



# LMWS



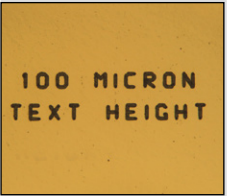


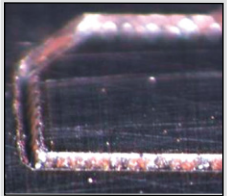
## Laser Marking Workstation

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 ML fiber markers, this unit has the same GUI and interface for easy transfer from prototype to production phase.

### TYPICAL APPLICATIONS

ML-7311D	ML-7321D	ML-7322D
10W Marking System	20W Marking System	20W Precision Marking System
		
Marking on Metals	Marking on Metals	Precision Marking for Smallest Feature size
ML-7320D	ML-7340D	ML-7350D
20W Advanced Marking System	35W Advanced Marking System	50W Marking and Engraving System
		
Marking on Metals and Plastics	Marking on Plastics and Large Area Annealing	Engraving of Stainless Steel

### 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 ML Fiber Laser Markers (10-50 W)



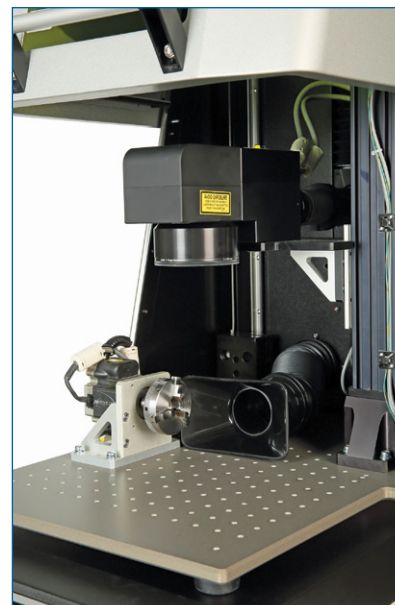
## SOFTWARE FEATURES

- 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

## 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
- AutoDate™, TextMerge™, serialization, and barcode

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	CE Class 1	
Software	Winlase	
Available markers	All ML Fiber Laser Markers (10-50 W)	
Marking field size (H x W x D)	f-theta -100 mm	10 in x 8 in x 8 in (250 mm x 200 mm x 200 mm)
	f-theta -160 mm	8 in x 8 in x 8 in (200 mm x 200 mm x 200 mm)
	f-theta -254 mm	3.8 in x 8 in x 8 in (98 mm x 200 mm x 200 mm)
Axes types*	Manual Z-jog, Programmable Z, Direct drive rotary	
Rotary part size	Up to 2.5 in (60 mm) diameter	

\*\*System has standard motorized Z-jog. Programmable Z and/or rotary axes are optional.

## WEIGHT & DIMENSIONS

Dimensions (L x W x H)	31.2 in x 17.4 in x 33.9 in (814.5 mm x 441.1 mm x 860.8 mm)
- Enclosure closed	
- 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 lbs (68 kg)



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