



PROBEscanner – for Leica T-Probe
Fact Sheet
Version 01/2010

Leica
Geosystems



 **HEXAGON**
METROLOGY

Leica T-Probe – simple Scanning.

Feature	Benefit
Line scanner with integrated controller unit	Most cost efficient large volume scanning solution
Plug and play Leica T-Probe interface	Within minutes you add a scanning solution to your existing Leica T-Probe system
Large measurement volume up to 30 m	Scan details at different locations of large parts without repositioning laser tracker
Large stand-off distance	Collect data even in areas where physical access is limited
High scanning rate	Save time by moving the PROBEscanner very fast along objects while capturing the geometry in high detail
Unique Rotation Adapter (by Leica Geosystems patent pending)	While the Leica T-Probe is facing the Leica Absolute Tracker the rotation adapter allows to rotate the scan line by +/- 60 degrees to conveniently capture all feature details from one set up

Typical system accuracies (at 7 m)

Measurement uncertainty of a sphere radius (2 sigma)*	0.10 mm (0.0039")
Measurement uncertainty of a plane surface (2 sigma)*	0.16 mm (0.0063")

Steinbichler Scan-Probe Specifications**

Measuring depth	100 mm (3.94")
Mean scan width	55 mm (2.17")
Mean measuring distance	110 mm (4.33")
Measuring rate	64'000 pts/s
Line frequency	100 lines/s
Points per line	640 points
Point density	0.093 mm (0.0037")
Accuracy	0.040 mm (0.0016")
Weight	670 g (1.5 lbs)

Leica T-Probe System Specifications

Measurement volume	
Maximal Volume (diam.)	18m / 30m (59ft / 98 ft)
Horizontal	360°
Vertical	±45°
Acceptance angle (Freedom to rotate)	
Pitch angle	±45°
Jaw angle	±45°
Roll angle	360°, unlimited

Measuring and tracking performance	
Tracking speed all directions	> 1 m/s (≈ 3.3 ft/s)
Acceleration all directions	1g

*Achieved with a Leica T-Probe System under stable conditions

**according to Steinbichler specification as of January 2010



Thermal stability
& robustness



Six Degrees of Freedom



Leica Absolute
Interferometer (AIFM)



Leica AT901-MR gives you a measurement volume of up to 18 m (59 ft), Leica AT901-LR up to 30 m (98 ft)



Whether building the fastest car, the biggest plane, or the most precise tooling, you need exact measurements to improve quality and productivity. So when it has to be right, professionals trust Leica Geosystems Metrology to help collect, analyze, and present 3-dimensional (3D) data for industrial measurement.

Leica Geosystems Metrology is best known for its broad array of control and industrial measurement products including laser trackers, Local Positioning Technology (LPT) based systems, hand-held scanners, 3D software and high-precision total stations. Those who use Leica Metrology products every day trust them for their dependability, the value they deliver, and the world-class service & support that's second to none.

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