



Laser coordinate measurement systems



Laser coordinate measurement systems ALTAIR are designed for dynamic and static measurements to determine the geometric parameters of objects in mechanical engineering, aircraft and space industries, shipbuilding, automotive manufacturing, etc.

*Altair

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Laser tracker ALTAIR features a built-in laser interferometer and absolute distance measuring system, as well as two angular sensors for vertical and horizontal angles measurements. A built-in Auto-Lock system allows rapid SMR lock-on. High-speed servo drives of both rotation axes enable rapid SMR tracking, measuring its coordinates at a rate of 1000 points per second with high accuracy



Large measuring range

High accuracy

Dynamics and high speed of measurements

Autonomy

High level ingress protection

Service centre in Europe and Asia

Basic metrological and technical characteristics

Model		ALTAIR					
		330	360	380	630	660	680
Measuring range	Distance*	60 m	120 m	160 m	60 m	120 m	160 m
	Horizontal	0° ~ 360°					
	Vertical	−145° ~ +145°					
Volumetric accuracy		± (10 μm + 5 μm/m)					
IFM accuracy		± 0.5 μm/m					
Support 6D devices		—			+		
Auto-Lock field of view		12°					
Performance	Data output rate	1000 points/sec					
	Radial velocity	3 m/sec					
Protection level		IP54					
Head size		220x280x512 mm			220x256x480 mm		
Head weight		21.0 kg			16.0 kg		
Controller size		200x110x56 mm					
Controller weight		0.6 kg					
Environmental	Temperature	-10°C ~ +45°C					
	Air pressure	225 ~ 900 mm Hg					
	Relative humidity	10 ~ 95%, non-condensing					
Communication		LAN, Wi-Fi					
Power supply		230±10% VAC, external battery					

* The distance measuring range is understood as the diameter of the working area



ALTAIR laser tracker is equipped with a BK-2 wireless contact probe which allows to perform the measurements in hard-to-reach places. The BK-2 kit includes tips of various lengths and shapes

BK-2 wireless contact probe for hidden points	
Measuring range	
Distance*	30 m
Roll	±360°
Pitch	±45°
Yaw	±45°
Volumetric accuracy	± (30 μm + 5 μm /m)
Size	122x128x222 mm
Weight	0.62 kg
Stylus slots	2
Working autonomy duration	≥ 8 hours



6D six-axis device is designed to solve complex measuring tasks of the objects spatial position. This device allows enhances robotic precision by offering real-time calibration and position orientation of moving targets.

Measuring range	
Distance*	60 m
Roll	±360°
Pitch	−55° ~ +60°
Yaw	± 180°
Volumetric accuracy	± (30 μm + 5 μm /m)
Angular accuracy	± 0.005°
Size	105x98x168 mm
Weight	1.32 kg

* The distance measuring range is understood as the diameter of the working area