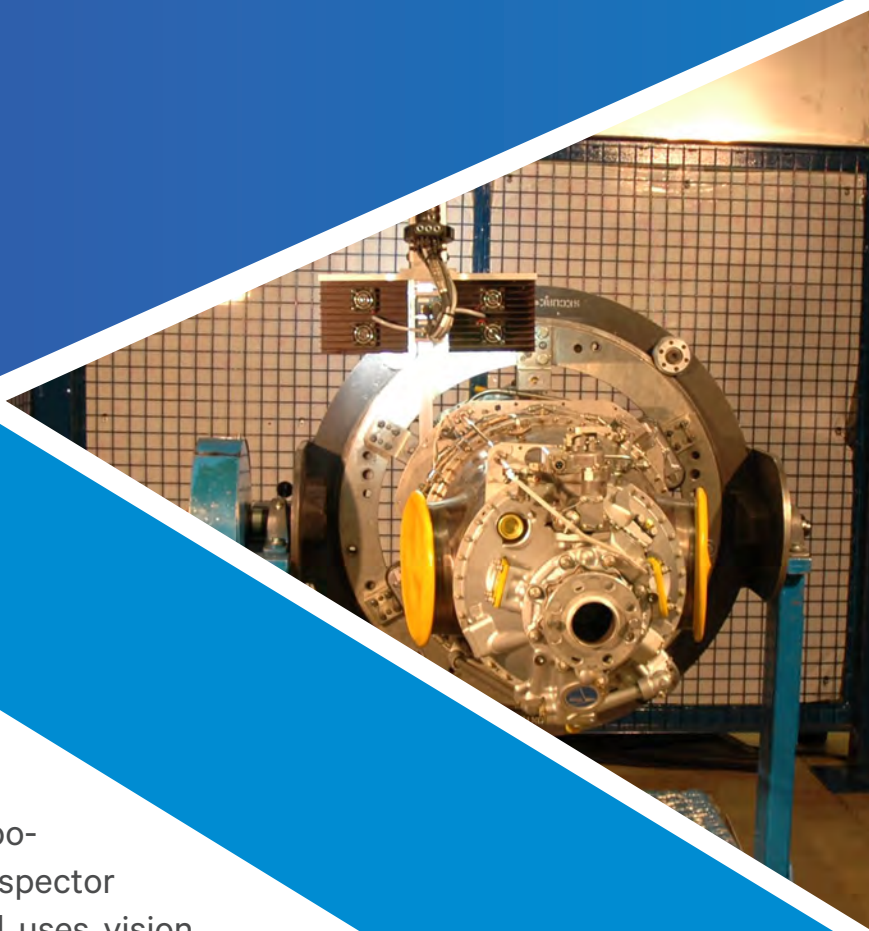
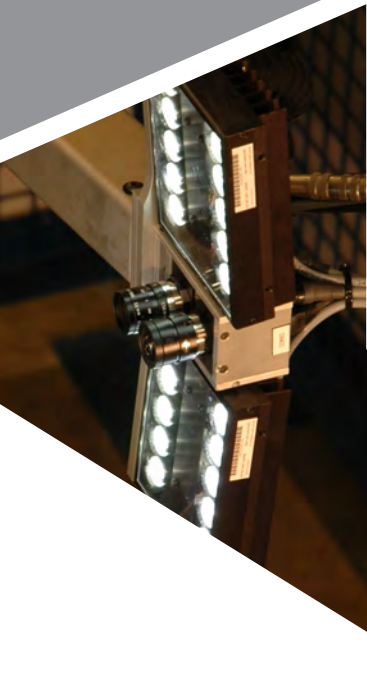




# Robotic Engines Inspection



The final visual check of an aircraft engine is time consuming and critical to validate components. The robotic inspection cell digitally archives pictures and inspects components of aircraft engine greatly reducing inspector time validating the engine. The robotic cell uses vision system to detect defects on the engine assembly. The inspection results are stored in a database.

The robotic inspection cell is capable of verifying the orientation, the position and the presence of components of the engines.

The optical characters recognition (OCR), the system will read the engine model and the serial number on a data plate.

