



Assembly and test workstation

For a well-known Automotive Brand we have created a **series of 14 workstations with tracking management and quality controls**, for the assembly and testing of the door panels of a well-known car model in the B segment.

• Customer needs

Automate the component assembly verification process, collect and track information relating to production and to each assembled panel, then optimize the productions and support company quality control.

• Our Project

The workstations have a touchscreen PC that guides the operator and displays the results of the automatic tests.

The aluminum structure ensures strength, ease of assembly and maintenance, and expandability.

The laying is in plastic material covered with rubber to preserve the integrity of the panel.

The tests are carried out through a series of photocells, 1 camera and 12 sensors.

Workstations are also equipped with 2 high quality cameras. 18Mpx resolution with wide angle lenses.

At the end of the cycle, the system archives 2 photos for quality control and traceability.

Each assembly and test cycle has an average duration of 8-21 seconds.

• Workstation Features

The workbench includes the following hardware components:

- 2 high quality 1Mpx cameras with wide angle lenses (IDS)
- 1 Omron presence control camera
- 12 sensors for presence control (Wenglor)
- 1 PC Axiomtek
- 1 Siemens PLC for sending data to the supervisor
- 1 Honeywell PM43C printer

LEARN MORE WITH OUR DEDICATED VIDEOS

Two presentation videos are available for this project: follow the link or scan the QRCode to open the video on Youtube:



<https://youtu.be/Qd-eNCz7czM>



<https://youtu.be/j7nTWTm2qgl>

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