

Mini Laser Marking System

High Power Laser Marking System for Family and Factory

Superior Effect on Metal and Plastic

Features

- ✧ Best price & performance ratio
- ✧ Easy assembly, simple structure
- ✧ Small volume, portable and mobile
- ✧ Air cooled with compact design

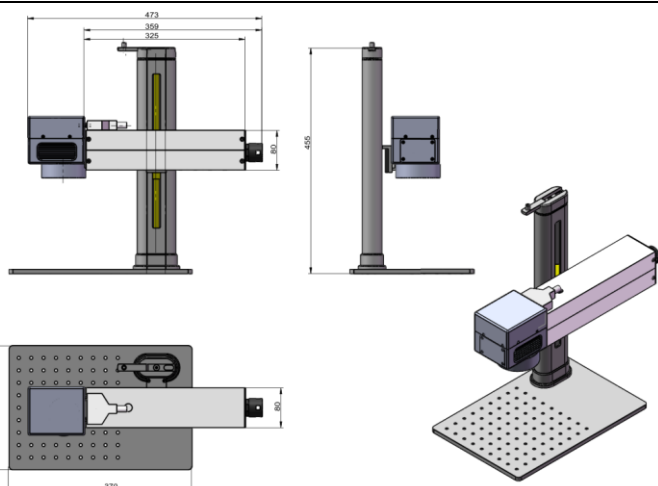
Marking Material

- ✧ Metal (gold, silver, copper, Iron, aluminum, titanium, zinc, steel...)
- ✧ Plastic (PC, PVC, PE, HDPE, ABS, PPR, PET, HIPS, PS, PP, PPO, PA, POM...)
- ✧ PCB board, Eggs, apples, glass, leather marking...
- ✧ insulation layer of capacitor and transformer (Mala tape)....

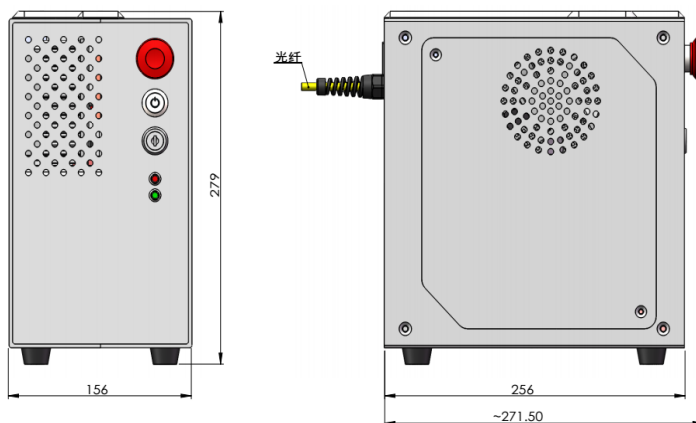


Dimensions

Laser Marking Machine



Power Supply Box

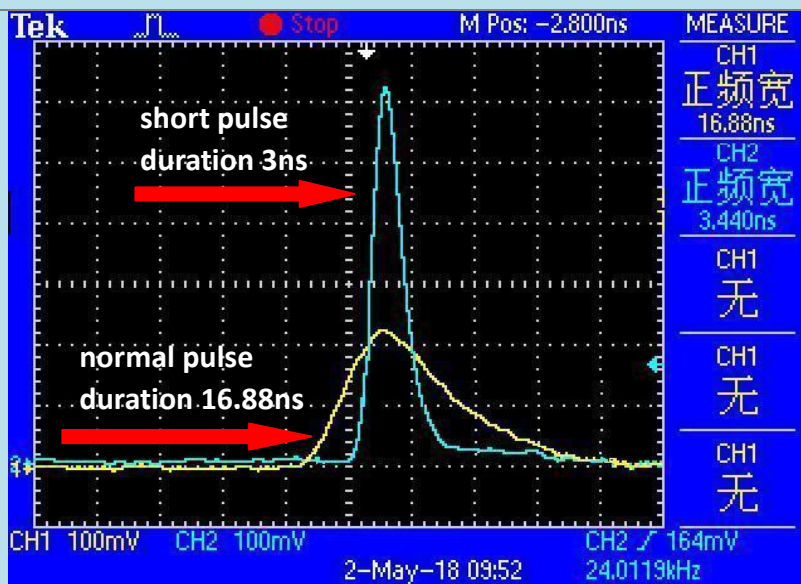


Specifications:

Wavelength	1064nm		532nm	355nm
Peak power	30 kW	50 kW	15 kW	15 kW
Focus length	~160 mm			
Marking scope	110 mm x 110 mm			
Marking depth	≤0.2 mm			
Maximum marking line speed	7000 mm/s			
Minimum marking line width	≤0.1 mm			
Power consumption	≤0.2 kW			
Power requirement	220VAC/ 50Hz			
Weight	20 KG			

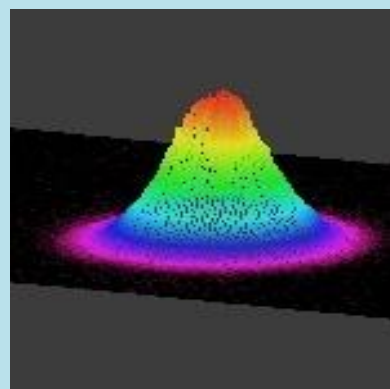
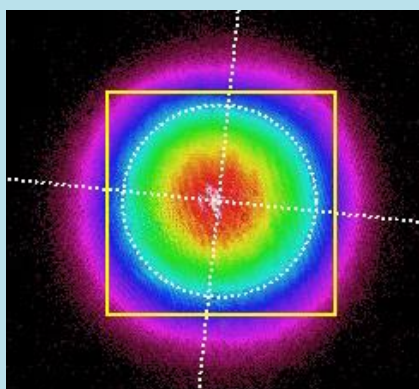
◆Short pulse duration

◆High peak power



◆Excellent beam quality

◆Small volume / long lifetime



Operating Instructions



A

B

C

Alarm lamp

Laser lamp

A: Emergency Stop

When press it down, the laser can not work. Releases it by turning clockwise, turn the key switch in on-state again, the laser can get started.