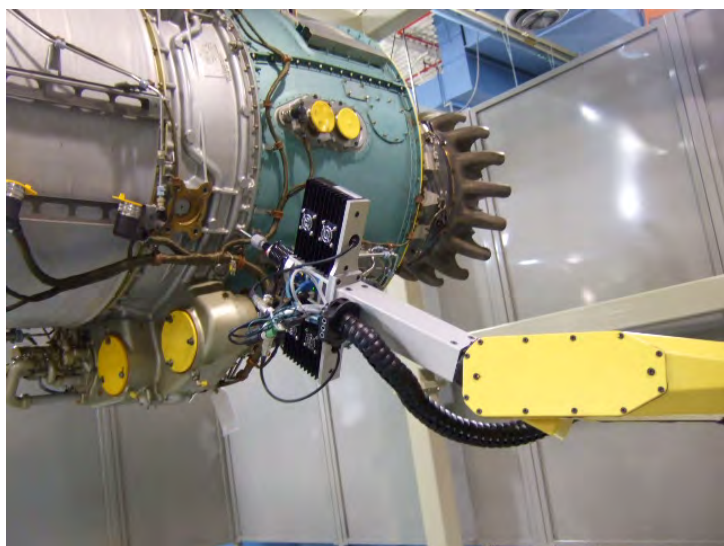
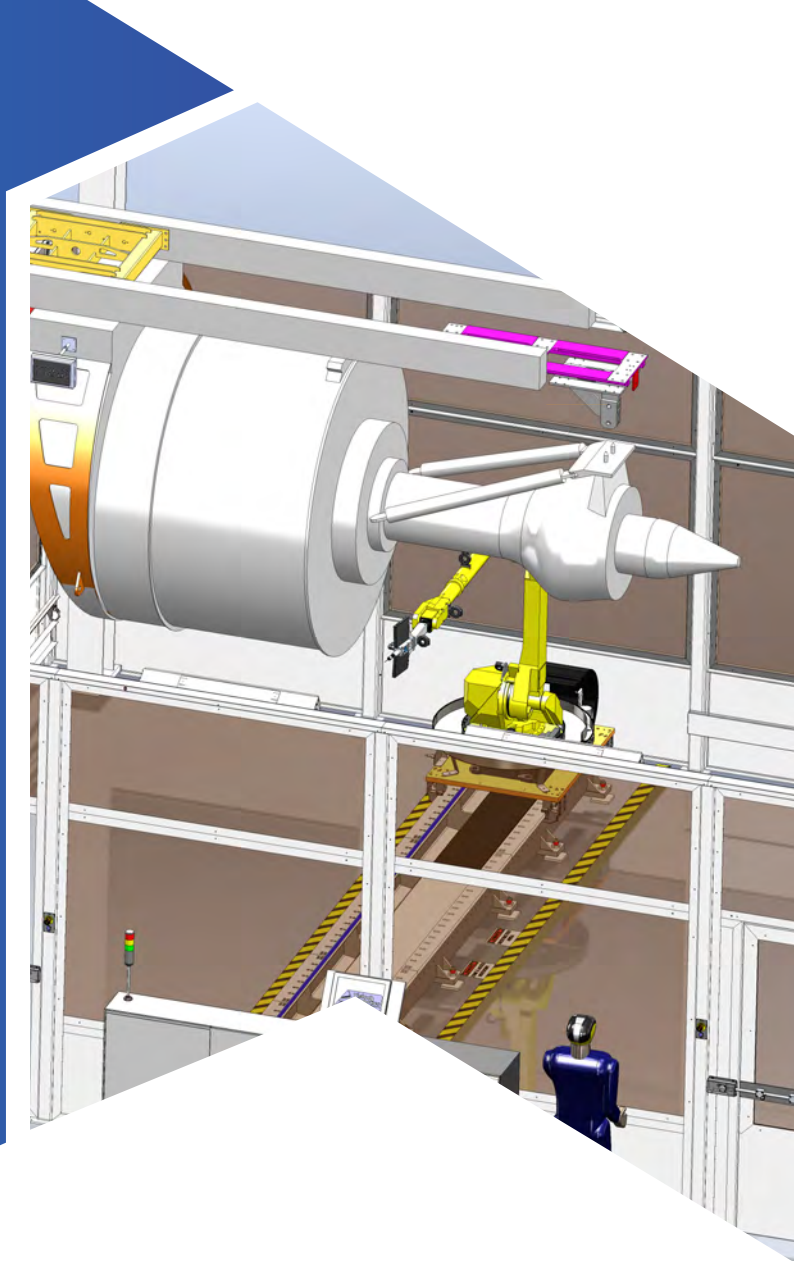


### Main Processes

- Component's inspection
- Digitally archive engine pictures
- Read engine information (OCR) as engine model and serial number

### Main Technologies used

- 6 or 7 axis systems, 6 axis robot + 1 robot linear rail (for bigger engines)
- 2 cameras (small and larger components)
- Camera lighting system
- Touch probe
- Offline 3D simulation software for new engine teaching
- OCR (Optical Characters Recognition)
- Data base and search engine
- System calibration



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