

DESIGN GUIDELINE

„reduce workload“

„use resources to adapt competences“

Design Guideline Arguments

- harmonize work result
 - “Cooperate Identity”
 - quality
 - content
- harmonize processes
 - user oriented software
 - usages optimized functionalities
- enhance data quality
 - enhance 3-D model handling
 - enhance 2-D drawing handling
- external engineering process basics

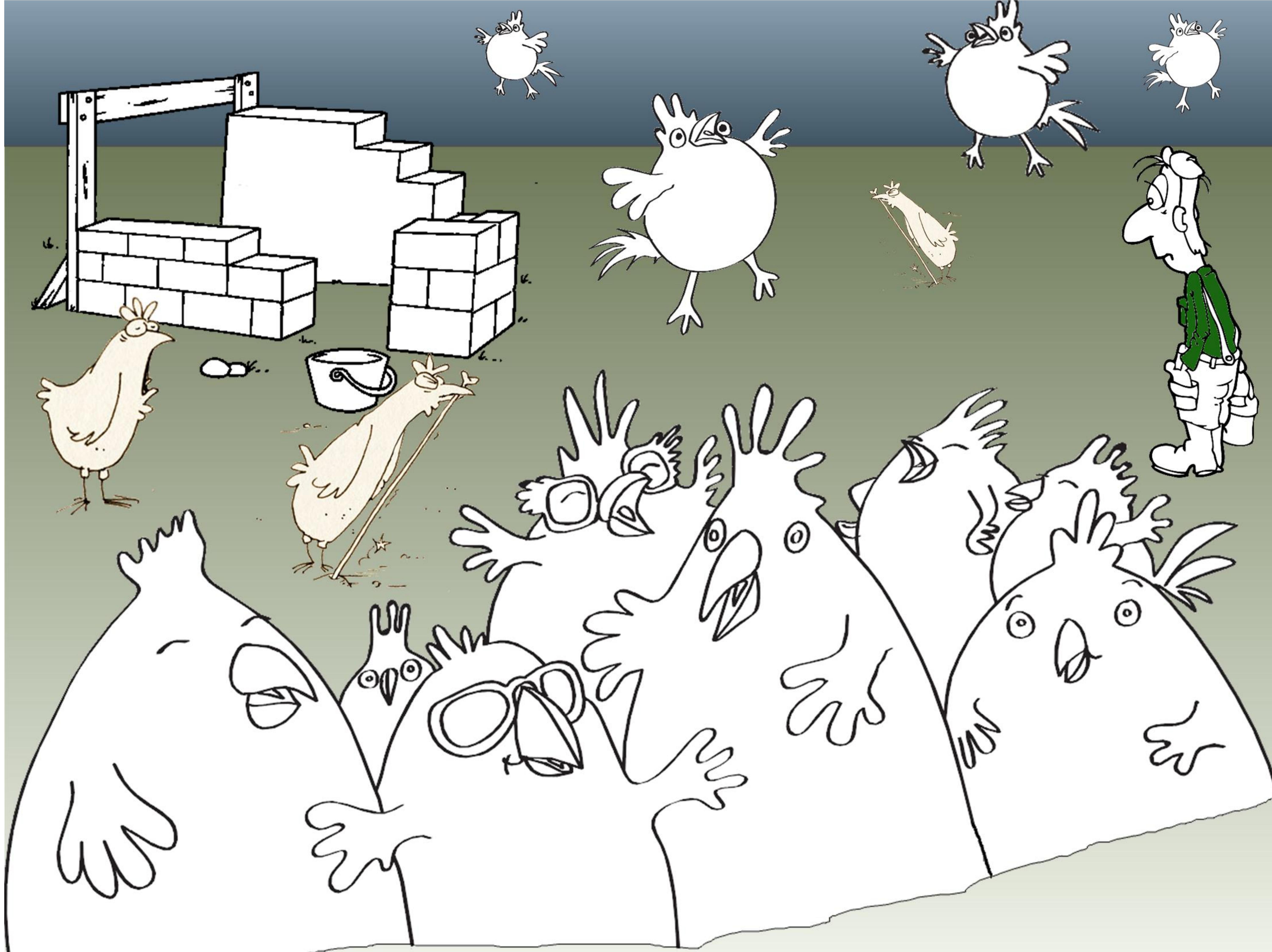
Design Guidelines Counter-Argument

- **not needed – why now?**
- **no time to spend**
- **a lot of work**
- **no resources**
- **Implemented processes are efficient**
- **“everything” is defined**

