

# Tablet Drilling & Marking R&D Solutions

## Laser Processing Machines for Pharmaceutical Research and Development

CMS Laser has been an industry innovator in tablet drilling laser systems for time-release medications. Our TD-R&D systems provide an in-house method for developing API release profiles and anti-counterfeiting markings. We have a global install base and have worked with many pharmaceutical companies to provide research and development, batch submittal and full production solutions.

Contact us today to learn more about our solutions for the pharmaceutical industry. We provide free sample testing through our applications development lab to determine the best laser configuration and optics for the material being processed.

### SYSTEM FEATURES

- CDRH Class 1 CO2 laser drilling system
- Laser with galvanometer scanhead
- Drilling and marking option
- XY-axis table with tablet fixture plate
- Machine vision inspection
- Fume extraction system
- Stainless steel frame and panels
- Windows® operating system with CMS LaserDrill software

### CMS Laser offers both production and R&D systems. These systems offer...

- Flexibility for development work
- Dissolution Testing
- Pilot lot submissions



Watch Video



## TD-R&D System Advantages

- Drill batch samples for pilot lot submissions.
- Laser source offers the best in orifice quality over other lasers tested.
- Machine vision for post-process tablet inspection
- CMS Laser systems meet all OSHA Safety Codes criteria and meets or exceeds GMP standards.

## Tablet Drilling

Systems are capable of drilling single or multiple holes in tablets and LCTs. The laser was selected to provide superior orifice and repeatable release profile of the active pharmaceutical ingredient.

## Tablet Marking

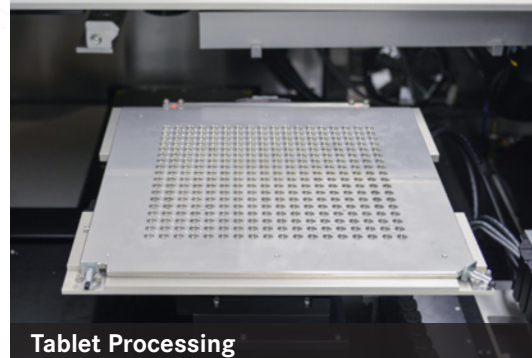
Guard against pharmaceutical counterfeiting by permanently marking unique patterns, 2D codes, expiration dates, logos and other characters onto round, oval, LCT and gel tablets or capsules.

## Tablet Inspection

Our through the optics vision system allows the camera to use the same galvo mirrors as the laser to quickly acquire and check each tablet for hole size, placement, quantity—minimizing delays.

## Research & Development

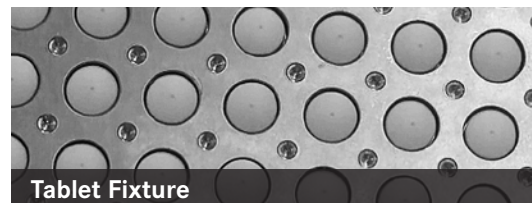
We have the resources to support client research and development endeavors with tailored solutions from initial conception through to prototype implementation.



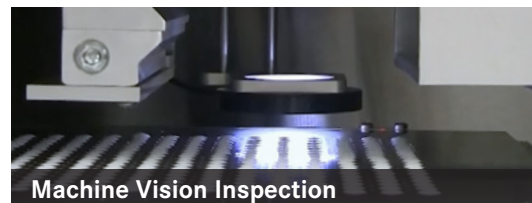
Tablet Processing



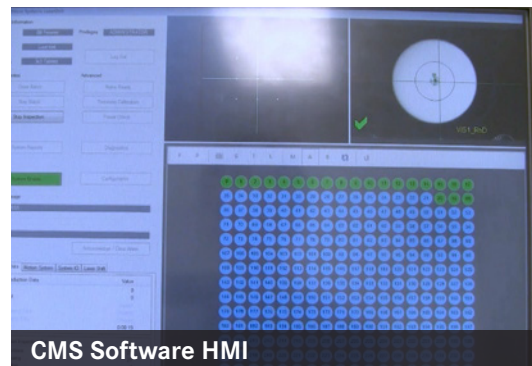
Tablet Drilling & Marking



Tablet Fixture



Machine Vision Inspection



CMS Software HMI



 **DESIGNED & BUILT IN USA**  
24/7 Worldwide Support & Service



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



The CMS Laser Systems described in this brochure complies with the requirements of 21 CFR 1040.10 and 1040.11, except for deviations pursuant to laser notice No. 50 dated June 24, 2007. These systems are certified by CMS Laser as a Class I laser product or Class IV Compliance with 21 CFR and may be verified by contacting the Office of Compliance at the Center of Devices and Radiological Health. Copyright © 2022 CMS Laser.