

Leica Absolute Tracker ATS800

Key features

The ATS800 enhances productivity in large-scale manufacturing with fast, precise scanning from up to 40 metres away.

Combining direct scanning and reflector tracking in a portable, user-friendly design, it streamlines workflows, improves safety, and delivers reliable results for demanding applications.

Precise



High-accuracy scanning

Innovative TruePoint Interferometer combines the latest generation of coherent frequency modulated interferometer technology and Hexagon's patented TruePoint, delivering unmatched contactless accuracy and reflector tracking in one single device.



Selective scanning

Focus on specific areas with high-definition cameras or CAD data, optimising inspections and accelerating workflows.



Overview camera

High-resolution imaging with zoom ensures precise scan area definition for efficient and accurate inspections.



PowerLock on reflectors

Automatically locks onto reflectors after interruptions, reducing setup time and ensuring uninterrupted operations.



Orient-to-gravity function

Aligns measurements to gravity, ensuring precision for levelling and alignment tasks.



Efficient



AI-powered feature detection

Automatically detects and measures features, speeding up inspections and reducing rework costs.



Real-time remote monitoring

Integrates with Metrology Asset Manager for live performance tracking and Industry 4.0 readiness.



World-class support

Hexagon's local service centres keep downtime to a minimum with fast repairs and reliable assistance.

Scalable



Automation ready

Integrates with AMRs, reducing manual tasks and enabling scalable, efficient production workflows.



Large measurement volume

Measures volumes up to 80 metres in diameter, ideal for inspecting large assemblies and parts efficiently.



Durable construction

IP54-certified protection ensures long-lasting performance in harsh environments.

Portable



Compact and lightweight design

Small, portable design allows easy transport and on-site use without sacrificing accuracy.



Battery-powered operation

Hot-swappable batteries ensure uninterrupted operation in various locations.



Built-in wi-fi

Cable-free setup simplifies workflow integration and remote communication.

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Key features for benchmarking

Does the laser tracker deliver the following benefits?

	ATS800	Other tracker	
Scanning	Can the instrument measure and track reflectors?	✓	
	Does it have an internal levelling sensor accurate to within just ±1 arcsec?	✓	
	Does the System allows ±145° vertical coverage?	✓	
	Can it measure at 40m away from the instrument with and without a reflector?	✓	
	Can the system automatically find reference targets in the Field of View? For example reflectors? (PowerLock)	✓	
	Can it measure at close distance of <1m?	✓	
	Does the system have specialised scanning trajectories to measure features faster?	✓	
	Does the system have a high-definition 12MP overview camera to easily identify and define features?	✓	
Operation	Does the system's camera support automatic recognition of features when no CAD is available?	✓	
	Can it operate on battery power for more than 6 hours?	✓	
	Can the system be used in a temperature range of 0 to 40°C?	✓	
	Has the system gone through a drop tests proving that it will remain fully functional if submitted to a hard shock such as may happen during transportation?	✓	
	Does it have IP54 ingress protection rating to be used in rough environments directly on the shopfloor?	✓	
	Can the whole system be transported in 1 case?	✓	
	Can the system be carried by a single person? Is it safe according to HSE Guidelines? (Reference Weight limit for men 25kg, for women 16kg)	✓	
	Is the system interface deeply integrated into your preferred Metrology SW? And is that SW company actively supporting the interface?	✓	
Certification and service	Can it be mounted on an automated mobile platform for cable-free automated shop-floor inspection?	✓	
	Does it have an integrated WiFi Module?	✓	
	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?	✓	

Hexagon is a global leader in digital reality solutions, combining sensor, software and autonomous technologies. We are putting data to work to boost efficiency, productivity, quality and safety across industrial, manufacturing, infrastructure, public sector, and mobility applications.

Our technologies are shaping production and people-related ecosystems to become increasingly connected and autonomous – ensuring a scalable, sustainable future.

Hexagon's Manufacturing Intelligence division provides solutions that use data from design and engineering, production and metrology to make manufacturing smarter.

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