

Mopa fiber laser Marking Machine



Application of mopa fiber color laser engraving machine :

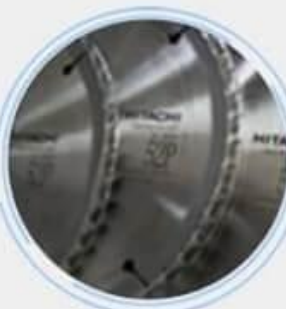
Engraving bar codes, decorative map, LOGO, factory number, production date, dial on all Metals (Gold, silver, copper, alloy, aluminum, steel, stainless steel, name card), Non-metal (Plastic: engineering plastic and hard plastic, etc. Used in electronic components integrated circuits, mobile communications, precision instruments, glasses watch and clocks, computer keyboard, accessories, auto parts, plastic buttons, plumbing fittings, sanitary ware, PVC pipe, medical equipment, packaging bottles, etc.)

In addition, mopa fiber laser engraving machine can engrave on stainless steel with beautiful color, such as red, blue, pink, green etc.

MARKING METAL



U disks



Gear



Nameplate



Phone shell



Surgical Instruments



Bearings



Ruler



Metal cup



Tool



Pen



Nameplate



Lighter



Coating Aluminum



Rotary marking



Color marking



Gold/Silver Ring

MARKING NON-METAL



SD card



Lamp head



Meters



Nail polish



Button



Power Bank



bank card



Animal Ear Tags



Capacitors



Cosmetic Boxes



Ceramic



Glasses



PRODUCT DISPLAY

APPLICABLE INDUSTRIES



Mechanical Parts:	Bearings, Gears, Standard Parts, Motor, etc.
Instrument:	Panel Board, Nameplates, Precision equipment, etc.
Hardware Tools:	Knives, Tools, Measuring Tools, Cutting Tools, etc.
Daily Necessities:	Handicrafts, Zipper, Key Holder, Sanitary Ware, etc.
Automobile Parts:	Pistons and Rings, Gears, Shafts, Bearings, Clutch, Lights, etc
Electronic Components:	Resistors, Capacitors, Chips, Printed Circuit Boards, Computer
	Keyboard, etc.

Technical Parameter of mopa fiber laser marking machine:

Technical parameter of color laser engraving machine :

Model No.	WTJ-20F-MOPA / WTJ-30F-MOPA /WTJ-50F-MOPA / WTJ-60F-MOPA / WTJ-100F-MOPA
Laser Source :	
JPT Mope Series	JPT M1 or M6 series.
Mode of operation	Pulsed
Polarization:	random
Nominal average output power	20W/30W/50W/60W/100W
Central emission wavelength:	1060-1070 nm ,Q-switched operation Output power

	adjustment range 10%-100%
Emission Bandwidth (FWHM)	<10 nm
Long-term average power instability	<5%
Pulse width, (FWHM)	100 ns
Laser switching ON time	180 µsec
Laser switching OFF time	180 µsec
Pulse Repetition Rate* kHz	20-80 kHz
Energy per pulse (PRR = 20 kHz)	0.95 mJ
Typical beam quality, M2	<1.8
Output fiber delivery length	3m
Operating voltage:	220V
Max. Power consumption:	600W
Laser system:	
Scanning Speed:	0-7000mm/s
Marking Speed:	0-5000mm/s

Marking size:	110mm×110mm (F-theta 160), 200mm×200mm,300*300mm Other size need be customized
Spot size:	≤ 40 micron (F-theta 160)
Cooling unit:	Air cooled
Pilot laser:	650nm diode laser, visible red light for marking guide
Continuous working time:	≥16h
Humidity:	45~85% (no condensation)
Operating temperature:	0~40°C
Control System	Original EZCAD

Details of Desktop portable handheld fiber laser engraver - [Fiber laser marking machine](#):



MAIN PARTS

Laser Source

We use Chinese best brand Raycus laser generator with best cost performance.
Optional: CAS/MAX/IPG/JPT color marking laser source



Galvo Head

- 1). High speed galvanometer scan head adopting SCANLAB technology, digital signal, high precision.
- 2). Flat field images with micron-order diffraction-limited spot sizes are available.

Field Lens

Singapore Famous "Wavelength" brand, fast speed, high transparent rate.



Control System

Beijing JCZ board card and EZCAD software with stable performance and high reliability. The machine include computer, before delivery, software and parameter are set.





1) Inner red light pointer



2) Outer red light pointer



Double red light pointer

When two red light coincide, it is best focus. Double red light pointer help customers make focus quickly and easily.

2D Table

Standard table size is 220x300mm.
It can move from left to right and from front to back. It can also fix material.



Protect glasses

For 850-1300 nm, has OD4+, 6+ protection, covers wide Infrared range, lower VLT.
Applications: For Nd: YAG, Fiber laser.



Light device

Easy to operate at night



1) Ring marking rotary



2) General rotary



3) Integrated rotary

Rotary

Advantage of Wintek laser marker:

- 1) Under operation system: windows xp , windows 7 ,windows 8/10
- 2) Support Characters , digital, series NO, Date codes
- 3) Various types of fonts are supported. Such as TrueType, JSF(Single line font), DMF(Dot Matrix Font,One-Dimensional bar code, Two-Dimensional bar code , and so on
- 4) Common types of images are supported. (bmp, jpg, gif, tga, png, tif...)
- 5) Common vector images are supported. (ai, dxf, dst, plt...)
- 6) Flexible variable text : changes the text real time while in laser processing . Excel data sheet is supported.
- 7) Imported fiber laser system
- 8) Excellent optical mode, long operating life.
- 9) The highest electro-optical conversion efficiency, up to 80%, but gross power less than 600W
- 10) Small size, steady, without maintenance, easy to operate
- 11) High precision, suited for fine processing on all metal and some non-metal.
- 12) This machine adapts the fiber laser and has high electro- optical conversion rate, the quality of laser beam is good,cooling withair- cooling methods, it has smaller shape, low power and much more energy-efficient.
- 13) Divergent Angle is about a quarter of the pump laser semiconducto, especially mainly used in precise, fine marking3,low using cost, electro-optic conversion efficiency is up to 30%

After sale service for [wintek cnc machines](#) :

1. 24 hours Technical support by Email or Calling .
2. English manual and CD video for machine using and maintaining.
3. Hardware: 1 years for machine, 6month for laser tube (without person damaged).

Software: Whole life on update for free.

Maintenance and technological support: Whole life.

Inner quality control system for [laser marking machine](#) :

In order to show you our best quality ,please allow me to introduce our quality control system as follows:

#.In the processing of production, our professional technical engineers inspect the processing to ensure the quality of products

- #.Every machine must be tested before delivery for 8 hours , all of them are absolutely qualified.
- #. Main parts(excluding the consumables) shall be changed free of charge if there is any problem during the warranty period.
- #.Lifetime maintenance free of charge.
- #.We will provide the consumable parts at an agency price when you need replacement.
- #.Machine has been adjusted before delivery.
- #.Our staff can be sent to your company to install or adjust if necessary.