



Tube and wire inspection solutions

Advanced measurement and process control for the tube and wire production industry





Tube and wire measurement

Any shape, any size, anywhere

Hexagon's comprehensive range of tube and wire measurement systems delivers solutions tailored to a variety of applications in the world of tube production. They combine high-precision hardware engineering with innovative and intuitive software platforms to fully meet the demands of inspection, manufacturing, gauging and reverse engineering processes, whether manual or automated. The result is a product portfolio tailored to support cost-effective production and meet the challenges of every application in the tube and wire manufacturing sector.

Hardware

TubeInspect P8.2 | P8.2 HRC P16.2 | P16.2 HRC

High-accuracy high-speed camera-based tube measurement in a turnkey cell.

3D Hairpin Inspect P8.2 HRC

A dedicated solution for the high-speed measurement of electric motor hairpins within the production environment.

Absolute Arm with laser scanning

Advanced manual measurement of complete tube geometries with a laser scanner.

Absolute Tracker with laser scanning

Fast measurement of large tube geometries with a handheld laser scanner.

TubeInspect automation P8.2 HRC | P16.2 HRC

Innovative measurement cell solution for fully automated 24/7 tube inspection.

Absolute Arm with probe

Well-established manual tube measurement technique with an infrared probe.

Absolute Tracker with handheld probe

Point-by-point large-scale tube measurement with a wireless handheld probe.



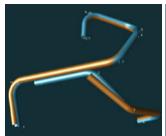
BendingStudio XT

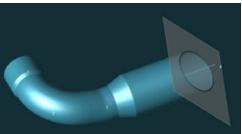
A single hub for complete tube and wire inspection

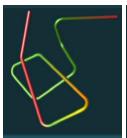
The BendingStudio XT software platform is a complete end-to-end solution for tube and wire inspection and production control. The software links all data and processes related to the production of bent parts, from design and process planning to manufacturing and quality control. BendingStudio XT is the only tool to meet and combine these requirements with an emphasis on metrological processes.

Evaluate parts quickly with clear actual-nominal value comparison. Implement multiple inspection plans with individual measurement criteria for each part. Enjoy comparable result presentation no matter the origin of the data. Benefit from a unique calculation method for the correction of complex bent parts such as brakelines with end formings or parts with clamping jaws. Make use of overlength compensation, with smart, customisable and part-specific calculation of correction data.

BendingStudio XT is the complete package for complex analysis and management of tube and wire production.





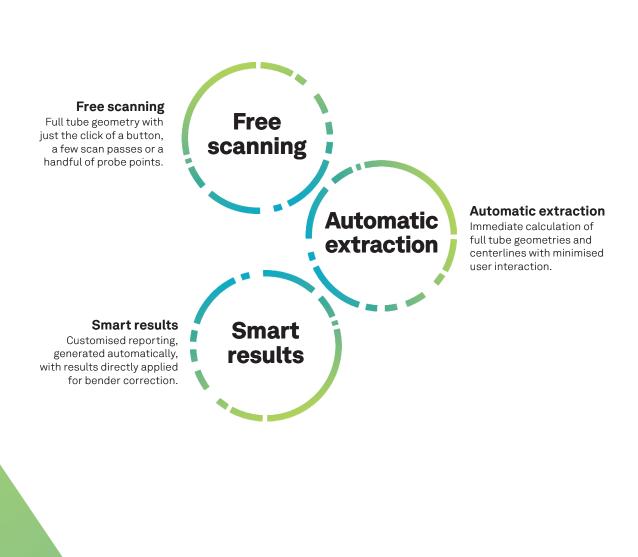




BendXtract technology

Meet the power behind the tube inspection performance of BendingStudio XT

At the centre of the high-performance inspection capability of BendingStudio XT is BendXtract technology – the set of algorithms that allows BendingStudio XT to quickly collect measurement data, interpret that data and turn it into actionable customised reporting.



