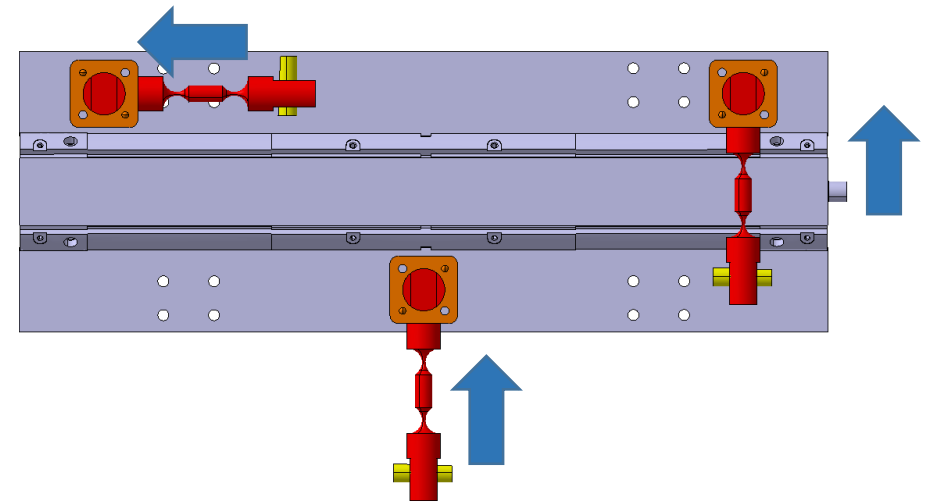
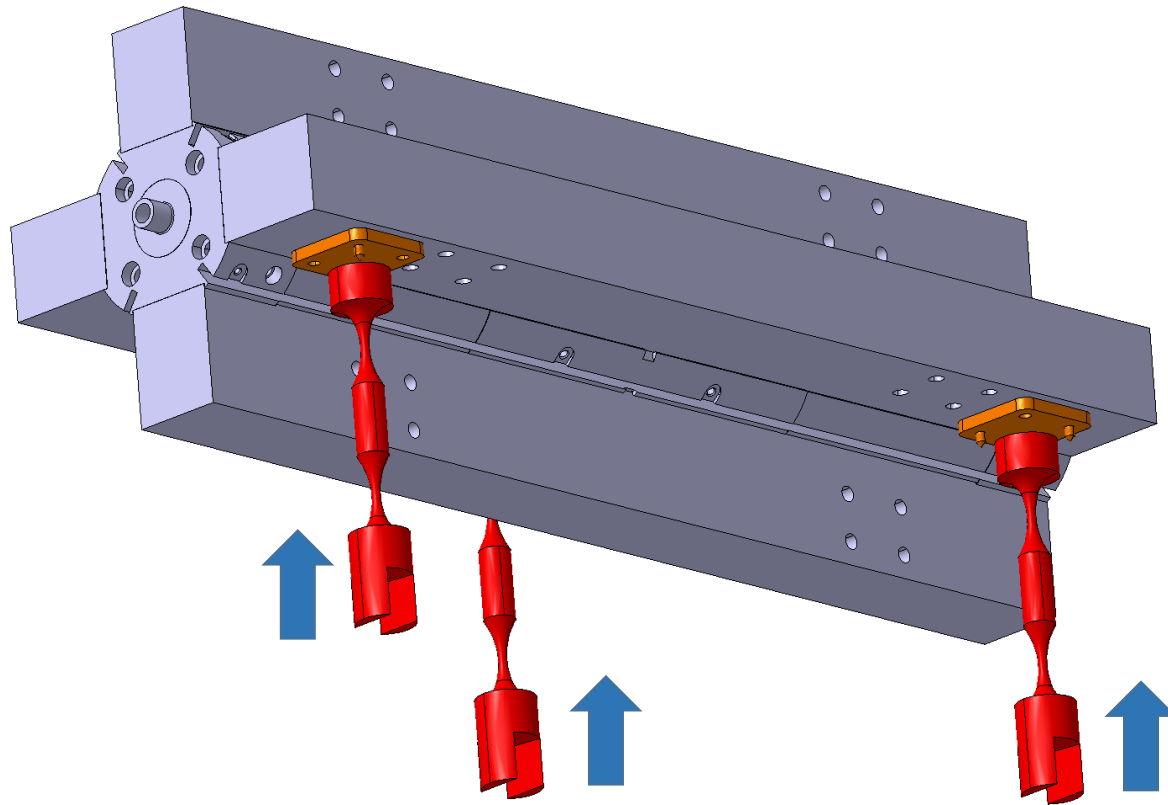


