

Specifications

Laser Marker

HubLASER Specification Table	
Power Supply	100-240V 50/60Hz single phase
Laser Type	MOPA fiber with wavelength of 1064nm; Class 4
Average output Wattage	20W
Pulse Width Modulation	3ns – 800ns
Adjustable Frequency Range	20-500kHz
Adjustable Wattage Output	5-100%
Guide Laser	Semiconductor laser with wavelength of 650nm; Class 2
Beam Scanner	Galvo scanner
Scanning Speed	Up to 5000mm/s
Engraving Area	100mm x 100mm
Focal Distance from Scanner	174.5mm
Focus Method	Manual
D.I/O Communication	D-sub 36
Ambient Operating Temperature	0~40°C
Ambient Operating Humidity	35%-85% RH
Ambient Storage Temperature	-10~+60°C
System Cooling	Fan cooled
Compliance	CE (Scanner, Source, and PSU), IEC 62368-1, EN61000-6-4, EN61000-6-2
Material Applications	Metals (Fe, Al, CRES, Au, Ti, etc), Plastics (ABS, PA, PES, PP)

Windows Software Specifications	
OS	Windows 8,10,11
Character Types	Any standard characters available to PC: Alphanumeric, kanji, assorted symbols, etc.
Character Size Limits	0.1mm to 100mm
Engraving Parameter Limits	Power: 5-100%, Up to 5000mm/s
Engraving Parameter Limits	Frequency: 20-500kHz
PC Communication	USB
Compatible File Types for 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 Barcode	Code 39, Code 128, Code 128A, Code128B, Code128C, Code93, CodeBar, ITF, MSI Code, Us PostNet, UPC-A, UPC-E, EAN 8, EAN13, UCC128, EAN128, FIM, Code25, ITF25, GS1128
2D Barcode	Data Matrix (ECC000-140), Data Matrix (ECC200), PDF417, QR Code, Maxi Code, PDF417 Truncated, Micro PDF417, Micro QR Code, Aztec Code
Serial Number Range	00000001~99999999
Automated Date Engraving	Year, month, week, day, hour (24:00 or 12:00), minute, second, AM or PM
Supported languages	English, Japanese, Chinese, Korean,

Please note: Specifications are subject to change without notice as we continuously strive to improve product quality.



HubLASER



20W MOPA Fiber Laser Marker

Build Satellites Around a Central Hub.

As the name suggests, this laser marker allows you to build various satellite components—such as stands and enclosures—freely around a central hub. It's an all-in-one modular laser marking system, where the base can be swapped out according to the workpiece or operating environment.

HubLASER

Base



Mini Enclosure



Class4



Enclosure

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Base

Outstanding Cost Performance – The Essential Laser Marking Solution.

Outstanding Cost Performance – The Essential Laser Marking Solution

Perfect for integration into equipment or mounting onto custom-built stands and enclosures.

This 20W MOPA Fiber Laser offers precise marking within a 100 × 100 mm area with a standard lens.

Laser safety glasses required during use.



Includes a dovetail bracket. *compatible with all our tool post. The back panel of the controller.