Late night at Friday a farmer complains at his group of regulars

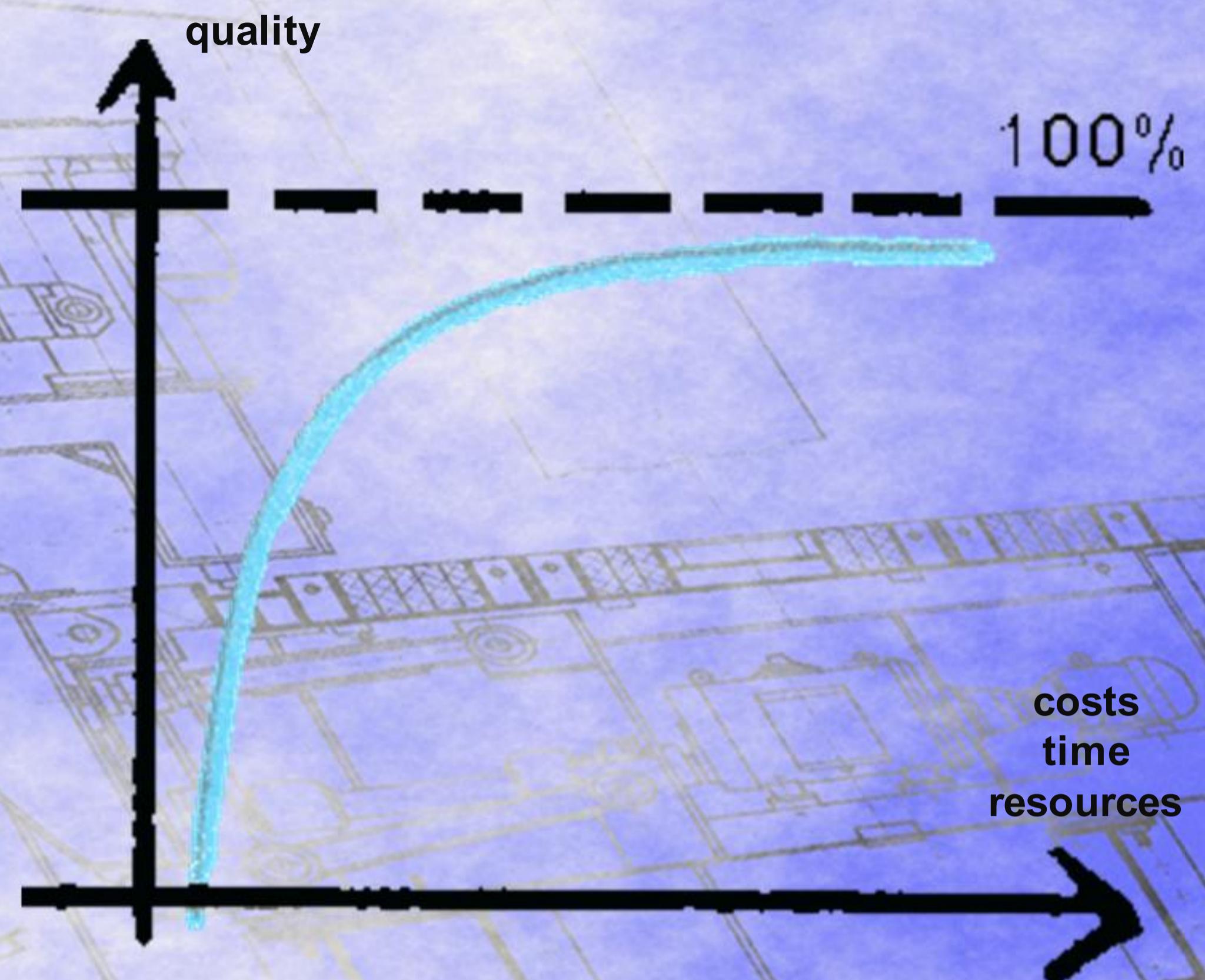
- has too much time to pay attention on his chicken**
- no time to build up his chicken compound**





Process optimization

- new working method
- new processes
 - infrastructure
- new functionalities
- new Software / Tools
 - CAD / CAx / PDM / PLM / ERP

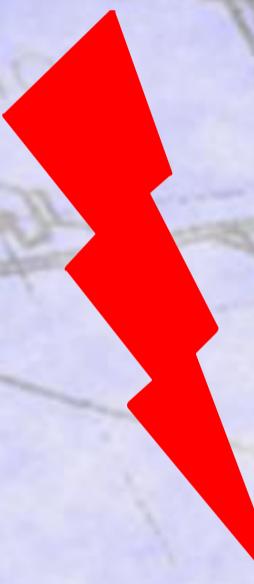


Definition to implement new Requirements

- **new Software requires new implementations**
- **user oriented software / processes**
- **infrastructural requirements**
- **process change**

