

# M MarkinLASE



**simply limitless**

# 3-in-1

**Laser Marker**

# 3-in-1 New Laser Proposal.

For every day small parts, mark with the Class 1 Enclosure.

If parts exceed the Enclosure, mark with the Class 4 and Tool Post.

The Portable Enclosure is available for marking parts too large to carry.

With the 3-in-1 Series, the MarkinLASE-B can fit all of your Laser marking needs.

## ML-B-20 Class 4

Standard type economy marking.



Start simply with a Class 4 solution by attaching the Laser Head to the Tool Post.

A great option for marking parts that do not fit into an enclosure.

The Tool Post allows for a max part height, Up to 130mm (5.1").

**⚠️\*During operation without a Class 1 Enclosure or Portable version, protective eyeglasses are required.\***

## ML-B-20 Portable

Ideal solution for marking needs that cannot be easily lifted.



The portable attachment allows the user to be portable up to 2M (6' ).

The safety sensors are a standard feature and give you a safe & convenient marking solution.

Also, using the built in Hatch door, can act as a Mini-Enclosure.

# ML-B-20 Base

## 3-in-1 Concept Base

With a marking area of 100x100mm (4x4"), a 20W MOPA fiber, & 2M (6' ) Laser Head cable, gives you the flexibility of a 3-in-1 concept.

**⚠️ \*During operation without a Class 1 Enclosure or Portable version, protective eyeglasses are required.\***



# ML-B-20 Enclosure

## Reliable and safe Class 1 Enclosure

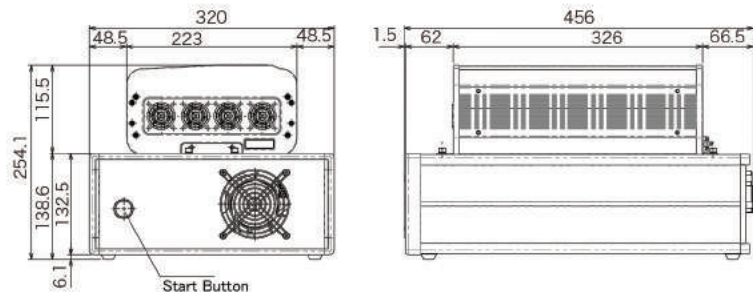


With a max part size of approx. 155mm (6.1") height and 220mm (8.6") square, a guide laser and a manual scissors jack installed as standard equipment, the ML-B Enclosure is the perfect solution for small parts.

