Monode
MARKING PRODUCTS, INC.

Non-contact marking
Permanent marking
Fast and versatile
High volume and high variety

Bench Laser

Bench Laser

A fast and versatile marking system. Suitable to high volume and high variety output. Laser engraving provides excellent precision on a wide range of materials.

Applications Include:

• Programmable Marking • Component Identification • Component Traceability • Serial Numbering
• Logo Marking • Security Marking • Health & Safety Appliance Marking • Certification Marking
• Decorative Trophy & Award Marking • Time & Date Marking • Part Numbering
• Batch & Shift Coding • Calibration Systems • Label & Tag Marking

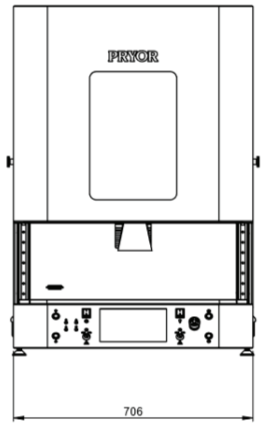
intelligent marking solutions

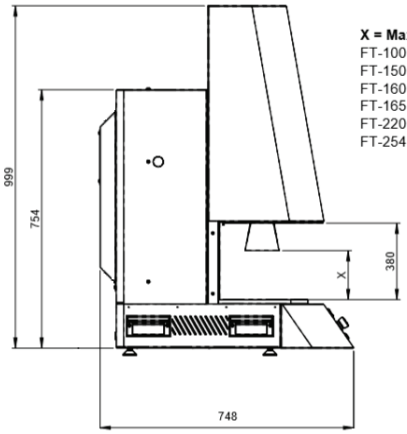
Features

- Automatic Vertical Opening Door
- Large internal working envelope
- Automatic Z axis for focusing/defocussing on target component
- Large laser safe viewing window
- Integrated touch screen controls, using our innovative 4000 controller interface
- Optional PC interface using Traceable-IT software for advanced programming and programme creation
- Exceptional reliability. Fit and forget performance with diode life exceeding 50,000 hrs
- Maintenance free marking with no consumable costs.
- High quality marking on a wide range of materials including metals / alloys and hard plastics.
- Low running costs, fiber lasers consume less than 200watts of power, making these lasers the most efficient on the market. (1.06 micron wavelength)
- Wide operating temperatures between 0 and 42°C
- Industry leading Traceable-IT software
- Available in a range of class 1 enclosures
- Also available as an integration package. The compact size and robust construction make the YF lasers the perfect solution for automated part marking tasks.
- Intelligent laser controller can operate in a basic standalone mode or using the built in TCP/IP connectivity can connect to a local or remote PC for advanced operation using the Traceable-IT graphical interface.
- Visible ‘Pilot’ beam shows the marking location for fast, accurate setup.
- Secondary (converging) ‘focus finder’ visible beam shows when the laser is focused.
- Robust, easy to use control panel features high quality start/stop/focus finder push buttons with built in emergency stop and key-switch safety interlock control.

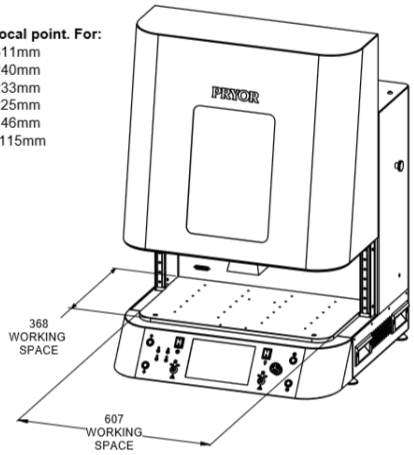
9200 Tyler Boulevard · Mentor, Ohio 44060 · Phone: (440) 975-8802 · Fax: (440) 975-1364
Email: sales@monode.com · Web: www.monode.com

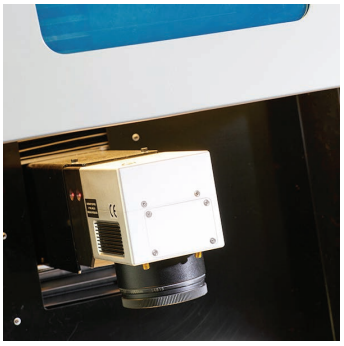
Dimensions





X = Maximum height of lens focal point. For:
FT-100 Lens (10023550), X = 311mm
FT-150 Lens (10019014), X = 240mm
FT-160 Lens (10042302), X = 233mm
FT-165 Lens (10019619), X = 225mm
FT-220 Lens (10021738), X = 146mm
FT-254 Lens (LENS0003), X = 115mm