BendingStudio XT

Managing bending production and quality control, end-to-end

- Optimised connectivity and data handling across production, quality control and design offices
- One-click functionality for measurement results, data import and export
- Optimise series inspection of parts and improve process reliability with measurement jobs
- Simple and clearly structured handling concept, including interfaces for statistical process control software such as gs-STAT
- Measurement of a wide range of tube types, including branched, freeform or even rectangle cross-section tubes
- Automatic correction of self-weight deformation effects in thin or elastic workpieces

- Smart calculation of correction data for bent parts, for example with pre-cut raw material
- Open tube bender interface for communication of production correction data in real time
- Position and orientation measurement of end holders, fittings and fixtures
- Modern and flexible user interface in multiple languages, adaptable for shop-floor use or for data preparation in office environments
- Powerful reporting with on-the-fly preview including configurable 3D views and extensive item library for report template configuration
- Completely automated measuring and result documentation in combination with TubeInspect systems











TubeInspect

A turnkey solution for instant high-end tube measurement

TubeInspect is the leading solution for high-speed tube measurement. Based on a multiple-camera optical scanning system built into a turnkey single-piece cell format, TubeInspect represents the height of what's possible with optical scanning in the tube and wire production industry.

Powered by the dedicated BendingStudio XT software platform, TubeInspect is available in both an industrial-sized TubeInspect P16.2 and a smaller TubeInspect P8.2 variant. Both models are also available in HRC high-resolution camera versions delivering improved detail and feature analysis. High-end models also offer the possibility of integration within a larger robotic production cell, making the tube and wire quality process fully Industry 4.0 compatible.

The system's integrated long-life and low-maintenance LED illumination technology guarantees smooth illumination of the measuring field, automatically controlled through BendingStudio XT. Imaging is fast and detailed with GigE camera technology that ensures synchronic capture of the measuring object within milliseconds. And all this is built on an innovative three-dimensional glass reference surface that is highly precise and offers the reliable stability demanded for shop-floor use.









TUBEINSPECT

TubeInspect

A turnkey solution for instant high-end tube measurement

Designed for production

- Manual and automated functionality
- Robust construction suitable for shop-floor placement
- Simple operation requires only ten minutes training for defined parts

Quick investment returns

- · More production time for benders
- · Fast tube production changes
- · Less material wastage
- Replace all bulky physical gauges

Direct link to bending machines

- Calculation of values for bender correction
- Send data directly to bending machine
- Compatible with most worldwide bender makers
- Minimise number of correction loops
 correct all bends in one step

Countless tube measurement options

- Rotary draw bending parts (LRA)
- Bend-in-bend geometries
- Freeform bent parts

Albert Biebl

- · Formed ends and fittings
- Flexible and long brake lines
- Branched parts
- Rectangle-section tubes

Highest measurement accuracy • Glass references for high accuracy • Automatic self-controlling during operation · No user interaction during measurement • User independent measurement results Low lifetime costs Power saving LEDs • Standard power supply 100-240V · No moving parts within the measurement system • Environmentally friendly product Other benefits · Easy reverse engineering of existing tubes • Extensive possibilities for transfer of existing tube databases to HEXAGON BendingStudio • CAD adaptors for complex ends and brackets **Four TubeInspect versions Automation-ready** • Two sizes available: P8.2 and P16.2 • Each available as standard or Fully automated tube production high-resolution camera (HRC) • Automatic measurement within configuration seconds · Range of options meets variety of • Correction loop for automatic measurement needs re-adjustment of bending programs • Connectivity to handling system

