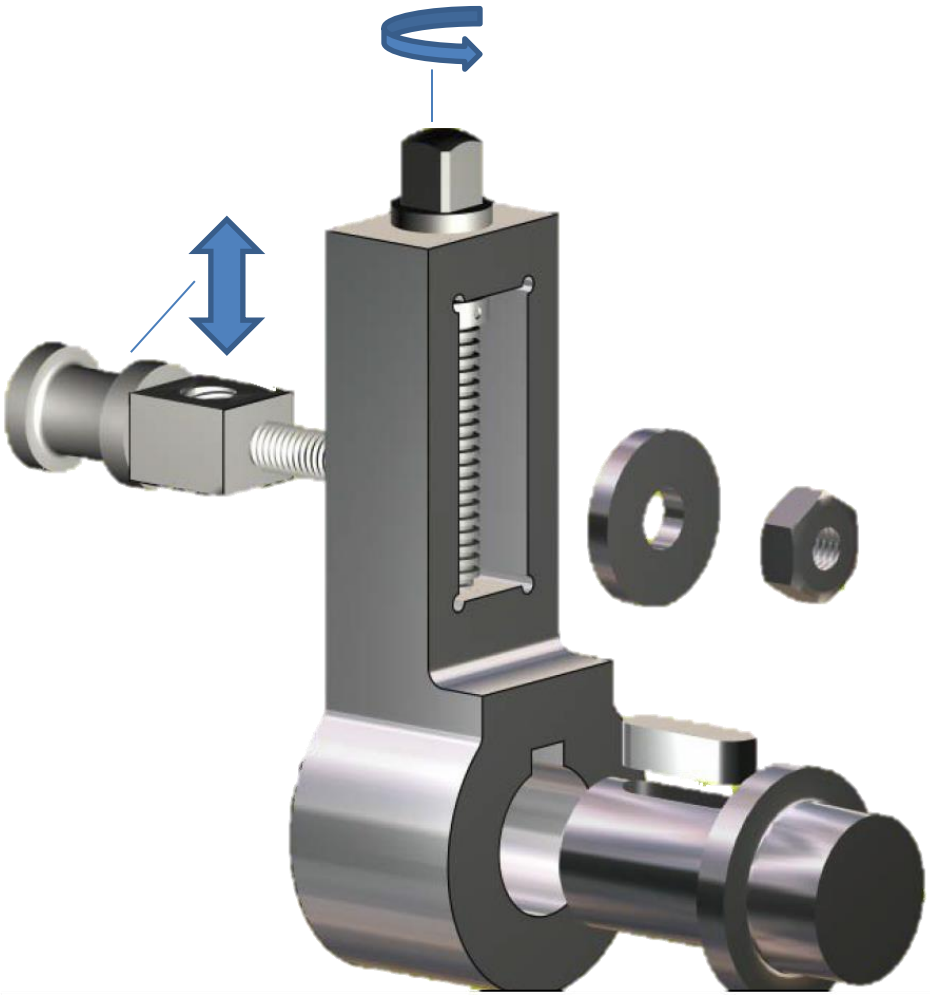
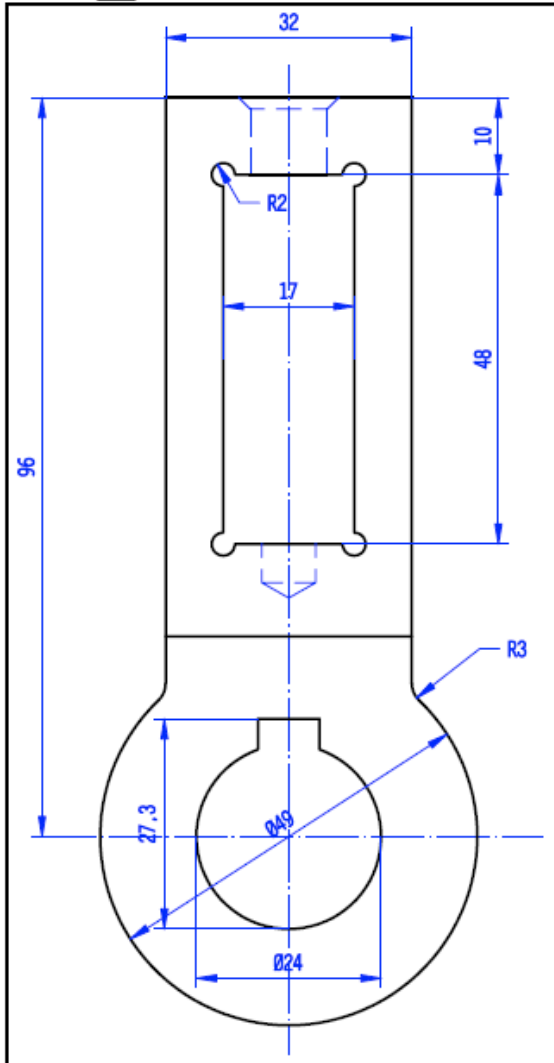
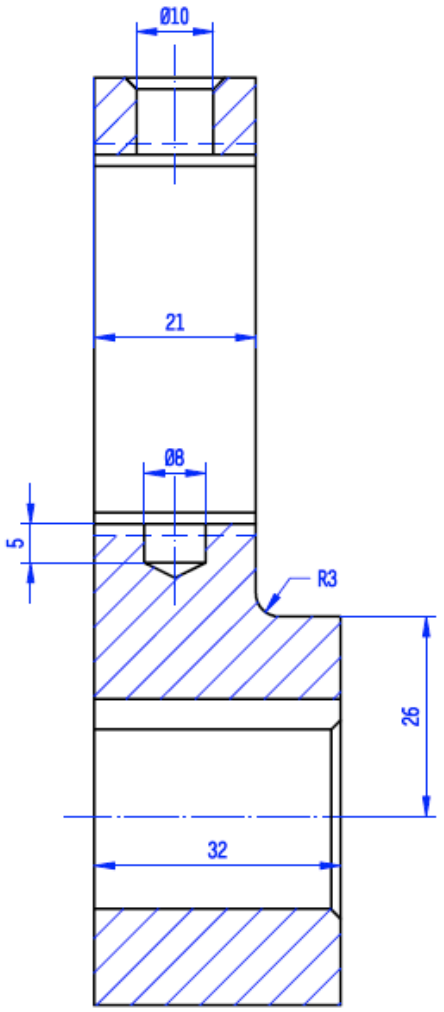
Assignment 13

