

Laser Marking



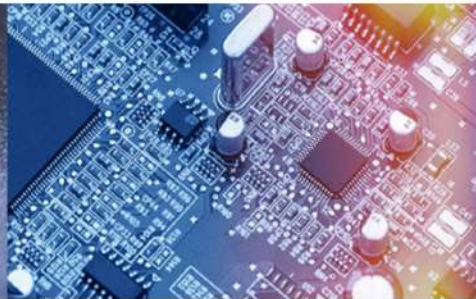
Application



Advantage



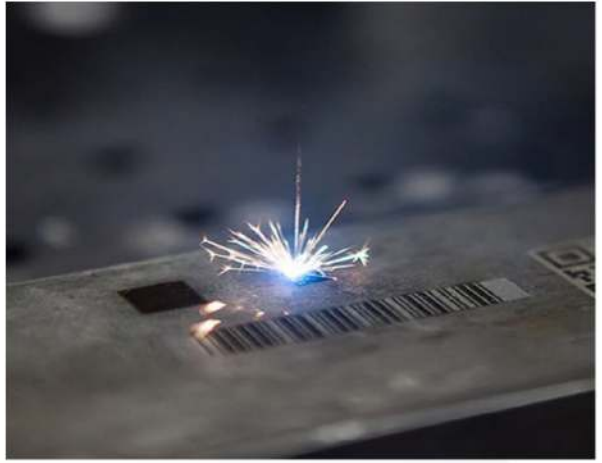
Specification



**Laser for industrial
material processing**

Laser Marking Solution

Laser marking uses a focused beam of light to mark the surface of the material. Targeting a specific area allows the laser marking device to produce precise, high-quality, high-contrast signals that are easy to read or scan at any level. This feature makes it ideal for applications where accuracy and durability are critical to success. Laser marking methods offer many advantages. The list of common advantages includes the ability to produce permanent, high-quality, no-contamination symptoms, no personality distortion because it is non-contact, easily automated, and integrated into production systems and can be highly efficient and efficient.



Application

Laser marking machine has a wide range of applications and is primarily used for marking logos, words, brands, dates, serial numbers, category numbers, markings, drawings, photographs, QR codes, etc. on metal surfaces and non-metallic materials. This feature of these systems can be used in various industries for engraving on parts and products.



Material

- Aluminum
- Gold
- Anodized aluminum
- stainless steel
- Copper
- Brass
- Steel
- Titanium
- Iron
- Silver
- Alloy



Advantage

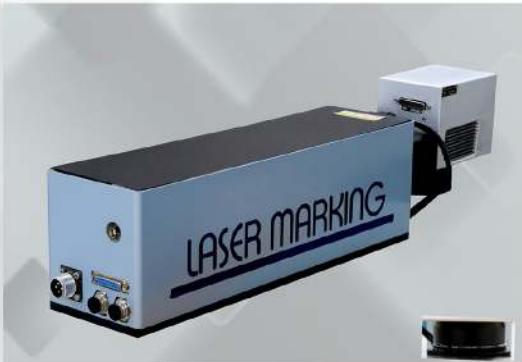
- It is LASER. Isn't that enough?
- High-accuracy marking
- Non-fading marking
- High-speed marking
- Low operation cost
- High-contrast marks
- No contact
- Compact setup
- Minimal consumables





Specification

The laser used in this system is a solid-state laser type "Nd: YAG" using a side pump which is pulsed using acousto-optical switch method. Using the pulse mode has a better efficiency and also much fewer thermal effects in the marking area. During the engraving process, using a two or three-dimensional scanner, the image is engraved in two or three dimensions on the parts. using the adjustable Z-axis, the laser beam can be focused on the material surfaces in the best position. The laser cooling operation of the system should be performed using a water-cooled chiller. The laser system can be easily controlled and used through a software installed on a computer. Using this type of laser leads to engravings with high accuracy and quality on the material. The high-quality components used in our laser marking systems lead to high performance, good beam quality and low maintenance and low-cost manpower results in the low final cost of our systems.



Type of Laser	Diode-Pumped Solid-State
Laser power	80W
Laser wavelength	1064nm
Mode of Operation	CW/Pulsed
Peak Power 90 kw	90 kw
Repetition Rate	5-35 KHz
Marking Speed	4500mm/s
Supported Files	.DWG, .PLT, .DXF
Operating Temperature	15-35°
Power supply	AC220V ± 10% 50 / 60HZ
Cooling system	water cooling



Expand your Capabilities

Using marking laser rotary, there is the ability to mark cylindrical and round objects. The rotary marking attachment allows you to mark rotating objects so that the laser always works in focus. With the rotary marking attachment, you can laser mark components 360°, both on the circumference and on the inside. In order to use the rotary marking attachment, you must first connect it. Our technicians in NLS will train you how to connect a rotary to a laser mark, both mechanically and in terms of software. Once connected, it can be completely controlled via laser software.



Support

Our engineers select the components of the system according to your application. In the initial installation and training phase, our technicians exclusively optimize your system parameters to maximize your productivity and provide complete training for your operators. Our support team can help you to achieve the best results and to solve your problems. we are aimed to ensure that you get the most out of your investment in laser technology. So, WE ARE HERE TO HELP YOU.

