

# HEAVY DUTY LASER MARKING EQUIPMENT



## PONTAX LASER MARKING MACHINE

is a type of laser marking system that utilizes a fiber laser source to create permanent marks on various materials. It is widely used in industrial applications for high-precision marking, engraving, and surface treatment of metals, plastics, ceramics, and other materials.



# LASER MARKING MACHINE

## DEKSTOP TYPE

Pontax Laser marking machine uses laser beam to make permanent marks on different material surfaces.

The effect of marking is to expose the deep material through the evaporation of the surface material, or to "carve" the trace through the physical change of the surface material caused by the light energy, or to burn off part of the material through the light energy, showing the patterns, words, bar codes and other graphics that need to be etched.

Desktop type is the most commonly used model. It is suitable for marking of nameplates and small metal parts.



### TECHNICAL PARAMETERS

Input voltage	220V/110V 50-60Hz
Machine power	≤500w
Repeatability	0.01 mm
MAX speed	7000 mm/s
Beam quality	<2
Weight	90Kg
Size	80*65*150cm
Laser power	20w/30w/50w
Wavelength	1064nm
MIN Character	0.3mm <sup>2</sup>
Marking Depth	0.01-1mm
Adjustable Frequency	20-80 kHz
Cooling	Air Colling
Marking Area	100x100mm/150x150mm /200x200mm Optional

### FEATURES

- Integrated computer & marking software
- Scanning galvanometer
- Professional wiring
- Large worktable
- Laser generator

### MARKING SAMPLE





# LASER MARKING MACHINE

## HANDHELD TYPE

Handheld laser marking machine is suitable for large mechanical parts (such as mold and frame). PONTAX handheld laser marking machine adopts integrated design, the galvanometer and optical path of the handheld part adopt integrated design, and the shell adopts engineering plastic, with a weight of only 2kg. The main box integrates a touch-screen laser control system to support the editing and marking of ordinary text, bar code, QR code and vector diagram. The battery can be selected, and the service life can reach 6-8 hours.



### TECHNICAL PARAMETERS

Input voltage	220V 50-60Hz
Machine power	300w
MIN Line width	0.03mm
Repeatability	0.01mm
MAX speed	650 characters/s
Wavelength	1064nm
Marking area	50x50mm/100x100mm
System	Linux
Laser power	18w/20w/30w
Weight	7.5kg
MIN Character	1mm <sup>2</sup>
Marking depth	0.01-0.3mm
Adjustable frequency	20-80 kHz
Beam quality	<2
Ambient temperature	0-40
Cooling	Air Colling

### FEATURES

- Integrated design, the whole machine weighs only 7.5kg
- Touch screen control system based on Linux, low power consumption
- Optional with built-in battery, the endurance can reach 6-8 hours

### MARKING SAMPLE



# LASER MARKING MACHINE

## SPLIT TYPE

Pontax Laser marking machine is the best metal marking (engraving) equipment. Fiber laser marker can mark steel, aluminum, copper, alloy, silver, gold, etc. If you are looking for the best fiber laser marking machine for your metal marking project, EMIT is your best partner. As a laser marking machine manufacturer, we will supply you with the lowest cost and the best quality laser marking machine.



### TECHNICAL PARAMETERS

Input voltage	220V/110V 50-60Hz
Machine power	500w
MIN Line width	0.02mm
Repeatability	0.01mm
MAX speed	7000mm/s
Wavelength	1064nm
Marking area	100x100mm/150x150mm/ 200x200mm Optional
Supported Windows	WIN 7,8,10
Laser power	20w/30w/50w
Weight	35kg
MIN Character	0.3mm <sup>2</sup>
Marking depth	0.01-0.1mm
Adjustable frequency	20-80 kHz
Beam quality	<2
Cooling	Air Colling

### FEATURES

- Small footprint, easy to install to the production line
- Light weight, easy to move
- Universal USB interface, easy to connect with existing computer

### MARKING SAMPLE





# LASER MARKING MACHINE

## PORTABLE TYPE

Pontax portable laser marking machine, miniature and compact design, optimizes the internal structure and body heat dissipation system. The weight of the whole machine is only 14.65kg, which can be easily carried with one hand. In addition, given the risk that frequent movement of portable models could lead to bending of the fiber-optic path, we have integrated the fiber-optic path within the fuselage without any exposed fiber optics.



### TECHNICAL PARAMETERS

Input voltage	220V 50-60Hz
Machine power	≤500w
MIN Line width	0.02mm
Repeatability	0.01mm
MAX speed	7000mm/s
Beam quality	<2
Size	57.2*16.5*29cm
Laser power	20w/30w/50w
Wavelength	1064nm
MIN Character	0.3mm <sup>2</sup>
Marking depth	0.01-1mm
Adjustable frequency	20-80 kHz
Cooling	Air Colling
Weight	14.7kg
Marking area	100x100mm/150x150mm /200x200mm Optional

### FEATURES

- Lightweight design, easy to carry
- The fiber is located inside the fuselage and there is no risk of bending
- Universal USB interface, easy to connect with existing computer

### MARKING SAMPLE



# LASER MARKING MACHINE

## TOTALLY ENCLOSED

Pontax Laser marking machine uses laser beam to make permanent marks on different material surfaces.