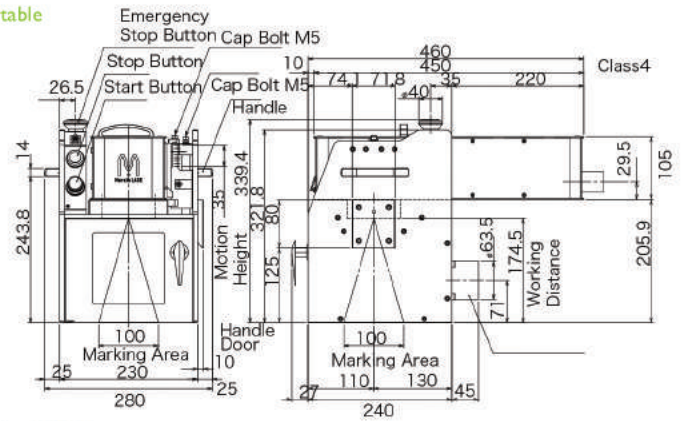
# Marking Sample



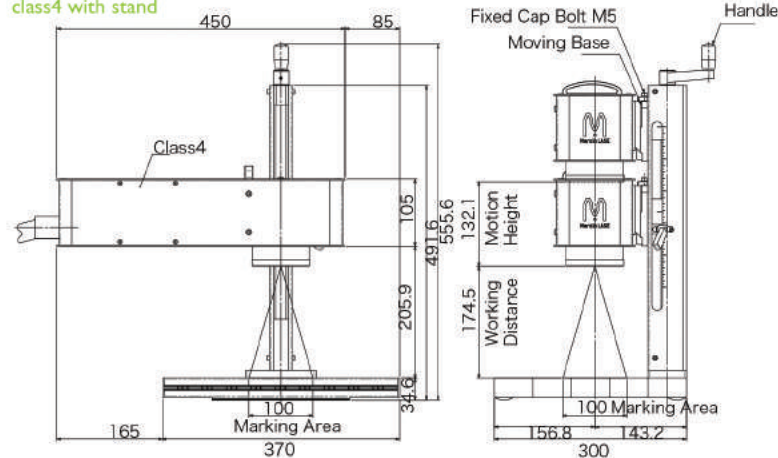
**MarkinLASE-B  
Controller**



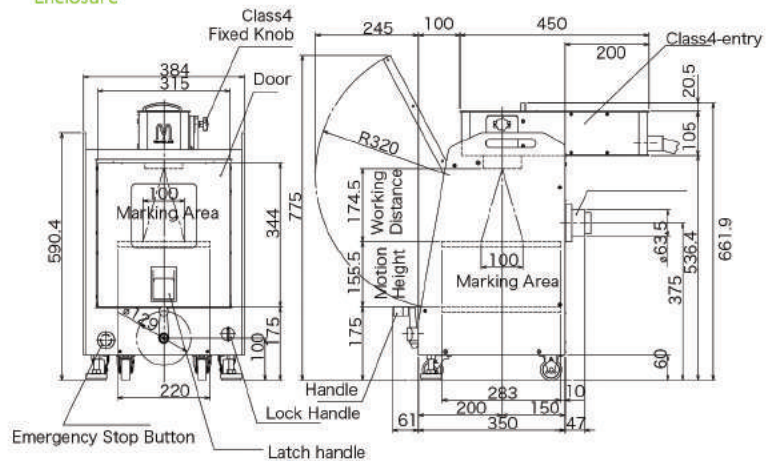
**MarkinLASE-B  
Portable**



**MarkinLASE-B  
class4 with stand**



**MarkinLASE-B  
Enclosure**



**MarkinLASE Laser Specification**

|                                    |  |
|------------------------------------|--|
| Power                              | 100-240V 50/60Hz Single phase  |
| Laser Type                         | MOPA Fiber wavelength: 1064nm  |
| Laser Source Average Power         | 20W  |
| Average Output at Processing Point | 17W (±5%) Pulse oscillation  |
| Repetition Frequency Tunable Range | 30-500 (kHz)   |
| Output Power Tunability            | 5-100(%)   |
| Guide Laser                        | Semiconductor laser wavelength : 650nm Class2 Laser  |
| Scanning Method                    | Galvano based scanning method  |
| Scanning Speed                     | Up to 5000mm/s   |
| Marking Area                       | 100mm x 100mm (4"x4")  |
| Distance from Target Object        | 174.5mm (6.87")  |
| Focusing Method                    | Manual   |
| I/O                                | D-sub26  |
| Ambient Temperature                | 0 to 40°C (32 to 104°F) *No dew condensation   |
| Ambient Humidity                   | 35%~85% RH   |
| Ambient Temperature for Storage    | -10 to 60°C (14 to 140°F) *No dew condensation   |
| Cooling Method                     | Forced air cooling   |
| Applicable Standards               | CE (Enclosure, Scanner, Laser Source, Power Unit)<br>IEC 62368-1, EN61000-6-4, EN61000-6-2                 |
| Applied Materials for Marking      | Metal (Iron, Aluminum, Stainless, Gold, Silver, Copper, Titanium and others)<br>Plastic (ABS, PA, PES, PP) |

**Windows Software Specification**

|                       |   |
|-----------------------|---|
| OS                    | Windows 7,8,10,11   |
| Fonts                 | Windows font<br>(Alphanumeric characters, Hiragana, Katakana, Chinese, Symbols, Others)   |
| Character Height      | 0.1mm to 100mm (0.001mm in steps)   |
| Marking Power Setting | Repetition frequency:30-500(kHz),<br>Output power :5-100(%)   |
| Marking Speed Setting | Scanning speed up to 5000mm/s   |
| Connectivity          | USB   |
| Logos                 | DWG, DXF, PLT, CNC, GBR, DST, AI, BMP, JPG, TIF, PNG, EMF, PCX, CMP, FPX, PLT, CAL, ICO, PS, EPS, CLP, WMF, CUR, PSD, TGA   |
| 1D Barcodes           | Code 39, Code 128, Code 128A, Code 128B, Code 128C, Code 93, Code Bar, ITF, MSI Code, Us PostNet, UPC-A, UPC-E, EAN 8, EAN 13, UCC128, EAN128, FIM, Code 25, ITF25, GS1 128 |
| 2D Codes              | DataMatrix(ECC000-140), DataMatrix(ECC200), PDF417, QR Code, MaxiCode, PDF417 Turncated, Micro PDF417, Micro QR Code, Aztec Code  |
| Serial Number Marking | 00000001 ~ 99999999   |
| Calendar Marking      | Year, Month, Week, Day, Hour (24H, 12H), AM or PM, Second   |
| Language              | English, Japanese, Chinese, Deutsch, Polska, Portugues, Turkish, Vietnamese   |

Note: Specifications are subject to change without notice due to quality improvement.



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