B: Main Power

1. Turn on :
Main power→Key Switch
2. Turn off :
Key Switch→Main Power

C: Key Switch

The laser is work in on-state, can not work in off-state.



D

E

D: USB connector

The USB line connect with the computer.

E: 220V input port

220V voltage machine power supply.

Fiber:

Do not buckling fiber less than 90 degrees.

Video

Marking: <https://www.youtube.com/watch?v=ioSDnV6aWpI&t=34s>
 Assemble: <https://www.youtube.com/watch?v=fCL2Yb6otlI>
 Adjust focus: <https://www.youtube.com/watch?v=bTzyDRRWXY>

Components (optional)

L-type Fixture



U-type Fixture



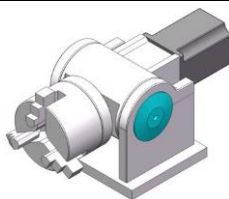
Metal Card



Laser Goggles



Rotary fixture



Protective cover box



1064nm Marking Samples

Jewelry
(gold, silver)



Kitchen&bath
(stainless steel)



Scaleplate
(copper, Iron, aluminum)



Metal shell
(black aluminum, steel)



Plastic LED lamp bulb
(ABS,PS,PC,PMMA)



Plastic (PC、PVC、PE、HDPE、ABS、PPR、PET、HIPS、PS、PP、PPO、PA、POM、PMMA)

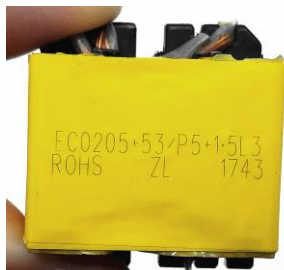


532nm Marking Samples

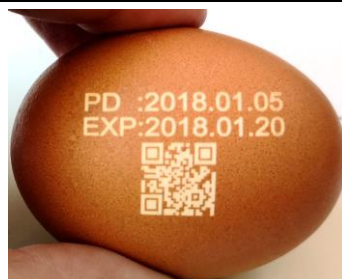
PCB



Mala tape



Egg



Apple

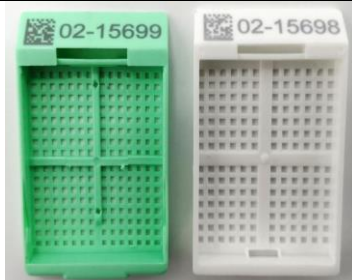


Plastic (PC、PVC、PE、HDPE、ABS、PPR、PET、HIPS、PS、PP、PPO、PA、POM、PMMA)



255nm Marking Samples

Other industry system



Plastic welding machine



Specifications

Wavelength	980nm
Power	40W
Laser mode	CW
Fiber core diameter	400 μ m
Power requirement	AC220V/1.6A/50Hz
Power consumption	100W
Operating Temp. (°C)	10°C ~ 30°C
Cooling-down method	Air-cooled
Pilot light	<5mW@650nm

Video

<https://www.youtube.com/watch?v=HV0ingVB7tl>

Diamond Girdle Laser Inscription

Specifications

Series	Fine-LaScribe	Fine-LaScribe-II (Cold laser)
Resetting positioning accuracy	±1 μm	
Engraving speed	2 mm/s	
Minimum character height	40 μm	
Minimum width of marking	5 μm	
Cooling way	Air cooled	
Power consumption	<200W	
Weight	30kg	35kg

Video

IR marking with protective solution <https://youtu.be/RHj10NkvCx4>
 UV marking with protective solution <https://youtu.be/Ht1WqqwiEcl>
 UV marking without protective solution <https://youtu.be/ltmS0A58Zx4>

Other industry system

Crystal Laser Engraving Machine



Specifications

Wavelength	532±1 nm
Max crystal size	150×250×100 mm
Carving range	100×100 mm
Max carving speed	2000 points/s
Point size	100μm
Laser type	End-pumped DPSS laser
Cooling way	Air cooled
Overall power consumption	2kW
Laser rate	2KHz
Machine dimensions	780×500×600 mm
Weight	100kg

Video

https://www.youtube.com/watch?v=-2-818C_QO4&t=2s

Fiber laser marking machine



Specifications

Wavelength	1064nm
LaserOutput power	20W/30W/50W
Laser beam qualityM2	<1.5
Laser pulse width	≤100ns
Power stability (rms,>4h)	<3%
Laser mode	TEM00
Marking depth	≤3mm
Maximum marking line speed	7000mm/s
Minimum marking line width	≤0.01mm
Minimum character height	≤0.1mm
Repeat marking precision	≤10μrad
Power consumption	≤0.8KW

Video

<https://www.youtube.com/watch?v=g8CIXbM-0Xo>