

Case Study | Aerospace

# COMPREHENSIVE MRO SOLUTIONS

**THE COMPANY PARTNERED WITH TATA TECHNOLOGIES TO DESIGN A RIG TO PERFORM MAINTENANCE IN HORIZONTAL (X-AXIS) POSITION.**

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## THE CHALLENGE

- Designing a maintenance fixture that provided a reduced stripping cycle time.
- Validating horizontal stripping.
- Finding a low cost tool design solution.

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## THE COMPANY

The company is the world leader in aircraft landing and braking systems. They are a partner to numerous leading commercial, military, business and regional airframers and employ more than 7,000 staff working in locations across Europe, North America and Asia.



## THE SOLUTION

### Phase 1 – Investigation

- Studied the engine stripping sequence.
- Consideration of the gantry systems/tools.

### Phase 2 – Design

- Designing of the fixture for the new engine.
- A finite element analysis was completed to evaluate the effectiveness.

### Phase 3 – Manufacturing

- Preparation of the manufacture drawings.
- Provided support during manufacturing and commissioning.

## THE RESULT

# 40%

Savings in implementation cost



New clamping arrangement



Reduced total time per station



Met all delivery milestones



Foreign object damage based design improvements suggested

## ABOUT US

Tata Technologies is a global engineering and product development IT services company that is focused on fulfilling its mission of helping the world drive, fly, build and farm by enabling manufacturing companies across the automotive, aerospace and industrial heavy machinery verticals realize better products and drive efficiencies in their businesses. There are two components to our value proposition – managing and delivering outsourced engineering services and products for our manufacturing clients, and helping them identify and deploy technologies that are used to conceptualize, design, validate, build, test, benchmark and realize better products. For more information, visit [www.tatatechnologies.com](http://www.tatatechnologies.com).