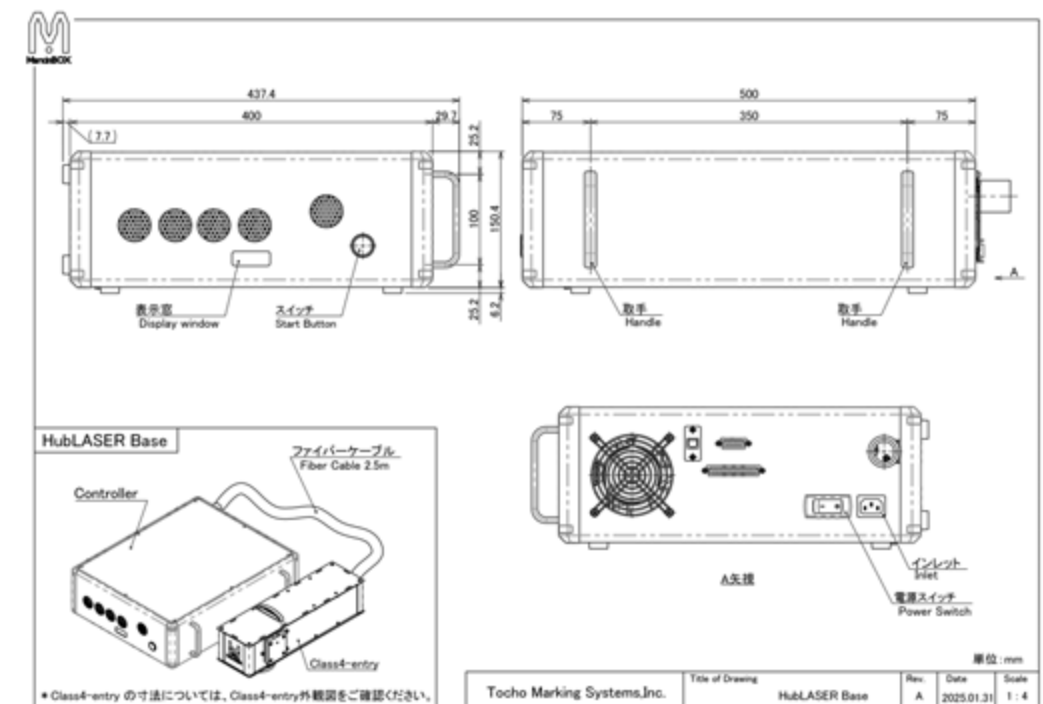


A flexible 2M connection cable.



MOPA color marking on stainless steel.

Drawing

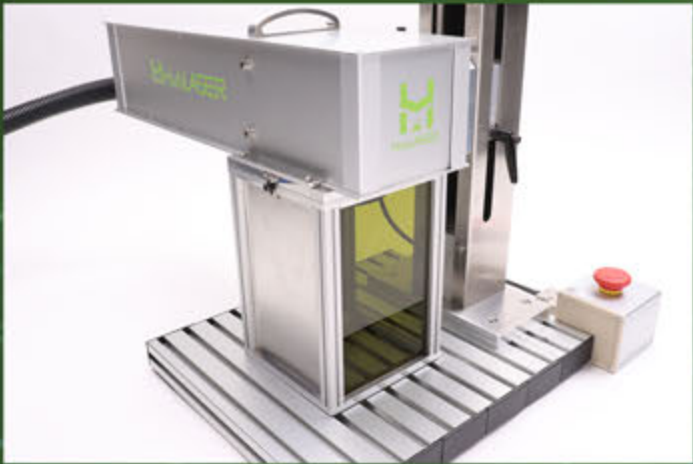


Class4

Economical Tool-Post Marking for Larger Workpieces.

Designed for offline use, this tool-post style laser marker is ideal for workpieces that do not fit inside standard enclosures.
Compatible with workpieces up to 130mm in height with a standard lens.

Laser safety glasses required during use.



An optional laser safety box is available.



Include a guide laser and E-stop set.

