

## OPTICAL INSPECTION CELL - NDT

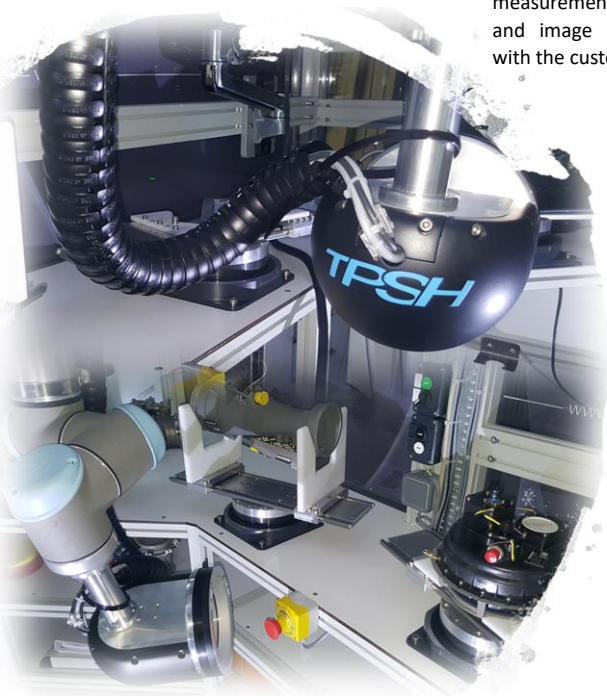
**100% AUTOMATIC SOLUTION FOR QUALITY CONTROL OF FINISHED PRODUCTS.**

**Cobotic cell with rotating multiplates for the detection of assembly defects.**

Discover our closed, cobotised cell for the detection of all types of assembly defects on finished products. Our technology is the fusion between an intelligent automated optical inspection head, a cobot, rotary multiplates, calibration accessories and a safety cell.

The innovative automatic 2D/3D control cell allows the acquisition of 6 series of products on 6 rotary plates with the objective of optimising quality control times and processes. It also allows operators to make immediate decisions on the conformity of parts leaving the production line and to guarantee the traceability of the controls. This automatic box carries out checks on all types of finished assemblies or assemblies in the course of assembly, combining automatic image

acquisition and image processing ranges. TPSH deploys its optical technology with a programmed control cycle combined with "production" and "learning" options to manage the system autonomously. All our applications are supplied with a supervision station and a customisable HMI (Human-Machine Interface). The role of our supervision software is to manage automatically and in real time, the measurement and/or control cycles, processes and image processing algorithms associated with the customer's context.



### 100% autonomous system with the following characteristics :

- ☑ Fully secured cell coupled to the CE standard
- ☑ Control station with up to 6 rotary tables and their tools
- ☑ Manual learning of control paths thanks to the cobot standard
- ☑ A cobot to enable collaborative work when creating ranges

### A learning station for the creation of control ranges in autonomy and :

- ☑ Creation of trajectories and image processing by the operator
- ☑ Edition of an automated inspection report for each measurement
- ☑ On-line control of 100% of the production line rate
- ☑ Validation of control points by the operator
- ☑ Statistical analysis of the results
- ☑ Traceability of controls

### 100% customisable technology and the following benefits:

- ☑ Easy to use parametric tools for setting up control points
- ☑ Customised definition of the selected precision (XYZ axes)
- ☑ Traceability of results on 100% of products
- ☑ Quick results on acquisitions
- ☑ On-line control at production rate
- ☑ Tool for creating inspection plans
- ☑ Optimisation of human resources
- ☑ 100% production control

