T-MARK COMPACT LASER MARKER

LASER MARKING

Permanent, unique identification of tires.

The T-Mark Compact handheld laser tire marking system allows laser engraving of tire sidewalls with serial numbers, product specifications, and logos. It is designed to manually mark tires in a vertical or horizontal orientation. The compact laser marking system can be mounted on existing handling systems for tire inspection or used in a stand-alone fashion. The operator may manually enter the information to be marked or retrieve the data from a host system, PLC, or bar code label.

Used as an alternative to metal tags placed in molds, laser marking achieves a better appearance and reduces the overall cost of marking. The system is easy to program with the use of a touch screen, and its integration capabilities eliminate marking mistakes. It is also safe to operate, keeping all vapors and particulates contained and filtered through an integrated air filtration system.

Tire Marking Applications

- Tire identification numbers
- Production date and removal date codes
- Customer-specific symbols and warnings
- Post-cure test data or quality ratings
- Test tire traceability markings

SPECIFICATIONS

Laser	30 Watt CO_2 Laser, Class I safety rating
Electric Supply	110V/60 Hz or 230V
Interface	Ethernet / Serial (RS-232)
Dimensions	Cabinet: 2' x 2.6' footprint Marking Head: 30" H x 10" W x 15.5" D
Weight	40 lbs. (marking head)

Umbilical Cable Length	16 feet (other lengths available)
Marking Window	Approximately 4" x 4"
Graphics	Raster or Vector
Bar Codes	All standard bar codes and 2D Data Matrix codes
Languages	English, German

Permanent and Individual Markings

Mark passenger or OTR tires with tire identification numbers, date codes, and other alphanumeric information.

Better Traceability

Tire makers and OEM customers can trace each individual tire years after the date of manufacture. Laser markings are more durable than bar code labels and more economical than RFID transponders. Laser markings are machine-readable in the plant and human-readable once in the field.

DOT Code Marking

Date codes can be created after curing, ensuring TREAD act compliance without the need for weekly plate changes and engraving or flipping of molds.

Cost Reduction

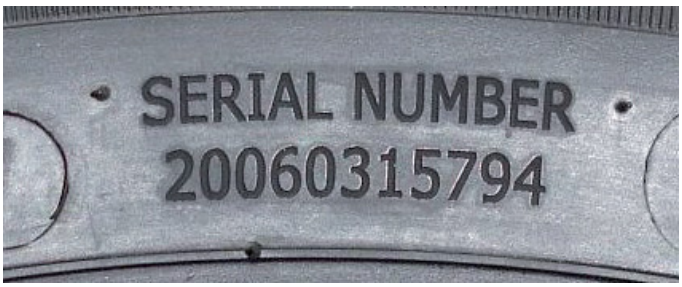
Laser marking can eliminate the need for thousands of individual mold inserts for serial numbers or date codes. Marking lasers require no consumables or maintenance, and have very low operating costs.

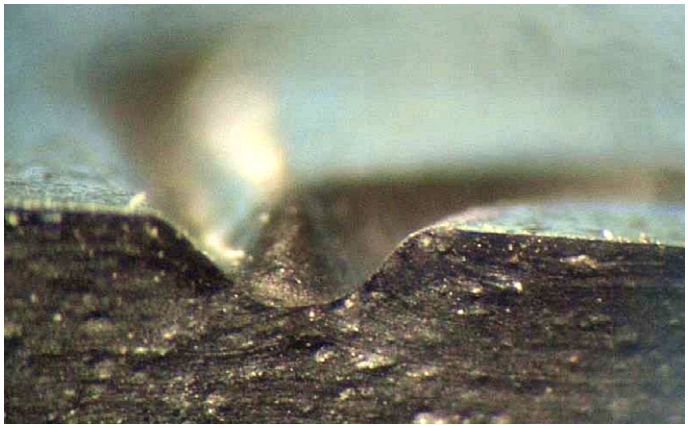
Safe, Touchless Marking

The focused laser beam vaporizes the rubber, creating crisp marks that require no post-processing. Heat input to the surrounding tire body is negligible. The round beam spot leaves a soft edged marking groove in the sidewall that does not affect the tire quality or durability. Gases in the marking chamber are extracted through a metal nozzle and sent back to an air filtration system in the cabinet.

Compact Design

The compact design requires minimal floor space and can be easily integrated in the curing room, final finish area, or warehouse.

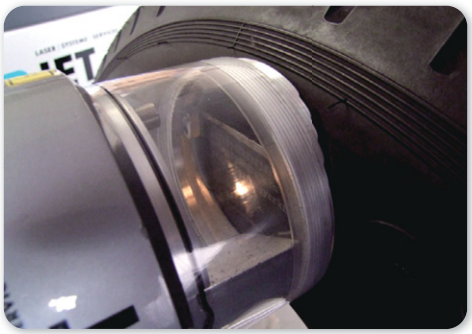




Cross-section view of marked sidewall.

Program the message.

Position the marking head.



Mark!

PANNIER CORPORATION
207 Sandusky Street • Pittsburgh PA 15212-5823 USA
412-323-4900 tel • 412-323-4962 fax • sales@pannier.com • www.pannier.com