

We DEVELOP

RIVET INSPECT

Inspecting rivets on any type of material, in less than a second

Automated artificial vision systems check the quality of rivet setting.
This automation reduces inspection time on production lines.

Main advantages

- Non-contact detection and pinpointing of defects
- Rapid and easy integration to the production tool
- Simple to use, easy to configure
- Accuracy: 1/100 mm
- Robust in industrial environments
- Multiple materials: metals/composites
- Control of the entire production
- Control of drilling, milling and rivet setting
- Automatic inspection time less than 1 second

Benefits

- In-line inspection of 100 % of production
- Productivity gains 20–30 % on inspection time compared to standard methods
- Traceability and real time documentation tool
- Process performance analysis and production optimisation
- Quality control

Applications

Rivet Inspect is a dynamic rivet assembly inspection system. Measurement and inspection are carried out during the trajectory of robotic equipment and are possible at each assembly stage.

Rivet Inspect detects:

Just after drilling

- Position

Just after milling

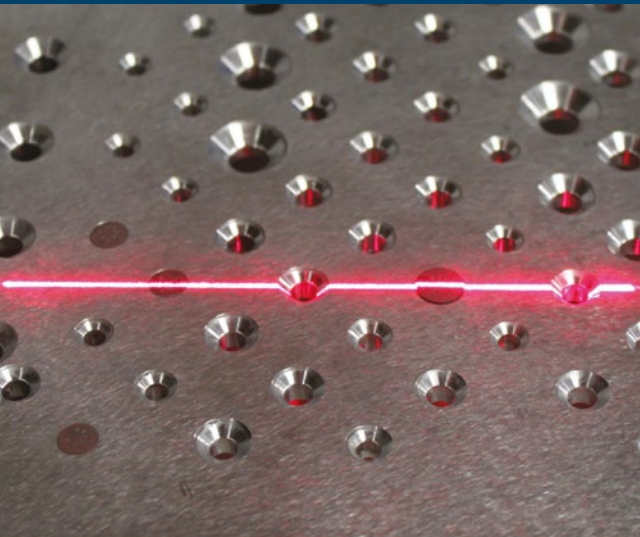
- Dimensions
- Squareness
- Position

In the riveting

- Flush
- Squareness
- Distortion

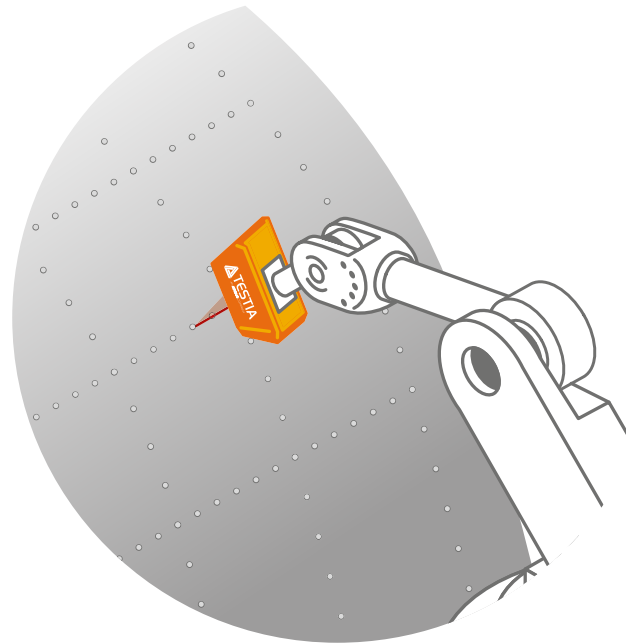
On the surface

- Skin and rivet
- Impacts
- Scratches



RIVET INSPECT

Simplify manufacturing inspection and reduce inspection time
with automated control of rivet positioning



drawing © Synthese Production Rennes

Automated control of rivet setting simplifies the manufacturing inspection process and reduces inspection time.

Rivet Inspect ensures reliable results and control of the entire production run.

Technical specifications

Measuring points over 360°

Repeatability: 10 µm

Inspection speed: 200 mm/s

System can be integrated on all types of processes

Location of defects in the workpiece marker

3D surface inspection with pinpointing and identification of defects

Image processing software based on artificial vision

