

## Versatile Configuration.

Powerful Control.







## **MLK SERIES**

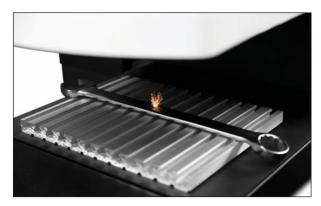
Minilase Keon™ takes laser marking innovation to the next level.

A revolutionary, patent-pending design provides users the flexibility to mark both small parts and large parts. A four-sided collapsible power shroud provides a protected Class 1 marking configuration. In addition, with password protected control, the system can be switched to a Class 4 workstation for large or irregular part configurations.

The 13" sliding track system permit the safety shroud to move to the rear of the machine allowing full access to the large T-slot work surface. The system comes equipped with a laser control rack and an integrated touch panel interface for laser control. A secondary touch panel display on the front of the laser system provides constant machine feedback.

A USB connection to a laptop or desktop PC is all that is required to start programming with our Minilase™ Pro SE laser marking software. Quickly mark text, barcodes, serial and date codes, graphics and more. Utilize our micro or full size rotary device in Class 4 mode for 360° radial part marking.

With our Quick Start Guide, video tutorials and laser programming manual, Minilase Keon™ can be setup and marking within minutes.





## **FEATURES:**

- Air-Cooled, Maintenance Free Design for Industrial Applications
- Advanced MOPA Fiber Laser Engine from 10 to 30W with Selectable Pulse Durations
- Class 1 or Class 4 Laser Mode Operation
- Four-Sided Collapsible Power Shroud with Sliding Track System
- Touchscreen Display for Machine Control and Laser Setup as well as Machine Function Feedback
- Power Focal Height Adjustment with Easy Focus Finder
- Ideal for Marking all Metals, Carbide, Painted/ Anodized Materials and most Plastics
- Comprehensive 3-Year Warranty

| Technical Specifications                             |                                                                                                                                                                   |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Dimensions / Weight                           | (Keon) 17"W x 31"L x 32"H / 160lbs<br>(Rack) 17"W x 15.75"L x 5.2"H / 50lbs                                                                                       |
| Standard Marking Field                               | 160S (100mm x 100mm)<br>(3.93" x 3.93")                                                                                                                           |
| Standard Max Part Size<br>(160S Lens)                | (Class 1 Mode) 13.5"W x 9.5"L x 5.625"H<br>(mm) 342W x 241L x 142H<br>(Class 4 Mode) 13.5"W x 9.5"L x 7.625"H<br>(mm) 342W x 241L x 193H                          |
| Available Marking Lens<br>Upgrade and Marking Fields | 254S (140mm x 140mm, 5.5" x 5.5")                                                                                                                                 |
| Maximum Part Height<br>with Lens Upgrade             | Class 1 Mode (254S) 1.5"/38mm<br>Class 4 Mode (254S) 3.5"/90mm                                                                                                    |
| Laser Type                                           | Ytterbium Fiber                                                                                                                                                   |
| Wavelength                                           | 1062nm +/- 3nm                                                                                                                                                    |
| Wattage                                              | 10W / 20W / 30W                                                                                                                                                   |
| Frequency Range                                      | 1kHz - 500kHz (10/20W)   1kHz-1,000kHz (30W)                                                                                                                      |
| Pulse Duration                                       | (10/20W) Selectable, 260ns or 40ns<br>(30W) 29 Selectable from 220ns - 15ns                                                                                       |
| Operative Ambient Temperature Range                  | 45° F to 110° 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                                 | <ul> <li>Micro or Full Size Rotary Device<br/>(360° Marking) (Class 4 Only)</li> <li>Fume Extraction (Class 4 Only)</li> <li>Footswitch for Start Mark</li> </ul> |

Minilase™ 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 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.

