

over
20
years
experience



Geometrie Laser
Messtechnik

TSA · Tire Section Analyzer

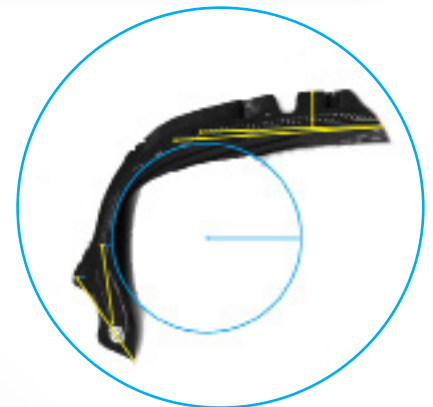
on tires
Compact measurement system

- ✓ Compact measurement system
- ✓ Simple calibration
- ✓ Multiple dimensioning functions
- ✓ Transfer of data from/to TriScan Tire
- ✓ Optimised for higher depth of focus
- ✓ Dimensioning software 'TS'
current version running on PC of TriScan Tire
- Sensor:*
- ✓ Scanning Unit
- ✓ Scanning size: A3 ca. 12" x 17" / 300 - 430 mm
- ✓ Resolution selectable by user 400 dpi - 1200 dpi
- ✓ Illumination adapted to low light reflection
of black caoutchouc
- ✓ Sensor adapted to low light level, high dynamic range



Customer Information		Project Information	
Version:	2.3 beta	Project name:	S27Sx3V1
Customer:	GL Messtechnik	Map name:	Example
Date:	01.02.2016		

	Name	Nominal value	Measured value	Dim	Tolerance	Mode
1	Steel Cord Width #1		92.14	mm		L
2	Steel Cord Width #2		82.65	mm		L
3	C Total		14.35	mm		L
4	U1 gauge		0.92	mm		L
5	SH Total		11.13	mm		L
6	Under Tread Max		2.71	mm		L
7	Under Tread Min		0.66	mm		L
8	SW F		7.61	mm		L
9	BP T1H		55.69	mm		L
10	RS TOP		49.89	mm		L
11	BP		31.55	mm		L



TSA · Tire Section Analyzer

Software functions:

- ✓ Dimensioning
 - ✓ Distance: Point-to-Point & Point-to-Line
 - ✓ Angle: Between two lines
 - ✓ Area: Rectangle & Freeform (Polygon)
 - ✓ Curve Distance through user defined points
- ✓ Transfer of data from/to TriScan Tire
- ✓ Multiple measurements with statistical evaluation in Excel
- ✓ Image editor to enter specific graphic symbols and text into image
- ✓ Measurement between positions in different zooming areas
- ✓ Numeric table of measured values
- ✓ Export: ASCII file / BMP
- ✓ Pre-Scan (selectable region of interest)
- ✓ Recipe files management (Recipe number, tire model, control sequence, reference point, reference axis)
- ✓ Scan completed after 30 sec up to 190 sec (depending on resolution and size)
- ✓ Support for finding different material border lines
- ✓ Fixation unit (to hold the section in a defined way)
- ✓ Measurement in true mm (not only in pixel)
- ✓ Legend display
- ✓ Pixel zoom
- ✓ Print-out possibility
- ✓ Image display
- ✓ Calibration
- ✓ Filter functions:
 - ✓ Sobel
 - ✓ Range
 - ✓ Laplace
 - ✓ Median



TSA in combination with TriScan Tire System