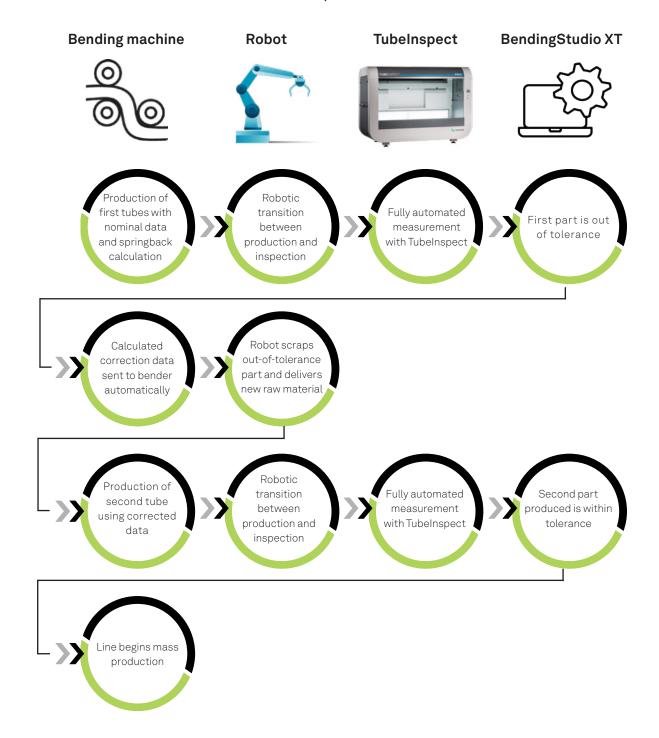


TubeInspect automation

Fully automated tube production-inspection-correction loop

TubeInspect is the leading solution for automating high-speed tube measurement. BendingStudio XT provides a communication protocol for integration in fully automated environments, and the high-speed, high-resolution image capture of the TubeInspect hardware allows it to be placed effectively within any automated production line.

End-to-end robotic tube production





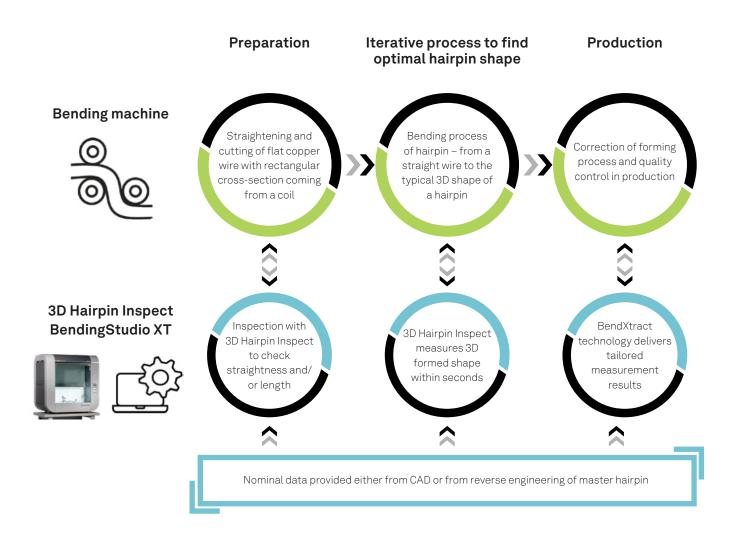
3D Hairpin Inspect

Tailor-made solution for EV hairpin manufacturing

3D Hairpin Inspect is a dedicated solution for the high-speed measurement of electric motor hairpins within the production environment. The system supports the full process, including all steps to setup a hairpin production machine.

Based on a TubeInspect P8.2 HRC and powered by Bendingstudio XT with Hairpin Skin, 3D Hairpin Inspect offers a huge range of functions specifically for hairpin production.

Setup of hairpin production





Absolute Arm

Tube measurement on the move

Combining the established laser scanning or infrared and touch probing technology of the Absolute Arm range with the leading tube and wire analysis capabilities of BendingStudio XT, the Absolute Arm is the perfect portable complement to the TubeInspect series.

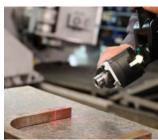
When working from the same innovative software platform as TubeInspect, the Absolute Arm can deliver high-speed manual collection of high-accuracy data of any tube or wire. Leveraging the leading measurement technology of Hexagon's flagship portable measuring arm compatible laser scanners, full non-contact measurement and geometry definition is quickly achievable with no need for special clamping or alignment procedures, even on shiny surfaces. The system also benefits from a strengthened arm structure and infrared non-contact probe technology custom-designed for tube measurement.