Special Chapter standard and catalog parts

feasible



essential

Visual
appearance

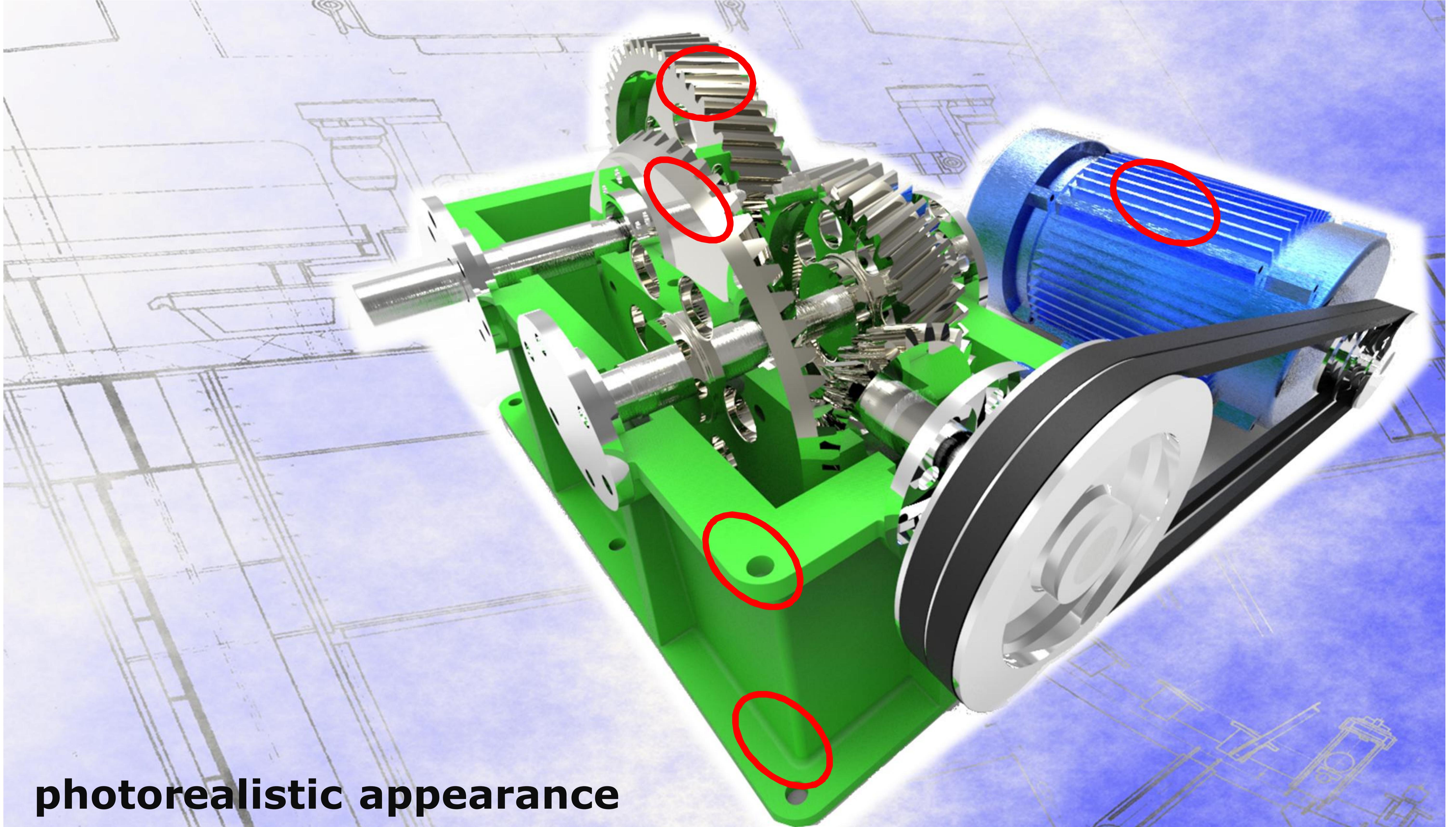


efficiency

