

TR Scan

3D LINE (Band) (Trimos N° 700 405 30 40)



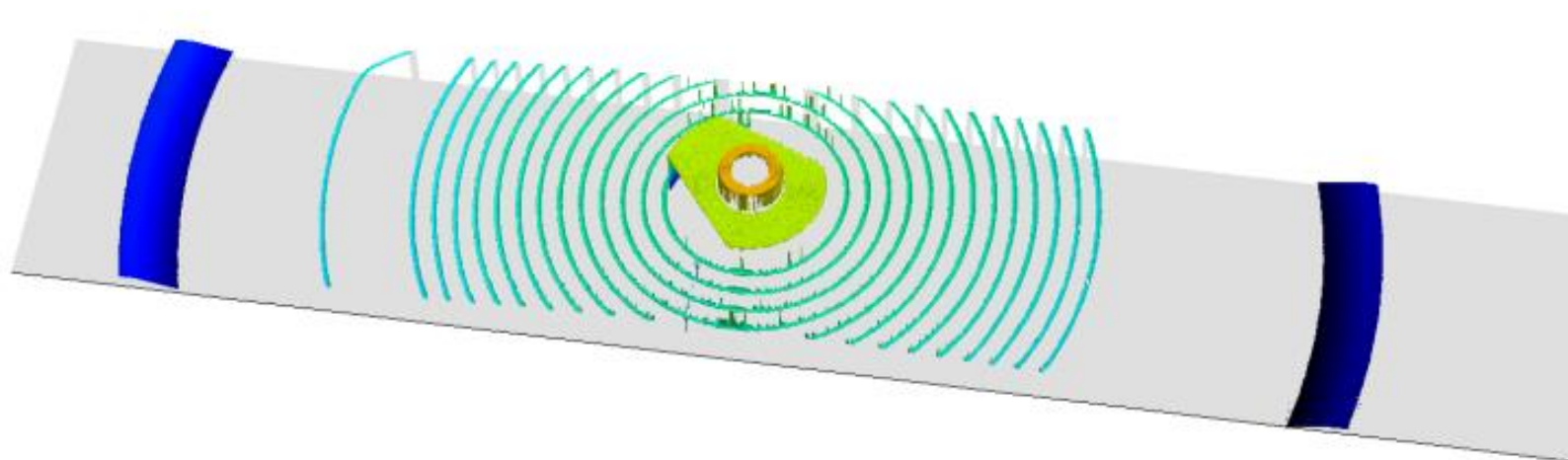


Technology **CCMP**

Pack including:

- TR SCAN with 2 CNC Axes (Z / X)
- CCMP Line 1.92 mm or 4.8 mm
- 2 Screen TFT 19"
- Workstation Dell with Windows Seven 64 bits Ultimate
- Trimos Measurement and Trimos Analysis STT software

Application: **Fast measuring limited at the lateral size 1.9 mm or 4.8 mm**
For roughness in 3D and microtopography for all parts



Technical specifications for CCMP1 (3D LINE Band & Full)



The chromatic confocal line sensor TRIMOS CCM-L1 offers an incredibly fast 3D measurement of 384.000 points per second with nanometric scale resolution.

A robust and compact design, as well as outstanding dynamic range and an excellent signal to noise ratio, make the TRIMOS CCM-L1 the best measuring tool for all materials – including polished and highly tilted surfaces. With its unrivaled performance/price ratio, TRIMOS CCM-L1 is the best choice for ultrafast 3D inspection.



OPTICAL PROBE	CCM-L1 0.2mm	CCM-L1 1mm	CCM-L1 4mm
Measuring range	200 μm	0.95 mm	3.9 mm
Line length	0.96 mm \pm 0.01 mm	1.91 mm \pm 0.01 mm	4.78 mm \pm 0.02 mm
Lateral pitch (Y)	5 μm	10 μm	25 μm
Working distance ¹⁾	5.3 mm \pm 0.2 mm	18.5 mm \pm 0.2 mm	41 mm \pm 0.2 mm
Spot diameter	2 μm	4 μm	10 μm
Lateral resolution	1 μm	2 μm	5 μm
Axial resolution (Z)	20 nm	80 nm	320 nm
Accuracy ²⁾	\pm 80 nm	\pm 300 nm	\pm 1.2 μm
Numerical aperture	0.7	0.55	0.33
Measurement angle to surface ³⁾	90° \pm 44°	90° \pm 33°	90° \pm 20°
Thickness measuring range ⁴⁾	20 μm - 280 μm	75 μm - 1.35 mm	300 μm - 5.5 mm
Dimension length diameter	70.4 mm 37 mm	93.3 mm 54 mm	120 mm 58 mm

1) bottom of optical probe to middle of measuring range

2) measurement on perpendicular mirror at 20°C

3) decreasing accuracy on the limits

4) refractive index n = 1.5

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