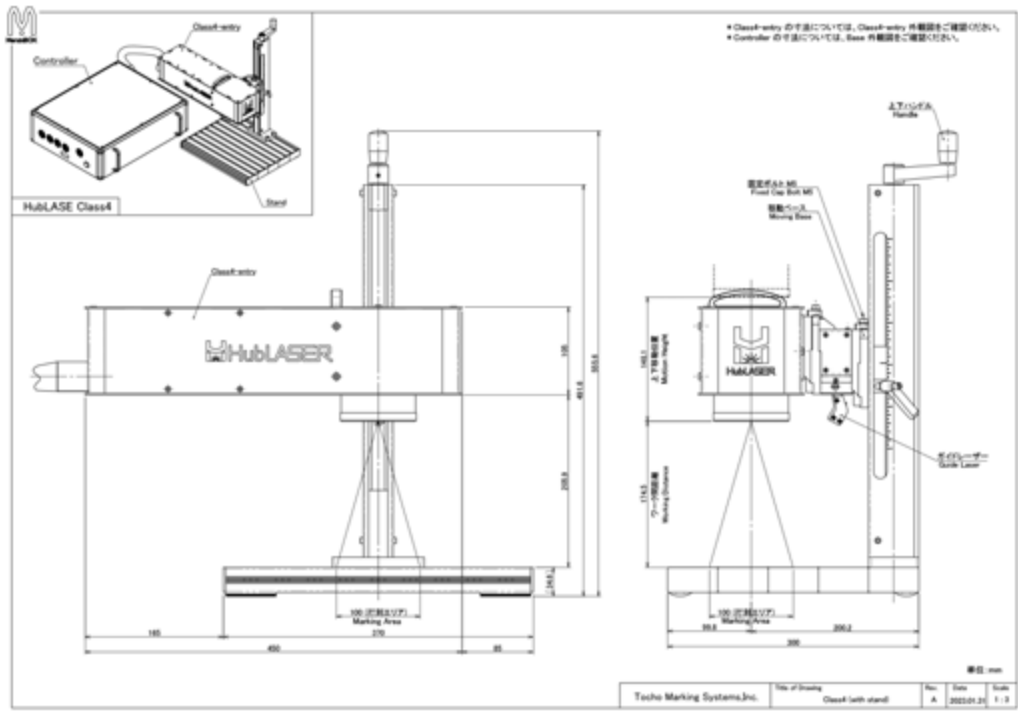


Marking on the end of the large cylindrical parts.



Marking the longitudinal direction of the large cylindrical parts.

Drawing



Mini Enclosure

The Ideal Solution for Larger Workpieces – Compact and Portable.

This compact, portable mini enclosure is perfect for flexible laser marking.

With approximately 2M of mobility from the controller, you can carry it directly to your workparts.



A guide laser for easy focus alignment.



A height adjustment knob supporting workparts up to 25mm thickness.

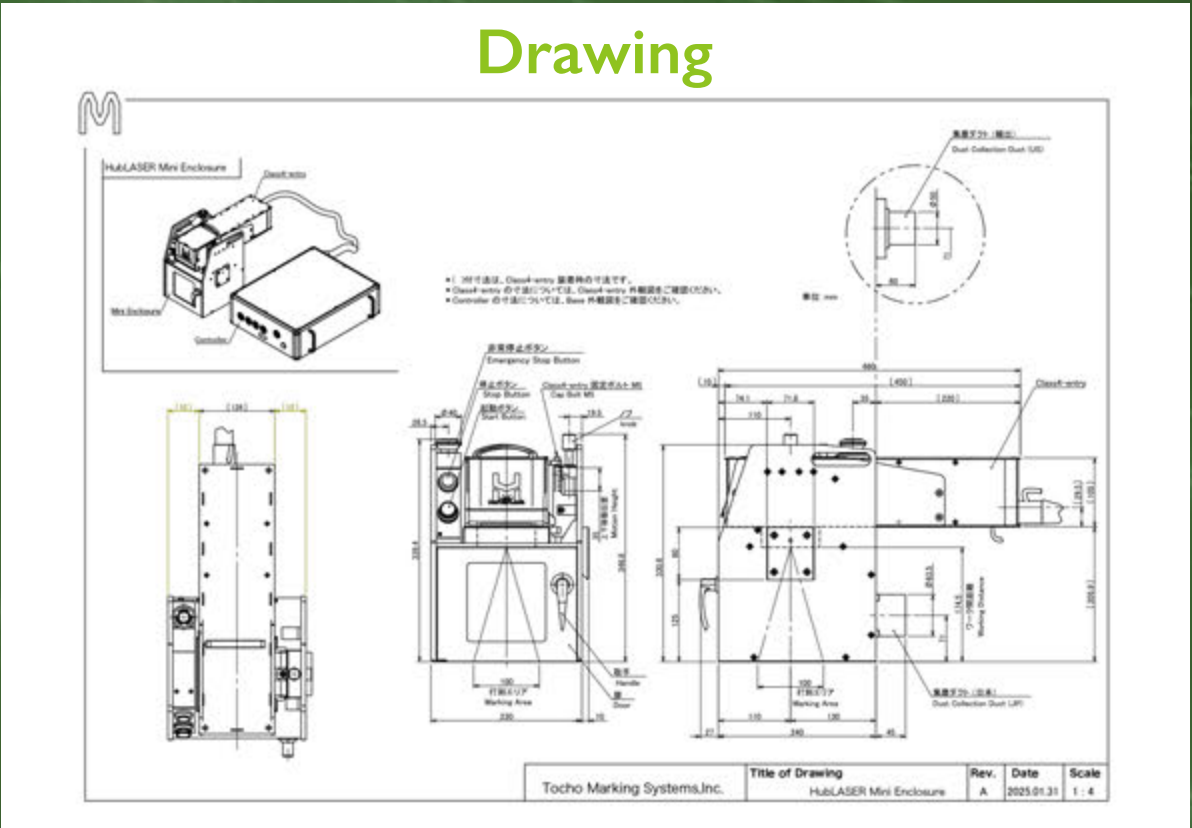


Marking on the hexagonal stainless rods.



