



Assembly and Test Lines for Electronic Sensors

The rapid advancement of technologies, materials and industry (IIoT) is constantly driving the need for more precise, adaptable and powerful sensor solutions. In particular, the need for ever smaller sizes continues to challenge designers and manufacturers.

With over 30 years of experience in sensor manufacturing automation, we deeply understand the industry's unique requirements and know what truly matters. This expertise and process knowledge form the foundation for our customized and cost-effective automation solutions.

Our Key Competencies

- Dealing with highly diversified product ranges
- Extensive technology portfolio for different environmental conditions
- Extensive AOI systems for quality assembly
- Automatic setup processes for a wide range of sensor variants



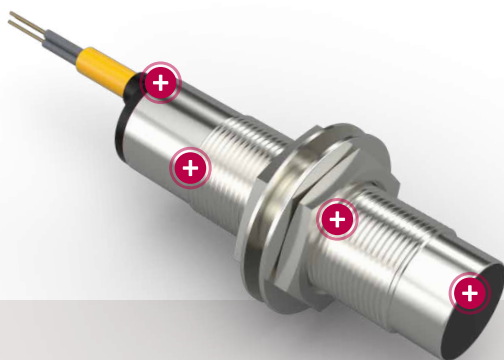
Intelligent Process
Data Management



Precise Calibration
and Testing



External System
Integration



Sensors Assembly Portfolio

Key Sensor Components

- Sensing Element (Detector)
- Transducer
- Signal Conditioning/Processing
- Interface/Transmission Unit
- Connector/Cable/WiFi
- Housing



XENON assembly and inspection solutions for all types of size, function or technology of electronic sensors.



Position



Temperature



Acceleration



Ultrasonic



Electric



Optical

Assembly Solutions for Smart Sensing

The assembly and testing of sensors is a complex process. XENON relies on proven technology solutions to realize production lines tailored to customer needs. Core elements such as automation platforms, feeding systems, processes, and software are developed entirely in-house, ensuring seamless integration and high reliability.



Key Automation Processes for Sensors

Feeding/Separation

- Flexfeeding
- Trayfeeding
- Vibration Bowl Feeding

Insertion

- Pick and Place
- Cam-Controlled Assembly
- Robot Handling

Pre-/Final Assembly

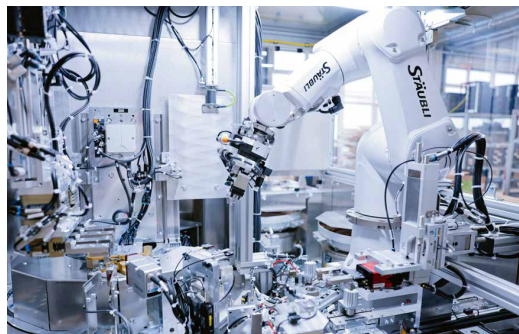
- Connector/Cable assembly
- Contact Assembly
- Housing assembly

Testing

- Various Conditions
- Optical Test
- Functional Test

Identification

- Labeling
- Lasering
- Marking



Worldwide leading companies rely on XENON automation systems

BALLUFF

TE
connectivity

TDK

Huba Control

ifm

That's automation.

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