

Discover our extended product family

Erhardt+Leimer online/offline profile measurement systems

The profile is one of the key parameters for trouble-free and reliable tire production. Our EL-TRISCAN profilometers, using state-of-the-art measurement technology, ensure exceptional measurement accuracy and reliability.

Based on a granite O- or C-frame, equipped with two traversing triangulation lasers or fixed line triangulation sensors, EL-TRISCAN is a highly accurate and versatile solution for the precise measurement of 2D profiles on a wide variety of surfaces.

Stable granite frame

The O- or C-frame of the EL-TRISCAN is made of high-quality granite and is characterized by its high density, stability and minimal thermal expansion. These properties make the system insensitive to temperature or humidity fluctuations and vibrations and guarantee high-precision measurements.

Triangulation laser

EL-TRISCAN uses either two traversing point triangulation lasers or several line triangulation lasers to capture exact 2D profiles of surfaces. By traversing the lasers, sources of error are minimized and greater precision is achieved, even with complex surface structures.

Real-time data processing and analysis

The captured data is transmitted directly to the control unit, where it is analyzed in real time and processed for various applications such as quality assurance or production monitoring. Thanks to the integrated software, surface defects can be detected quickly.

High precision and repeatability

Thanks to the combination of a stable granite frame and modern laser measurement technology, EL-TRISCAN detects even the smallest irregularities with high repeat accuracy. This is particularly important in sectors such as the automotive and aviation industries, where maximum precision is required.

Usability and integration

The intuitive software allows the operator to quickly adjust measurement parameters and monitor results in real time. Thanks to its modular design, EL-TRISCAN can be easily integrated into existing production lines.

Versatile application

EL-TRISCAN profilometers are used in numerous industries from automotive to medical technology and in a wide variety of areas such as manufacturing, quality assurance, research, development and more.

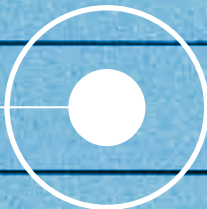
Robust and durable

The exceptional durability of the granite frame and its temperature resistance make EL-TRISCAN an ideal solution for use in demanding industrial environments.

Technical data

Material thicknesses	up to 150 mm (more on request)
Material widths	up to 4 m (more on request)
Accuracy thicknesses	up to $\pm 1 \mu\text{m}$ (less on request)
Measuring capabilities	Cgk >1.67

EL-TRISCAN



O-frame and C-frame

- High accuracy up to $\pm 10 \mu\text{m}$
- Thermally-stable granite frame
- Detailed quality reports

The traversing O-frame (NRS50) and C-frame (NRS60) systems offer precise profile acquisition using laser triangulation, chromatic-confocal, or interferometric sensors.



EL-TRISCAN TR O-frame

Light section

- High reproducibility
- Resistant to environmental influences
- Real-time measurement

The EL-TRISCAN LS system uses light section sensors to measure the external geometry of moving products like treads and sidewalls.



EL-TRISCAN LS

Light section 360°

- Triple or quadruple-sided measurement
- Thermally stable granite O-frame
- High vibrational damping

The EL-TRISCAN LS 360° system uses light section sensors to measure the external geometry of complex rubber strips on three or four sides.

NEW



EL-TRISCAN LS 360°

Offline profile

- High accuracy up to $\pm 5 \mu\text{m}$
- Traversing point-type laser sensors
- Statistical documentation for improved quality

The EL-TRISCAN offline system (NOS20) provides precise offline profile measurement for treads, sidewalls, and inner liners in a temperature-controlled environment.



EL-TRISCAN offline

More about
EL-TRISCAN

