# Economical Laser Marking

In A Compact Desktop System.

**TYKMA ELECTROX**

Industrial Laser Systems

## MLMe SERIES

**Minilase™ e is economical, yet powerful, and is packed with cutting edge features.**

The MLMe fiber laser system is heavy on capability, but lite on investment. The manual front door is lightweight and ergonomic thanks to a spring loaded retraction system. A fold-out, side panel touch screen provides operator control and feedback as well as machine status at all times. Create your own custom part fixtures or utilize the high precision lab jack for focal height adjustment. Get the full view of your marking process through a large vertical safety window. A built in port is available for fume and dust extraction.

Programming with our Minilase™ Pro SE software enables you to easily mark text, barcodes, serial and date codes, graphics and more. All you need is a desktop or laptop with a USB connection to begin marking, etching and engraving!





**FEATURES:**

- Air-Cooled, Maintenance Free Design for Industrial Applications

- Powerful 10W Fiber Laser Engine

- Manual Part Loading Door

- Side Mounted Fold-Out Touchscreen Control

- Precision Lab Jack for Focal Height Adjustment

- Easy Focus Finder

- Front Panel Status Lights

- Ideal for Marking all Metals, Most Plastics, Painted/Anodized/Coated Materials and a Variety of Other Substrates

- Comprehensive 3-Year Warranty

## Technical Specifications

| | |
|---|---|
| System Dimensions / Weight | 17"W x 34"L x 24"H / 130lbs<br>(mm) 432W x 864L x 610H / 60kg |
| Standard Marking Field | 160S (100mm x 100mm)<br>(3.93" x 3.93") |
| Standard Max Part Size (160S Lens)<br>Using Optional Labjack Accessory | 13.5"W x 9.5"L x 4.625"H<br>(mm) 342W x 241L x 117H |
| Available Marking Lens<br>Upgrade and Marking Field | 254S (140mm x 140mm, 5.5" x 5.5") |
| Maximum Part Height with Lens Upgrade<br>Using Optional Labjack Accessory | (254S) .625"H/15mm |
| Laser Type | Ytterbium Fiber |
| Wavelength (Nominal) | 1064nm |
| Wattage | 10W |
| Frequency Range | 2kHz - 200kHz |
| Pulse Duration | 100ns |
| Operative Ambient<br>Temperature Range | 0 - 36˚C, 32 - 97˚F |
| Cooling | Air Cooled |
| Input Power | Power Sensing 110-240VAC 50/60Hz |
| Aiming Beam | (2) Class IIM Red Diode (635nm) |
| PC | Laptop/Desktop PC Required |
| PC Connection | USB |
| Available Ports | Diagnostic |
| Warranty | 36 Month Comprehensive<br>Unlimited Hours |
| Documentation | USB Drive / Quick Start Guide<br>Video Tutorials / Software Manual<br>Safety Manual / Laser Settings Manual<br>(Manuals Provided in Digital Copy) |
| Optional Accessories | • Fume Extraction |

Minilase™ e is a Class 1 laser product in full compliance with CFR 1040. The system includes proper interlocks, switches, etc.

Laser interaction with materials can create fumes and/or particles. TYKMA Electrox highly recommends the use of fume extraction equipment to minimize dust, fumes or smoke that can be created during the marking, etching or engraving process.

*TYKMA Electrox follows a policy of continuous product improvement. Specifications are subject to change without notice.*

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**TYKMA ELECTROX**

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