Big Science Business Forum 2024

TRIESTE
1 – 4 OCTOBER 2024

Host Organizers

REGIONE AUTONOMA FRIULI VENEZIA GIULIA

ILO Network Italia
Rete Industrial Liaison Officers

AREA SCIENCE PARK

IO SONO FRIULI VENEZIA GIULIA

Technology Transfer Track Posters

A unique automatic metrological device for hole geometric tolerances

Axist has introduced a groundbreaking automatic metrology device, the Housing Inspection Tool (HIT), specifically designed for precise measurement of threaded hole characteristics. This innovative tool leverages a unique clamping system, spot laser sensors, linear encoders, and a dedicated algorithm to accurately determine the absolute position of HIT, providing precise data on hole geometry and identifying potential defects.

The HIT can measure various hole characteristics, including diameter, axis perpendicularity, thread step, angle, and length, which are often challenging to measure due to non-perpendicular surfaces. The tool's preprogrammed metrological procedures allow it to generate comprehensive characteristics and tolerances within minutes, significantly reducing measurement operation duration and resulting in substantial cost savings for industries.

Certified and CE marked, this portable device is not only ready for immediate use in industrial settings but also adaptable to different shapes and geometries beyond threaded holes. It supports Industry 4.0 integration, enabling real-time comparisons with nominal CAD models and instant result display to the operator.

The HIT has been tested and certified, making it an ideal solution for industries requiring high precision and efficiency in quality control. The technology is available for direct use, technical adaptation for new applications, and partial transfer of specific hardware or software components.

Benefits of the technology:

- Precise Measurement: Accurate data on hole geometry and defects.
- Efficiency and Cost Savings by reducing measurement times
- Industry 4.0 Integration: Real-time comparisons with nominal CAD models
- Portability: Certified and CE marked, ready for industrial use.

Application Areas:

- Quality control in any industrial application

AXIST

FUSION FOR ENERGY

BOOTH n. / HALL 28 - 27

Reference person

Miguel Estruch (Broker for F4E)

Contacts

technologytransfer@f4e.europa.eu

www.fusion-technology-transfer.europa.eu

Download BSBF2024 app
for live chat

If you like this poster, download the BSBF2024 app to vote for it and live chat