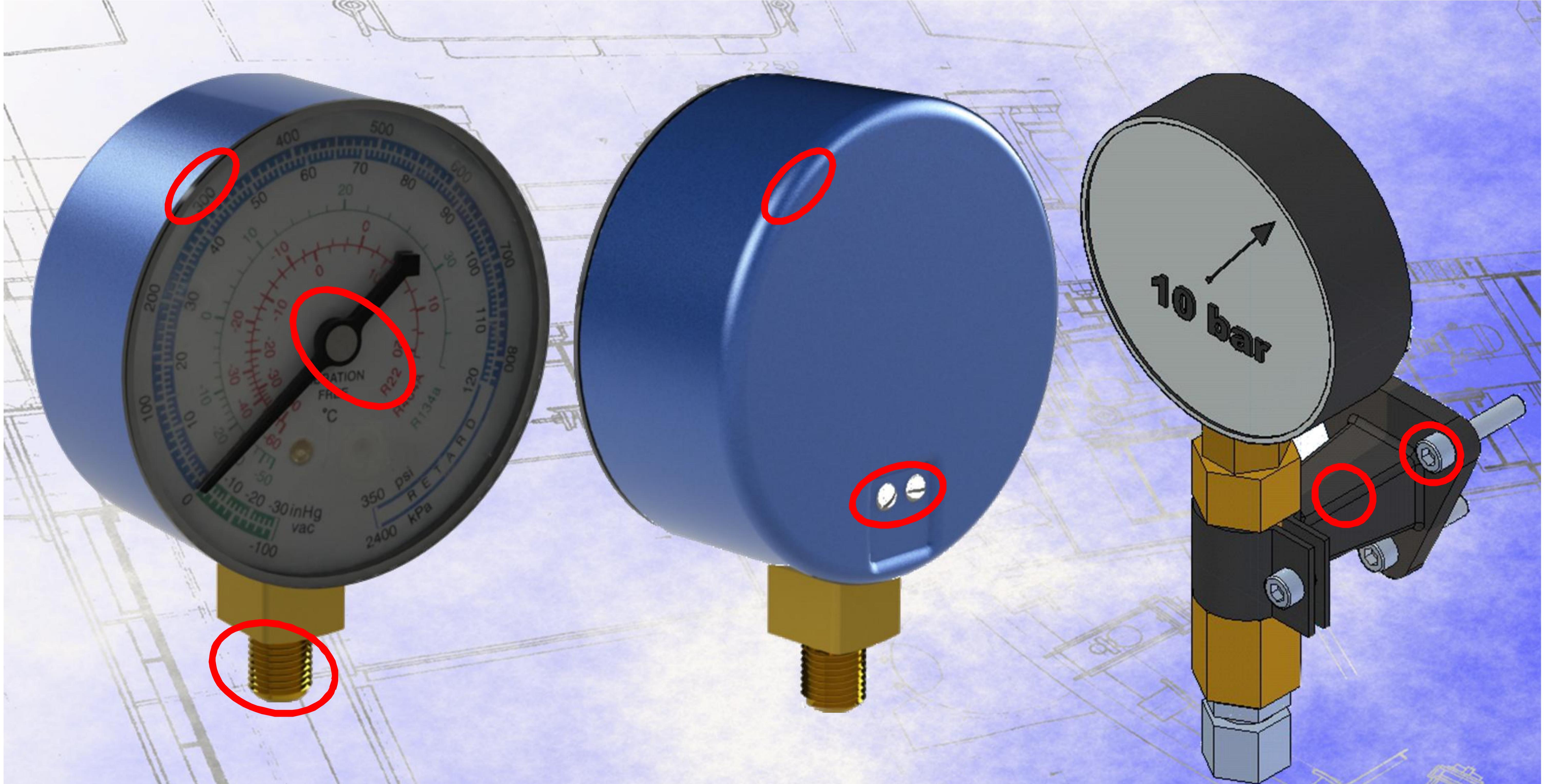
detailed



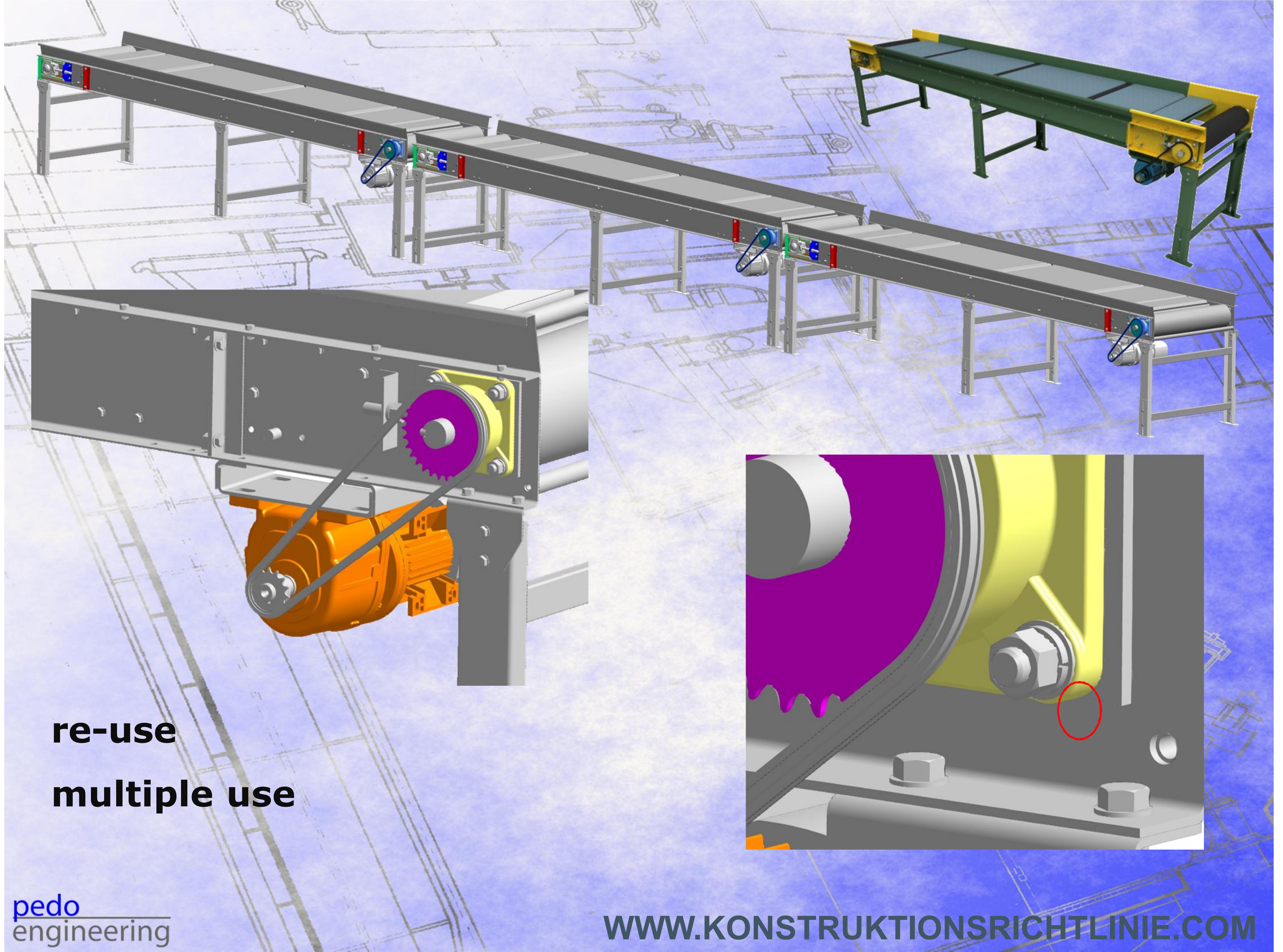
simplified



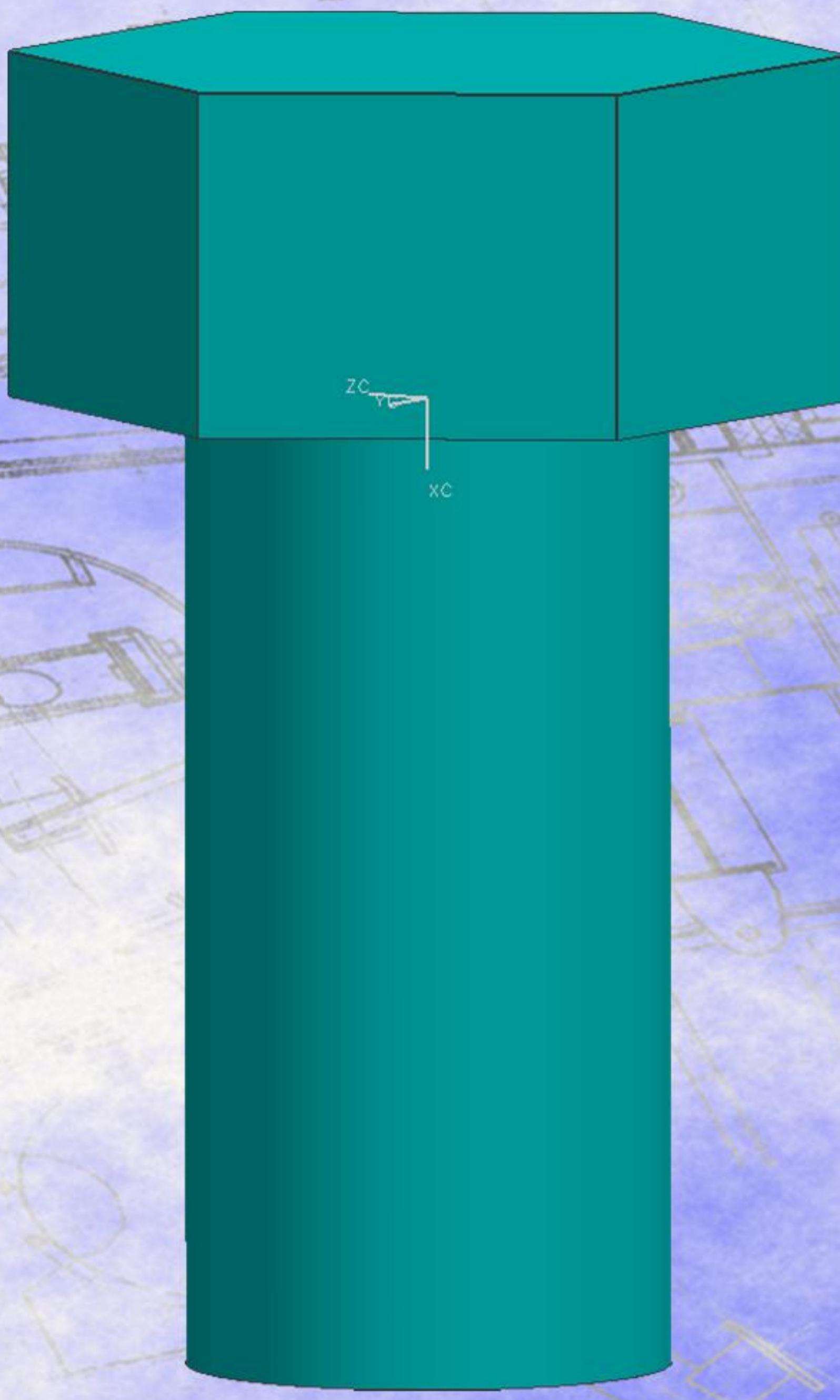
