



The following design tasks have been assigned to your company:

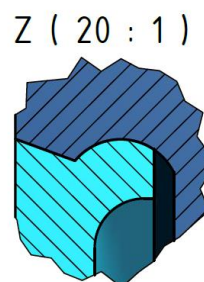
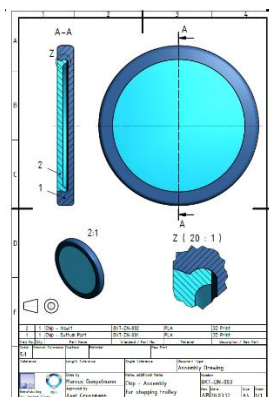
**Design the assembly module in the middle of the assembly station and the related pusher for the bottom part, the pusher for the insert, the pusher for the assembly process and the final pusher, which moves the completed chip to the slide. Also you have to design the brackets for the pneumatic cylinder for the 4<sup>th</sup> and 5<sup>th</sup> step.**

The following documents will be provided together with this student learning module:

- Drawing: VET4.0-08 Chip – Assembly
- Drawing: VET4.0-08-01 Chip – Bottom Part
- Drawing: VET4.0-08-02 Chip – Insert
- Drawing: VET4.0-07 Pneumatic Cylinder
- Drawing: VET4.0-09-01 agreed dimension page 1
- Drawing: VET4.0-09-01 agreed dimension page 2
- Drawing: VET4.0-05 Base plate
- STL-model: VET4.0-08-01 Chip – Bottom Part
- STL-model: VET4.0-08-02 Chip – Insert
- Drawing template

You must create and deliver the following documents:

- The specification sheet of the complete assembly module
- A timeline of your design process
- 3 sketches of different ideas for the assembly module
- 3D-models and drawings of all the components you have designed
- 3D-model and drawing of the assembly, together with the related parts list
- A presentation for your international co-designers to explain your solution and to highlight the advantages and disadvantages of your design
- A documentation of app. 10 pages to show your design process and to describe your design solutions





# Trolley chip assembly station

## Student Learning Module: Design 1

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