FIBER LASER MARKING MACHINE

MAGIC™–L3 Prime

Setting a New Standard for
High-Performance Laser Marking

MAGIC™ ENGRAVING

www.redtinc.com

Production-Grade Jewelry Laser System

Magic™-L3 Prime

Magic™-L3 Prime inherits the strengths of the existing Magic™-L3 platform while significantly improving cutting performance, camera-based workflow, ring and rotary engraving workflow, and overall usability in jewelry manufacturing environments.
Enhanced cutting performance expands the workflow beyond jewelry production into practical metal processing applications, while the upgraded camera system and irregular ring engraving functionality provide a more intuitive and precise ring engraving experience.
In addition, the optimized airflow structure and user-focused design deliver a smarter and more efficient working environment for both retail stores and actual manufacturing workshops.

Technical Specifications

Models	Magic™-L3 Prime 60W	Magic™-L3 Prime 100W
Laser Class	Class 1 Laser Product	
Dimensions	15.51"(W) × 22.72"(H) × 23.98"(D)	
Marking Area	4.33" × 4.33"	
Max Material Height	3.94"	
Z-Axis Travel	3.94"	
Chamber Internal Space	13.78"(W) × 3.94"(H) × 6.69"(D)	
Safety Door Open Height	10.47" (From base plate)	
Max Material Weight	44.1 lbs	
Weight	110.2 lbs	119.0 lbs
Camera Resolution	13MP	
Voltage	AC 100V~240V, 50Hz/60Hz	
Power Consumption	520W	730W
Cooling System	Air Cooling	
Operating Temperature	0~40°C	
Operating Humidity	10~85%	

Built for Real Jewelry Production

Whether for retail personalization, custom jewelry production, or workshop manufacturing, Magic™-L3 Prime helps jewelry businesses increase productivity and streamline daily operations — from precision marking and advanced rotary engraving to high-speed metal cutting for jewelry production.

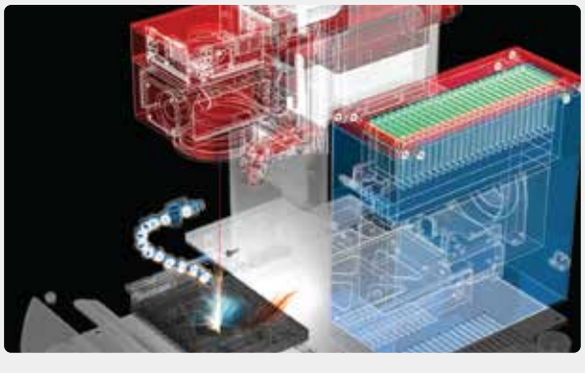



- ✓ **Faster Cutting**
- ✓ **Smarter Ring Engraving**
- ✓ **Fewer Mistakes**

Unlike conventional laser systems, BB-L3 Prime reduces complicated setup, repeated adjustments, and operator dependency for faster, more consistent production.




Faster Jewelry Production with 100W MOPA Laser



The high-power 100W MOPA laser significantly improves metal sheet cutting productivity, enabling faster processing and supporting a broader range of jewelry manufacturing and precision metal-working applications.

7 Jewelry-Specialized Automation Features

Advanced automation features designed specifically for jewelry applications help simplify operation, reduce human error, and deliver more consistent engraving results.

1. Automatic Angle Adjustment for Inner Ring Engraving

2. Automatic Ring Shape Detection

3. Automatic Laser Focusing for Rings & Bangles

4. Automatic Laser Focusing for Flat Materials

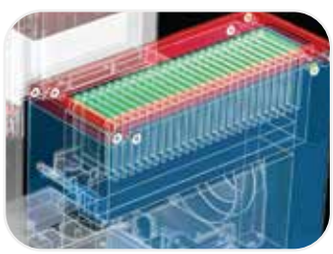
5. Automatic Scan Head Positioning

6. Automatic Dust Collector Control

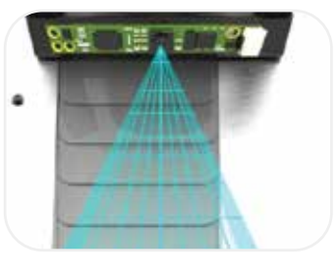
7. Automatic Safety Door

What's New!