TECHNICAL SPECIFICATIONS

	20W	20W Pro	50W
Pulse Energy	1mJ	1mJ	1mJ
Average Power	20W	20W	50W
Msquared	1.6	1.6	1.6
Polarization	Random	Random	Random
Power Tunibility		5-100%	
Pulse Duration at 20KHz	100ns	4,8,14,20,30,50, 100 & 200ns	120ns
Repetition Rate	20 KHz to 200 KHz	1.6KHz to 1000KHz	50KHz to 200KHz
Long Term Power Stability	1-3%	1-3%	1-3%
Operating Temperature		0 to 42°C	
Cooling		Active Air Cooling	
Fiber Optic		2 Meter Pigtail with 8mm Collimator/Isolator	
Power		Less than 200W-110 or 220 VAC	
Product Warranty		2 Years as Standard	

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Traceable-IT Software

Traceable-IT is developed using the latest .Net technology and is the most powerful and versatile PC based direct part marking software available on the market. Traceable-IT supports multiple Pryor machines and marking technologies including our entire range of dot peen machines and our YF Fiber Laser range. Simply select your product in the configuration screen and start taking advantage of Traceable-IT extensive feature set.

Features

- Extensive time/date, shift coding combinations
- Drag and Drop WYSIWYG preview
- Tool path preview with individual vector visualization
- Marks all Windows True Type Fonts
- Extensive library of high speed dot and vector fonts
- Graphical Shape tools
- HPGL/DXF CAD file and BMP/JPEG bitmap file importer for logo marking
- Highly configurable serial numbering features
- Multi-Object 'editing and pilot beam' previewing
- 1D and 2D barcode support with advanced Data Matrix cell fill control for marking very small DMx codes
- DoD IUID data formatting tools to ensure compliance with MIL-130-STD
- VB.NET and C# scripting allowing custom data formatting or machine control during the marking cycle
- Automatic Z axis control for marking varied height parts
- Rotary / circumferential axis control for marking around cylindrical parts
- Programmable user prompts with barcode scanner interface
- Advanced Database connectivity features. Query marking data from and write back to Excel, Access, SQL Server, MySQL etc.
- Off-line layout programming
- Multi-lingual
- Extensive Material Settings Library
- Advanced Mark Settings test tools
- Customized marking applications can be easily created using the Traceable-IT suite of exposed controls. Create, Modify and Display Traceable-IT layouts in your own custom application, then take full control of the marking machine. Sample Programs available on request.

