

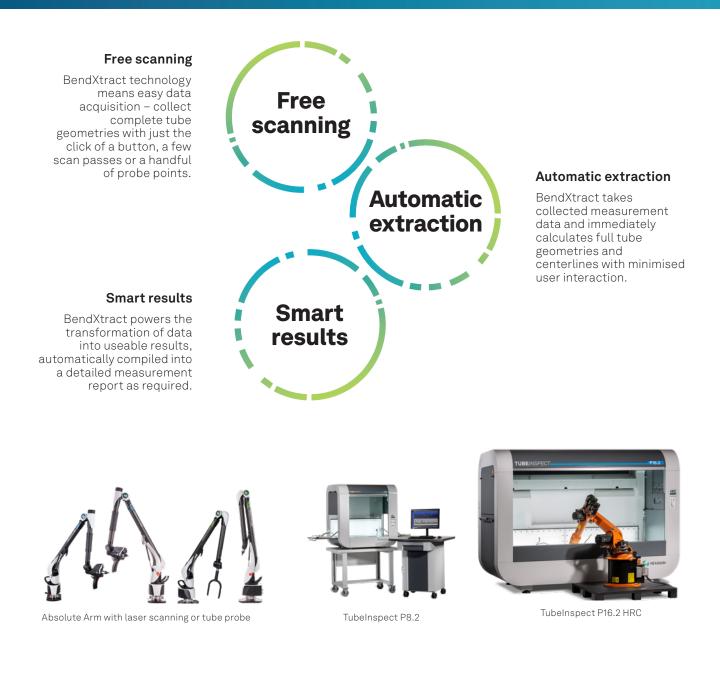
# **BendXtract technology**

Powering BendingStudio XT, the leading software for tube and wire measurement

### Effective in speed, accuracy and flexibility

BendingStudio XT is the world's most powerful bending measurement software platform. It can quickly and simply calculate the precise geometries of bent tubes and wires to a incredibly high degree of accuracy using camera-based instantaneous measurement, laser scanning, infrared non-contact probing or touch probing.

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



## **BendingStudio XT**

Discover the benefits of the leading tube and wire analysis platform

#### Easy to learn

- Intuitive operation workflow based on pictograms, preconfigured templates and inspection plans
- Simple measurement methods allow for full operation by even beginner operators
- Just a few minutes' training required for inspecting defined parts

#### Automation ready

- Minimised user interaction even for manual operation, with measurement jobs allowing batch inspection
- Automated measurement, for example with collaborative robots
- Fully integratable within automatic production cells

#### **Deflection compensation**

- Most advanced technology for measuring elastic tubes
- Applicable to any flexible tubes and wires, such as long and thin brake lines
- Effectively used by well-known automotive and aerospace companies

**BendingStudio XT** 

#### **Result processing**

- Simple OK/NOK decision displayed by thumb up/down pictogram
- Comprehensive result presentation, including tables and 3D visualisations
- Reports in multiple languagesConfigurable automatic result
  - transfer



- For all materials and geometries of bent parts, including freeform, bend-in-bend and rectangular cross-section measurement.
- Supports multiple Hexagon measurement systems
- Reverse engineering in just a few steps
- Integrated merging of long part measurements by simply repositioning
- Interfaces to all major benders already included

#### Unmatched repeatability

- Most repeatable results approved in many GR&R capability studies
- Results not affected by operator influence
- Highest accuracy for centerline – complete geometry is measured
- Independent from the scanning method – points and images

#### Beyond tubes and wires

- No extra measurement required for formed tube ends and other features
- Holders and fittings measured without mechanical tools through unique CAD-Adaptor functionality
- Diameter change detection, allows for example protection hose position identification
- Easy measurement of bevel cuts and branched tubes



Hexagon is a global leader in sensor, software and autonomous solutions. We are putting data to work to boost efficiency, productivity, and quality across industrial, manufacturing, infrastructure, safety, and mobility applications.

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

Hexagon's Manufacturing Intelligence division provides solutions that utilise data from design and engineering, production and metrology to make manufacturing smarter. For more information, visit **hexagonmi.com**.

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