Flexible or rigid, freeform or angular, at the bending machine or in the centre of the production process – the Absolute Arm is a highly adaptable solution for high-quality tube and wire measurement.









Absolute Arm laser scanning

Unrivalled portable tube and wire analysis through laser scanning

- Fully functional high-end portable measuring arm with laser scanner has the versatility for tube analysis as well as other measuring tasks
- Collect accurate tube and wire geometry data without scanning the entire tube surface or using complex fixturing
- Measure flexible, malleable tubes of any length and of diameter up to 300 millimetres
- Accurate scanning on tubes of a wide variety of materials, colours and surfaces
- Position and orientation measurement of end holders, fittings and fixtures through scanner point cloud analysis with CAD-adaptors

- Highly portable system suitable for tube and wire measurement in any place needed
- Repeatable, user-independent measurement results
- High-definition scanning delivers incredibly fast determination of full tube and wire geometries
- Easy measurement of parts in hard to reach areas
- Full-speed scanning over WiFi and battery power for total portability
- Complete range of accessories includes additional probes, tube clamps, measurement tables and raisers to suit the working environment



Laser scanner hardware

Absolute Scanner AS1

The Absolute Scanner AS1 is the flagship 3D scanning sensor for Absolute Arm 7-Axis systems. Using cutting-edge blue-laser technology and advanced programming, it combines 'always-on' maximum performance with simple usability to deliver high-productivity non-contact 3D measurement.

RS5 Laser Scanner

The RS5 Laser Scanner is a removable 3D scanner designed for use with the Absolute Arm 7-Axis. It delivers high-speed 3D scanning for surfaces and features on a wide range of finishes and materials at a lower cost than a flagship scanner.







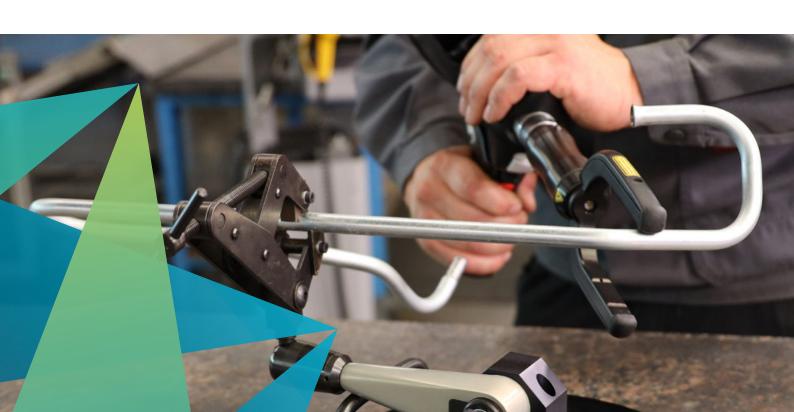


Absolute Arm probing

Complete portable tube analysis through infrared and touch probing

- Infrared non-contact tube probes and touch probes enable basic inspection of almost any tube geometry or material
- Hardware ready for complete GD&T functionality when upgraded with a dedicated metrology software package such as Inspire or PC-DMIS
- Automatic probe recognition and repeatable mounting allows probes to be swapped without recalibration
- Tube probing functionality compatible with every standard Absolute Arm model, as well as with dedicated tube models available in 2.5- or 3-metre measurement volumes

- Absolute Arm tube models have a stronger counterbalance for improved ergonomics, faster measurement and reduced operator fatigue
- Easy-to-use arm requires no warm-up or encoder referencing – simply switch on and measure
- Full WiFi and hot-swappable battery-powered functionality for increased portability
- Complete range of accessories includes additional probes, tube clamps, measurement tables and raisers to suit the working environment



Probing hardware

Tube probes

Dedicated tube inspection is provided by a range of infrared non-contact tube probes that can perform fast diameter measurements along key parts of the tube in order to deliver a full picture of the tube geometry. Six sizes of tube probes are available for tube diameters from 4 to 130 millimetres. They are compatible with measurement of almost any tube material, including malleable surfaces.

