

VersaScribe™ YAG

Arc Lamp-Pumped YAG Laser Engraving Systems



The Alase Technologies, Inc. VersaScribe YAG Laser Engraving Systems are designed to bring precision, reliability, versatility, and speed to your most demanding applications. Flexible laser design and easy-to-use WinLase software allows for applications ranging from deep engraving to fine surface annealing.

- **Most reliable** lasers, servo-control optics and software available today
- **Wide selection** of field sizes, focused spot sizes, and laser powers
- **Engraves everything** from barcodes, graphics, and text to line drawings
- **Fast, high throughput** writing speed of up to 250 characters per second
- **A non-contact and permanent** marking solution
- **Easy to integrate** into on-line processing

Ideal for marking painted and anodized aluminum, stainless steel, titanium, copper, brass, and plastics.

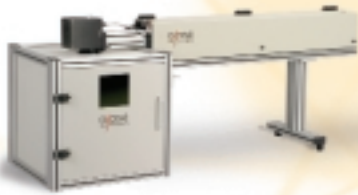


Applications in decorative, automotive, aerospace, medical, semiconductor, and electronics.



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VersaScribe™ YAG Specifications



VersaScribe YAG shown with Class I enclosure

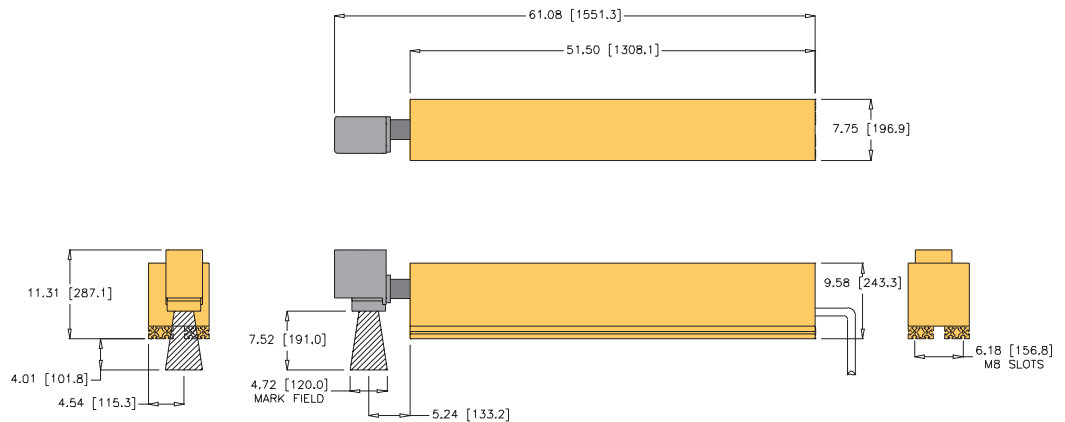


Typical power supply



Full turnkey solutions including:

- Class I enclosures
- Rotary workstations
- Z-axis decks
- XY stages & conveyors



Physical (Width x Length x Height)

- Laser rail:
197 mm x 1555 mm x 243 mm
(7.75" x 61.2" x 9.58")
- Laser power supply:
597 mm x 813 mm x 737 mm
(23.5" x 32" x 29")

Available Field Sizes

- 70 mm (2.75") mark field, ~17 μm nominal spot size
- 120 mm (4.7") mark field, ~23 μm nominal spot size
- 180 mm (7.0") mark field, ~34 μm nominal spot size
- 280 mm (11") mark field, ~60 μm nominal spot size

Available Laser Powers (at 1064 nm)

- 20 watts TEM00, 85 watts multi-mode
- 50 watts multi-mode
- 100 watts multi-mode
- 150 watts multi-mode

Water Requirements

- Flow rate: 20 liters/min at 20° C (68°F) max. temp.
- Pressure: Greater than 2.5 bar (35 psi)

AC Power Requirements

- Laser Power Supply:
220 VAC ± 10%, 3-phase, Delta 50/60 Hz, 30 amps or
380 VAC ± 10%, 3-phase, WYE 50/60 Hz, 20 amps
- System controller/computer:
115 VAC, 10 amps, 50/60 Hz or
220 VAC, Single Phase, 5 amps, 50/60 Hz

WinLase Editor Software

- Full-featured, graphic user interface
- Assemble images, text and barcodes and quickly create marking jobs
- Supports TrueType fonts and 1D/2D barcodes with serialization
- Automatic date coding and barcoding incl. 2D DataMatrix ECC-200
- Import scanned or generated graphics in many different file formats
- Mark moving objects (mark on the fly)
- Step-and-repeat array marking
- External control interface over RS-232 and TCP/IP
- Built-in automation scripting
- COM automation server for custom GUI
- Pentium-based controller/computer running Windows XP, NT or 2000

Available Accessories

- Visible red pointer beam
- Variable-height parts stage, XY stages
- CDRH Class I compliant safety enclosure (standard or custom)
- Machine base
- Automated height adjustable machine table
- Simplified touch screen operator controls
- Rotary tables and rotary indexers
- Chillers and fume extractors
- Mounting legs



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