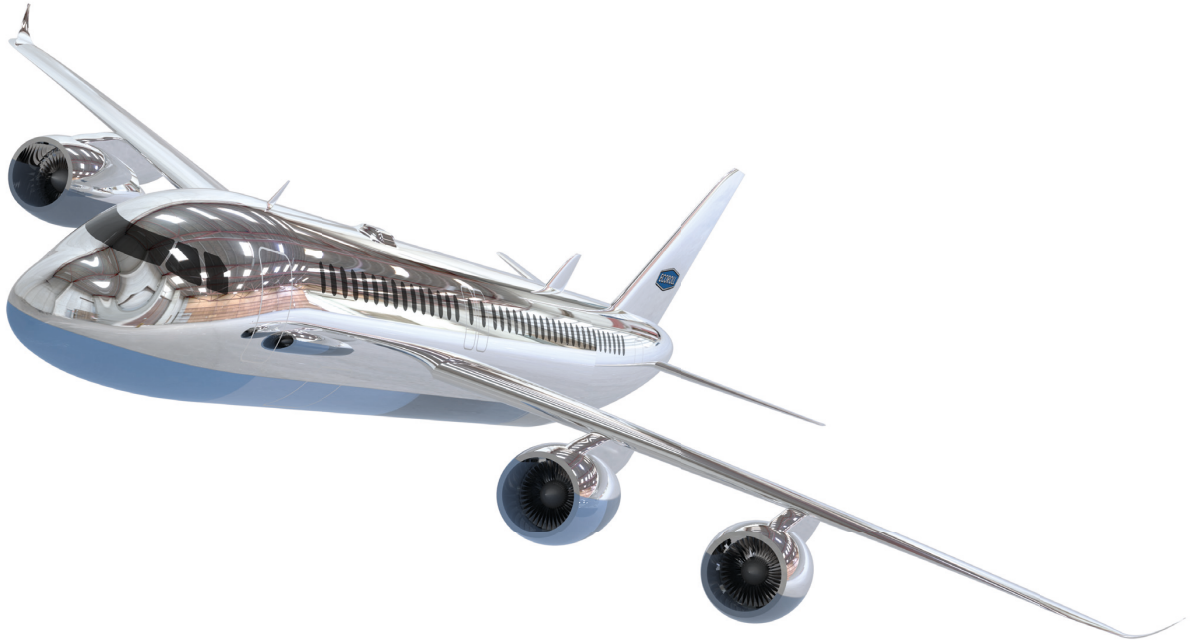
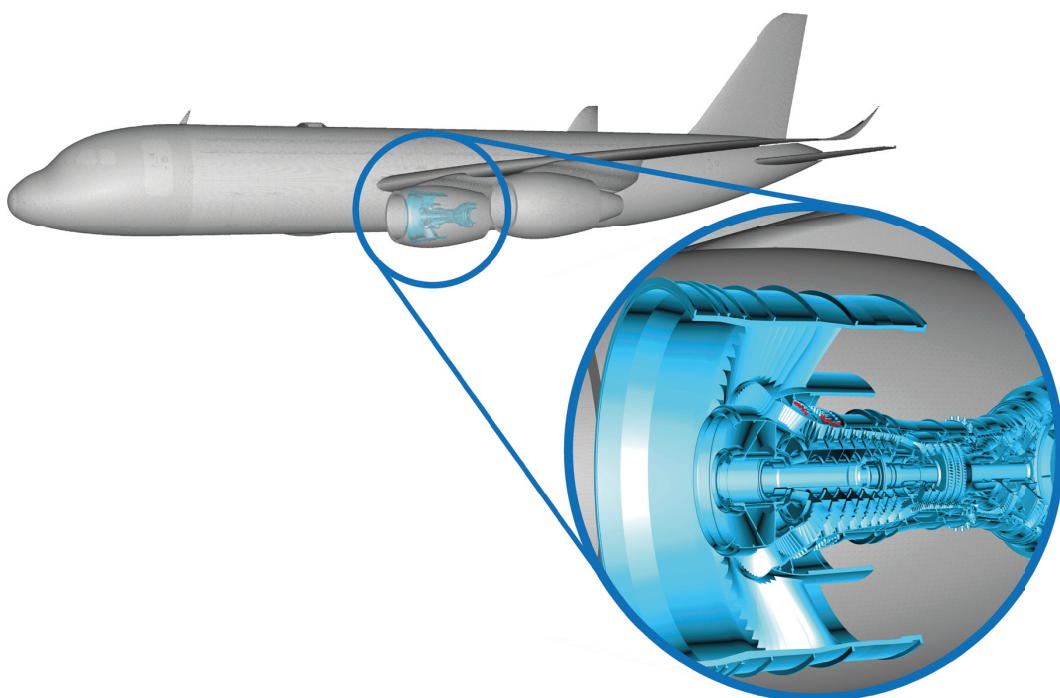


APPLICATION EXAMPLE ▶ Aviation ▶ Tension bolt



Task

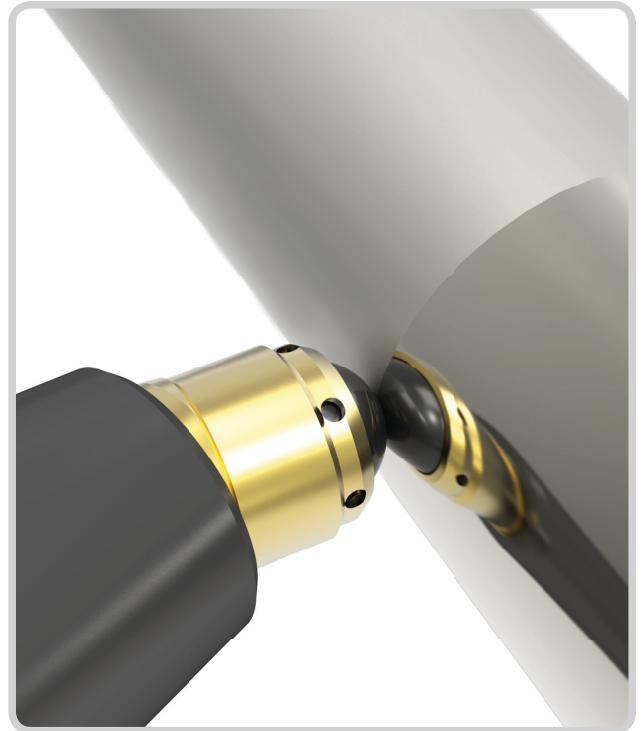
Increased fatigue strength of engine mounting tension screws





Solution

Deep Rolling with HG6-9 tool



User benefits

- Reduction of product costs by about **25%**
- Reduction of previous production time by about **30%**
- **Increased fatigue strength**

Details

- Workpiece Tension bolt
- Part of Aircraft engine
- Material Titanium alloy
- Tensile strength 1600 N/mm²
- Hardness 49 HRC

Parameter

- Tool HG6-9R00° -SL25
- Circumferential speed 150 m/min
- Feed rate 0,1 mm/rev.
- Rolling force 750 N
- Cycle time 28 seconds