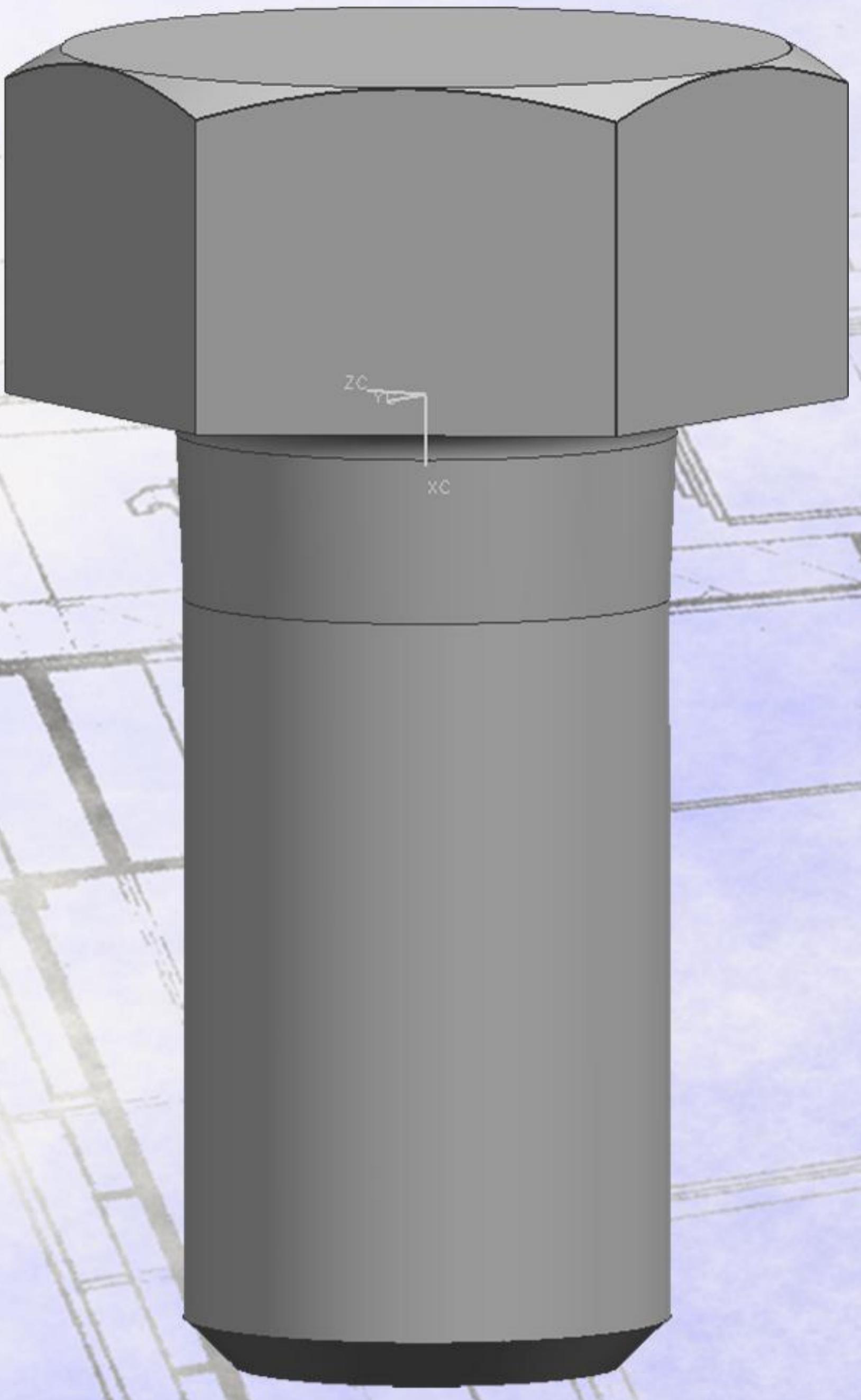
**photorealistic appearance
blends and chamfer
details (cooling rib, tooth, drilled holes)**



