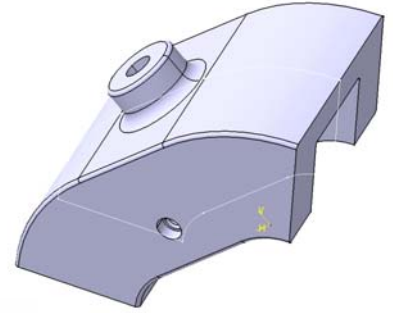


# Exercise: Jaw

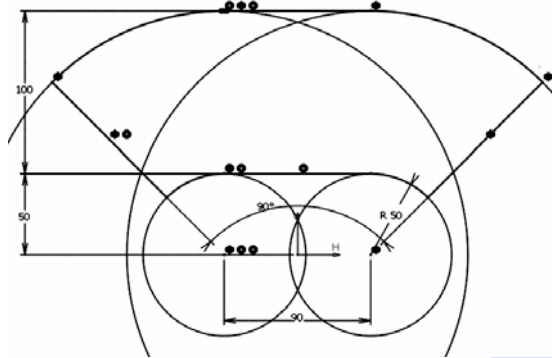
**Purpose** :create a groove

**Functions used** :Extrusion, Slot, Hole, Fillet, Chamfer.



## 1. Base extrusion

Draw contour by symmetry  
Extrude symmetrically.  
(Symmetric extension checked)



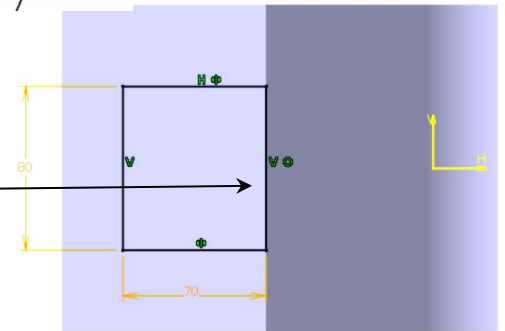
## 2. Creating a Groove

A groove is defined by a **profile** who travels a **guide line**.

- Trace of **profile** of the groove:

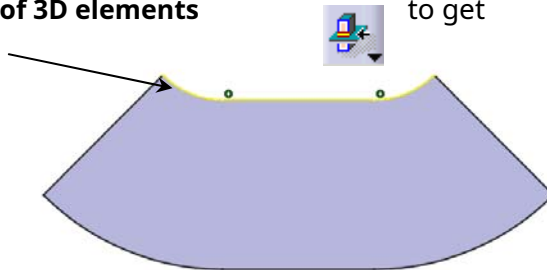
On one of the two faces at 45° draw a rectangular sketch of 70 by 80 mm symmetrical with respect to the mark.

The right vertical line coincides with the edge.

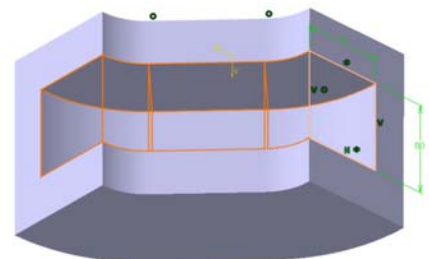
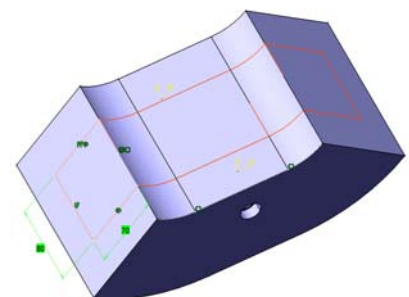
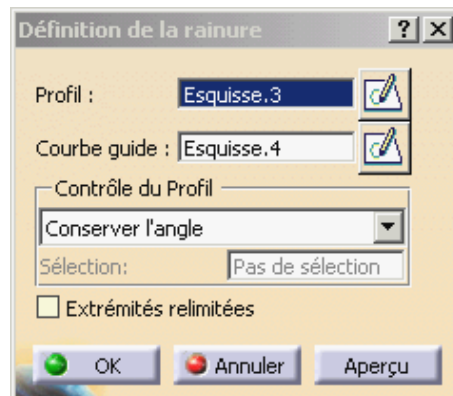


- Plot of the **guide line** which defines the path of the section:  
Open a sketch in the midplane or on a side face. Utilize **the intersection of 3D elements** to get

the guide line.



- Make the groove



## 3. Extrude the cylindrical boss

4. Make the 2 counterbored holes



5. Place the 3 mm fillet on the 7 edges (5 ext. and 2 int.) with a propagation by tangency.

6. Put the chamfer of 2mm on the 2 edges of the counterbored holes.