Touch probes

The touch probe functionality that comes as standard with every Absolute Arm model can also be applied to tube measurement. It allows for measurement of tubes with a greater diameter than is possible with a tube probe, as well as inspection of tube end-forms that cannot be captured by a tube probe, such as bevel-cut ends or ends with expansions.













Absolute Tracker

Large-scale tube measurement

With BendingStudio XT's support for laser tracker-based inspection measurement processes, Hexagon makes it easier to inspect the quality of large pipework with handheld scanning and optimised software workflows. The large-volume performance of laser tracker inspection means the validation and correction of extremely large tubes and wires through BendingStudio will now be as quick and easy as measuring a standard tube.

The system requires the use of the Leica Absolute Tracker AT960, with a 6 degrees of freedom (DoF) measuring volume radius of up to 30 metres, as well as the use of a 6DoF handheld probing or scanning device, such as the Absolute Scanner AS1, Absolute Scanner AS1-XL or the Leica T-Probe. This combination enables the piping industry to take a fully traceable validation process into new areas of production that were previously out of reach. It's now possible to accommodate large-scale projects without compromising on the quality expectations that have been established by using BendingStudio XT on a smaller scale.

The Absolute Tracker range is renowned for its high accuracy and fast data collection capabilities, especially when combined with the laser scanning performance of the Absolute Scanner AS1. By integrating Absolute Tracker technology with BendingStudio, piping industry users now have access to a comprehensive software platform that offers advanced measurement analysis, reporting and process control on a larger scale than ever before.









Absolute Tracker large tube inspection

Measurement of large pipes through laser scanning or touch probing

- Fully functional high-end laser tracker with handheld laser scanner has the versatility for tube analysis as well as other measuring task
- Ideal for large-tube inspection thanks to single cable operation and up to 30-metre measurement range for both scanning and probing
- Collect accurate tube and wire geometry data without needing to scan the entire surface of a large and hard to reach tube
- Measure tubes of unlimited length and with a diameter up to 2.5 metres
- Position and orientation measurement of end holders, fittings and fixtures through scanner point cloud analysis with CAD-adaptors

- Accurate scanning on tubes of a wide variety of materials, colours and surface finishes
- Highly portable system minimises need to transport large tubes
- Repeatable, user-independent measurement results
- High-definition scanning delivers incredibly fast determination of full tube geometries
- Full-speed scanning over WiFi and battery power for total portability
- Complete range of accessories includes tracker stands, tripods and mounts to suit the working environment



Laser scanner hardware

Absolute Scanner AS1

The Absolute Scanner AS1 is the flagship 3D scanning sensor for Leica Absolute Tracker AT960 systems. Cutting-edge blue-laser technology with SHINE algorithms are combined in a modular system that can be mounted on the Absolute Positioner AP21 to create a mobile handheld scanning device with a range of up to 30 metres – ideal for the fast inspection of oversized tubes.

Absolute Scanner AS1-XL

SHINE technology is also the foundation of the Absolute Scanner AS1-XL. Combined with an ultra-wide scan line, extended stand-off and a measurement speed ten times faster than the previous generation of XL 3D laser scanner from Hexagon, the AS1-XL delivers rich, clean data from large measurement surfaces, from glossy black plastic to moulded carbon-fibre.

Touch probe hardware

Leica T-Probe

Standard laser tracker touch probe functionality can be applied to large-scale tube measurement with the Leica T-Probe, a completely wireless handheld 6DoF probe. With a 30-metre measurement range, the T-Probe can be used to inspect large tubes in the same way a portable measuring arm touch probe is used for smaller ones.









Industries and applications

Tube inspection for every situation

Our range of tube inspection systems has been designed to offer the right solution to every tube and wire manufacturing challenge across the full range of industrial sectors where tube production is needed.