Adjustable support

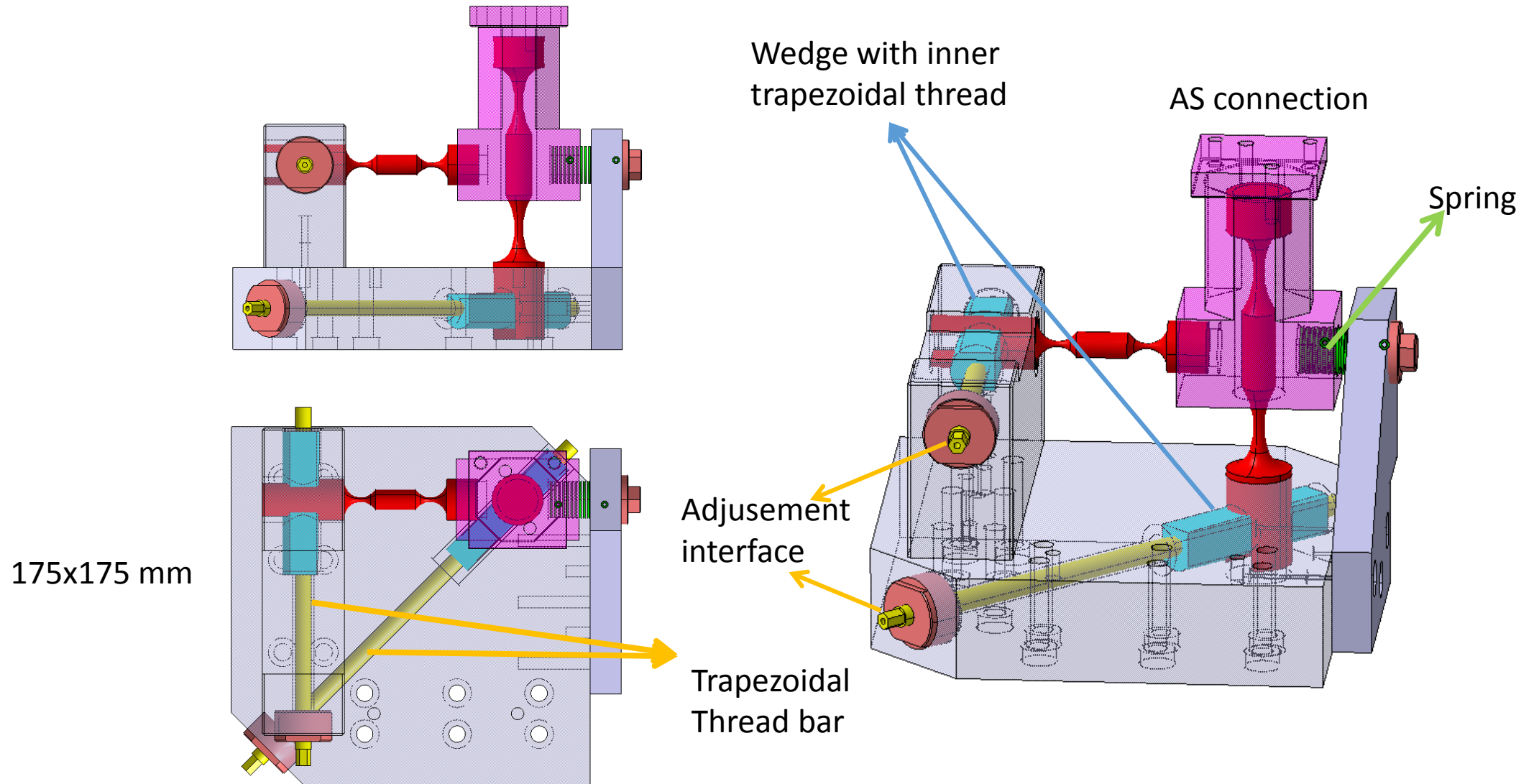
Jukka Väinölä

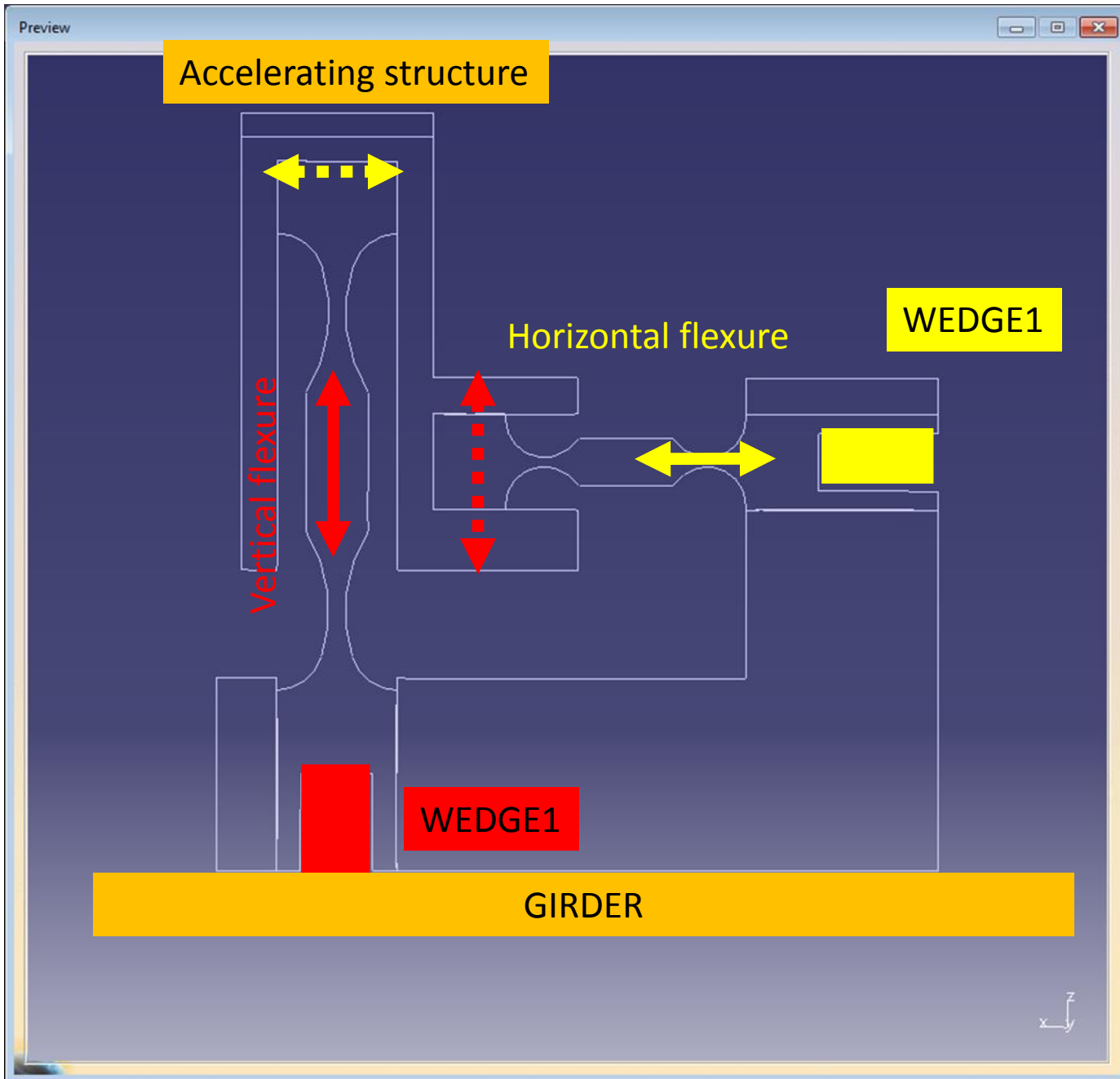
4/10/2017

Support and adjustment with 3 flexible devices



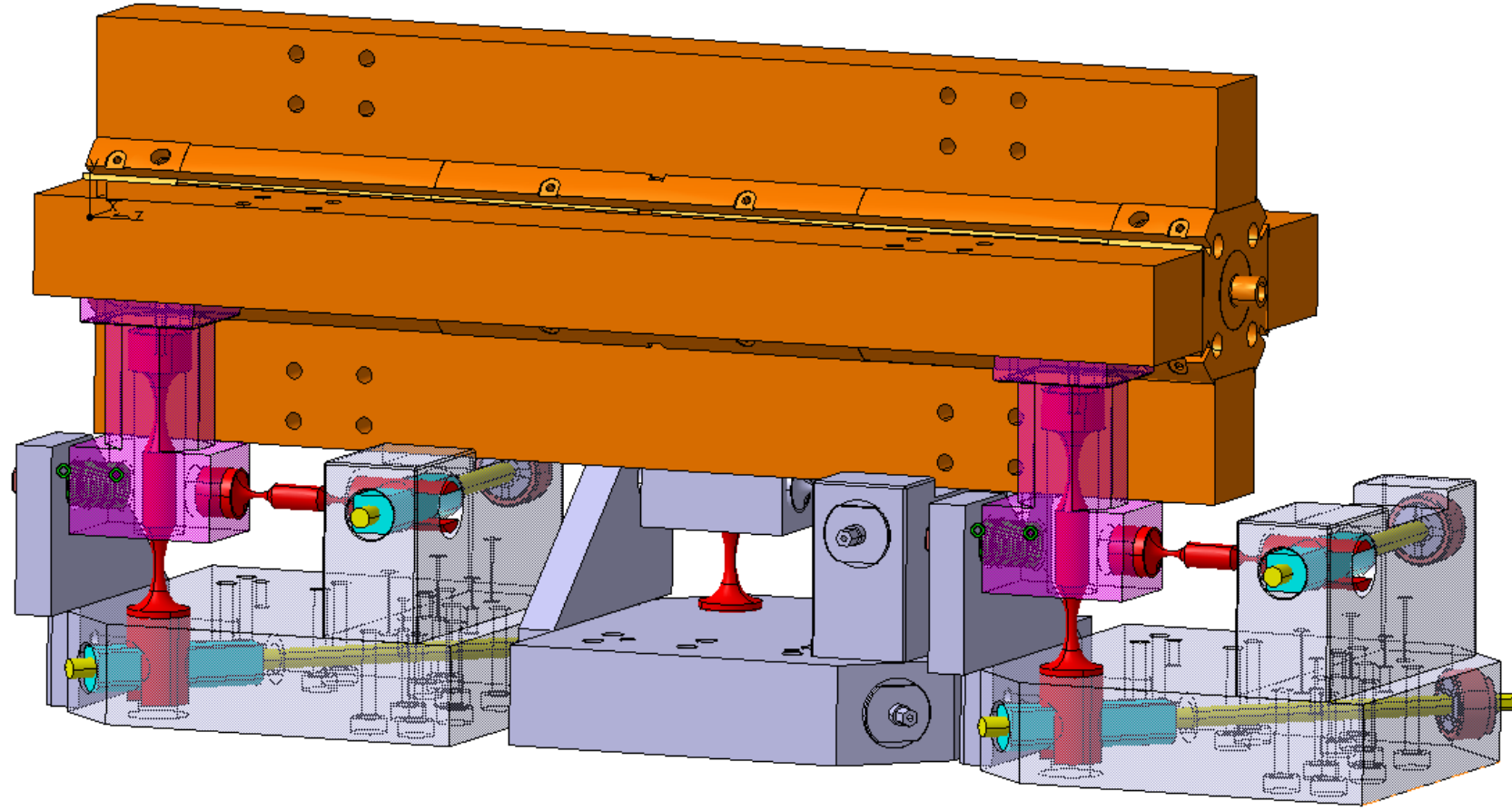
