

CHALLENGES

It is essential to continually control the quality of assemblies on manufacturing lines. For example those involved in the motorization of home automation systems like window blinds. This :

- Optimizes the **time, cost and reliability** of the control operations
- Improves the **control traceability** and product compliance
- **Avoids costly exchange or repair** by detecting non-compliance before shipment.

SOLUTION

INSPEX IN is a solution for industrial X-ray inspection, adapted to the control of motorized home automation systems, and equipped with :

- An X-ray source and image intensifier (X-ray camera)
- A 6-axis robot to load parts, position them with pre-programmed orientations between the source and the camera, and unload them
- Imaging software to check critical dimensions, connection systems, and presence of mechanical or electronic parts
- Display and record the part's compliance, and mark a default code on the part

The solution can control 20 models of home automation systems. For each model, 7 images and 20 controls are applied.

BENEFITS

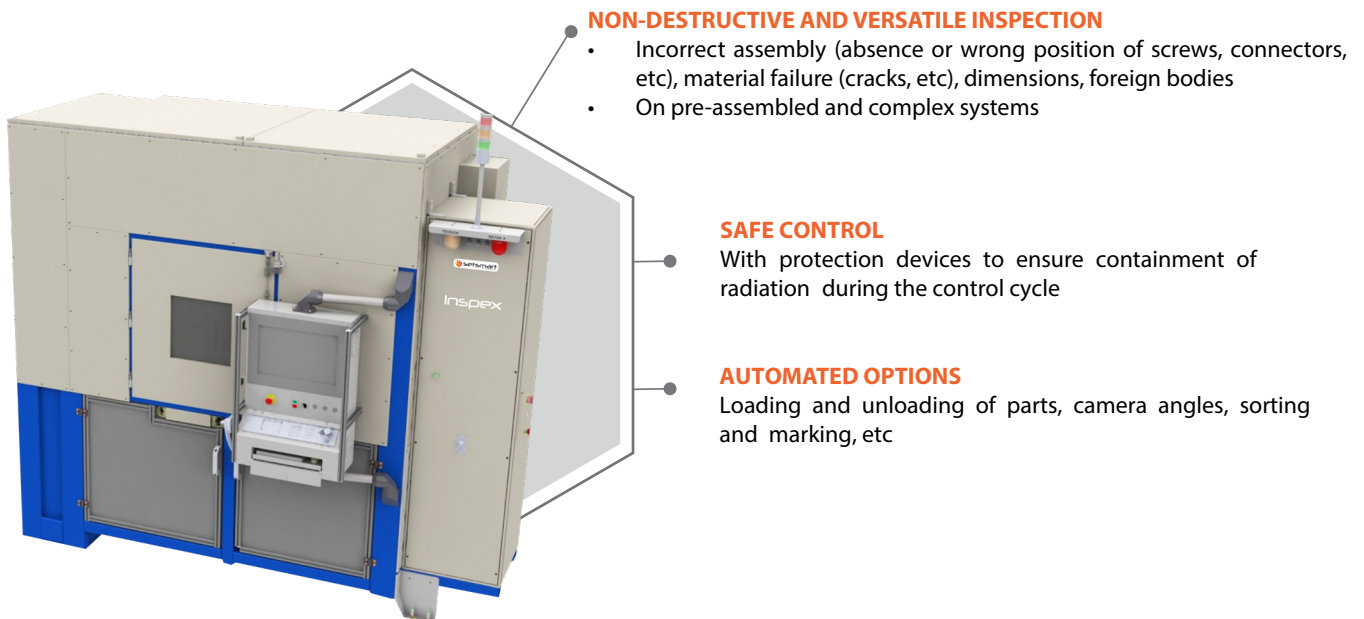
Cost savings and reliability

- Improved control rate by a factor of 4 : 200 parts/h
- Operational 51 weeks a year
- Customer enjoyed a return on investment within 12 months

Quality and traceability

- Control of 100% of production
- Non-compliant parts tracked by their default code
- Full traceability of the saved images and control data

INSPEX IN



NON-DESTRUCTIVE AND VERSATILE INSPECTION

- Incorrect assembly (absence or wrong position of screws, connectors, etc), material failure (cracks, etc), dimensions, foreign bodies
- On pre-assembled and complex systems

SAFE CONTROL

With protection devices to ensure containment of radiation during the control cycle

AUTOMATED OPTIONS

Loading and unloading of parts, camera angles, sorting and marking, etc