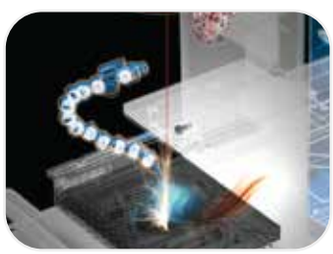
NEW



Enhanced MOPA 100W High-Power Laser

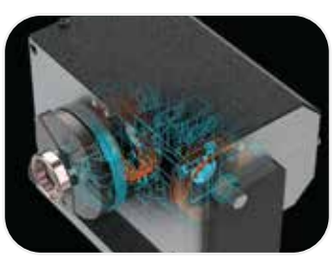


13MP High-Resolution Camera



Integrated Air Assist Nozzle

Complex-Shaped Ring Engraving Support



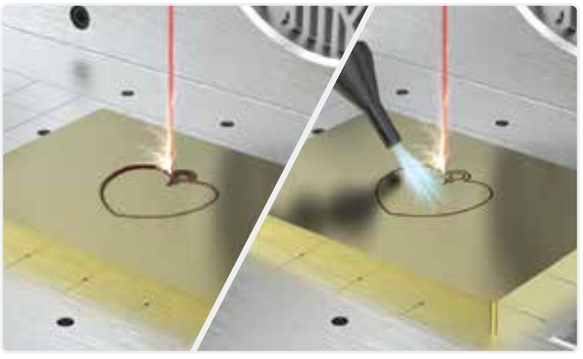
Advanced Wireless Docking Rotary System

Improved Rotary Fine Adjustment Knob

Optimized Airflow Structure & Duct System

Dedicated Dust Collector

Premium Design & Compact Structure



Faster Cutting with 100W High-Power Laser

Reduces working time while delivering cleaner cutting quality

- High-speed cutting with a high-power 100W MOPA laser source
- Clean and precise cutting performance for gold, silver, brass, and other jewelry metals
- Air Assist minimizes heat discoloration during cutting
- Cleaner cutting quality that reduces post-processing workload

The Most Advanced Ring Engraving Workflow

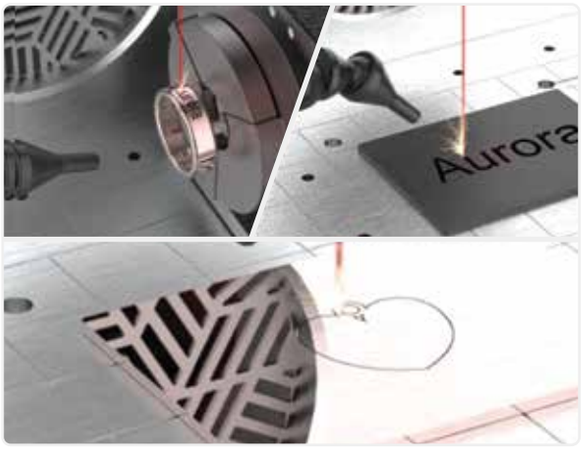
Provides fast, accurate, and intuitive rotary engraving workflow for complex jewelry applications

- Wireless docking rotary clamp for easier and more accurate rotary engraving
- Easy attachment and detachment without cables
- Automatic clamp recognition for flat ↔ rotary mode switching
- Supports rings, bangles, and even oval-shaped bangles
- Automatic outer ↔ inner ring mode switching
- Automatic angle adjustment for inner ring engraving for fewer mistakes and sharper results
- Advanced irregular-shaped ring engraving support for designs that are difficult or impossible to process with conventional laser systems