**photorealistic appearance
tapped bolt
details (small screws, blends)**



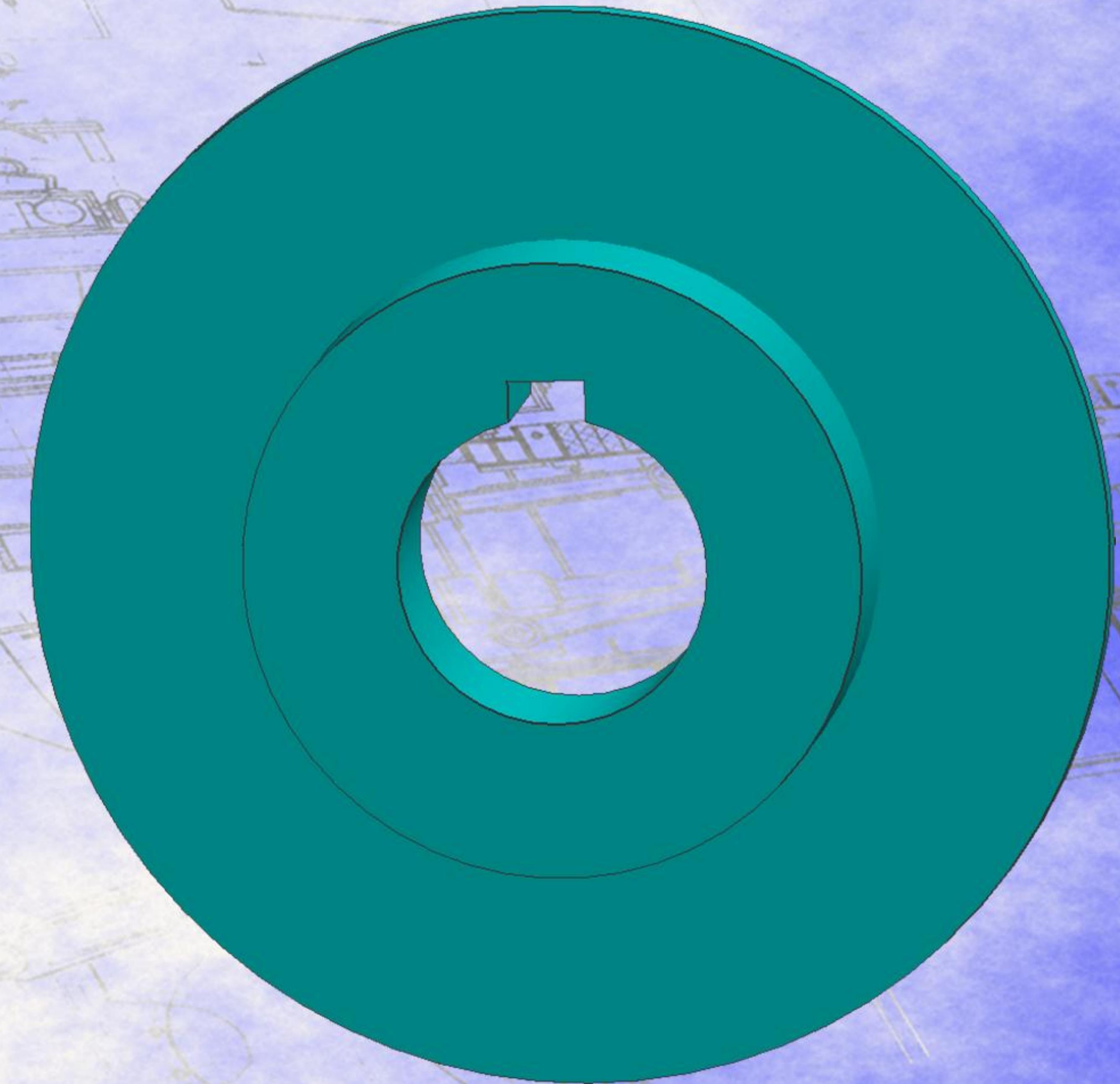
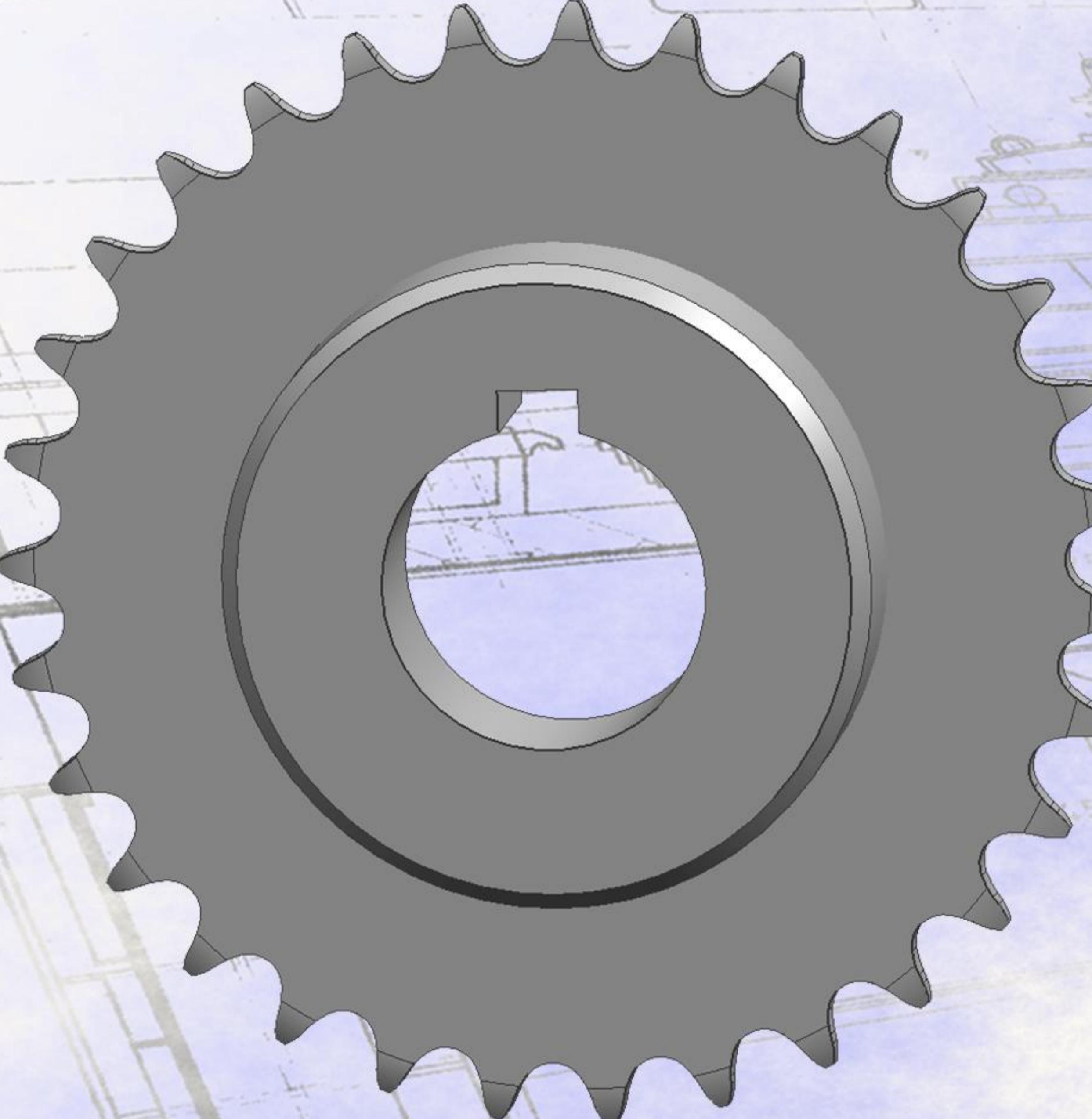
**re-use
multiple use**



