

Semiconductor Laser Marking Systems

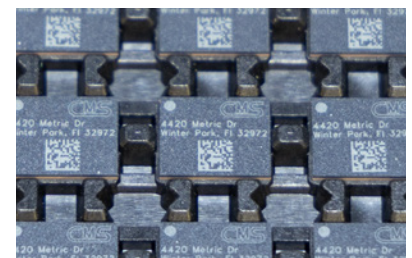
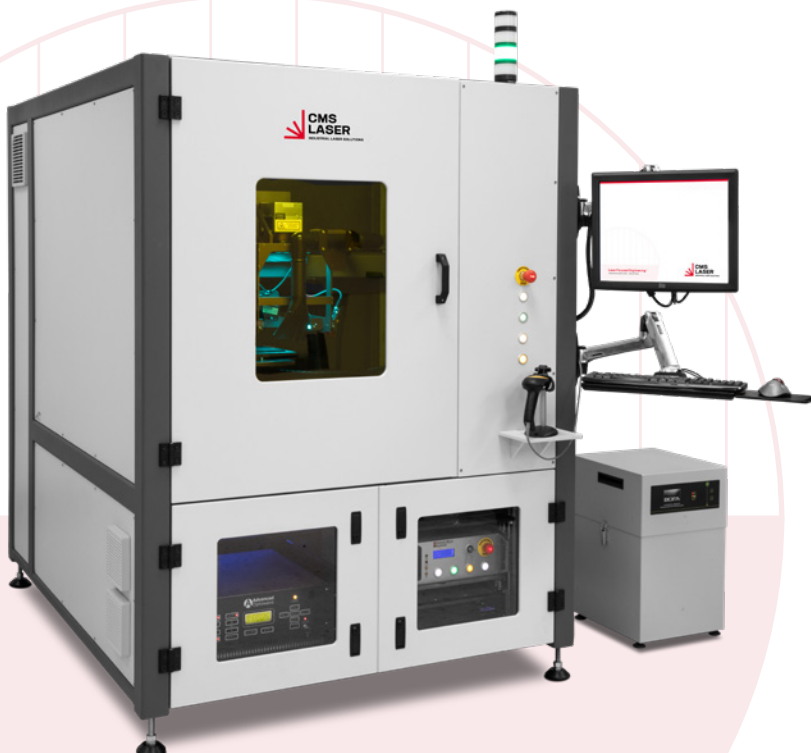
High-Precision Laser Marking of IC Mold Compounds

Today's semiconductor manufacturers require fast and precise marking solutions. Our systems use state-of-the-art machine vision that travels through the laser galvanometer scanhead giving our systems high-speed fiducial recognition—this is called our through the optics vision (TTOV) configuration. These systems mark characters at sizes precisely in accordance with user requirements. Lasers are highly accurate and produce minimal heat to mark even the smallest parts without any risk of damage, making this the best solution for the semiconductor industry.

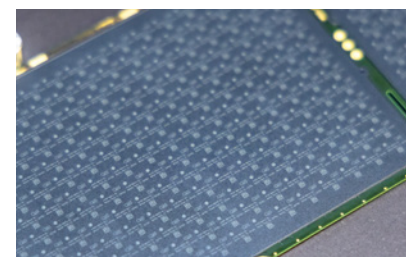
Contact us today to learn how CMS Laser can develop a system for your semiconductor production line.

SYSTEM FEATURES

- CDRH Class 1 laser system
- Ultraviolet laser with galvanometer scanhead
- XY processing table
- Through the optics vision setup
- Fixture plate
- Fume extraction system
- Safety interlocks and laser safe windows
- Windows® operating system with CMS Laser HMI software



WATCH VIDEO



Advantages

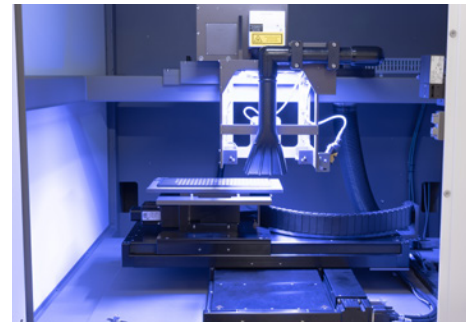
- Non-contact process
- Low maintenance
- No consumables and additives
- Permanent and high-contrast markings on IC mold compounds and ceramics
- Create data matrices, logos, shapes, and text
- High-speed fiducial recognition using through the optics vision
- Reliable design build with welded steel frame
- Computer-controlled process
- Mark position and alignment verification

JEDEC Tray Processing

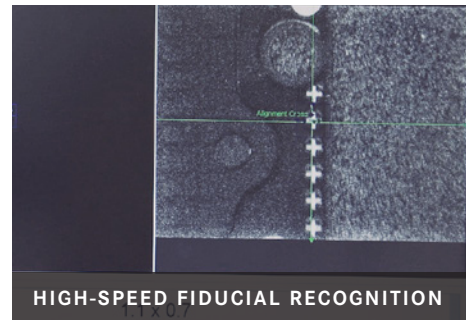
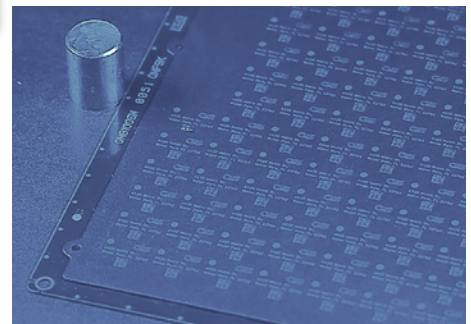
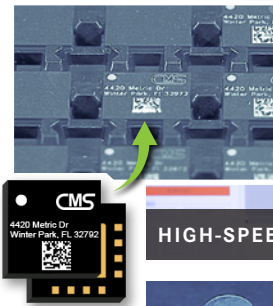
This system is configured to accept JEDEC trays full of tiny computer chips. The vision system ensures that each marking is positioned squared with the chip so that each mark, regardless of the seated position, is correctly aligned. The system will recognize if the tray isn't completely full and come to a stop.

Systems Built for You

CMS Laser doesn't produce an off-the-shelf unit for every job. Our systems are carefully designed, planned, and executed to meet customer requirements. Our laser-focused engineering team starts with one of our standard proven solutions and tailors the system to the customer's parts. Software is designed in-house and custom parts are created in our CNC machine shop.



HIGH-SPEED THROUGH OPTICS VISION



HIGH-SPEED FIDUCIAL RECOGNITION



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CMS Laser follows a policy of continuous product improvement. Specifications and system design are subject to change without notice.