Software Designed for Fast and Easy Jewelry Work

Reduced training time, fewer mistakes, and more consistent production quality

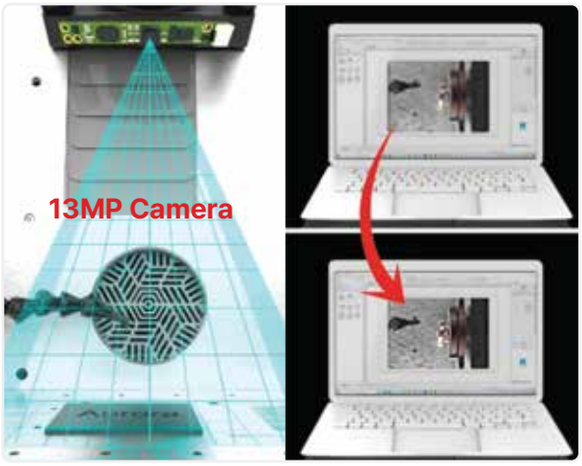
- Intuitive workflow by MagicEngrave Laser 2
- Easy and fast jewelry marking and cutting design for all users
- Quick setup without complicated configuration
- Convenient UI optimized for ring and rotary engraving workflow
- Reduced training, reduced mistakes and standardized quality



High-Performance MOPA Fiber Laser

Provides highly consistent and refined marking quality

- High-quality laser output through precise pulse control
- Sharp and clean marking quality
- High-contrast black marking support
- Various color marking capabilities
- Stable marking quality across various metal materials



Faster, More Precise Setup with 13MP Camera System

Improves positioning accuracy and helps reduce costly engraving mistakes on high-value jewelry.

- Better visibility for detailed jewelry work with 13MP high-resolution camera system
- Sharper real-time preview that helps reduce engraving mistakes
- Accurate positioning support for both flat and ring applications
- Cleaner cutting quality that reduces post-processing workload

Class 1 Safety Chamber and Protective Enclosure

Provides enhanced safety and a more stable working environment

- Class 1 chamber design focused on operator and workplace safety
- Minimizes external laser exposure
- Structure designed to help prevent external leakage of fumes and dust
- Protective viewing window for eye safety
- Convenient auto-moving safety cover
- Automatic dust collector control according to working status

Dedicated Dust Collector

Enhances workplace safety while maintaining a cleaner work environment

- An integrated all-in-one filtration system with a Pre-Filter, HEPA Filter, and Carbon Filter
- Dramatically simplifies maintenance
- Ensures a cleaner working environment.
- Outstanding dust extraction performance through optimized airflow structure

Premium & Compact Design

Designed to fit naturally into various jewelry work environments

- Premium design suitable for jewelry retail environments
- Compact structure for efficient space utilization
- Clean and modern exterior design
- Naturally blends into both stores and production workspaces

Fiber Laser Marking Applications

Pendant Marking

Outside of Ring Marking

Inside of Ring Marking

Curved Bracelet Marking

Cutting

Black Marking

White Marking

Deep Marking

Photo Marking

Jewelry Applications

Rings · Irregular Rings · Bangles · Oval Bangles · Pendants · Initial Necklaces · Earrings · Bracelets · Medals · Jewelry Personalization · Custom Engraving

Marking Applications

Text · Logos · Photos · Patterns · QR Codes · Barcodes · Serial Numbers · Black Marking · White Marking · Color Marking · High-Precision Fine Engraving

Material Compatibility

Gold · Silver · Platinum · Brass · Copper · Stainless Steel · Aluminum · Titanium and various metal materials · Plastics and selected non-metal materials

Manufacturing & Industrial Applications

Metal Sheet Cutting · Industrial Parts Marking · Tool & Equipment Marking· Product Identification Marking

Built for Real Jewelry Production

Magic™-L3 Prime was developed for jewelers who need more than basic marking capability.
From intelligent ring engraving workflow to production-grade metal cutting performance, every detail was designed to help jewelry professionals work faster, more accurately, and more efficiently.

Magic™ — Built by Experts Who Truly Understand Jewelry Manufacturing
Production-Grade Jewelry Laser System