Easy marking the arc text and QR code.

Drawing



Enclosure

Compact and Precise - Class I Laser Enclosure with safe.

The HL-B Enclosure delivers safe, efficient laser marking - no safety glasses required. It is ideal for small workparts and supports up to 155mm tall and 220mm wide dimensions - class 1 safety-compliant design for worry-free operation.



Includes dust extraction duct *exhaust system sold separately.



Built-in guide laser and manual jack scissors for precision height adjustment.

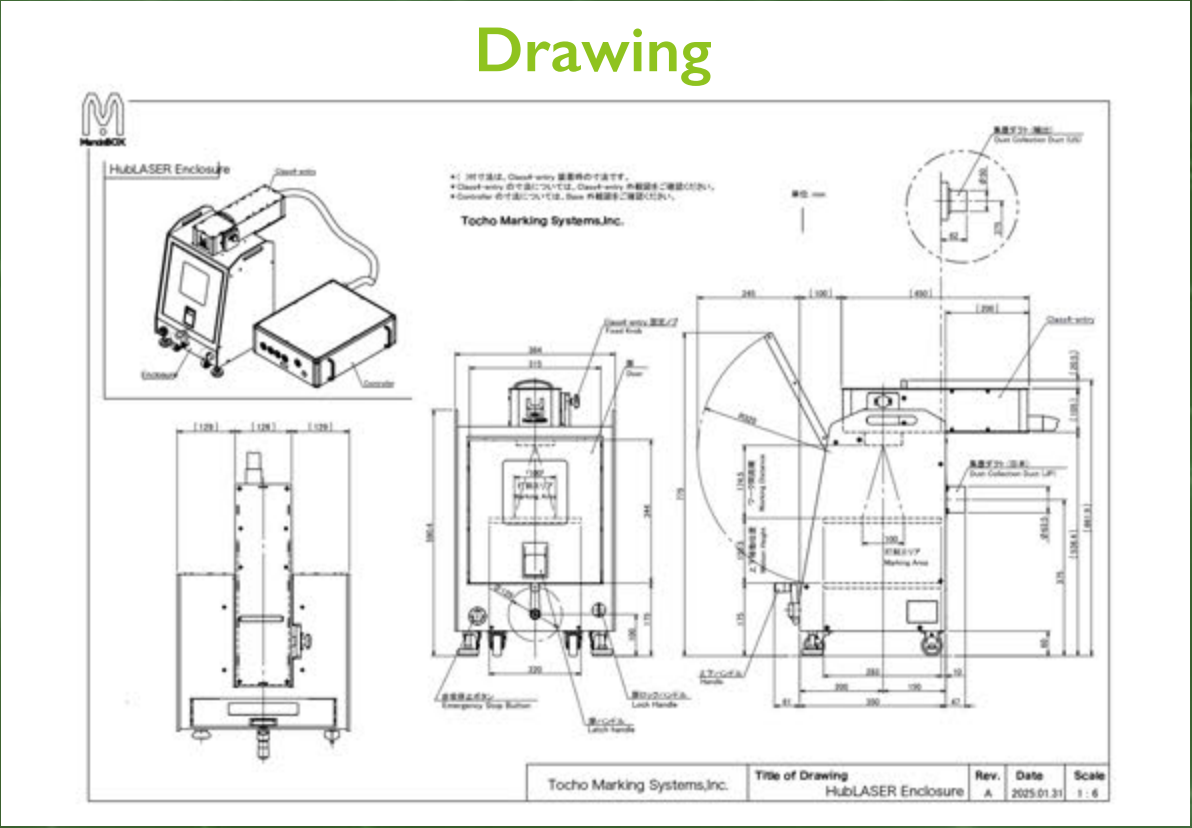


Perfect for direct marking without pasting a nameplate.