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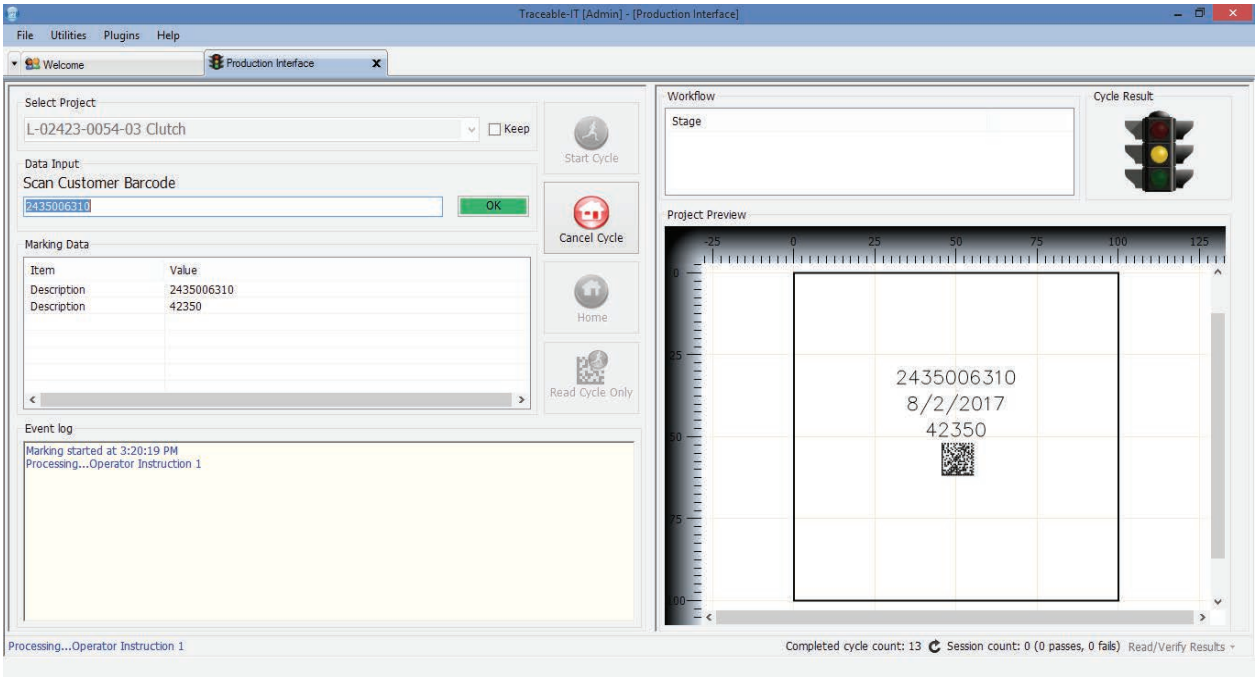
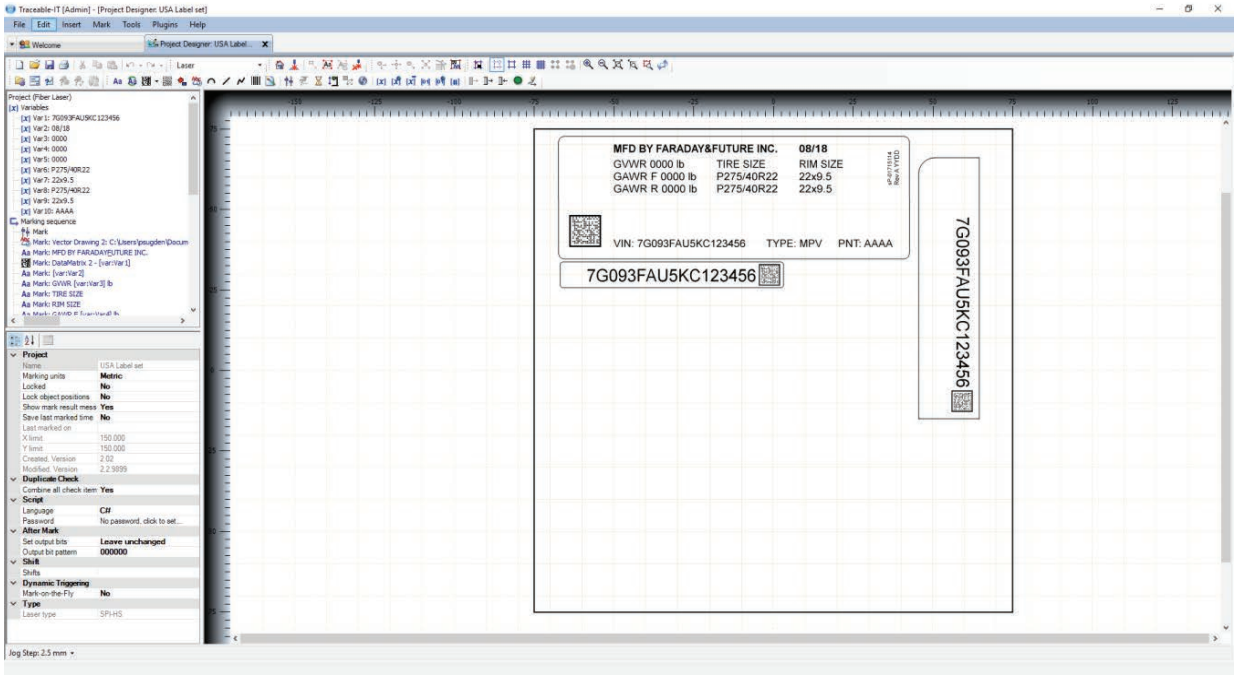


Traceable-IT Project Designer Screenshot



Traceable-IT Production Interface Screenshot

Monode MARKING PRODUCTS, INC.

When identification is critical for traceability or product impact, a quality mark is required. Monode combines creative engineering with a full range of marking solutions to meet your needs. Over a half-century of progress as a trusted "parts marking problem solver" ...that's Monode!

Quality Marking Equipment with Integrated Machine Vision Solutions

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