Automotive Aerospace eMobility





Medical HVAC Yellow goods













Oil and gas
Ship building
Architecture





Prototyping
In production
Final assembly





Exhaust tubes Brake tubes Hairpins









Large tubes
Extra-long freeform
tubes



Bus bars
AC systems
Seating















Railings
Hydraulic pipes
Rectangle-section
frames



Specifications

BendingStudio XT packages

		Standard	Premium	Automation	Hairpin skin
Measurement systems	TubeInspect P8.2, P16.2 TubeInspect P8.2 HRC and/or P16.2 HRC Absolute Arm with TubeProbe Absolute Arm with AS1/RS5 Absolute Tracker with T-Probe Absolute Tracker with AS1 or AS1-XL		i		
Basic functions	Part database; user management; settings for display levels; measurement of tubes and wires, parts with rotationally symmetric formed ends; calculation of bending data (LRA/PBR, XYZ); nominal-to-actual comparison; tolerance envelope inspection (optical gauge); functional dimensions; reverse engineering; measurement jobs; flexible configurable measurement reports	•	•	•	•
Deflection compensation	Deflection correction for elastic tubes caused by gravity (e.g. long thin tubes or rubber tubes); material data base; not applicable for freeform tubes	•	-	-	
Branch	Measurement of branched tube geometries: allows testing of both individual tubes and assembled part; function requires at least one bend for each individual tube; only applicable for cylindrical cross sections	0	-	•	
CAD-WIZARD	IMPORT and EXPORT of IGES and STEP files: import by automatic or interactive selection of straight and bent segments of tube components, calculation of bending elements (XYZ/LRA) to prepare a bending program, export of tube geometry in IGES and STEP format	0	-	•	-
Bevelcut	Functionalities for measurement of parts with bevel cut ends		-	•	
CAD-adaptors	Measurement function to determine position and direction of features such as mounted holders or attachments; evaluation is done by analysing image or scan data and comparing with reference generated from CAD data		O ¹⁾	•	
Diameter changes	Measure positions of diameter changes along the tube		2)	•	
Profile	Measurement of classic and freeform bent parts with rectangular and oval cross-sections; includes calculation of bending data		O ²⁾		
Bender interface STANDARD	Calculation of bending correction data; virtual gauge simulation tool; open bender interface Note: uploading of correction data must be enabled on the bender	-		•	
Bender interface FREEFORM	Calculation of bending correction data including: bending radii; virtual gauge simulation tool; open bender interface Note: uploading of correction data must be enabled on the bender		-		
Offline licence	License for offline data processing without measuring system for one local seat	0	0	0	0
Floating licence	Network license for offline data processing without measuring system. Seats extendable	0	0	0	0
Database server	Simplified BendingStudio XT licence for the administration of the BendingStudio XT parts database on a separate server/computer	0	0	0	0

All BendingStudio XT packages include a 12-month SMA

 $[\]blacksquare$ included \square not included \bigcirc option

¹⁾ Function only available when using Absolute Arm with AS1/ RS5 scanner, Absolute Tracker with AS1/ AS1-XL or TubeInspect HRC models.

²⁾ Function only available when using Absolute Arm with scanner, Absolute Tracker with scanner or Tubelnspect models.

File formats and bending machine compatibility

Data import formats

G-Tube (GTT), TubeShaper (TSP), DOCS (DS), Vector (PRT), CSV, FIF, SV, VDA, XML, \$\$\$; other ASC II formats individually configurable; possible to import multiple files in one batch

Data export formats

CSV, FIF, SV and other ASC II formats individually configurable; DFQ (qs-STAT)

Bending machine brands supported

AddEaton, AIM, Amob, BLM, Comco, Chiyoda, Crippa, CSM, Dengler, Dynobend, GSIE, Herber, Horn, King Mazon, Keins, Keiyo Bend, Lang, OMCG, Pines, Nissin, Numalliance, Schwarze-Robitec, Soco, Transfluid, Unison, UTE, Wafios, YLM and others