Marking on the colorful coffee cups.

Drawing



Windows Software

sketchbook^{laser}

Recommended PC Specs and Information.

Windows OS

Windows 10 or later

RAM

8GB or more

Power

AC 100V~240V, 50/60Hz



CPU

Intel Core i5
(10th Gen or higher)

Display

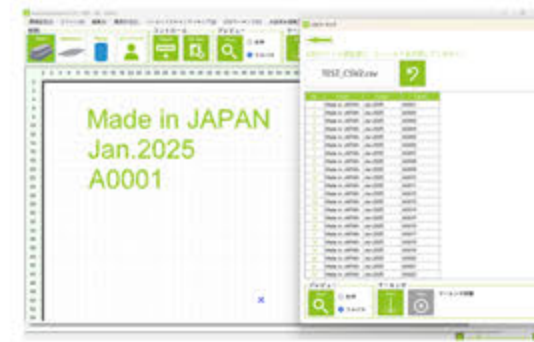
1920 × 1080 or higher

Power Consumption

120W

User-friendly WYSIWYG operation allows for effortless marking by selecting a material icon. Color marking can be configured with a single click. Additional features include support for 1D/2D barcodes, logo marks, serial number settings, barcode scan marking, and more.

CSV Marking



Easily transfer and mark data converted from Excel by saving it in CSV format.

Barcode Scan Marking



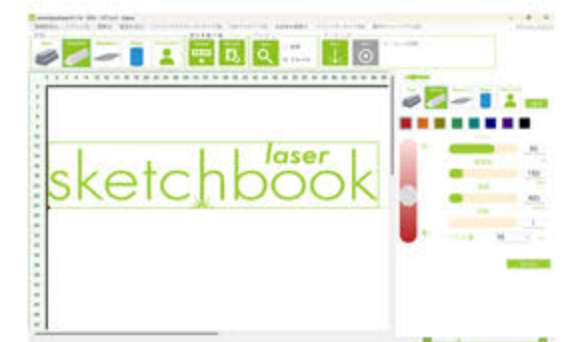
Barcode scan marking is also available. Simply connect a barcode reader to your PC and scan to mark.

1D and 2D Barcodes



A wide variety of 1D and 2D codes can also be marked using an icon-based operation.

MOPA Color Marking



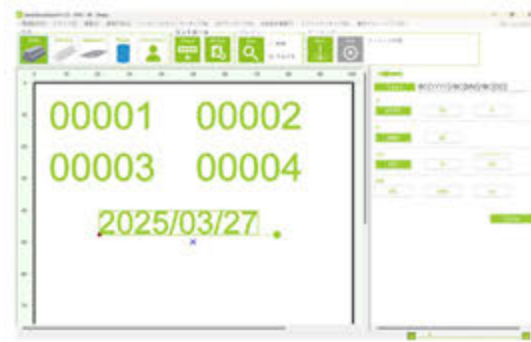
MOPA color marking on stainless steel is supported. Simply select your desired color and adjust the shading using the control bar for precise and easy marking.

Text



Intuitive WYSIWYG operation allows for easy, flexible layout in the software. Simply select icons and perform laser marking with ease.

Serial and Calendar



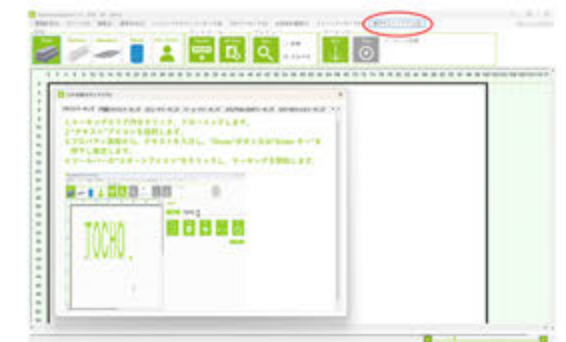
Serial numbering and calendar function are standard features and easy to configure. The calendar function also supports single-digit display.

RS232C Serial Communication



Serial communication using RS232C can be performed from a PLC or other devices. It supports both offline use and automation capabilities.

Tips and Tutorial



If you encounter any issues with the operation, you can quickly refer to the tutorial for assistance. The step-by-step video guide provides a fast resolution.