The effect of marking is to expose the deep material through the evaporation of the surface material, or to "carve" the trace through the physical change of the surface material caused by the light energy, or to burn off part of the material through the light energy, showing the patterns, words, bar codes and other graphics that need to be etched.

Desktop type is the most commonly used model. It is suitable for marking of nameplates and small metal parts.



### TECHINICAL PARAMETERS

Input voltage	220V/110V 50-60Hz
Machine power	≤500w
MIN Line width	0.02mm
Repeatability	0.01mm
MAX Speed	7000mm/s
Beam quality	<2
Size	65*102*150cm
Laser power	20w/30w/50w
Wavelength	1064nm
MIN Character	0.3mm <sup>2</sup>
Marking depth	0.01-0.1mm
Adjustable frequency	20-80 kHz
Cooling	Air Colling
Weight	160 Kg
Marking area	100x100mm/150x150mm/ 200x200mm Optional

### FEATURES

- Big work platform
- Cover opening protection
- Integrated computer and marking softwer
- Enclosed design, isolation of light radiation

### MARKING SAMPLE





# FLY LASER MARKING MACHINE

The flying laser marking machine uses an encoder to synchronize the moving speed of the product to the marking system. In the engraving process, the products on the production line can flow without stopping, which greatly improves the production efficiency and makes the laser marking machine adapt to the requirements of industrial production line.

A fly laser marking machine is a type of laser marking system that is specifically designed for marking objects while they are in motion. It is commonly used in industrial applications for high-speed marking on products such as packaging materials, metals, plastics, and other materials.



## TECHNICAL PARAMETERS

Input voltage	220V/110V 50-60Hz
Machine power	≤500w
MIN Line width	0.02mm
Repeatability	0.01mm
MAX Speed	7000mm/s
Beam quality	<2
Size	66*90*146cm
Laser power	20w/30w/50w
Wavelength	1064nm
MIN Character	0.3mm <sup>2</sup>
Marking depth	0.01-1mm
Adjustable frequency	20-80 kHz
Cooling	Air Colling
Weight	70kg
Marking area	100x100mm/150x150mm /200x200mm Optional

## FEATURES

- Integrated computer & marking software
- Embedded system based on Linux
- Support TCP / IP communication
- Multiplex expansion I / O
- Intelligent vector algorithm supports high speed pipeline marking

## MARKING SAMPLE





# UV LASER MARKING MACHINE

## UV LASER

Ultraviolet laser marking machine uses third-order intracavity frequency doubling technology to generate 355nm laser, which has a very small focus spot and can achieve ultra fine marking and engraving. The marking effect of ultraviolet laser is to directly break the molecular chain of material by short wavelength laser, so the heating is minimal and the mechanical deformation of material can be reduced to a large extent. UV laser is suitable for marking on the surface of packaging bottles of cosmetics, drugs, food and other polymer materials.



### TECHNICAL PARAMETERS

Input voltage	220V/110V 50-60Hz
Machine power	≤500w
MIN Line width	0.02mm
Repeatability	0.01mm
MAX speed	7000mm/s
Operating temperature	10-35
Size	80*65*150cm
Laser Power	3w/5w/10w
Wavelength	355nm
MIN Character	0.3mm²
Beam quality	<1.3
Repetition frequency	20-500 kHz
Cooling	Water Colling
Weight	120kg
Marking area	100x100mm/150x150mm /200x200mm Optional

### FEATURES

- Small focus spot, ultra-fine marking
- Cold laser, no thermal effect
- Will not cause scorch or deformation

### MARKING SAMPLE



# CCD VISUAL POSITION LASER MARKING MACHINE

Combined with CCD visual positioning system, it can automatically identify product features, quickly locate and mark workpieces, without fixture. Greatly reducing manual participation. It can mark multiple products at one time, and can also carry out automatic feeding on the assembly line and fully automatic marking. It is easy to be compatible with automatic assembly lines of multiple products.



## TECHNICAL PARAMETERS

Input voltage	220V/110V 50-60Hz
Overall power	≤2Kw
MIN Line width	0.02mm
Repeat accuracy	0.1mm
MAX speed	7000mm/s
Camera pixels	1.3/5/10 million
Overall size	85*65*150cm
Laser power	3w/5w/10w/30w/50w
Laser type (optional)	Fiber/CO2/UV
MIN Character	0.3mm <sup>2</sup>
Positioning accuracy	0.08mm
OS	Win7/Win10
Software	Visual marking software
Overall weight	110Kg
Cooling	Air Colling
Marking area	150x150mm/200x200mm /250x250mm

## FEATURES

- Automatic recognition and positioning of product contour
- No fixture is required, and products can be placed at will
- Automatically detect whether the product has been marked
- High resolution camera and efficient images to realize accurate positioning.

## MARKING SAMPLE







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