

# MRSI-LEAP

## ULTRA HIGH SPEED DIE BONDER

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- Very high throughput
- Exceptionally stable, up to  $\pm 1\mu\text{m}$  @  $3\sigma$  placement accuracy
- Supports multiple wafers and multiple automated tool changes

MRSI Mycronic has been serving optoelectronic customers for the past 40+ years and understands their requirement to scale efficiently in today's fast-paced marketplace.

## Applications & Features

- Ultra-high placement accuracy achieved via intelligent motion control and high-resolution vision alignment
- Unmatched Throughput: Automated material handling and smart multi-tool switching system
- Supports multiple epoxy processes including stamping, dispensing, UV curing, and flip-chip assembly
- Proprietary Multi-die Eutectic Bonding: Solves double reflow issues in multi-die heating processes for reliable bonding
- Broad application compatibility: Suitable for AI optical modules, silicon photonics, LiDAR systems, and optical sensing applications

## Configuration Highlights

- Advanced machine vision and tool design
- Modular design and field upgradeable
- Supports two 8-inch wafers and two 6-inch wafers
- Built-in conveyor and magazine design for high efficiency and throughput
- Automated dispensing and UV cure options available

## Value to our Customers

- Industry-leading throughput, ultra-high accuracy, and long term stability in high-volume manufacturing, capable of achieving over 1,000 units per hour (UPH)
- Easy to use icon-based interface running on a Windows™ platform for ease of programming, and low-cost machine maintenance
- Industry-leading local technical support teams and application expertise
- 40+ years of experience in the industry with reliable 24/7 field operations



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