Support design





Cross section

Support installation

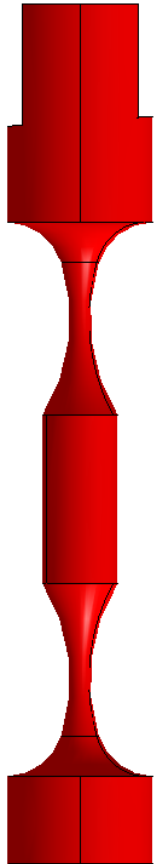
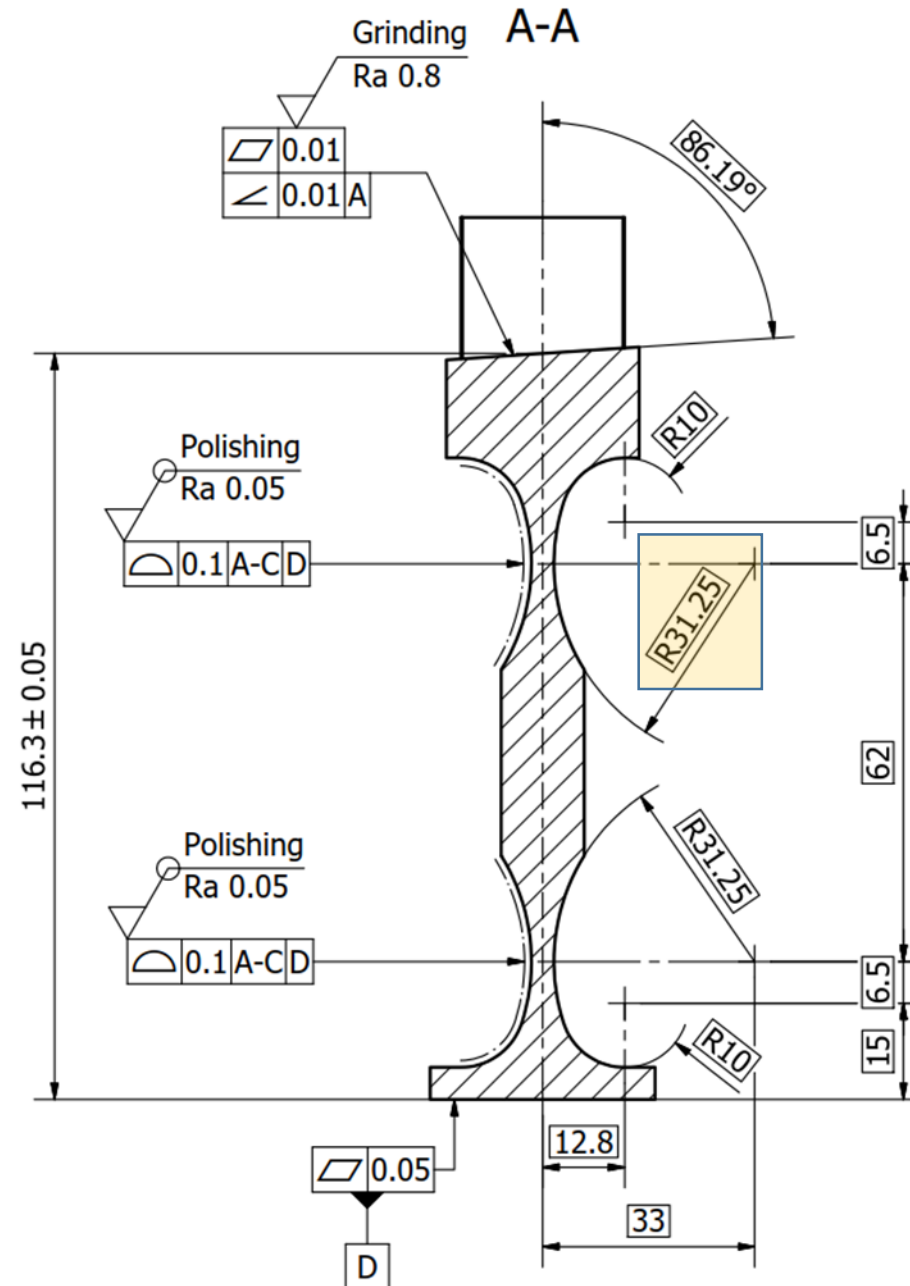


Vertical flexure

- Initial geometrical design from DBQ support
- Material 30CrNiMo8 (EN 10083-3-2006)
 - or 34CrNiMo6
- Tensile strength R_m 1100 Mpa
- Yield strength R_e 900 Mpa

Original geometry
 0.5 thinner ($R=31.5$)
 1 thinner ($R=31.75$)
 0.5 thicker ($R=31$)

Parasitic motion
 $= 0.6 x^2/L$ (0.005/1 mm, 0,02/2mm)



Horizontal flexure

- Initial geometrical design from DBQ support
- Material 30CrNiMo8 (EN 10083-3-2006)
 - or 34CrNiMo6
- Tensile strength R_m 1100 Mpa
- Yield strength R_e 900 Mpa

