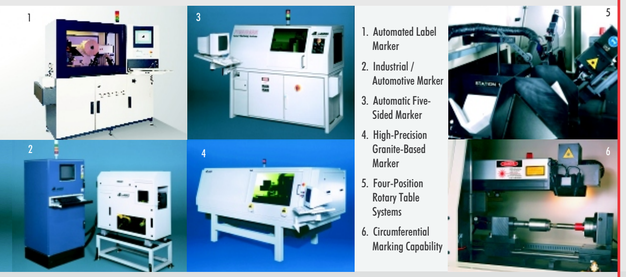
Custom Turnkey Solutions

TURNKEY SYSTEMS FOR A COMPLETE LASER MARKING SOLUTION



1. Automated Label Marker
2. Industrial / Automotive Marker
3. Automatic Five-Sided Marker
4. High-Precision Granite-Based Marker
5. Four-Position Rotary Table Systems
6. Circumferential Marking Capability

WE THINK LASER

Innovative Engineering for Custom Systems and Tooling
Rofin-Baasel's in-house engineering staff can design solutions ranging from specialized tooling to a completely custom laser marking system for unique manufacturing requirements. Among them are five-sided markers, vibratory bowl-fed systems, automated loaders and/or unloaders, conveyor systems integrated into existing production lines, ultra-high-precision granite-based systems, automotive production systems, and tag markers. Whatever the application, Rofin-Baasel can provide a system solution that fits the needs and requirements.

Laser
Lamp-Pumped or Diode-Pumped, Q-switched Nd:YAG (1064 or 532 nm wavelength), sealed CO_2 (10600 nm) in a full range of powers and options.

Software
Windows® NT operating platform. Integrated GUI-style editor.
True multi-tasking. Incremental (serialization) functions.
On-the-fly filling routines. WYSIWYG functionality.
Import utilities for vector & bitmap images. Utilizes True Type fonts.
Comprehensive, context-sensitive Help functions and troubleshooting routines.
Software and Help functions in five languages.

LME Workstations

- Lamp-pumped or diode-pumped Nd:YAG lasers at wavelengths of 1064 or 532 nm, or sealed CO_2 lasers at a wavelength of 10,600 nm.
- LME–1 and LME–2 systems feature large work envelopes, and can accommodate X-Y-Z positioning tables, programmable indexers, and customer-specific tooling
- Conformance to applicable CDRH, ANSI, NFPA-79, and OSHA standards
- Large laser-safe window allows viewing of the laser process while the door is closed.

Standard Features for all LME–1+ systems:
- Sliding door (LME-1/RT has a rear swing door)
- Manual Z-axis for laser head for focus
- 12"x12"x3/4" Tooling Plate (accepts ¼–20 dowel pins)
- Work area lighting on all models
- Swing arm for monitor and keyboard
- Start/stop pushbutton controls

Options Available for LME–1+ and LME–2+ Systems (dependent on laser source):
- Mark field diameters from 3.5" to 14.9" (88.9mm—380mm)
- Circumferential marking module
- Digital readout, motorized or programmable upgrade of Z-Axis for focus
- Refrigerated recirculating water chiller for all LME–Series versions (laser dependent)
- Fume extractor, available for all LME–Series versions
- Pneumatic door
- Custom paint
- Bar code program input
- End door or laser-safe end window available

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LASER MARKING

LME Series

Standard or Custom Laser Marker Enclosures

Whether the requirement is for a stand-alone marking solution for the production floor, semi- or full-automation capability (rotary tables, motion, vision, conveyors, etc.), or the ability to mark larger, oversized parts, Rofin-Baasel can supply the solution.

The LME family of modular systems offer sturdy construction for long-term use, ergonomically correct designs for ease of use and conformance to applicable CDRH, ANSI, NFPA-79, and OSHA Standards for operational safety during their use.

