Leica Absolute Tracker ATS600

Key features

The ATS600 revolutionises big-scale measurement for large surfaces by bridging the gap between point-by-point measurement and advanced laser scanning.

Delivering three times the accuracy of leading terrestrial scanners, it integrates seamlessly into established metrology workflows, providing immediate on-site results without post-processing.

Fast

Direct scanning

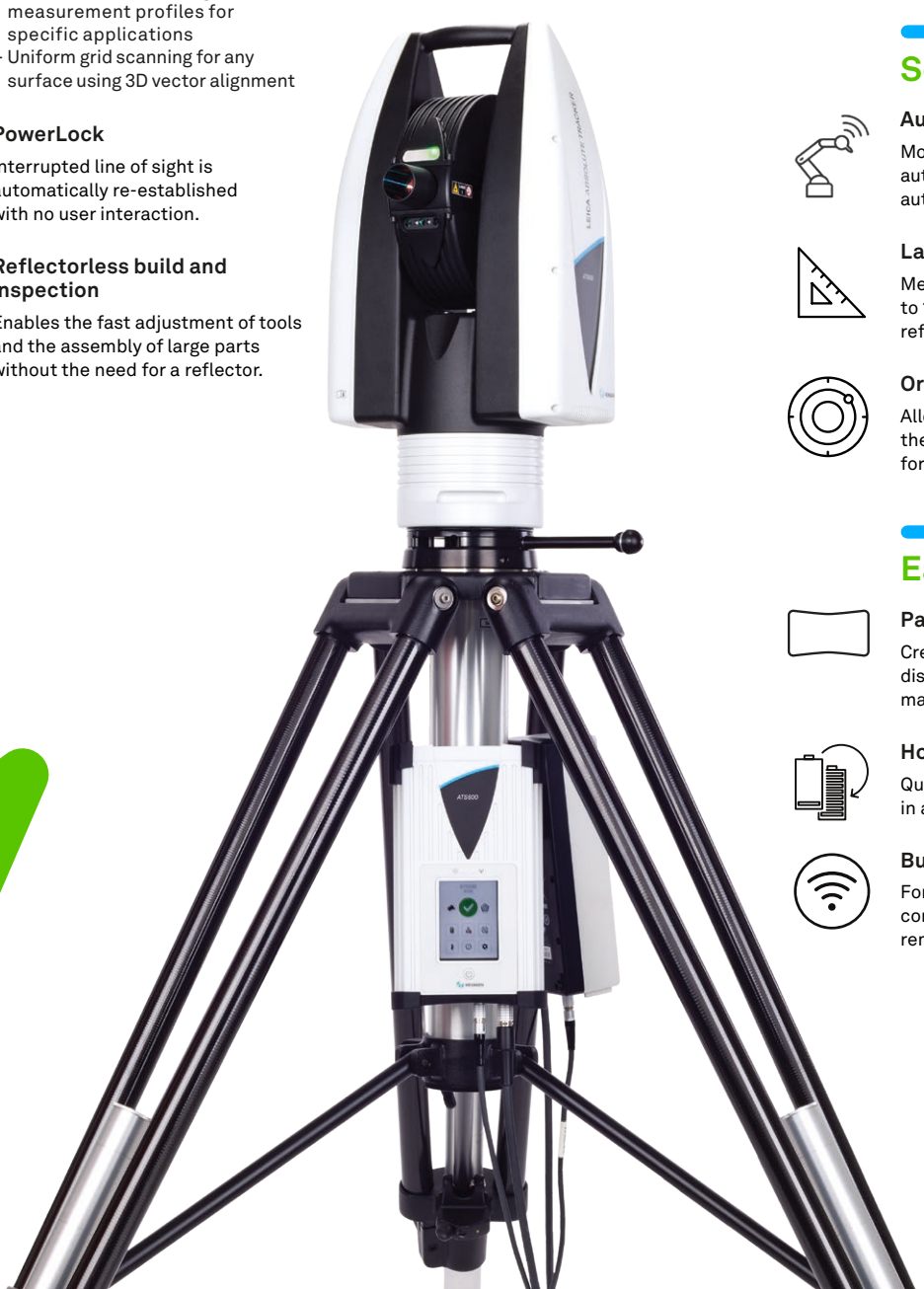
- 3D surface inspection without reflectors – simply select the area of interest and a point cloud is automatically generated
- Align the point cloud using reflector measurement for the highest accuracy
- Dedicated line and ring scan measurement profiles for specific applications
- Uniform grid scanning for any surface using 3D vector alignment

PowerLock

Interrupted line of sight is automatically re-established with no user interaction.

