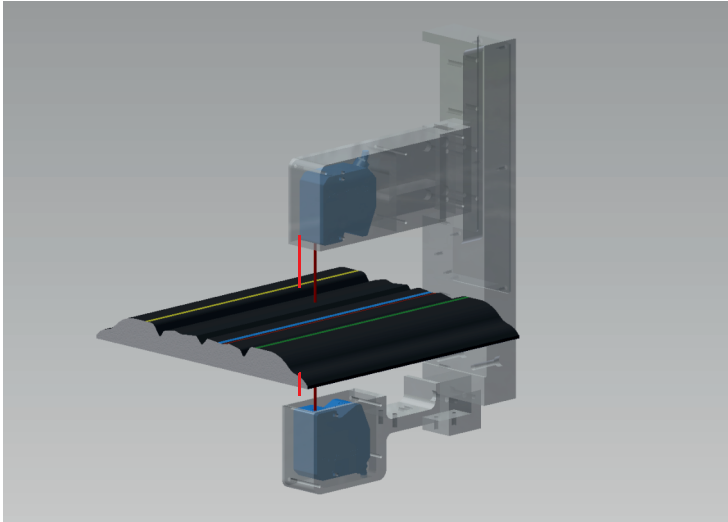# PM-Offline
Cross Sectional Profile Verification

Profile Measurement with Laser Point

PM-Offline is a very precise two laser measurement system for
- cross-sectional profile verification
- and determination of extruded or calendered products
  like tread, sidewall, ply, apex, inserts, etc. …
- measuring thickness, width, shoulder width, symmetry, …

Highest Quality PM-Offline uses two laser sensors of highest quality. One sensor scans the upper side profile of the product while the opposite sensor scans simultaneous the lower side profile. The high scanning speed results in a fast measurement, also for large products.

Economical The system supports the tire industry to optimize the production and save raw material. It enables a faster setup of new dies and the documentation of the production processes by a fast and accurate measurement of the final product geometry in comparison to the product specification.
The software tools for evaluation and display of results are specially designed for the requirements of the tire industry in the production as well as in the laboratory.
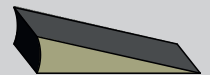
Flexible The mechanical and electrical layout of the PM-Offline enables an installation in rough environments and allows an easy movement of the complete system. The PM-Offline has a touch panel display mounted at a swivel arm and a keyboard in a drawer to have best conditions for an installation at any location.
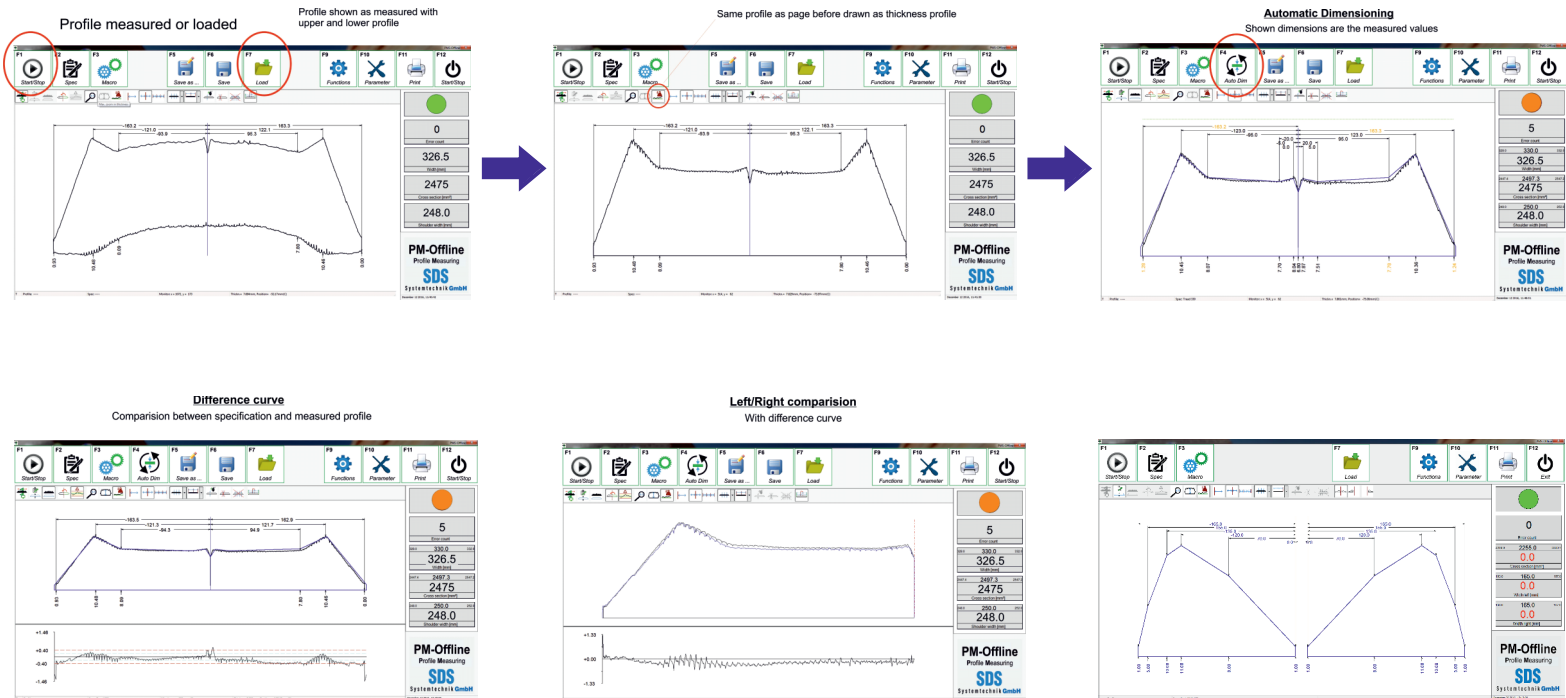

tread

sidewall components

apex
and others

SDS
Systemtechnik
GmbH

www.sds-systemtechnik.com

PRECISE LASER MEASUREMENT BY SDS TECHNOLOGY

Profile measured or loaded

Profile shown as measured with upper and lower profile

Same profile as page before drawn as thickness profile

Automatic Dimensioning
Shown dimensions are the measured values

Difference curve
Comparision between specification and measured profile

Left/Right comparision
With difference curve

Features	PM Offline
Visible scanning laser sensor	650 nm, red
Laser class	2; no additional safety protection or covering required
Optional	air curtain to protect optic's in industrial environment
Difference Measurement	one laser from top - one from bottom
Product width	up to 900 mm
Thickness Range	up to 35mm - or larger with 2nd sensor, larger range (less accuracy) or second position
Thickness Measurement	every 0.05mm across product
Thickness Accuracy	0,020
Width Accuracy	0,1mm
Scanning Speed	up to 175mm/sec.
Integrated Calibration Tool	certified
max. Dimensions L x W x H (mm) & Weight	1400 x 600 x 1275 / ca. 450 kg
mounted screen hight adjustbility (mm)	750 - 1000
Electrical Connection	50 / 60Hz, 230 V, 10 A

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