

Absolute Arm Compact

Key features

SpinKnob
ergonomic infinite-rotation handling grip, minimises operator fatigue, ensures thermal stability and maximises accuracy

Infinite rotation
on major axes

Absolute Encoders
exclusive to Absolute Arm, no referencing needed: power-on and measure

Advanced materials
high-end carbon-fibre construction ensures thermal stability

HomeRest
secures the arm at home-position, especially when moving it to a new location

Ergonomics
wrist design with intelligent button positioning allows total control during measurement

Robust feedback
instant visual, acoustic and haptic feedback ensures accurate and efficient usage in harsh environments

Automatic probe and sensor recognition
change touch probes or mount laser sensors on the fly without any recalibration

Unique counterweight balancing
minimises torque in the arm's base, allowing effortless movement, greater accuracy and various mounting options

Control packs (WiFi and battery)
boost functionality with full probing performance over WiFi or single-cable connection (USB or Ethernet) and battery power (hot-swappable dual battery pack)

Embedded LED pictograms
for visual feedback of arm's functions and status

Mounting options
integrated base allows use when placed on any flat surface, as well as direct bolting using magnetic anchors and quick-release magnets



Measurement volume
1.2 m



Volume extension
Leap Frog Kit or GridLOK system allows large-volume measurement



2 accuracy levels
83 and 85 series



24-month warranty
on all Absolute Arm systems



ISO 10360-12
certification as standard, with optional ISO 10360-2 certification available



Verification artefacts
supplied with each arm, allow users to verify system performance according to certification



Service centres
an extensive network of Hexagon service centres means quality service and support is always nearby



SMART
proprietary software featuring Self-Monitoring Analysis and Reporting Technology (SMART) that manages the arm in the field by monitoring diagnostics including shocks and temperature



Quick Measure
built-in utility program allows basic measurements without additional software



Built-in Bluetooth®
allows connection to several accessories (headphones, temperature sensors, etc.)



Optional HP-L-8.9 Laser Scanner
turns the Absolute Arm Compact into a scanning solution

Criteria for choosing Absolute Arm Compact	Hexagon	Other
Availability of various accuracy levels?	Yes 2 levels	
Availability of extended-volume measurement options (i.e. up to 5-10 times the system's standard volumetric range)?	Yes	
Probing accuracy specifications according to ISO 10360-12 (certification included)?	Yes (standard)	
Probing accuracy specifications according to ISO 10360-2 (certification included)?	Yes (optional)	
Compliance with impact, shock vibration, emissions and environmental norms (CE, IEC, etc.)?	Yes (full list in manual)	
Does the system include artefacts and software so you can verify its accuracy performance compared to the specifications (software scripts/guides)?	Yes	
Does the system include software for diagnostics and performance monitoring?	Yes	
Is the system thermally stable (i.e. high-end carbon-fibre construction)?	Yes	
Can the system measure immediately after power-on (no warm-up time)?	Yes	
Does the system feature Absolute Encoders (with no need to be reset or 'zeroed' before measurement)?	Yes	
Does the system's counterbalance mechanism allow the arm to be used comfortably and with a single hand (with an ergonomically designed wrist)?	Yes	
Does the arm allow infinite rotation on major axes?	Yes	
Does the system provide the operator with suitable feedback in any shop-floor environment (audio, visual and haptic warnings)?	Yes	
Can the operator use the arm as a mouse (for remote computer control)?	Yes	
Is wireless measurement available?	Yes	
Is battery operation available (with hot-swappable batteries)?	Yes	
Does the system feature built-in Bluetooth® that allows connection to several accessories (headphones, temperature sensors, etc.)?	Yes	
Can the system accept the mounting of an external laser scanner?	Yes	
Can probes or scanners be mounted and used without stopping to calibrate or select the probe in the software?	Yes	
Can you easily swap probes without extra tools?	Yes	
Are other probe types (extended or 'hooked' probes) available, in case you need to add more measurement capabilities later?	Yes	
Can the system stand on its own weight with no need for clamping or tripod-mount?	Yes	
Is there a variety of mounting options (magnetic, tripod, vacuum base)?	Yes	
Is a dust cover for the arm included?	Yes	
Does the system come with a single carrying case with wheels for mobility?	Yes	
Is a 24-month warranty offered as standard with all systems?	Yes	

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

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