

Extruder Line Profilometer



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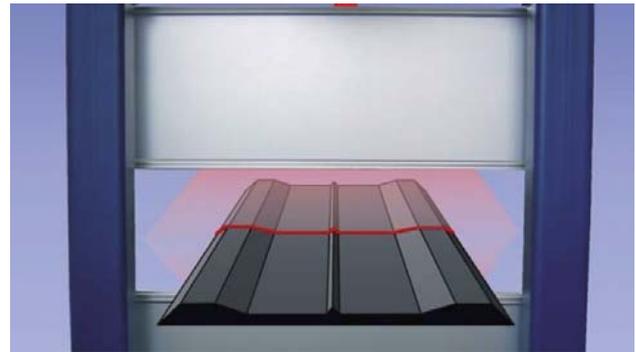
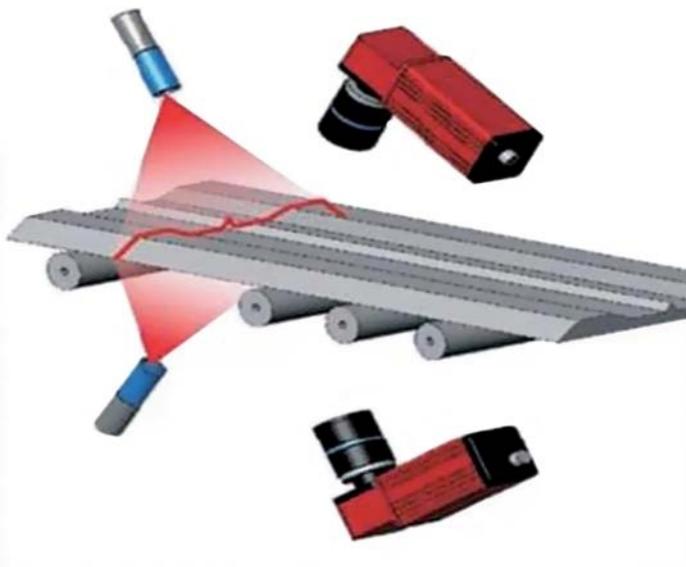
The Micro-Epsilon extruder line profilometer provides on-line precision measurements of the overall dimensions of rubber profiles. Using laser scanning technology, the extruder line profilometer is able to perform measurements continuously, contactless and independently of conveyor speed. On-line measurement system allows automated collection of product data, as well as providing the feedback necessary to process control. All these factors give you ability to improve consistency and stability of the profile extrusion process.

The sheet of light sensor equipment scans projected laser line across a product at high frequency. Profile dimensions are detected as a difference of the top and the bottom product distance measurement. Sensing equipment is attached to a robust steel frame, which ensures long-term mechanical stability of system, crucial for measurement accuracy. Data obtained from sensors are processed in industrial PC and integrated with other line control systems. The system has a built-in automatic calibration tool.

Features

- Continuous non-contact measurement (sheet-of-light laser)
- Automated data collection and powerful visualization
- Robust construction
- Extended connectivity
- Long term stability and accuracy
- Simple calibration
- Offline processing tools (trends visualization, correlation evaluation, ...)





Software features

Trend chart

Allow operator to follow product dimensions graphically. The user may customize the trend charts to show desired data versus different process quantities

Recipes

Network and integration

Flexible communication, fieldbus interface protocol support, TCP/IP networking

Printed reports

Single/batch measurement reports are generated, event is triggered manually by the operator or automatically on regular basis

Data logging

Profile data logging for off-line analysis and archives

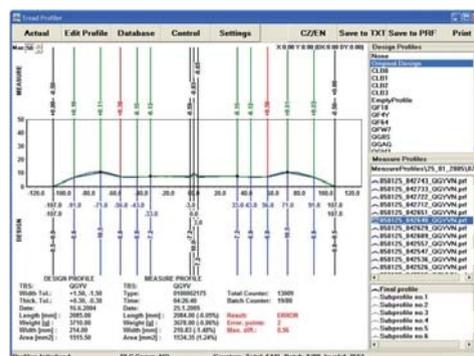
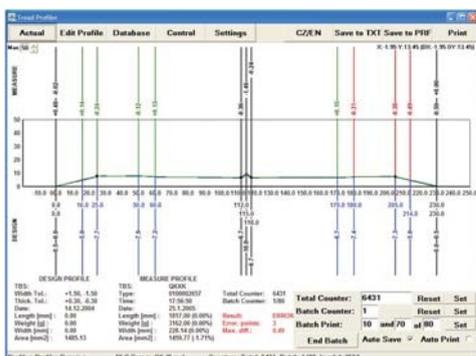
Subprofile analysis

Allows check multiple tread profiles per each tread batch cut.

Technical specifications

Profile thickness	50 mm max
Profile width	1200 mm max
Thickness accuracy *	0.03 mm
Width accuracy *	0.5 mm
Measurement rate	40/s max
Tread length	1 m min.
Conveyor speed	2 m/s max
Connectivity	TCP/IP, ADS, RS-232, A/D I/O, fieldbusinterface

* related to measurement rate 40/s, conveyor speed 1m/s, tread length 1m



Profile Measurement Results

Measurements Database