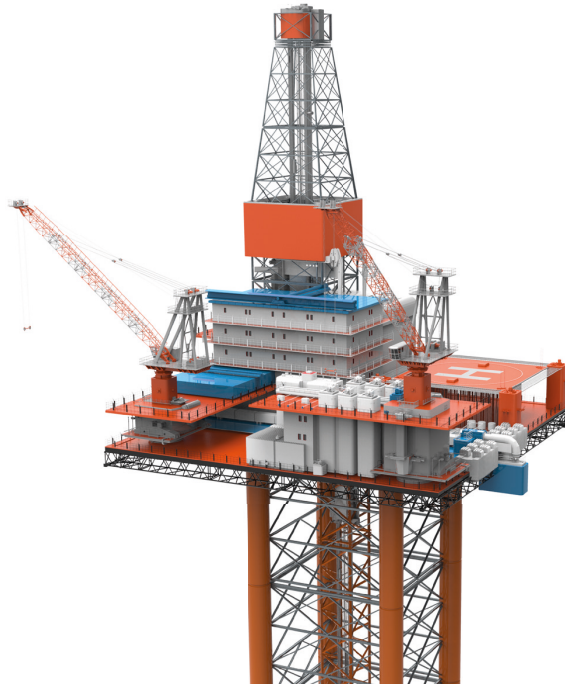
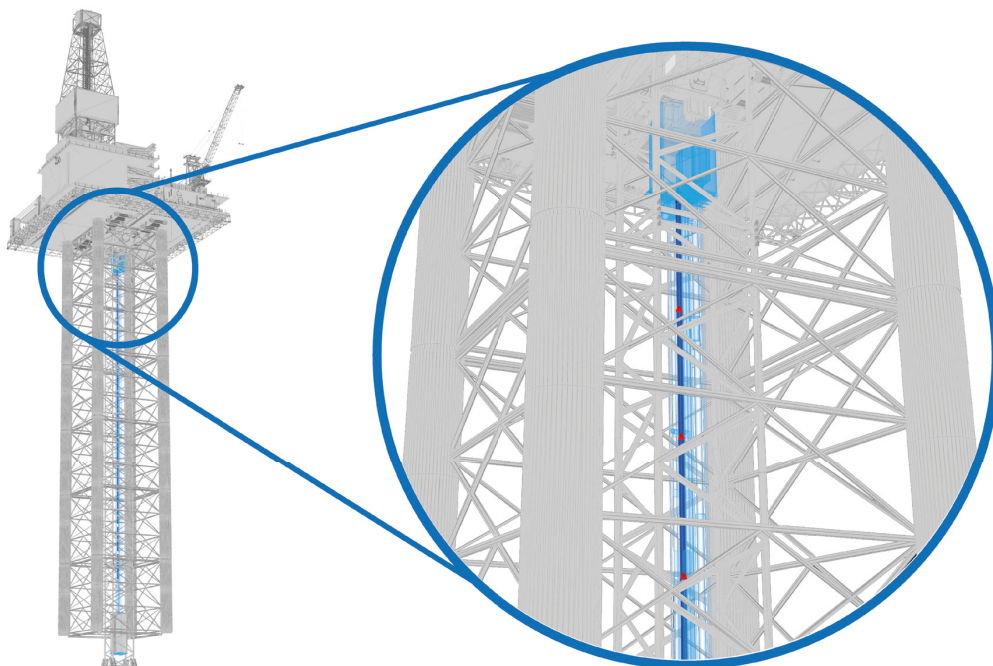


## APPLICATION EXAMPLE ▶ Oil & Gas ▶ API-thread pin



### Task

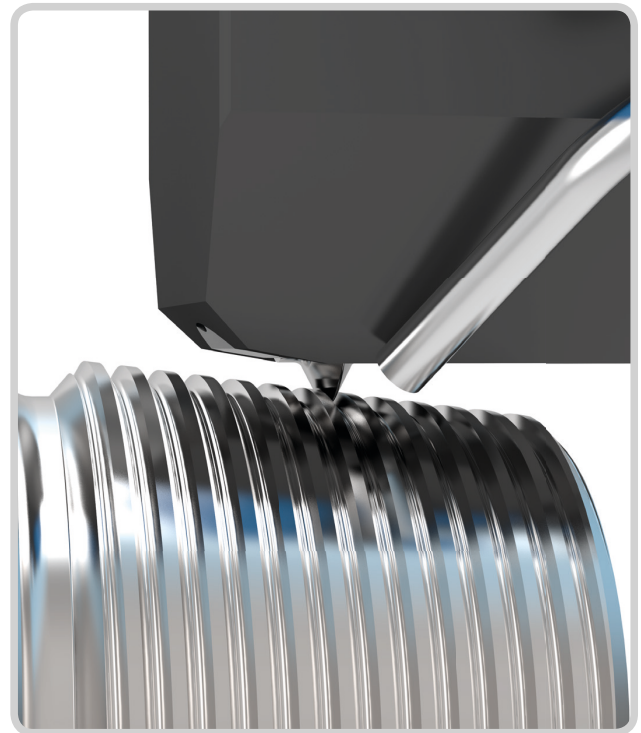
Increase of the fatigue strength of API-thread pin





## Solution

Deep Rolling the root radi us with the EF90 tool



## User benefits

- Fatigue strength increased by about **40%**
- Life time increased by about **15%**

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## Details

- Workpiece ..... API-thread pin
- Part of ..... Drill pipe
- Material ..... 42 CrMo 4 V
- Tensile strength ..... 1200 N/mm<sup>2</sup>

## Parameter

- Tool ..... EF90
- Rotation speed ..... 53 RPM
- Feed rate ..... 6,35 mm/rev.
- Rolling force ..... 8500 N
- Cycle time ..... ≤ 1 minute