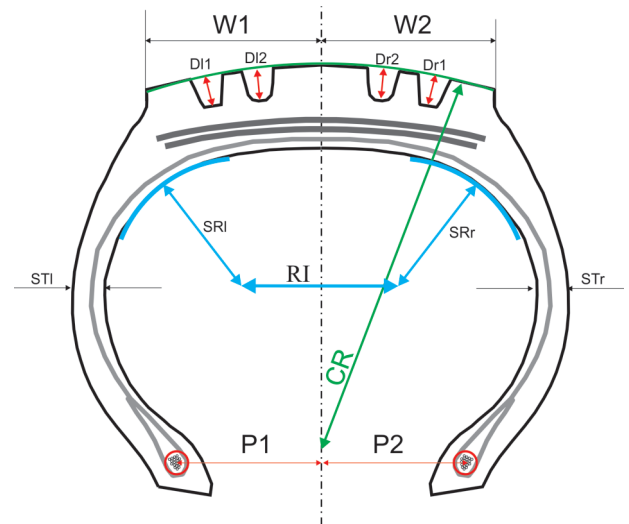


Gamma-X

Tire cross section dimensioning

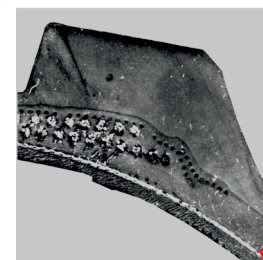


The scanner for cross sections

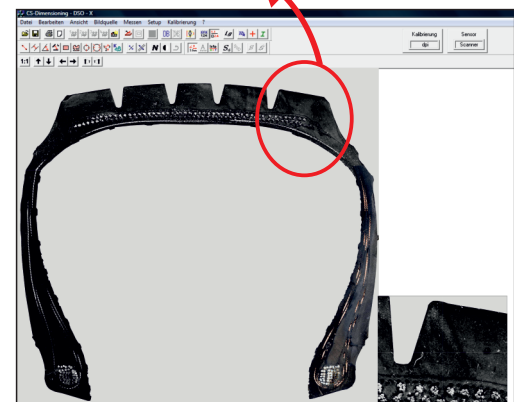
The Gamma-X series are designed to measure cross-sections of thick, dark products like tire cross sections. Optimized flatbed scanners are used for easy, fast and precise manual measurement. The scan units have high sensitive measuring heads to detect small gray differences at the surface of the tire cross sections.

The included software package is designed for manual dimensioning and marking of objects measured by scanners or optional additional connected GigE-cameras. Also available are software package extensions for guided measurements by predefined measurement tasks or for overlay of CAD drawings onto the measured scans.

The standard systems are build for a maximum product thickness of 100mm and for scanning areas from DIN A4 to DIN A2. The optical resolution reaches from 6400 dpi (4µm) for the A4 scanner to 2400dpi (10µm) for the A2 scanner.



Tire cross section






























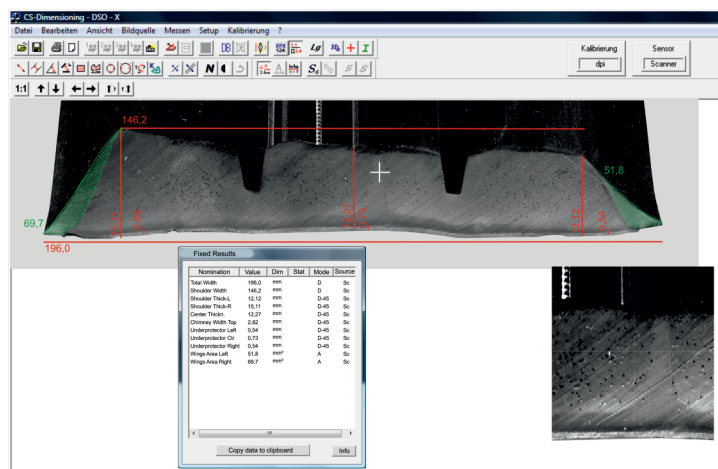
Your benefits

- High sensitive sensor head to detect smallest grey differences
- Reproducible measurements
- Easy archiving of quality checks
- Scan glass made out of safety glass - easy replaceable!
- Optional extension to perform pre-defined guided measurement steps
- Optional overlay of CAD drawings
- Optional extension to connect GigE-cameras e.g. with microscopes



GEOMETRICAL MEASUREMENTS - SIMPLE AND PRECISE

- | | | | | | |
|---|-------------------------------|---|----------------------|---|-------------------------------|
|  | Distance: Point to point |  | Circle 3pt. |  | Statistical evaluations |
|  | Distance: Line to line |  | Circle 6pt. best fit |  | Pixel loupe |
|  | Angle: 3pt. (closed) |  | Circle 6pt. segment |  | Zooming functions |
|  | Angle: 4pt. (open) |  | Polyline length |  | Image alignment to line |
|  | Distance to horz. reference |  | Area rectangle |  | Hotkey mode |
|  | Distance to vert. reference |  | Area polyline |  | Guided measurements |
|  | Distance to ref. point |  | Counter, 6 levels |  | Export functions |
|  | Distance circle centre to pt. |  | Contour detection |  | Calibration functions |
|  | Distance center to centre |  | Footprint analysis |  | List display with data export |



Tread cross section.
Enlarged part showing base cap

	Gamma-2	Gamma-3	Gamma-4
Product dimension max. [mm]	594 x 420	420 x 297	297 x 210
Product dimension max. [in]	23,39 x 16,54	16,54 x 11,69	11,69 x 8,271
Product thickness max. [mm]	100	100	100
Horizontal resolution [DPI]	4800	2400	6400
Vertical resolution [DPI]	2400	4800	6400
Optical density	3.8	3.8	4.0
Temperature range	+10°C ... +40°C	+10°C ... +40°C	+10°C ... +35°C
Case dimensions (W x D x H) [mm]	780 x 1090 x 298	545 x 780 x 298	390 x 545 x 298
Power supply	230V, AC, 45W	230V, AC, 45W	230V, AC, 35W
Computer	Mini Tower, Win 10 Prof	Mini Tower, Win 10 Prof	Mini Tower, Win 10 Prof
Monitor	27", 4k, IPS	27", 4k, IPS	27", 4k, IPS

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