TPSH GATE INNOV GROUP

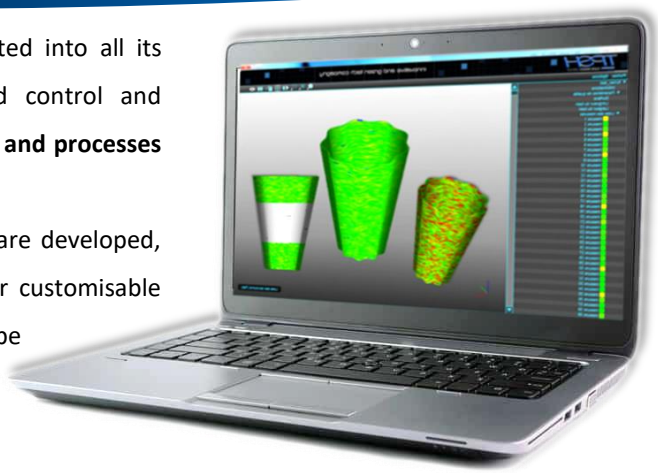
HMI – Human Machine Interface

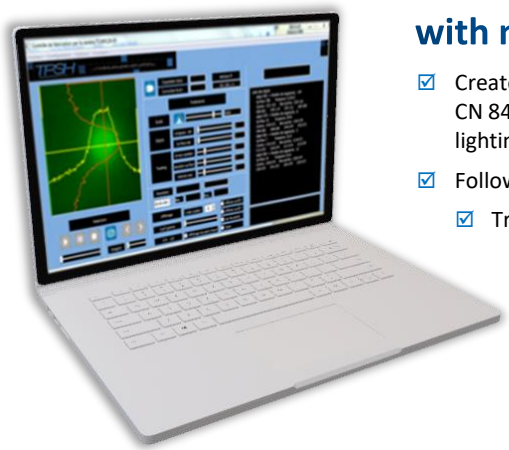
100% AUTOMATIC SOLUTION FOR QUALITY CONTROL

Synchronised real-time control of robots and cobots

TPSH develops its supervision software (Windows, Linux) integrated into all its products, applications and autonomous robotised or cobotized control and measurement cells. **Our HMI's are designed to supervise all cycles and processes in real time and automatically**.

We own 100% of the rights to the codes of our software, which are developed, coded and designated 100% by our teams. This allows us to offer customisable interfaces for multiple needs. The output formats of the results can be in STL, Ascii, TXT, CVS, Jpeg, PNG or in any other desired format depending on the demand.





HMI - 100% automatic and customisable with multiple advantages:

- ☑ Creates in real-time communication between industrial robots (ABB, KUKA, Staublï, FANUC, CN 840D, CN MITSUBISHI, VX WORKS), sensors (confocal and/or line laser), cameras and/or lighting.
- ☑ Follows the global repeatability of the measurement chain in real time
  - ☑ Tracks the robot position in real time
    - ☑ Allows quality monitoring
    - ☑ Provides traceability of results on 100% of the products
    - ☑ Coordinates the synchronisation of systems
    - ☑ Direct dialogue with company networks
    - ☑ Saves the collected information in the company's cloud

Benefits of this technology :

- ☑ Customised definition of the chosen analysis precision
- ☑ System connected to the production line
- ☑ On-line control at production rate
- ☑ Optimisation of human resources
- ☑ Trajectory generation tool
- ☑ Machine post-processor
- ☑ Windows 10 HMI

Examples of functions and other assets:

- ☑ Display of a 3D scan in a dense point cloud
- ☑ Visualisation of thickness measurement
- ☑ Edition of an automated inspection report for each measurement
- ☑ Traceability of on-line measurements of 100% of the production line rate

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