



LMT2000N Series Portable Fiber Lasers

Design Win

- Creative, concise, fashion, light and handy design.
- Total solution 0.5 m2 small footprint, applicable to most working environment.
- Expected MTBF: >100,000 hours, based on existing data
- 5,000 hours continuous operation based on field test for a group of samples
- High energy density, high intensity beam provides a high quality mark in short cycle time
- Laser power calibration, marking effect for individual laser power setting appears as on day one.
- High pulse frequency, higher processing speed expected.
- Armored optical fiber, secured electronic interface for safe operation, software controls and alarms to protect laser.



The LMT2000N series portable laser marking machine featuring portable, air cooled, high speed fiber laser marking machine. The lasers provide high quality laser beam characteristics including a long focal tolerance combined with up to 2mJ/ pulse energies and high average powers at 1064nm, allowing these systems to achieve high-speed, rapid deep marking of metals or composite materials on flat and curved surfaces and offers user best-in-class reliability with a low cost of ownership.

Laser Marker Specifications	LMT2010N	LMT2020N	LMT2030N
Wavelength (nm):	1064	1064	1064
Average output power (W):	10	20	30
Typical peak power (kW):	6 (20kHz)	8.5 (20kHz)	12 (30kHz)
Pulse frequency (kHz):	20-250	20-250	30-250
Beam Quality (M2):	<2	<1.8	<1.6
Minimal Character Size (mm):	0.15	0.15	0.15
Maximal Marking Depth (mm):	≤0.4m	≤0.5	≤0.8
Minimal Marking Width (mm):	0.01	0.01	0.01
Maximal Marking Speed (mm/s):	≤7000	≤7000	≤7000
Positioning Accuracy (mm):	+/-0.002	+/-0.002	+/-0.002
Laser Expected MTBF (hours):	100,000	100,000	100,000
Working Temperature (°C):	0-40	0-40	0-40
Power Consumption (W):	≤500	≤500	≤500
Dimension (mm):	650*300*700	650*300*700	650*300*700
Cooling:	Air Cooling	Air Cooling	Air Cooling
Weight (Kg):	50	50	50



Lens Configuration

Focal Length (mm)	Marking Field (mm ²)
80	50*50
100	70*70
160	100*100
210	150*150
254	175*175
330	200*200
430	300*300

Identification of any part

The LMT2000N series lasers available in 3 power ranges to maximize marking capabilities:

- LMT2010N economical solution is particularly suited for plastics, anodized aluminum and for annealing (surface marking) stainless steel.
- LMT2020N versatile, high performance solution used on aluminum, steel, titanium, cast iron. Fast high-contrast marks.
- LMT2030N powerful solution for the most demanding applications in terms of speed and depth of marking.

Applications:

Surface marking:

Identify each component with text, logo, serial number, graphics, etc.:
cutting tools, plumbing fixtures, cooking appliances, electrical connectors...

Engraving:

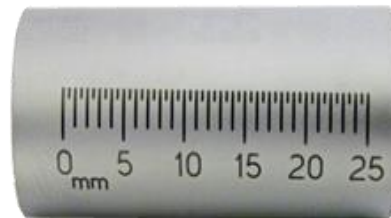
Mark by coating removal or mark on cast, rough surfaces:
ID plates, pistons, plastic casings, engine parts.

DataMatrix™, barcodes traceability:

Accurate and repeatable marks ensure the codes marked will be read through the process:
gear parts, aerospace components, ear tags...

Matrix part marking

Mark batches of parts in one go and on the tiniest surfaces:
keys and door locking systems, push buttons, medical prostheses, electromagnets,...



Software:

Graphics-orientated user interface under Windows 2000/XP/7 for the intuitive and fast preparation of complete marking jobs on PCs.

Easy access to standard CAD and graphics programs, support EPS, PLT, DXF and most vector files

Text/ data/ graphics/ parameter editor.

Multi-Language supported.

Communication:

Ethernet, TCP/IP, RS232 interface.