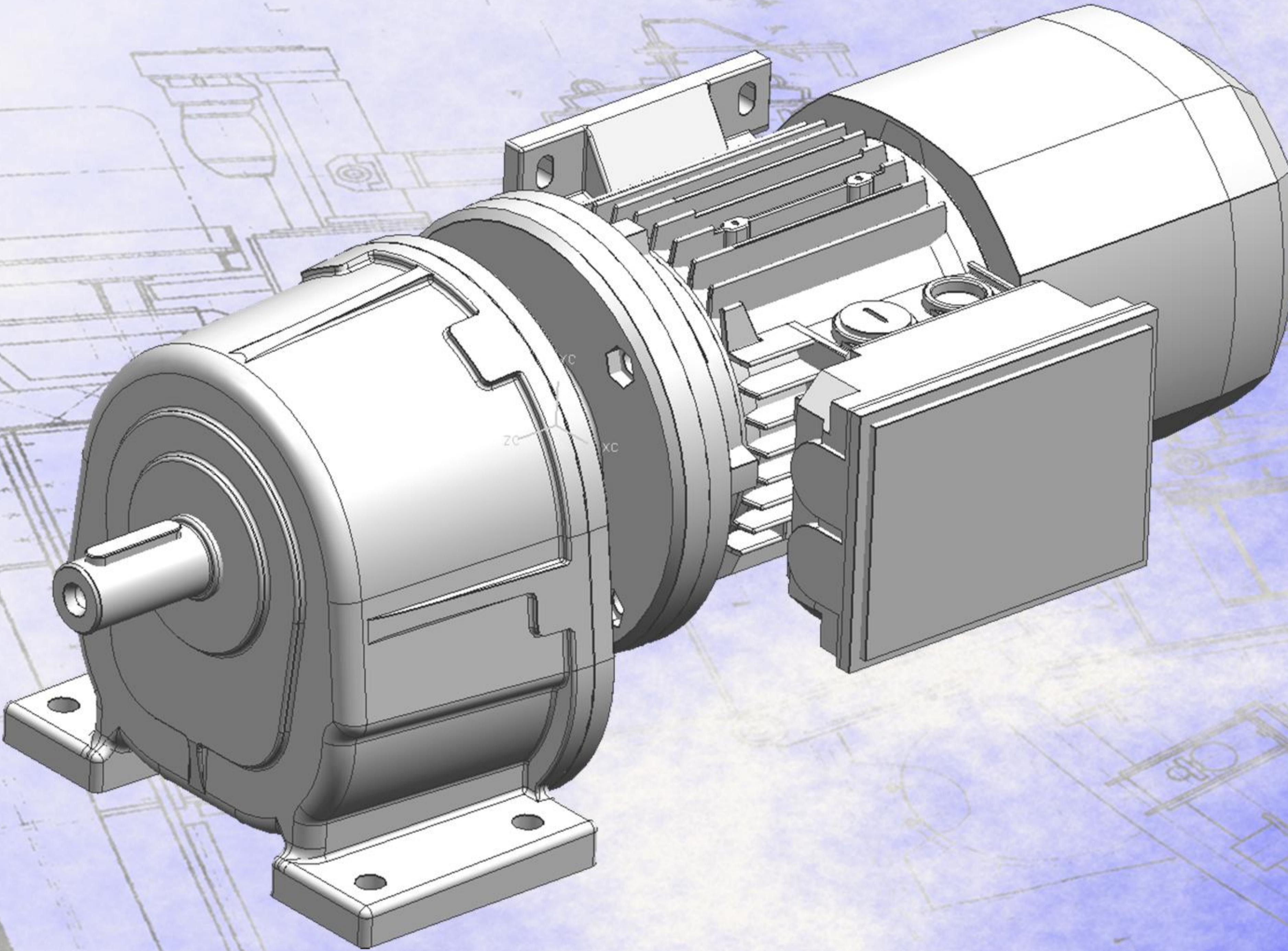
Visualization of hexagon bolt screw

detailed - 26 faces

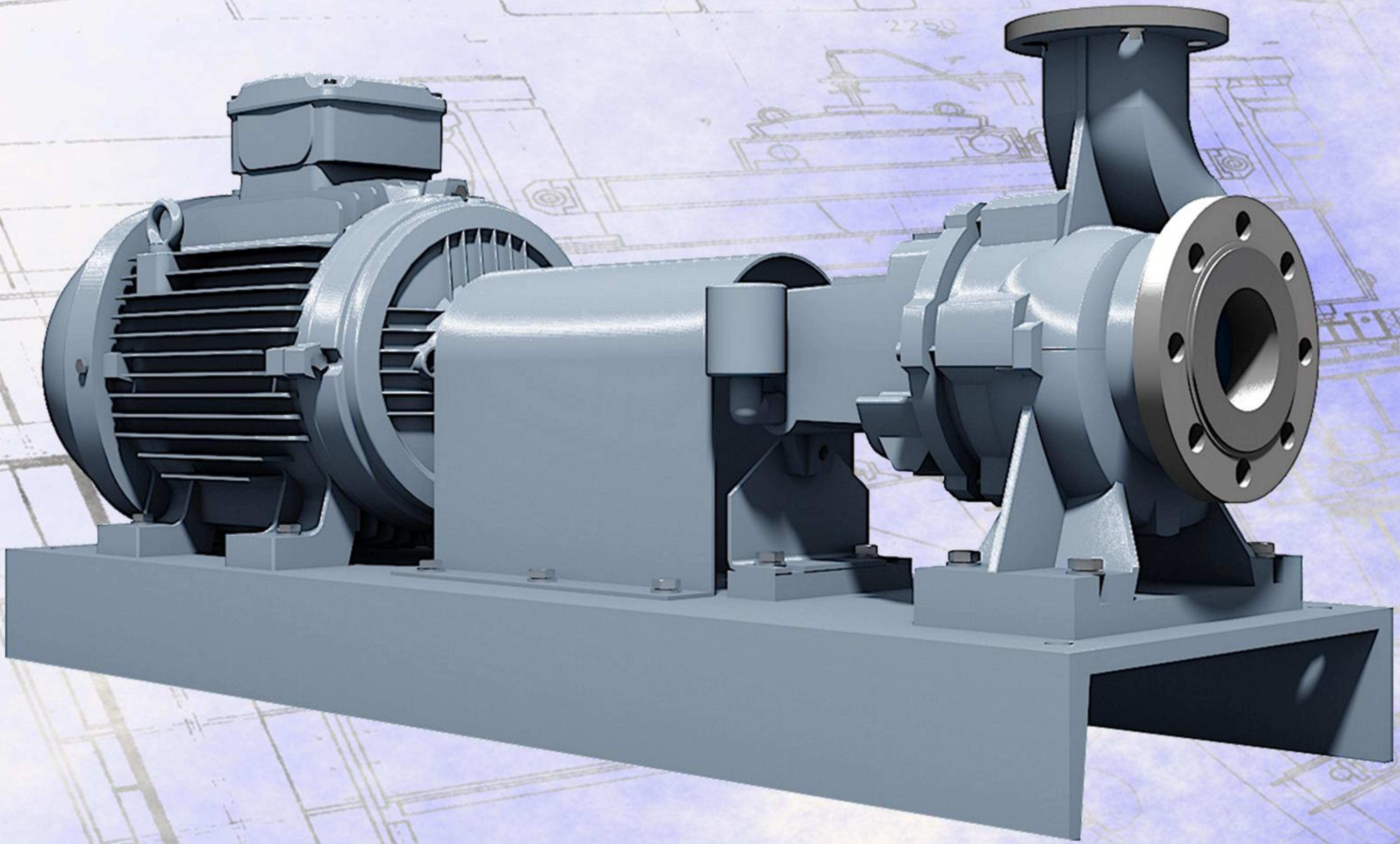
Simplified - 10 faces



Visualization of chain wheel
detailed - 319 faces
simplified - 9 faces

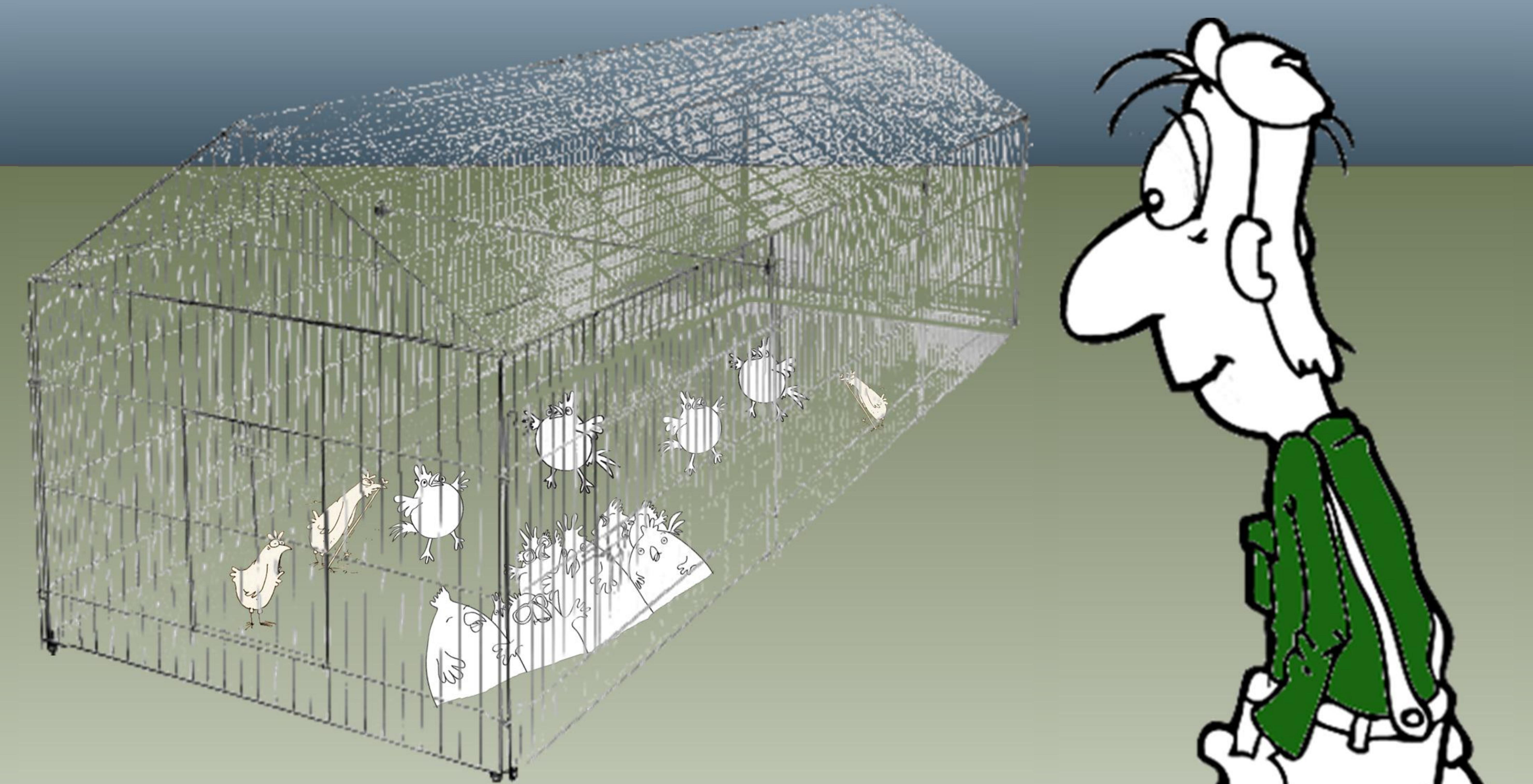


Visualization of gear box motor
detailed - 2348 faces
simplified - ??? faces



Detailed representations are needed for photorealistic appearance .

Simplified representations are needed for reuse and multiple use in large assemblies.



Thank you!





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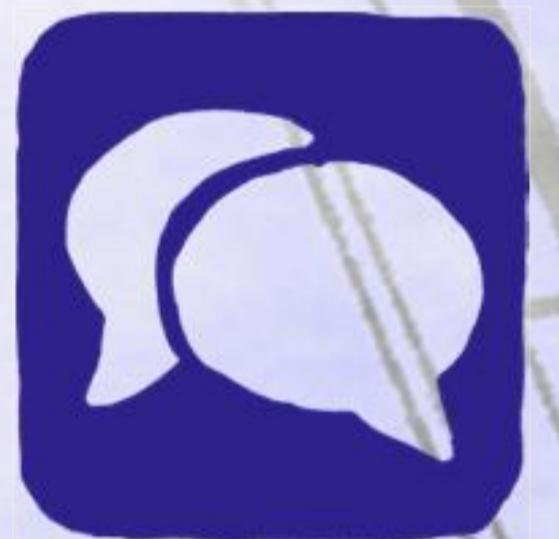
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