

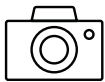
# Leica Absolute Tracker ATS800

## 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.

### Efficient



#### Overview camera

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



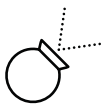
#### AI-powered feature detection

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



#### Selective scanning

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



#### PowerLock on reflectors

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



### Precise



#### High-accuracy scanning

The 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.



#### Orient-to-gravity function

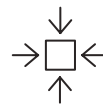
Aligns measurements to gravity, ensuring precision for levelling and alignment tasks.



#### ISO certification

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

### 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 WiFi

Cable-free setup simplifies workflow integration and remote communication.



#### Durable construction

IP54

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

### 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.



#### World-class support

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

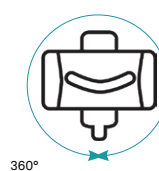
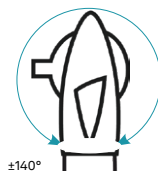
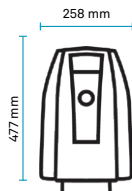
# Technical specifications

General information	Tracker size   weight	477 x 258 x 238 mm   14.2 kg
	Controller size   weight	249 x 148 x 59 mm   1.65 kg
	3D measurement range	0.6 to 40 m
	Scan rate	2000 Hz
	Laser class	Class 1
	Overview camera	12MP
Environmental	Operating temperature	0°C to +40°C
	Relative humidity	max. 95% non-condensing
	Operating elevation	-700 m to +5500 m
	Dust   water	IP54
Interface	Cable	Cat6
	Wireless	WLAN (IEEE 802.11n)
Power management	Battery type	Lithium-ion battery   swappable
	Typical battery runtime (single charge)	6 hours
	Mains	AC power supply
Accuracy	Angular performance $E_{\text{two-face,MPE}}^1$	$\pm 15 \mu\text{m} + 6 \mu\text{m/m}$
	Absolute Distance Meter eADM <sup>1</sup>	$\pm 10 \mu\text{m} + 4 \mu\text{m/m}$
	Length measurement $E_{\text{distance,MPE}}^1$	$\pm 21 \mu\text{m} + 8.5 \mu\text{m/m}$
	Absolute accuracy <sup>2</sup>	$\pm 21 \mu\text{m} + 8.5 \mu\text{m/m}$
	Range noise <sup>3</sup>	< 40 $\mu\text{m}$
	Inclination sensor	$\pm 1.0 \text{ arcsec}$
	Orient to gravity $U_z$	$\pm 15 \mu\text{m} + 8 \mu\text{m/m}$

<sup>1</sup> Accuracy specified as Maximum Permissible Error (MPE) for the test items defined in ISO 10360-10:2021 using Leica 1.5" Red Ring Reflectors (RRR) or MAC179 1.5" Reference Sphere respectively.

<sup>2</sup> Comparison between 1.5" RRR and MAC179 reference sphere at the same position.

<sup>3</sup> Standard deviation (1 $\sigma$ ) of a best-fit plane (steel plate), distance 1.5 to 30 m, standard measurement mode, target aligned



Hexagon is the global leader in measurement technologies. We provide the confidence that vital industries rely on to build, navigate, and innovate. From microns to Mars, our solutions ensure productivity, quality, safety, and sustainability in everything from manufacturing and construction to mining and autonomous systems.

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 24,800 employees in 50 countries and net sales of approximately 5.4bn EUR.

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