

Laser Wire Marking & Stripping Systems

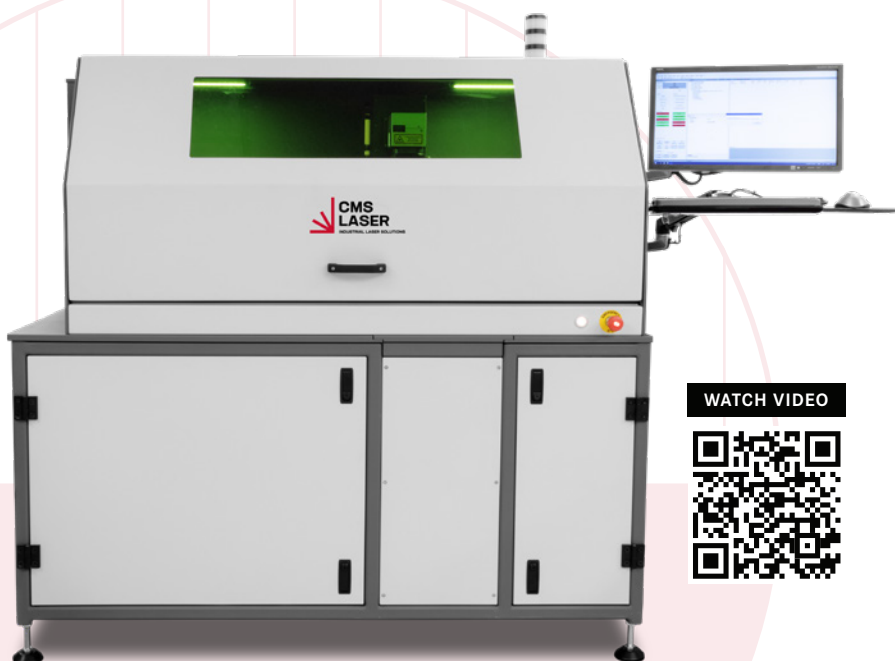
High-Speed Laser Processing Wires and Cables

Mark, strip and cut multiple gauge wire/cable in a fully automatic, high speed, computer controlled operation. Process all the wires for a complete harness board in one system. Laser wire marking produces permanent, high-contrast surface marks without damage on all insulations as specified in aerospace (AS5649). Our systems are capable of importing job files from multiple sources including text files, spreadsheets, and databases. With laser wire stripping, there are zero defects/damage to the wire core ensuring optimal performance.

Contact us today to learn more about our laser systems for your wire marking and stripping.

SYSTEM FEATURES

- CDRH Class 1 laser system
- UV laser for wire marking
- Dual CO2 lasers with galvanometer scanheads for wire stripping
- Mechanical blade for wire cutting
- Selective stripping methods
- Fume extraction system
- Safety interlocks and laser safe window
- Windows® operating system with CMS Laser HMI software



Mark. Strip. Cut Wires to Length



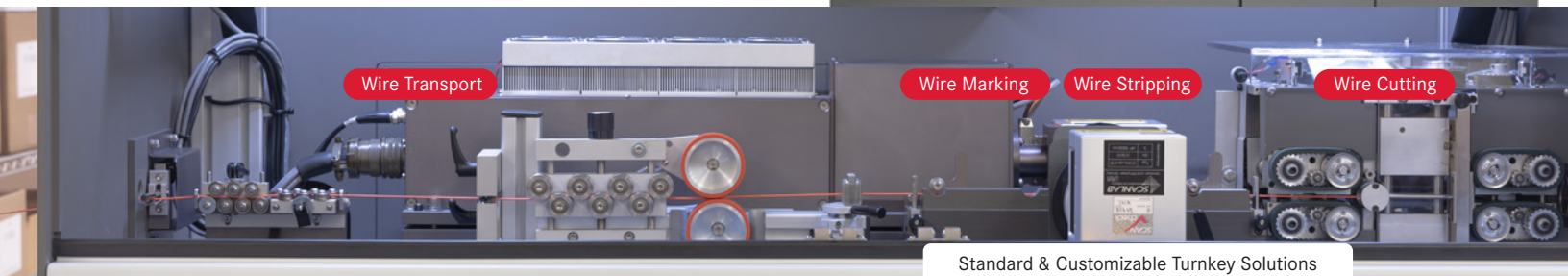
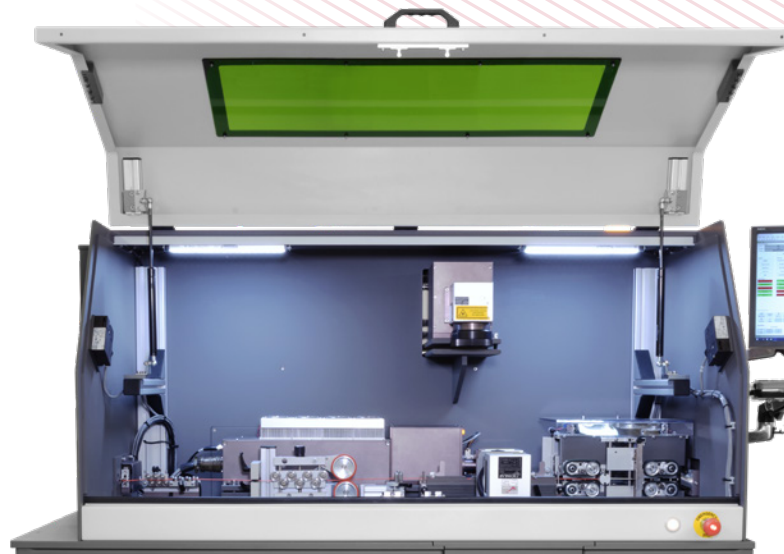
Reel-to-Reel Marking System

Wire Transport

- Dual axis wire straightener
- Transport belts electronically adjustable for variable pressure
- Standard wire gauge 26-6

Marking

- High speed On-The-Fly (OTF) marking throughput in excess of 120 inches/second
- Vertical and horizontal text marking with various fonts and sizes
- Infinite variable end mark distances
- Identical text marking on each wire or optional



Standard & Customizable Turnkey Solutions

- programming text for each of the wires
- Automatic serialization, date code, time stamp, and wire length of each wire upon request
- High-resolution marking on twisted pair wires

Stripping

- Laser (non-mechanical) Stripping
- Infinite number of variable wire stripping lengths from 0 up to 4 inches (option to increase strip length) on various insulation types without damage to conductor.
- Stripping of shielded twisted pair wires down to the shielding without damage to shielding.
- Various wire stripping modes available to ensure slugs remain on wire strands
- On-The-Fly stripping option available
- End and window stripping functions
- Wire strip length accuracy within ± 0.010 inches

Cutting

- Laser cutting optional
- Long life blades

- Straight perpendicular cuts
- Wire length accuracy to within ± 0.200 inches at wire lengths of 240 inches

Reliability

- Steel base frame supports all optical and laser components

Software

- Backend database storage of wire data
- Local or network database capability (for multi-system sites)
- Simultaneous multi-user login to database (for administration and wire data management)
- Extensive logging capability for metering wire production
- Simple touch-screen interface for system operation
- Capable of wire job files in excess of 100,000 wires in a single job
- Straight or coiled wire collection bins/pans
- Pause and resume feature
- Multilingual - Optional



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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 Control Micro Systems 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 Control Micro Systems, Inc.