

# LEICA ABSOLUTE TRACKERS Probing Solutions



Leica Absolute Tracker AT402 and B-Probe

## ENTRY-LEVEL ULTRA-PORTABLE PROBING SYSTEM

The Leica B-Probe is a handheld and battery-powered point probing device made for the Leica Absolute Tracker AT402, Hexagon Metrology's most portable laser tracker. Due to its unique portability, small footprint and wireless operation, it can measure where neither 3D laser trackers nor traditional optical probing systems can reach.



Leica AT402: 160 m radial distance from the sensor

### Hand-Luggage Metrology Solution

Consequent pursuit of portability: the entire laser tracker weighs only 8 kg and fits into a micro-car or a hand luggage bin.





#### Size Does Not Matter

The Leica B-Probe can gather hidden 3D points in a measurement volume of 20 m around the Leica Absolute Tracker AT402. With endless telescope rotation, the Leica AT402 covers a full 360° horizontal and a 290° vertical dome. For very large structures that require highly accurate measurements, the volume can be extended with virtually no loss in probing accuracy by completing a laser tracker move station.



Leica B-Probe: 10 m radial distance from the sensor

Leica Absolute Tracker AT960 and T-Probe

### TOP PERFORMANCE HIGH ACCURACY 6DOF PROBING SYSTEM

Leica T-Probe, the "Walk-Around" armless, wireless solution for probing of hidden, hard-to-reach points in one go with minimal setup times, has become a high-performance industry standard. Thousands of users benefit from a high point-acquisition rate, automatic stylus recognition and individually assignable multi-function buttons.



2 8 4

High accuracy inspection



Customized stylus



Automatic stylus recognition



Wireless inspection of hidden points

### Up to 60 m Working Volume (ø)

Together with the Leica Absolute Tracker AT960, the Leica T-Probe creates a flexible top-performance probing solution that delivers real-time output. Small, light, user-friendly and more accurate than any other handheld probe in the world, the Leica T-Probe gives you more than 6 Degrees of Freedom: it gives you the right way to measure. Pairing individual hardware options with applications, the Leica T-Probe remains highly accurate at a measurement volume (ø) up to 60m in a single set-up.

#### Laser Scanning and Machine Control Ready

All Leica Absolute Tracker AT960 6DoF systems can be equipped with the Leica T-Scan 5, a high-speed 3D laser scanner for most challenging applications within 60 m measurement volume (ø). Also, the Leica Absolute Tracker AT960 is ready for automated applications, delivering high-speed dynamic output for machine control and guidance. EICA ABSOLUTE TRACKF



### Leica Absolute Tracker Probing Solutions Compared

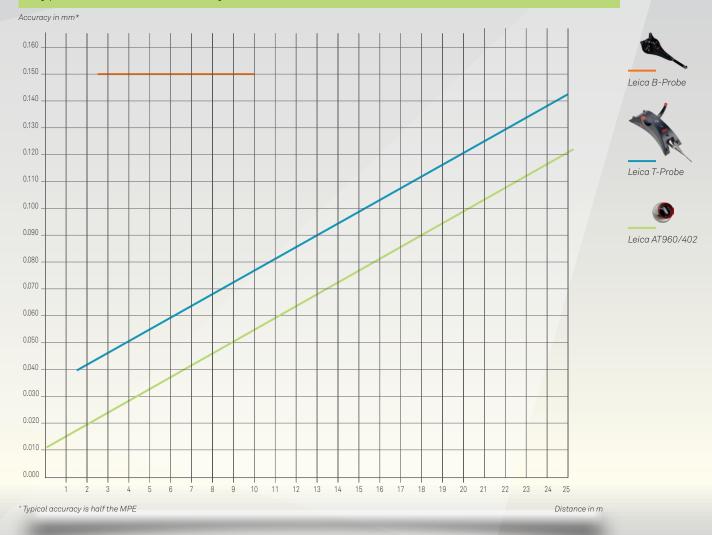
	Leica T-Probe	Leica B-Probe
Max. Probing Volume (ø)	60 m	20 m
Relocation Volume (ø)	160 m	320 m
Accuracy U <sub>xyz</sub>	0.035 mm*	0.2 mm
Cableless Operation	$\checkmark$	$\checkmark$
Typical Runtime on 1 Battery Charge	12 hours	>6 hours
Multiple Programmable Buttons	$\checkmark$	×
Instant Visibility Feedback	$\checkmark$	×
Automatic Stylus Recognition	$\checkmark$	x
Multiple Stylus Mounting Positions	$\checkmark$	×
Acoustic Feedback	$\checkmark$	×

The probing uncertainty "U<sub>yy</sub>" is defined as the deviation between a measured coordinate and the nominal coordinate of that point. All specifications are calculated according to the draft ISO10360-10 standard. \* Additional T-Probe uncertainty to be added according to ISO/IEC Guide 98-3:2008 to the existing Leica Absolute Tracker AT960 "U<sub>yy</sub>" uncertainty for a complete "U<sub>yy</sub>" uncertainty.

6



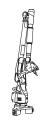
Typical Scale Bar Accuracy





PRECISION MEASURING

INSTRUMENTS



PORTABLE MEASURING ARMS





LASER TRACKERS & STATIONS

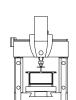
WHITE LIGHT SCANNERS



BRIDGE CMMS



MULTISENSOR & OPTICAL SYSTEMS

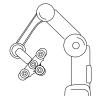


ULTRA HIGH ACCURACY CMMS

HORIZONTAL ARM CMMS



GANTRY CMMS



AUTOMATED APPLICATIONS



SOFTWARE SOLUTIONS



Hexagon Metrology offers a comprehensive range of products and services for all industrial metrology applications in sectors such as automotive, aerospace, energy and medical. We support our customers with actionable measurement information along the complete life cycle of a product – from development and design to production, assembly and final inspection.

With more than 20 production facilities and 70 Precision Centres for service and demonstrations, and a network of over 100 distribution partners on five continents, we empower our customers to fully control their manufacturing processes, enhancing the quality of products and increasing efficiency in manufacturing plants around the world. For more information, visit **www.hexagonmetrology.com.**  Hexagon is a leading global provider of information technologies that drive productivity and quality across industrial and geospatial applications. Hexagon's solutions integrate sensors, software, domain knowledge and customer workflows into intelligent information ecosystems that deliver actionable information. They are used in a broad range of vital industries.

Hexagon (Nasdaq Stockholm: HEXA B) has more than 15,000 employees in 46 countries and net sales of ap-proximately 2.6bn EUR. Learn more at **www.hexagon.com.** 



© 2015 Hexagon Metrology. Part of Hexagon

All rights reserved. Due to continuing product development, Hexagon Metrology reserves the right to change product specifications without prior notice.

Class 2 Laser Product in accordance with the IEC 60825-1, Second Edition (2007-03)