

### BENEFITS

- Compact, workstation designed for benchtop operation – minimal workspace needed
- Fast and precise motorized Z and rotary for simple part and focus adjustment
- Easy access to parts and tooling
- Large viewing window for easy mark monitoring
- F-Theta 100mm, 160mm and 254mm lens options for marking various parts and sizes
- Fume extraction port with flexible tubing
- Compact, motorized rotary for marking cylindrical parts
- Class 1 or Class 4 option
- Optical breadboard with M6 threaded holes for easy mounting
- Integrated with any Amada Miyachi ML Fiber Laser Markers (10-50W)

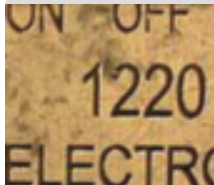




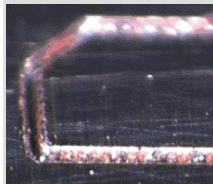
## LMWS Laser Marking Workstation

MIYACHI UNITEK'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 one of Amada Miyachi's popular ML fiber markers, this unit has the same GUI and interface for easy transfer from prototype to production phase.

### MARKER OPTIONS AND SELECTION GUIDE

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



## 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 XP and Windows 7 compatible

## MARKING OPTIONS

- Galvanometric scanner, XY - Standard
- XYZ and rotary stages (Optional)

- Automation: I/O control, 4-axis motor control, time delays, and custom operator messages
- On-the-fly (Optional)

### 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

WORKSTATION SPECIFICATIONS	
Electrical	Single phase, 90-130 VAC/180-260 VAC, 50/60 Hz, 10A
Dimensions - Enclosure Closed - Enclosure Fully Opened	17.4"W x 31.2"D x 33.9"H (441.1mm x 814.5mm x 860.8mm) 17.4"W x 31.2"D x 52"H (441.1mm x 814.5mm x 1320.8mm)
Weight	150lbs (68kg)
Standard Lens Options	F-theta - 100mm, 160mm, 254 mm
Laser protection class	CDRH Class 1 (CE class 1)
Software	Winlase
Available Markers	All ML Fiber Laser Markers (10-50 W)
Certification	CE approved

AXES	
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.

WORK PIECE SPECS	
Size*	100mm - 10"H x 8"W x 8"D (250mm x 200mm x 200mm) 160mm - 8"H x 8"W x 8"D (200mm x 200 mm x 200mm) 254mm - 3.8"H x 8"W x 8"D (98mm x 200 mm x 200mm)
Rotary Part size	Up to 2.5" diameter (60mm)

\* Depends on lens selection



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