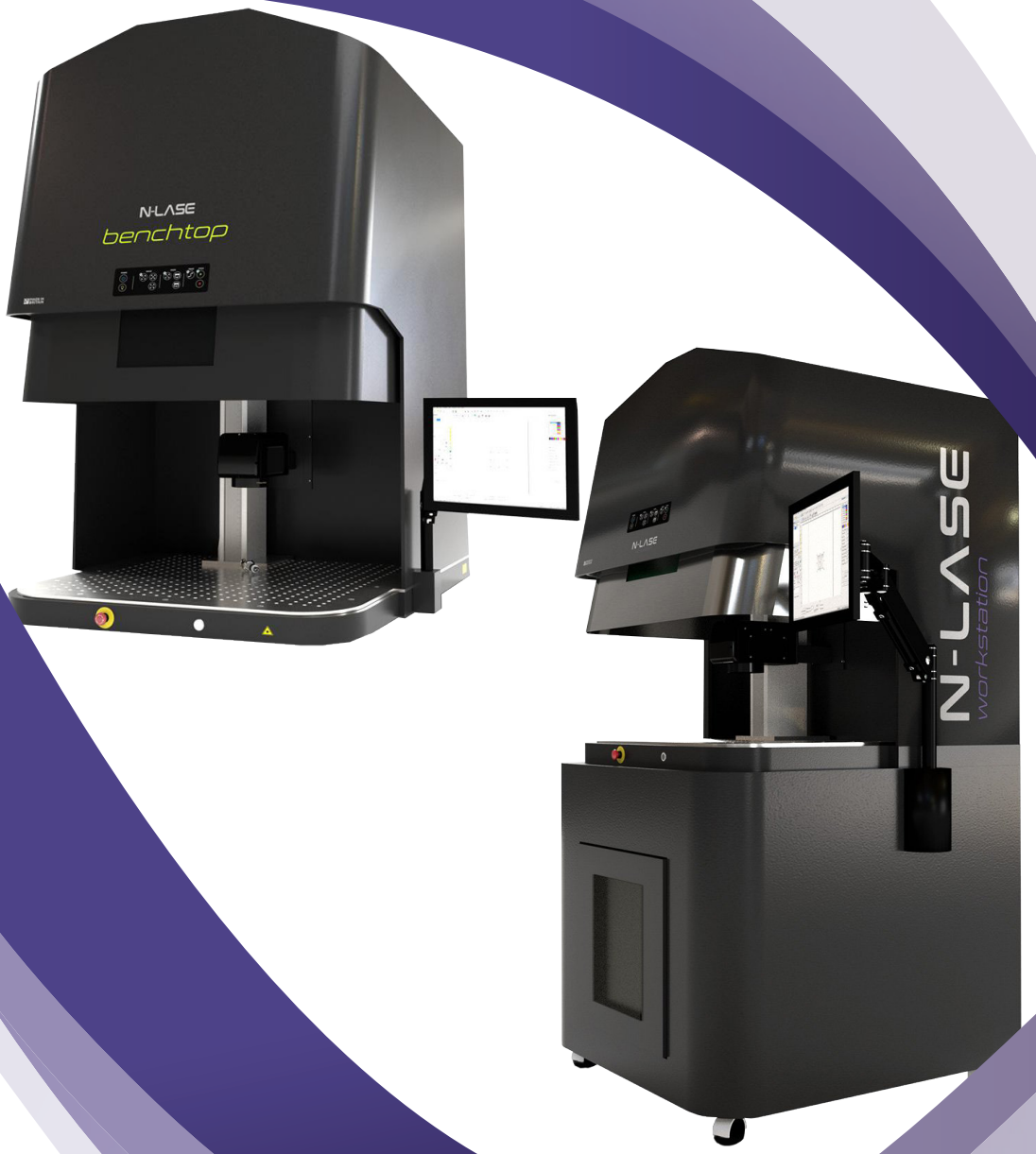
TOKIMEKU

Your Customised Solutions Provider



NEEDHAM LASER MACHINES

NEEDHAM - ROBUST, FLEXIBLE, HIGH SPEED

Needham Laser Technologies is UK's leading manufacturer of industrial laser systems. With decades of experience in the development and manufacturing of laser marking solutions, Needham is committed to building innovative, cutting-edge systems that offer reliability, durability and affordability.

