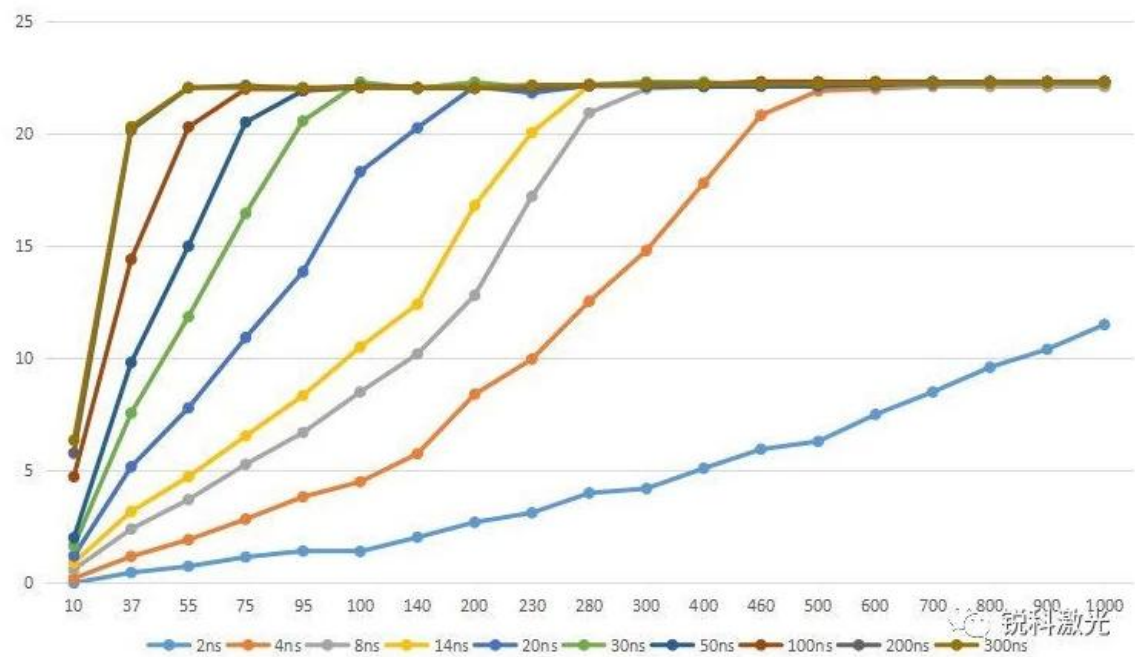
P/N	LMCH-20	LMCH-30
Laser Output Power	20W	30W
Wavelength	1064nm	1064nm
Beam Quality M2	≤1.3	≤1.3
Laser frequency	20kHz~1000kHz	20kHz~1000kHz
Marking Area	100x100~300x300mm	100x100~300x300mm
Marking Speed	8000-10000mm/s	8000-10000mm/s
Minimum character	0.2mm	0.2mm
Minimum line width	0.01mm	0.01mm
Marking Depth	≤0.3mm	≤0.3mm
Total Power	500W	500W
Repeat accuracy	±0.002mm	±0.002mm
Electricity	220±10%, 50/60Hz	220±10%, 50/60Hz
Machine Size	750mmx600mmx1400mm	750mmx600mmx1400mm
Cooling system	Air Cooling	Air Cooling

Laser Source Technical Parameters:



Laser Type	Unit	MOPA	
Product Model		YDFLP-20-M1+-S	YDFLP-30-M1+-S
M ²		<1.3	
Delivery Cable Length	m	2	
Nominal Average Output Power	W	>20	>30
Maximum Pulse Energy	mJ	0.5	
Full Power Repetition Range	kHz	40~1000	60~1000
Pulse Repetition Rate Range	kHz	1~1000	
Pulse Duration	ns	6~250	
Longtime Average Power stability	%	<5	
Cooling Method		Air Cooling	
Supply DC Voltage (VDC)	V	24	
Current Consumption	A	<8	<10
Current Supply Consumption	A	>8	>10
Power Consumption@20℃	W	<192	<240
Central Emission Wavelength	nm	1064	
Emission Bandwidth@3dB	nm	<15	
Polarization		Random	
Anti-Reflection Protection		Yes	
Output Beam Diameter	mm	7±0.5	
Output Power Tuning Range	%	0~100	
Operation Temperature	℃	0~40	
Storage Temperature	℃	-10~60	
Weight	KG	NG: 8 G.W:9.75	
Dimension W×D×H	mm	315×220×99	

Linear frequency - power - pulse width curve



Related Products



JPT MOPA M1+ 20W/30W



Marking Samples



Factory



Certificate&Exhibition





Packing Details

Packing details	One set in a wooden case
Single package size	110x90x78cm
Single gross weight	110Kg
Delivery time	Shipped in 5-7 days after receiving full payment





Packing List:

Item Name		Quantity
Laser Marking Machine	Carmanhaas	1 set
Machine body	DESKTOP	
Foot Switch		1 set
AC Power cord (Optional)	EU/USA /National Standard	1 set
Wrench tool		1 set
30cm Ruler		1 piece
User Manual		1 piece
Laser Protective Goggles	1064nm	1 piece

Return Policy:

We provide a free ONE YEAR Full Machine WARRANTY and TWO YEARS Laser Source WARRANTY
Should returns be required:

Step 1) Contact us with this website email.

Step 2) Provide as much detail as possible about the problem you are having.

Step 3) Authorization to return the item will be issued.

Step 4) Return the item for the agreed replacement or refund.

Logistics:

Optics order ship by DHL, UPS, FedEx, TNT, EMS etcFor Laser machine order delivery, can be optional with terms of Exwork, FOB, CNF, CIF by air or by sea based on the buyer's forwarder or ours

FAQ

china Fiber Desktop Laser Marking Machine supplierchina Fiber Desktop Laser Marking Machine supplierchina Fiber Desktop Laser Marking Machine supplierchina Fiber Desktop Laser Marking Machine supplierQ1.Are you a manufacturer?

A1: Yes, we are professional and experienced manufacturer with our own molds and production lines.

Q2.How about quality of products?

A2: Our technicians and QC teams test the products one by one using aging line, professional devices and instruments to ensure the quality for all products.

Q3.How about price?

A3: We are a manufacturer and always offer our customers the most competitive prices.

Q4.How to place an order?

A4: Contact with online service, or sent email to us directly, we will reply to you with product price, specifications, packing etc. soon. Thank you.

Q5.May I send material to test marking performance?

A5: Yes! You are welcome to send material to test our superior quality and service.

Q6.Can I visit your factory?A6: Yes, welcome to visit our factory at your convenient time.

Q7.How can I make OEM or ODM orders?

A7: We have different print processing for different OEM/ODM orders. Please contact us with online service or send email to us directly.

Q8. How should I pay for my orders?

A8: You can pay by T/T would be available for qualified bank and MOQ required for each order.