

Bringing tomorrow's electronics to life



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MRSI Systems (a part of Mycronic Group) is the leading manufacturer of fully automated, high-speed, high-precision and flexible eutectic and epoxy die bonding systems. We offer solutions for research and development, low-to-medium volume production, and high-volume manufacturing of photonic devices such as lasers, detectors, modulators, AOCs, WDM/EML TO-Cans, Optical transceivers, LiDAR, VR/AR, sensors, silicon photonics, co-packaging optics, 3-D hybrid packaging, and optical imaging products. With 40+ years of industry experience and our worldwide local technical support team, we provide the most effective systems and assembly solutions for all packaging levels including chip-on-wafer (CoW), chip-on-carrier (CoC), PCB, and gold-box packaging. For more information visit www.mrsisystems.com

Mycronic is a Swedish high-tech company engaged in the development, manufacture and marketing of production equipment with high precision and flexibility requirements for the electronics industry. Mycronic's headquarters are located in Täby, north of Stockholm and the Group has subsidiaries in China, France, Germany, Japan, Mexico, the Netherlands, Singapore, South Korea, United Kingdom, the United States and Vietnam. Mycronic is listed on Nasdaq Stockholm. www.mycronic.com

Specifications are subject to change without notice.


202407_MRSI-H1V2

MRSI-H1

1 MICRON DIE BONDER



Patented turret for "on-the-fly" tool change



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

Applications are found across a wide range of market segments, such as life & health sciences, aerospace, defense, automotive, lighting, communications, and more.

MRSI's die bonding solutions help our customers to enable just-in-time supply and fast-pace innovations of critical components for high-growth market segments. The MRSI-H1 is developed from our popular MRSI-H platform, further improving accuracy to 1 micron level.

These die bonding solutions are built with the same hardware and software platforms configured to minimize process deviations, reduce NPI cost, and increase ROI for customers with MRSI's long proven product reliability and global customer support.



MRSI-H1 Applications

MRSI-H1

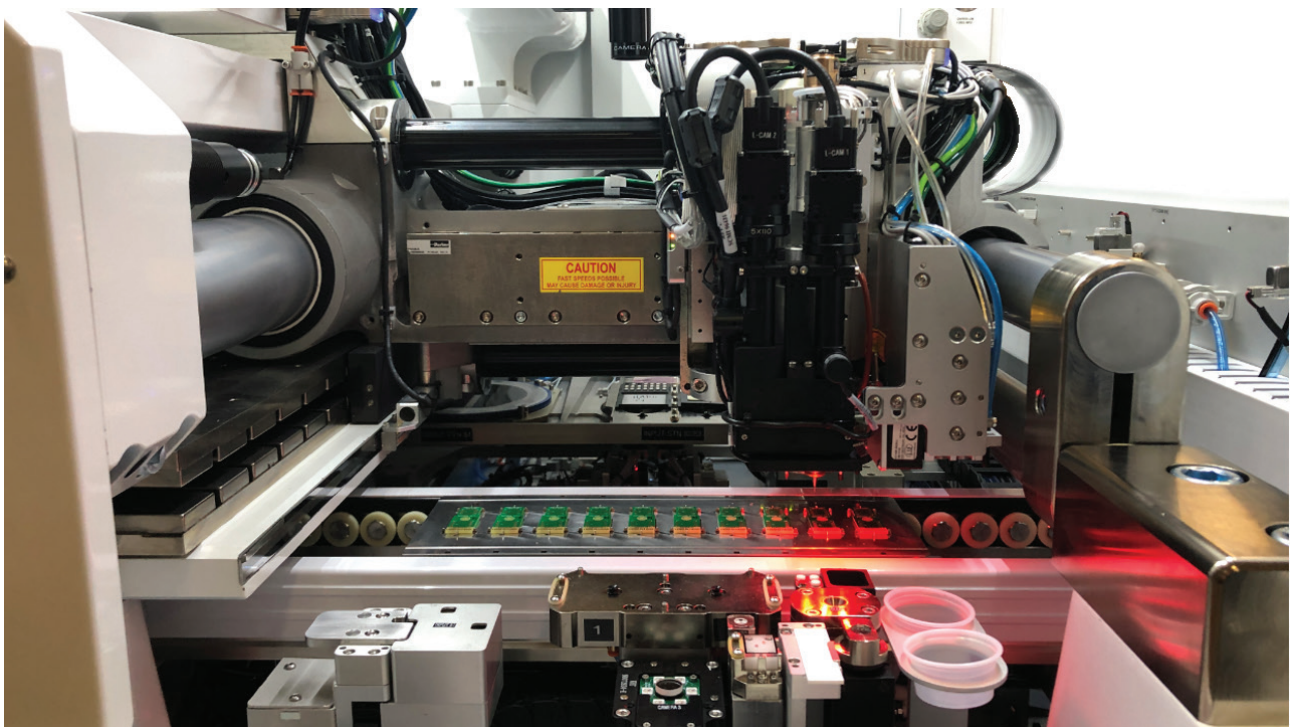


- This standard system is widely used in advanced photonics such as lasers, receivers, transceivers, lighting, and sensors, etc.
- Carries key technological building blocks from our field-proven, flexible and high-speed MRSI-HVM platform
- Heated head option designed for the higher density eutectic packaging
- Patented “On-the-fly” auto tool changer has twelve vacuum tips/collets integrated on the bonding head for zero time tool change

Value to our Customers



- Industry leading throughput, superior flexibility, and ultra-high-accuracy in high-volume, high-mix manufacturing
- 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 experiences in the industry with reliable 24/7 field operations



MRSI-H1

1 Micron Die Bonder

H1

CONFIGURATION

STANDARD

HEATED
HEAD

APPLICATIONS

CoC/CoS/CoB	●	●
CoC Silicon Photonics	●	●
3D Die Stacking	●	●
Pillar-to-Pillar Bonding	●	●
AOC/PCB	●	
Gold Box	●	
Complex TO, E.g. EML/WDM		

PROCESSES

Multi-die	●	●
Multi-process	●	●
Eutectic	●	●
Epoxy Stamping	●	●
Epoxy Dispensing	●	
UV Curing	●	
Localized Heating		●
Flip-chip Bonding	●	●
Co-planarity Bonding	●	

FEATURES AND OPTIONS

Composite Base	●	●
Single Gantry/Head	●	●
Heated Head		●
Ultrafast Eutectic Station	●	●
“On-the-fly” Patented Tool Change	●	
Remote Patented Auto Tool Change		●
Inline Conveyor	●	●
Input GP/WP & Wafer	●	●
Output Stage	●	●