ROBUST | HASSLE FREE MAINTANENCE

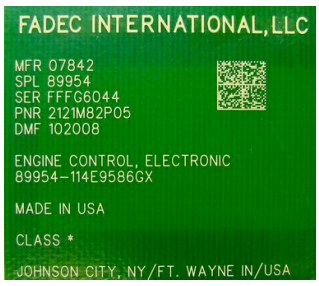
- No consumables needed
- 40,000 hours of Mean Time Between Failure (MTBF) at 100% capacity
- 3 Years Warranty for Laser Head (Needham)

FLEXIBLE | FULLY CUSTOMIZABLE

- Standalone options and customised solutions available
- Can be integrated to serve almost all applications
- Communication with production software possible
- Easy to use UI and smooth UX with minimal training needed

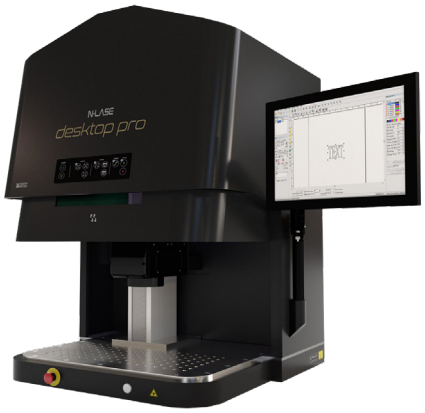
HIGH SPEED | HIGH YIELD

- Designed for high production output
- High quality marking on a wide range of materials possible
- Consistent marking results

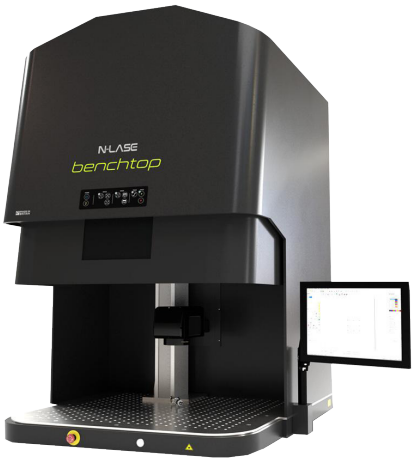


TECHNICAL SPECIFICATIONS

Needham N-Lase Desktop



Needham N-Lase Desktop Pro



Needham N-Lase Benchtop

N-Lase Desktop/Desktop Pro Series

Type Specification	JPT 20W-50W MOPA
System Dimension	600mm x 600mm x 940mm (WxDxH)
Standard Marking Field	160 (100mm x 100mm) Max Part Height: 300mm
Laser Type	Ytterbium Fiber
PC (Desktop Series)	Laptop/Desktop Required
PC (Desktop Pro Series)	PC, monitor, keyboard, mouse included
Nominal Output Power	20-50W
System Weight	110 kg

N-Lase Benchtop

Type Specification	20W-100W SPI RMZ Dual Waveform MOPA
System Dimension	800mm x 1000mm x 1340mm (WxDxH)
Standard Marking Field	160 (100mm x 100mm) Max Part Height: 450mm
Laser Type	Ytterbium Fiber
PC	PC, monitor, keyboard, mouse included
Nominal Output Power	20-100W
System Weight	186 kg

TECHNICAL SPECIFICATIONS

N-Lase Workstation	
Type Specification	20W-100W SPI RMZ Dual Waveform MOPA
System Dimension	800mm x 1000mm x 2100mm (WxDxH)
Standard Marking Field	160 (100mm x 100mm) Max Part Height: 450mm
Laser Type	Ytterbium Fiber
PC	PC, monitor, keyboard, mouse included
Nominal Output Power	200 - 500W
System Weight	222 kg

	N-Lase Integrated	N-Lase Integrated Max
Type Specification	JPT 20W-50W MOPA	JPT 20W-100W MOPA
System Dimension	520mm x 440mm x 132mm (WxDxH)	900mm x 440mm x 132mm (WxDxH)
Standard Marking Field	160 (100mm x 100mm)	
Laser Type	Ytterbium Fiber	
PC	Laptop/Desktop Required (not included)	
Nominal Output Power	200-50W	
System Weight	25 kg	30 kg

LASER SOURCE AND MATERIALS

	Material	UV Laser	Fibre Laser	CO2 Laser
Resin	Epoxy Resin (EP)	Excellent	Good	Good
	ABS Resin (ABS)	Excellent	Good	Acceptable
	PA	Excellent	Acceptable	Good
	Polycarbonate (PC)	Excellent	Good	Good
Metal	Stainless Steel (SUS)	Good	Excellent	Not able to mark
	Titanium (Ti)	Good	Excellent	Not able to mark
	Cast Iron	Good	Excellent	Not able to mark
	Aluminum (Al)	Good	Excellent	Not able to mark
	Copper (Cu)	Excellent	Acceptable	Not able to mark
Others	Ceramic	Excellent	Good	Good
	Silicon (Si)	Excellent	Acceptable	Acceptable

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