

TubeInspect

A turnkey solution for instant high-end tube measurement

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

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

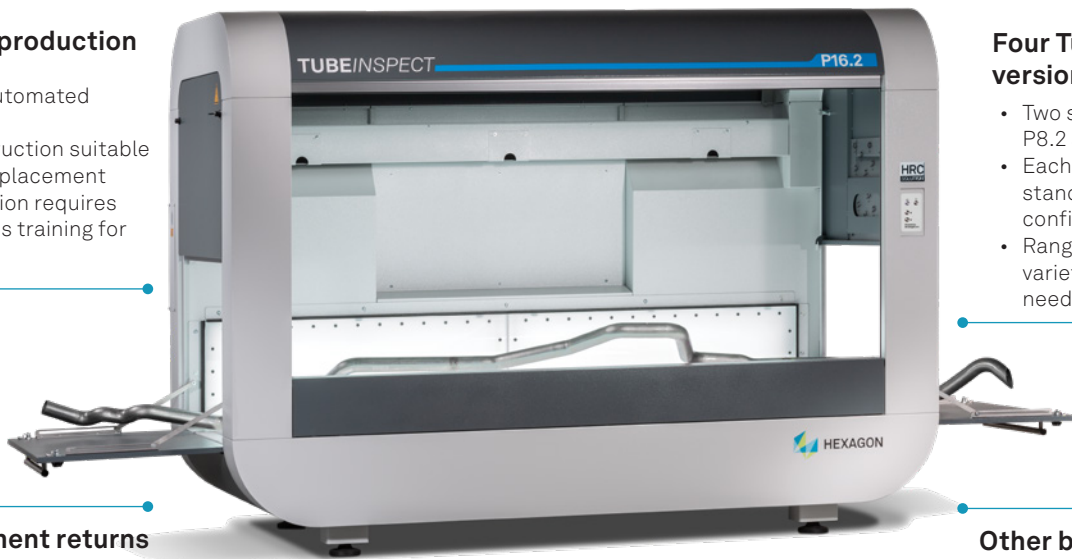
- Power saving LEDs
- Standard power supply 100-240V
- No moving parts within the measurement system
- Environmentally friendly product

Designed for production

- Manual and automated functionality
- Robust construction suitable for shop floor placement
- Simple operation requires only 10 minutes training for defined part

Four TubeInspect versions

- Two sizes available, P8.2 and P16.2
- Each available as standard or high-resolution configuration
- Range of options meets variety of measurement needs



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

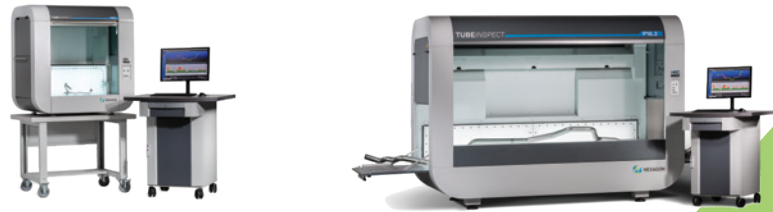
- Rotary draw bending parts (LRA)
- Bend-in-bend geometries
- Freeform bent parts
- Formed ends and fittings
- Flexible and long brake lines
- Branched parts
- Rectangular cross-section tubes

Other benefits

- Easy reverse engineering of existing tubes
- Extensive possibilities for transfer of existing tube databases to BendingStudio XT
- CAD adaptors for complex ends and brackets

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Specifications



Solutions 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	1-340°			
Min. straight between bends	Bend-in-bend and freeform possible			
Measurement accuracy (tube sheath deviation)	0.035 mm (1σ)		0.085 mm (1σ)	
CAD-adaptors	no	yes	no	yes
Rectangle-section tube measurement	yes			
Automation compatibility	no	yes	no	yes
Measurement speed	> 3 sec/measurement			
Camera array	8 high-resolution digital cameras with GigE technology		16 high-resolution digital cameras with GigE technology	
Resolution	3 MP	12 MP	3 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	CE			



For more information contact:

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