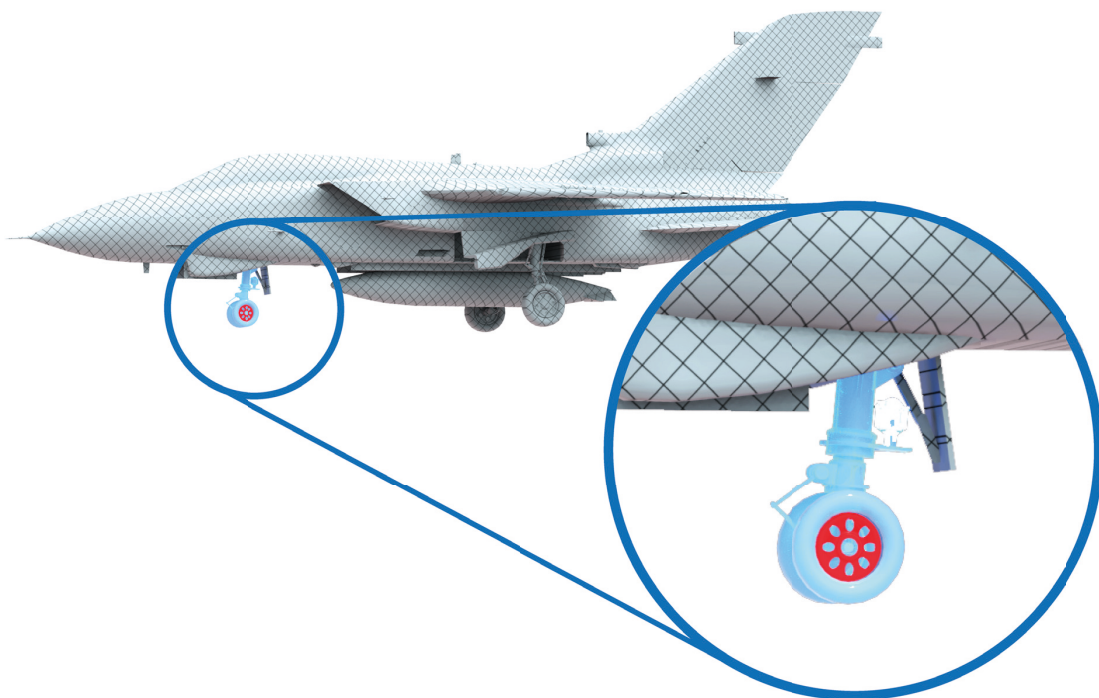


## APPLICATION EXAMPLE ▶ Aviation ▶ Wheel rim (2)



### Task

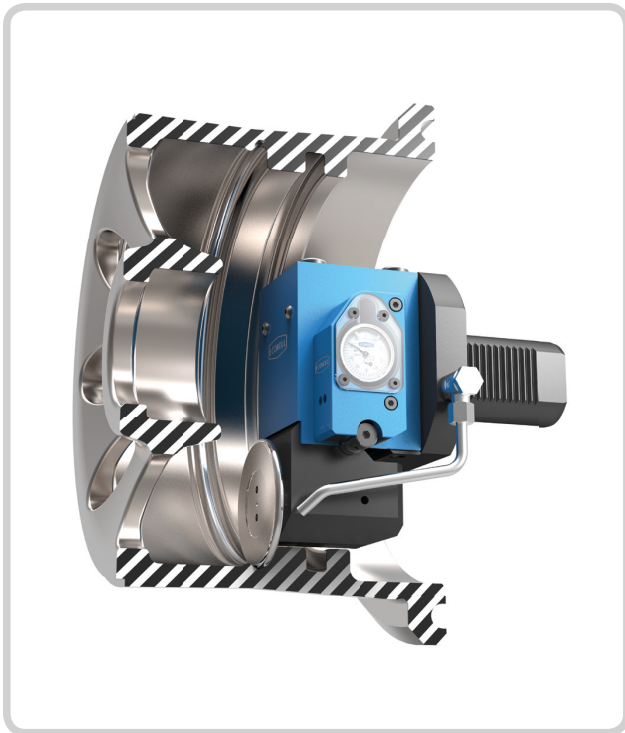
Increase the fatigue strength and eliminate propagation of cracks





## Solution

Deep Rolling of the radius contour by feed process with tool EF90



## User benefits

- Increase fatigue strength by a factor of about **5x**
- Decrease production costs by a factor of about **2x**
- Life time of wheel rim increased about by a factor of about **3x**

## Details

- Workpiece ..... Wheel rim
- Part of ..... Aircraft landing gear
- Material ..... Aluminium alloy

## Parameter

- Tool ..... EF90
- Circumferential speed .... 100 m/min
- Feed rate ..... 0,3 mm/rev.
- Cycle time ..... 15 seconds