



***10, Generation of 3D model of Front-End Plate***

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***Intellectual Output:* 4 -** Construction of Machine Parts

***Exercise number:*** 10

***Title*:** Generation of 3D model of Front-End Plate

**Description**: A working drawing and a 3D model of a machine part are given. Visualize clearly the purpose of part and it's way of functioning. Explore thoroughly the shape and clearances of the part, it’s external and internal features. Identify the shape and size of each geometric primitive of the part to define it's 3D model.

Construct:

3D model of the part using CAD software, e.g. SolidWorks, Solid Edge, Inventor, etc.

**Digital files:**

IO4-10-a.pdf: Working drawing of Front-End Plate

IO4-10-b.stl: 3D model of Front-End Plate

IO4-10-c.stl: 3D model of Front-End Plate with cut out

***Result:***

3D model of Front-End Plate

***Prior knowledge:*** Reading of mechanical drawings, basic knowledge of CAD software use

***Augmented reality content:*** 3D model with the solution of the exercise. 3D model of the part with cut out.

