



LMWS

Laser Marking Workstation

AMADA MIYACHI's LMWS (Laser Marking Workstation) is a highly configurable, compact unit designed for lean manufacturing and offering the widest range of marking capability in its class.

Standard options include a rotary stage to tailor the machine to your specific process.

Integrated with AMADA MIYACHI's popular LMF fiber markers, this unit has the same GUI and interface for easy transfer from prototype to production phase.

KEY FEATURES

- Compact, workstation designed for benchtop operation – minimal workspace needed
- Fast and precise motorized Z-axis for easy focus adjustment (programmable axis optional)
- Easy access to parts and tooling
- Large viewing window for easy mark monitoring
- F-Theta 100 mm, 160 mm and 254 mm lens options for marking various parts and sizes
- Fume extraction port with flexible tubing
- Compact, motorized rotary axis for marking cylindrical parts (optional)
- M6 pattern mounting base plate for easy part fixturing
- Integrated with AMADA MIYACHI's industrially proven [LMF Fiber Laser Markers](#) (10-100 W)

TYPICAL APPLICATIONS

| LMF10 | LMF20 | LMF20-SM |
|--------------------------------|--|---|
| 10 W Marking System | 20 W Marking System | 20 W Precision Marking System |
| | | |
| Marking on Metals | Marking on Metals | Precision marking for Smallest Feature size |
| LMF20-HP | LMF35-HP | LMF50/LMF70-HP |
| 20 W Advanced Marking System | 35 W Advanced Marking System | 50 W Marking and Engraving System |
| | | |
| Marking on Metals and Plastics | Marking on Plastics and Large area annealing | Engraving of Stainless Steel |

SOFTWARE FEATURES

- Powerful, user-friendly Windows® based job editor
- WYSIWYG "what-you-see-is-what-you-get" editing
- Easy to import graphics
- Multi language support
- Advanced DXF filter with process optimization
- Password protected security lockout
- Touch screen GUI Enabled
- Windows 7 compatible

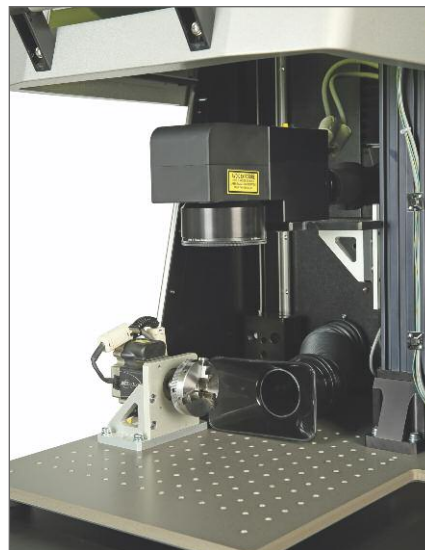
*Windows® is a registered trademark of Microsoft Corp.

MARK TYPES

- Line-art graphics: CAD, line-drawings, logos
- Shaded graphics: photos, halftones & grayscale artwork
- TrueType® fonts, filled or outline-only
- Single point or drill object arrays
- 1D and 2D (Data Matrix and QR code) barcodes
- MS AutoDate, MS TextMerge, serialization, and barcode

*TrueType® is a registered trademark of Apple, Inc.

Accepted file types: .dxf, .dwg, .plt, .emf, .wmf, .bmp, .jpg, .gif, .cdr and .ai



View of workspace including Z and rotary axis, fume extraction, and optical breadboard.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|---|
| Electrical | Single phase, 90 -130 VAC/180 - 260 VAC, 50/60 Hz, 10 A |
| Standard lens options | f-theta - 100 mm, 160 mm, 254 mm |
| Laser protection class | CDRH Class 1 |
| Software | WinLase®** |
| Available markers | All LMF fiber laser markers (10 - 100 W) |

| | |
|-------------------|---|
| AXES | LMWS |
| Options* | Z, Rotary |
| Axes types | Manual Z-jog, programmable Z, direct drive rotary |

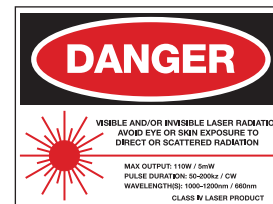
*System has standard motorized Z-jog. Programmable Z and/or rotary axes (control through marker motion in WinLase® marking software) are optional.
**WinLase® is a registered trademark of Lanmark Controls, Inc.

| | |
|----------------------------------|--|
| WORK PIECE SPECIFICATIONS | LMWS |
| Size* (H x W x D) | 100 mm - 10 in x 8 in x 8 in (250 mm x 200 mm x 200 mm) 160 mm - 8 in x 8 in x 8 in (200 mm x 200 mm x 200 mm) 254 mm - 3.8 in x 8 in x 8 in (98 mm x 200 mm x 200 mm) |
| Rotary part size | Up to 2.5 in (60 mm) diameter |

*Depends on lens selection

WEIGHT & DIMENSIONS

| | |
|-------------------------------|--|
| Dimensions (L x W x H) | |
| - Enclosure closed | 31.2 in x 17.4 in x 33.9 in (814.5 mm x 441.1 mm x 860.8 mm) |
| - Enclosure fully opened | 31.2 in x 17.4 in x 52 in (814.5 mm x 441.1 mm x 1320.8 mm) |
| Weight | 150 lb (68 kg) |



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