NOTE: individual bending machine must be enabled to load up correction file



Specifications

Solution specifications





	P8.2	P8.2 HRC	P16.2	P16.2 HRC			
Measurement technology		High-resolution camera array					
Measurable tube diameter	2-125 mm	0.8-125 mm	3-200 mm	1.5-200 mm			
Measurable diagonal for rectangular tubes	8-125 mm	2-125 mm	12-200 mm	8-200 mm			
Measuring volume	1000 x 580 x 400 mm 2600 x 1250 x 700 mm						
Max. tube length	Unlimited (with repositioning)						
Bending angle		1-3-	40°				
Min. push between two bends		Bend-in-bend and	freeform possible				
Measurement accuracy (tube sheath deviation)	0.035 1	mm (1ơ)	0.085 r	mm (1ơ)			
CAD-adaptors	no	yes	no yes				
Tubes with rectangular cross section	yes						
Automation compatibility	no	yes	no	yes			

	3D Hairpin Inspect with P8.2 HRC
Measurement technology	High-resolution camera array
Measurable tube diameter	0.8-125 mm
Measurable diagonal for rectangular cross sections	2-125 mm
Setup of new hairpin geometry	15 minutes *
Reverse engineering of existing hairpin	5 minutes *
Serial measurement after pacement	10 seconds *
Software	BendingStudio XT Premium incl. PROFILE and dedicated hairpin application skin

^{*} Time achieved on sample hairpin at Hexagon testing centre; individual time requirements might deviate from values shown

Solution specifications









	AS1 for Absolute Arm	RS5	Tube	Touch	
Measurement technology	Blue laser scanner	Red laser scanner	Infrared tube probe	Touch probe	
Referencing technology		Portable me	easuring arm		
Measurable tube diameter	3-30	0 mm	4-130 mm	> 50 mm	
Measurable diagonal for rectangular tubes	6-300 mm 10-300 mm		n/a	n/a	
Measuring volume	2-4.5 m (diameter	1.2-4.5 m diameter		
Max. tube length		Unlimited (with	repositioning)		
Bending angle	1-340°				
Min. push between two bends	Bend-in-bend	and freeform	Bend-in-bend v freeform n	vith limitations; ot possible	
Measurement accuracy (tube sheath deviation)	0.05 mm (1ơ)		0.1 m	m (1σ)	
CAD-adaptors	yes no		no	no	
Tubes with rectangular cross section	уе	es	n	0	
Automation compatibility		n	0		









	AS1 for Laser tracker	AS1-XL for Laser tracker	T-Probe	
Measurement technology	Blue lase	r scanner	Handheld touch probe	
Referencing technology		Laser tracker		
Measurable tube diameter		0.5 - 2.50 m		
Measurable diagonal for rectangular tubes	6-300 mm	n/a	n/a	
Measuring volume	60 m diameter			
Max. tube length	Unli	mited (with reposition	ning)	
Bending angle		1-340°		
Min. straight between bends	Bend-in-bend w	vith limitations; freefo	rm not possible	
Measurement accuracy (tube sheath deviation)	0.05 mm (1 ₀)			
CAD-adaptors	no			
Rectangle-section tube measurement	no			
Automation compatibility	no			

Specifications

Hardware specifications





	P8.2	P8.2 HRC	P16.2	P16.2 HRC	
Measurement speed		>3 s/measurement			
Camera array		n digital cameras technology	16 high-resolution with GigE t		
Resolution	3 MP	3 MP 12 MP		12 MP	
Reference field	Three-dimensional glass reference surface				
System dimensions (W x D x H)	1140 mm x 746	mm x 1140 mm	2980 mm x 1640	mm x 2300 mm	
Weight	240) kg	1200) kg	
Power requirement	100-240 V 50-60 Hz AC 400 VA		100-240 V 50-60 Hz AC 1300 VA		
Working temperature	5-40°C				
Relative humidity	10-90% not condensing				
Marks of conformity		С	E		

Absolute Arm Tube Probe Model sizes

Tube probe size 1	Tube probe size 2	Tube probe size 3	Tube probe size 4	Tube probe size 5	Tube probe size 6
Tube diameter					
4-13 mm	10-20 mm	16-40 mm	30-65 mm	50-85 mm	70-130 mm