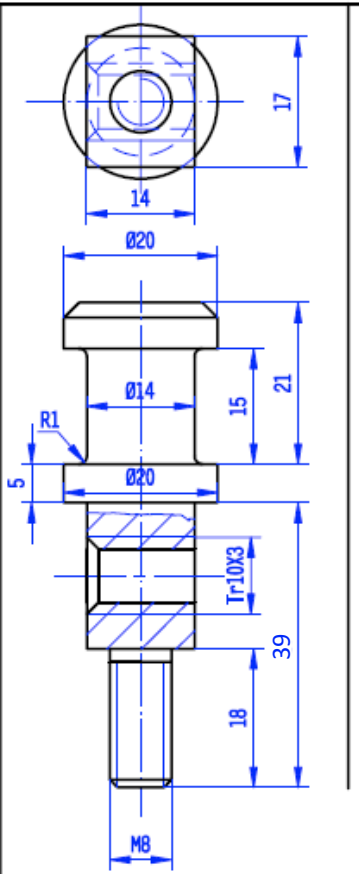
- Task: Create the three-dimensional assembly model and technical drawing of the ADJUSTABLE CRANK. Parts' dimensions are given on the next page.
    - The assembly must be created in a way that when adjusting bolt is rotated, the crack pin must move vertically.
- Files to be delivered:
    - Individual files of all parts used in the assembly (*.SLDPRT)
    - Assembly file (*.SLDASM)
    - Assembly technical drawing file (*.SLDDRW) including bill of materials, balloon numbering and dimensions
- Submission format: All files will be in ONE SINGLE archive file! (file with *.zip or *.rar extension)
- Folder name in ZIP file: " A13_Surname_NameInitials_StudentNo"
- Evaluation Criteria:
    - Use of mechanical mate,
    - Creating exploded view,
    - Rules of 2D assembly drawing,
    - Use machine symbols where appropriate
    - Show Fit Tolerance on Shaft-Body connection on assembly.
    - Write general notes for dimension tolerancing
    - Use geometric tolerancing where appropriate
    - BOM and numbering,
    - Ability to fit the views into the frame in the given template (enlargement or reduction scaling if necessary, to use the paper area efficiently),
    - Proper alignment of views within the frame and their placement in accordance with the described rules.