All standard or custom-built turnkey systems feature a choice of the RS-Marker or the StarMark product in lamp- or diode-pumped Nd:YAG or sealed CO_2 laser configurations for non-contact, direct, permanent laser marking on parts of all shapes and sizes and of virtually any material.

Experience—
The Mark of Excellence.

WE THINK LASER

LME Series Workstations

Advanced system features

When combined with an LME, each RS-Marker and StarMark system becomes a fully integrated workstation. Depending upon the laser source model, the LME-1 and LME-2 models are capable of controlling numerous parts handling options, including manual/motorized Z-axis, circumferential marking packages, multi-axis tables, and other options. The LME-1 and LME-2 series can also be fitted with dual or twin marking heads allowing top-side/bottom-side applications to be addressed or throughput to be doubled.

Easy maintenance

Only Rofin-Baasel guarantees 98% uptime for all its laser marking systems. Our DPY lasers are virtually maintenance free for thousands of operational hours. And for some laser models, Rofin-Baasel offers *TeleService*, on-line service and diagnostics! Almost all routine service diagnostic functions, software updates, and backup of system calibration files can be done remotely with Teleservice. Through it, Rofin-Baasel service engineers can access information on virtually all modules within the system, sometimes solving problems while on-line.

The most versatile, most advanced laser marking software available

Fully-programmable software for mark layout designs is the heart of all Rofin-Baasel laser marking systems. The StarMark systems feature LaserCAD™ for Windows® NT, and the RS-Marker Systems feature Visual Laser Marker for Windows® NT. Both offer full on-screen representations of marking job layouts, including text, graphics, bar codes or 2D matrix codes. And because they are in the Windows®NT environment, they include a host of easy to use standard features that make them the most comprehensive in the industry.

LME-M — ECONOMICAL ENTRY-LEVEL LASER MARKER

Extremely compact, user-friendly, and economical Class I Laser Marker. The manual load/unload system is suited to one-offs or short production runs of small to medium-sized workpieces requiring no automation.

*Required floor space including access on four sides, exclusive of laser source control cabinet: W88" x D60" (224cm x 152cm).

LME-SLM — COMPACT, ECONOMICAL, MANUAL LASER MARKER

Compact, user-friendly, economical Class I Laser Marker. Ergonomically and elegantly designed as a seated workplace with good access to the work area, the fully integrated system is suitable for small to medium-sized workpieces with manual loading and unloading.

*Required floor space including access on three sides: W102" x D95" (259cm x 241cm).

LME–1 — INTEGRATED, HIGH-QUALITY MARKING

Sturdy, ergonomically-designed, integrated Class I Laser Marker. Large (29" x 30") work envelope; accommodates X-Y positioning tables, programmable indexers, and customer-specific tooling. Available in all lens sizes listed on laser source datasheets.

*Required floor space including access on three sides: W100" x D108" (254cm x 274cm).

LME-1/RT 2P or 4P — ROTARY TABLE MARKING

Economical 2 or 4 position Rotary indexer minimizes laser idle time by providing simultaneous marking with load/unload…a moderate to high throughput solution. Light curtain safety features to meet OSHA regulations. 4-Position system permits both front and rear load/ unload.

*Required floor space including access on three sides: W100" x D108" (254cm x 274cm).

LME-2 — CLASS 1, LARGE AREA MARKING SYSTEM

Expanded workstation for marking larger parts in numerous environments. Accommodates X-Y positioning table up to 18" x 18" (24" x 24" mark field), either standard or precision grade. 40" x 40" work envelope.

*Required floor space including access on three sides: W126" x D127" (320cm x 322cm)

LME-1/O — CLASS IV OPEN FRAME MARKING

Class IV Laser System with open-frame workstation for marking oversized parts, job shops, or customer-provided tooling. Open structure accommodates any laser rail length and a wide variety of parts handling options.

*Required floor space including access on 2 sides, exclusive of laser source control cabinet: W63" x D103.5" (160cm x 263cm).

*Dimension includes 36" on each access side for operator and service personnel workspace