Absolute Arm Tube Model touch probe accuracy and size specifications

Model	E _{UNI} ²	P _{SIZE} ³	L _{DIA} 4	P _{FORM} ⁵	Weight ⁶	Max. reach
8325T	0.058 mm	0.025 mm	0.066 mm	0.048 mm	8.1 kg	2.73 m
8330T	0.083 mm	0.036 mm	0.089 mm	0.068 mm	8.4 kg	3.23 m

Hardware specifications







	AS1	RS5	AS1-XL
Accuracy	0.013 mm ¹	0.028 mm (2ơ)	0.134 mm ¹
Point acquisition rate	up to 1.2 million points/s	752 000 pts/s	1.2 million points/s
Points per frame	max. 4000	max. 7520	max. 4000
Frame rate	max. 300 Hz	max. 100 Hz	max. 300 Hz
Line width (mid)	150 mm	115 mm	600 mm
Standoff	165 ± 50 mm	165 ± 50 mm	700 ± 300 mm
Minimum point spacing	0.027 mm (near range)	0.011 mm	0.08 mm (near range)
System scanning certification	yes	yes	yes
Laser class	2	2M	2
Operating temperature	0-40°C	5-40°C	0-40°C
Weight	0.43 kg	0.4 kg	0.46 kg

Absolute Tracker with Leica T-Probe accuracy and specifications

Model	P _{SIZE} ⁷	Dimensions	Weight	Battery type	Battery runtime
T-Probe	0.050 mm	310 x 129 x 70 mm	0.65 kg	1 x Lithium-ion	> 5 hours

¹ Accuracy $P_{\text{Form.Sph.1x25:ODS, MPE}};$ based on a part of the ISO-10360 standard

 $^2\, {\rm E}_{\rm UNI}$ Maximum permissible longitudinal error of measurement – according to ISO 10360-12:2016

³ P_{SIZE} Maximum permissible probe deviation, size – according to ISO 10360-12:201 $\,$ L SIZE

4 L DIA

5 P FORM
6 Weight Maximum permissible probe deviation, position – according to ISO 10360-12:2016 Maximum permissible probe deviation, shape – according to ISO 10360-12:2016

Weight without probe

According to ISO 10360-10 – measured at 2 m

World-class products to rely on

Drawing on decades of research and development experience, technology from Hexagon's Manufacturing Intelligence division is built on a long history of outperforming technological innovation. Deriving quality from experience to drive productivity is what keeps Hexagon in front and able to deliver first-class solutions for industries around the world.

Along with the assurance of ten years of serviceability, owners of tube and wire solutions from Hexagon benefit from a 24-month factory warranty as standard – our guarantee that our technology will always meet the needs of our users.

World-class support delivered locally

The international presence of Hexagon guarantees comprehensive aftersales support and services across the globe. With the largest dedicated service team of any metrology equipment manufacturer and an emphasis on locally delivered solutions, Hexagon is unmatched from service, repair, certification and calibration through operator training and software maintenance and upgrades.



World-class service made simple



Owners of tube and wire solutions from Hexagon have the opportunity to invest in a Customer Care Package – a standardised after-sale service package designed to ensure equipment remains in top condition and can be relied upon for accurate measurement results.

- Maintenance and warranty plans that ensure top equipment availability
- Trouble-free usage and minimal downtime
- Preferred hotline access at no additional cost
- Access to professional advice whenever it's needed

Customer Care Packages include a selection of the following benefits, depending on the tier chosen.

- Planned annual service
- Hardware support
- Annual maintenance and recertification
- Remote assistance
- Repair parts and labour
- Customised local benefits
- Software maintenance

	Platinum	Gold	Silver	Bronze
Planned annual service	✓	✓	✓	✓
Customer hardware support	✓	✓	✓	
Software support and software updates	✓	✓	✓	
Annual maintenance and recertification	✓	✓		
Remote connected assistance	✓	✓		
Repair parts and labour	✓			
Customised local benefits	✓	✓	✓	✓

For complete details of the benefits of each level of Customer Care Package, please contact a local Hexagon representative.



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.

Learn more about Hexagon (Nasdaq Stockholm: HEXA B) at hexagon.com and follow us @HexagonAB.

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