

INSPECTION OF DIALS

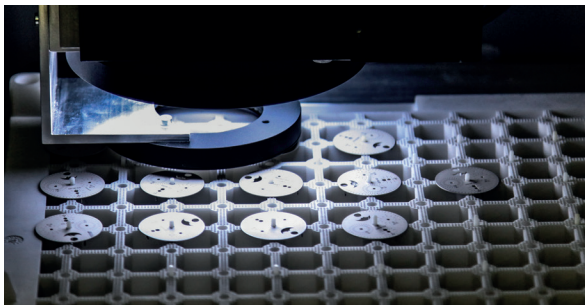
CHALLENGES

Monitoring the aesthetic quality of watch dials is very demanding. The challenges are such as:

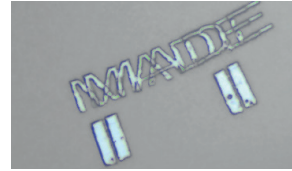
- ▶ Detection of defects (from the largest to the smallest)
- ▶ Repeatability of results
- ▶ Ease of adaptation to new references
- ▶ High inspection speed (3-5 s/dial)
- ▶ Autonomous work or support to inspectors
- ▶ Traceability of inspection

SOLUTION

- ▶ Thanks to our experience and our developments in the areas of acquisition, machine vision and automation we have been able to respond to inspection difficulties, which up to now required manual inspection.



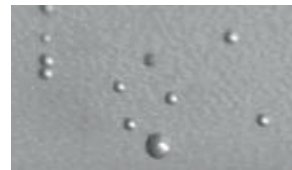
RESULTS



double printing



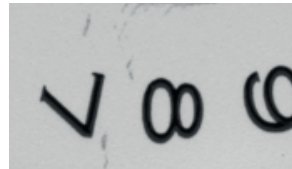
serious geometric faults



bubbles in the dial lacquer



presence of luminous matter



defects on the bottom of the dial



ink missing



removal of excessive ink



burrs

CPAUTOMATION PRODUCTS

- ▶ Range of machines able to meet most requests.
- ▶ Already in service in various companies in the watchmaking sector.

CP-View S
Integrated inspection module



CP-View M
Deck inspection machine



CP-View L
Autonomous inspection machine

