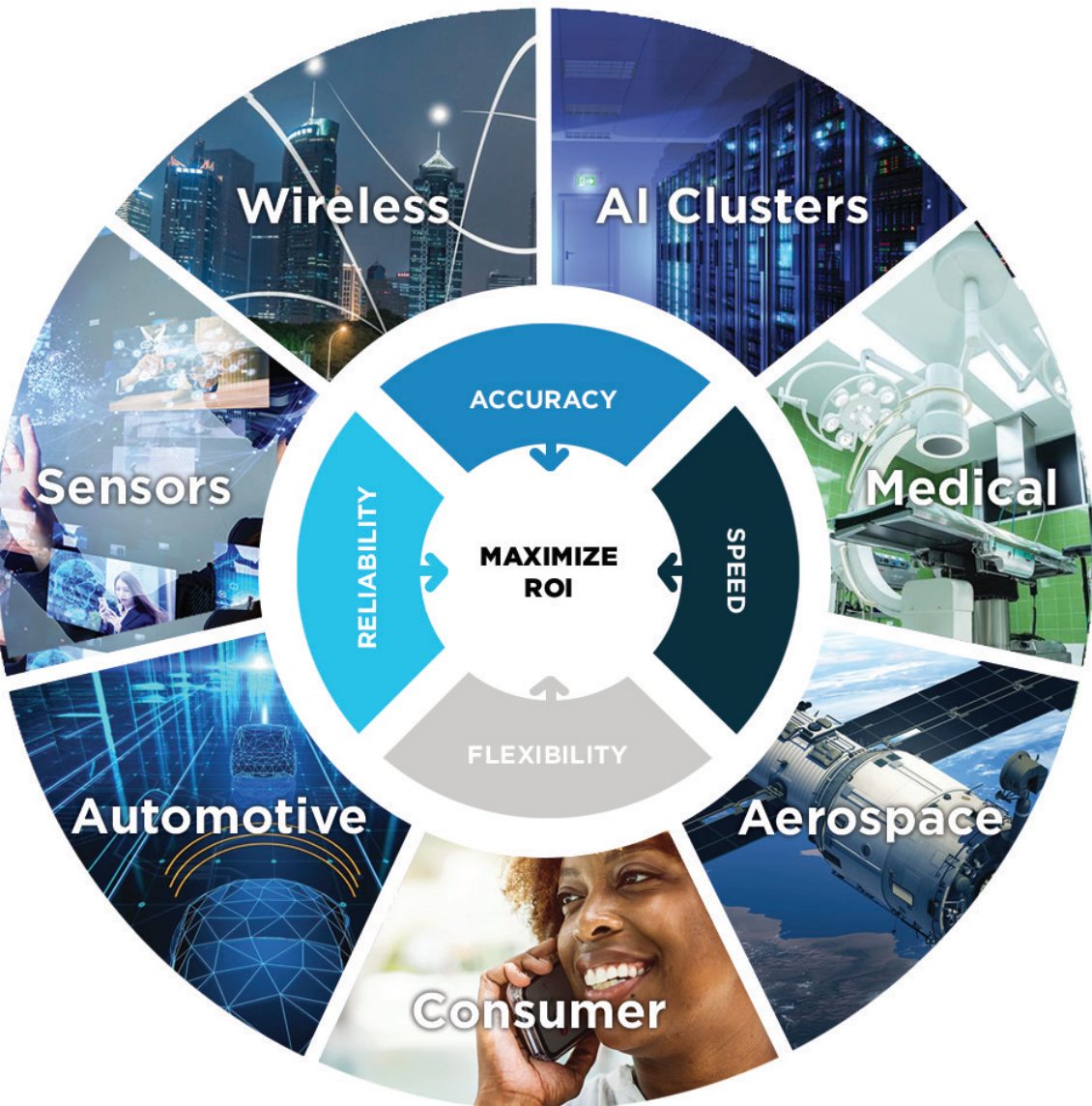


Bringing tomorrow's electronics to life



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mrsi.mycronic.com

North America MRSI Systems 554 Clark Rd., Tewksbury, MA USA 01876 Tel: +1 978 667 9449 sales.mrsi@mycronic.com	Asia MRSI Automation (Shenzhen) Co., Ltd 101, Building B, Han's Innovation Tower, 9018 Beihuan Avenue, Nanshan District, Shenzhen City, Guangdong Province, China 518057 Tel: +86 755 26414155	EMEA Distributor and Demo Center Distek Strumenti & Misure Srl Via Guglielmo Marconi, 15, 80125 Napoli NA, Italy Tel: +39 348 3837815 marco@distek.it
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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 leverage over 40 years of industry expertise in high-accuracy die bonders, active aligners, and fluid dispensers to deliver unparalleled precision and reliability for R&D, NPI, and high-volume manufacturing of photonic devices such as lasers, detectors, modulators, WDM/EML TO-Cans, Optical transceivers, LiDAR, VR/AR, sensors, silicon photonics, co-packaging optics, and optical imaging products. We provide the most flexible assembly solutions for all packaging levels, including chip-on-wafer (CoW), chip-on-carrier (CoC), PCB, and gold-box packaging. Our commitment to excellence ensures we meet our customers' needs with meticulous attention to detail and 24/7 field support. For more information, visit <https://www.mycronic.com/product-areas/die-bonding/>.

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.
 202606_MRSI-HV3



MRSI-H 1.5 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 AI Clusters, Medical, Aerospace, Wireless, Automotive, Sensors, 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-HVM and MRSI-H provide industry-leading high-speed for high-volume manufacturing.

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-H Applications



- MRSI-H-LD**
- 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
 - “On-the-fly” patented auto tool changer has twelve vacuum tips/collets integrated on the bonding head for zero time tool change



- MRSI-H-HPLD**
- Specifically designed for bonding large high-power laser diodes in mass production
 - Capable of die bonding single emitter, bar laser in different packages, like CoS, C-mount, Bar-on-Submount (BoS), etc. within one machine
 - Customized design self-leveling tools for Co-planarity solution



- MRSI-H-HPLD+**
- Enhanced MRSI-H-HPLD with significantly higher speed.



- MRSI-H-LDMOS**
- Specifically designed for bonding GaAs, Si, GaN, SiC dies for RF Power Amplifiers and Microwave Applications in mass production
 - Programmable die scrubbing process for a void free bonding process
 - Inline heaters, conveyors and loader/unloader options for improve UPH



- MRSI-H-TO**
- Specifically designed for handling multi-dies and multi-processes for complex TO products without tool changeover. e.g. TO-based EMLs and WDM LDs for wireless
 - TO handling module combined with pick and place head for dual parallel processing
 - Capability of both epoxy and eutectic die bonding in one process flow



- 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-H 1.5 Micron Die Bonder

	H-LD	H-HPLD H-HPLD+	H-LDMOS	H-TO	
CONFIGURATION	STANDARD	HEATED HEAD	FOR HPLD CHIP/BAR	FOR RF AMPLIFIER, POWER DEVICE	FOR TO-BASED ASSEMBLY
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		●			
TO Pick-and-Place Head					●
Dual TO 0° & 90° Eutectic Station					●
Inline Conveyor	●	●		●	
Input GP/WP & Wafer	●	●	●	●	●
Output Stage	●	●	●	●	●
Material Transfer Head	●	●	●	●	