Reflectorless build and inspection

Enables the fast adjustment of tools and the assembly of large parts without the need for a reflector.



Integrated

Overview camera

High-resolution display with live view and multiple zoom levels, with no reduction in image quality.

ISO certification

System specified according to ISO 10360-10 in a calibration lab certified according to ISO 17025.

IP54 protection

IEC-certified sealed unit guarantees ingress protection against dust and other contaminants.

Scalable

Automation-ready

Mount the ATS600 on a mobile autonomous vehicle and for fully automated inspection.

Large volume

Measure within a volume up to 160 metres (120 metres reflectorless) in diameter.

Orient-to-gravity function

Allows for measurement with the Z-axis aligned to gravity – ideal for levelling and alignment tasks.

Easy

Panorama display

Create an automatic panorama display image to simplify scan area management.

Hot-swappable battery power

Quick and easy cable-free setup in almost any location.

Built-in Wi-Fi

For simple set up and communication with the PC and remote control operation.

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Key features for benchmarking

Does the laser tracker deliver the following benefits?

		ATS600	Other tracker
General	Can it measure with ultra-low range noise of less than 80 µm?	✓	
	Does it have an internal levelling sensor accurate to within just ±1 arcsec?	✓	
	Is it IP54-certified to ensure system protection in harsh environments and minimise downtime?	✓	
	Can it measure from up to 60 m away without reflector and up to 80 m with reflector?	✓	
	Can the tracker be used in non-conventional orientations (upside down or tilted)?	✓	
	Is it possible to get information such as connection status, environmental data and usage statistics and even get immediately notified if an event happens?	✓	
	Is the system compatible with standard metrology packages on the market?	✓	
	Does the instrument provide immediate results with no need for post-processing?	✓	
Portability	Can it operate on battery power for more than 6 hours?	✓	
	Can the batteries be hot-swapped, allowing for longer operation without switching off the instrument?	✓	
	Does it support Wi-Fi connectivity?	✓	
	Has the system gone through a drop test proving that it will remain fully functional if submitted to a hard shock such as may happen during transportation?	✓	
Direct scanning	Can it directly scan large objects by selecting the surface of interest and defining the point-to-point distance?	✓	
	Can it measure points located in high areas without the need for an operator using scaffolding and safety equipment?	✓	
	Can it scan areas by clicking on a CAD surface or selecting an area of interest with an integrated overview camera?	✓	
	Can the system directly scan the object, compare with CAD and immediately provide results in a single software package?	✓	
	Can the tracker combine high-accuracy reflector measurement for alignment and direct scanning capability?	✓	
	Can the system automatically detect the 3D plane of the scanning surface and automatically adjust the scanning profile to deliver a uniform grid scan across the measurement area?	✓	
	Can it be mounted on an automated mobile platform for cable-free automated shop-floor inspection?	✓	
Certification and service	Does it come with ISO 17025 certification to ensure the traceability of the calibration process?	✓	
	Is the product specified according to ISO 10360-10?	✓	
	Does it come with a 2-year factory warranty as standard?	✓	
	Does it have 10 years of guaranteed serviceability, allowing more time to plan for a replacement?	✓	
	Does the supplier have service centres spread all over the world to minimise shipment costs, avoid customs bureaucracy and provide top-quality service in a local language?	✓	

Since 1992 Hi-Tech Metrology has been a leading provider of high-precision measurement and metrology services with a reputation for accuracy, reliability, and innovation.

Today Hi-Tech Metrology consists of three integrated business units to help and support clients with all of their measurement needs - Products, Services and Projects. All these business units form part of a unique company, one that strives to provide the best possible outcomes to our existing and future customers.

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To contact us

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