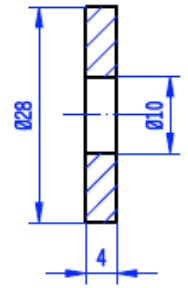


1. Body

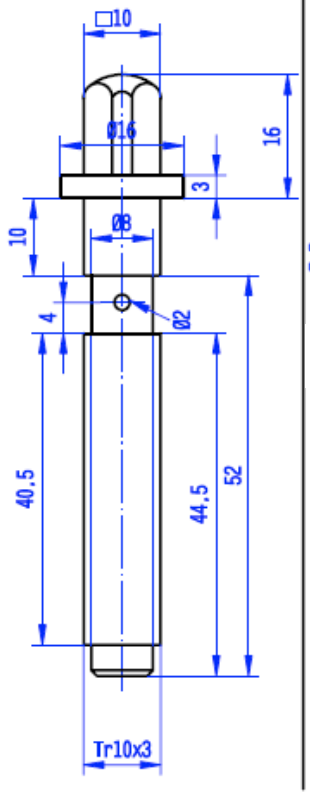




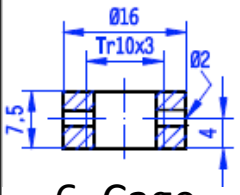
2. Crack Pin



3. Custom Washer



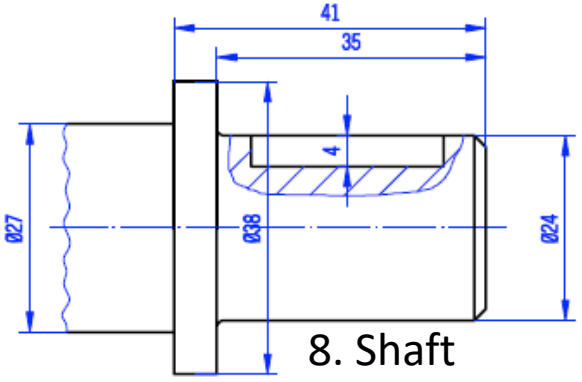
5. Adjusting Bolt



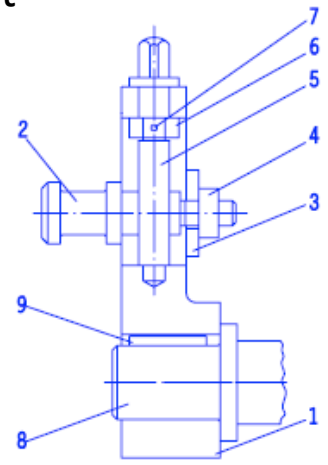
6. Cage Nut

Tr10x3 can be taken as M10x1.25

4.Hex nut
7.Pin
9.Key A (8x5x25)



8. Shaft



Left view

NOTE: **Choose appropriate values for missing dimensions** to create correct and visually similar assembly model to the figure on the right.