

## Nd:YAG Laser Marking Systems

Laser marking methods offer several advantages when compared to traditional marking and labelling practices. A list of typical advantages might include ability to produce high-quality permanent and contamination-free marks, no character distortion since the method is non-contact, easily automated and integrated into manufacturing systems, and can have high speeds and throughputs.



The flexibility of laser marking often helps improve the product quality, traceability, process control, and customer satisfaction. Laser marking systems are often more economical, especially when applied to high production line applications. Imported key components used in our laser marking systems result in high performance, good beam quality & low maintenances. We also use high-speed optical galvanometers made in USA for laser beam scanning and our own powerful laser marking software. Our laser marking systems are being widely used in laser marking of hard, fragile or soft products or materials in production lines.

	M-YAG-50G	M-YAG-100G
<b>Laser Head</b>		
Laser type	Lamp-pumped Nd:YAG lasers	
Laser wavelength	1064 nm	
Beam diameter	3mm	5mm
Beam mode	Multi-mode (TEM <sub>00</sub> mode available upon request)	
Laser power	50W	100W
Output stability	±3%	
Cooling method	Closed water cooling	
Power requirements	380VAC, 6.5KVA	380VAC, 8KVA
<b>Marking Head</b>		
Scanner	High-speed optical galvanometers	
Marking field	100x100 mm(others available upon request)	
Max marking speed	300 characters/second or 10m/s	
Marking line	Min. 0.05mm	
<b>Marking software</b>		
Various fonts, pictures (PLT, BMP), automated series numbers, barcodes, DataMatrix		
<b>Options</b>		
XYZ stage, cooler, condensing unit, chiller		

### Typical Applications:

1. Laser marking of metal & non-metal materials and products: stainless steel, copper, aluminium alloy, ceramics, plastics, organics, thermo-elastomer rubbers, paper, name cards, turbine blades
2. Electronic industry: capacitor, inductor, PCB, IC, connector, control panel, instrument
3. Others: cosmetics, food package, bottle, gift, advertisement & sign crafts, craft & gift making

**Other Nd:YAG lasers & customised laser marking systems available upon request.**

# Laser Marker M-YAG-50-G (Configuration II):

Gross weight: 380kg

