

Microblock reducer

Purpose :

With the CATIA V5 software and the file: **Raw microblock reducer** corresponding to the part from the foundry, carry out the operations which will make it possible to obtain the machined part.

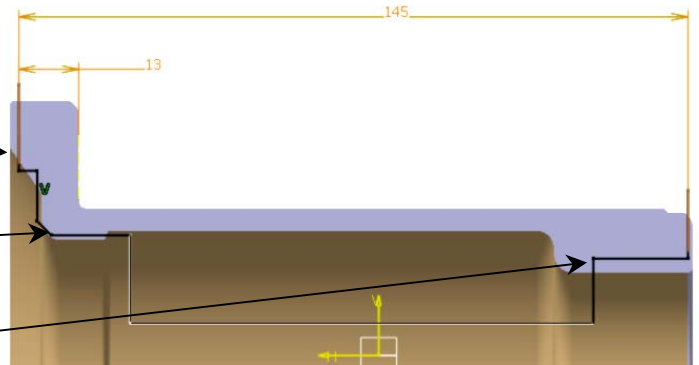
Realization of the different machinings

1. In the upper part, it is a question of carrying out with a single operation:

- support and centering of the motor flange on a $\varnothing 80$ deep 4mm.

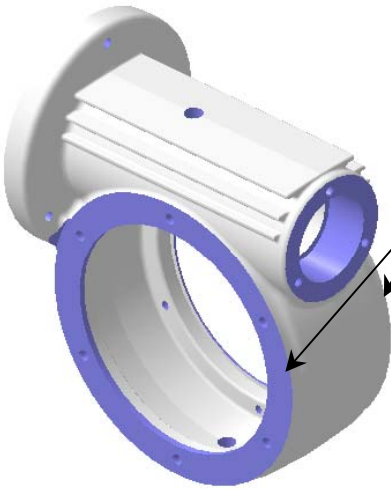
The thickness of the material remaining at the level of the centering will be 13 mm (balancing of the blank).

- the centering surface of the lip seal of $\varnothing 52$ with a bevel of 3 to 45°
- the total length 145 mm
- bearing bore $\varnothing 42$ over a length of 20.5mm



2. With new operations, achieve:

- The **cover attachment 30** by 3 M5 screws on $\varnothing 50$ (drilling length 14 mm tapping length 11 mm)
- The **motor mounting flange** with 3 M6 screws in countersunk tapped holes $\varnothing 8$ depth 2mm spread over a $\varnothing 94$.



3. In the central part carry out with a single operation:

- the support of flanges 15 and 11 63 mm apart and located 65 mm from the axis of the previous machining
- the gasket groove $\varnothing 118$ depth 1.8mm.

4. With new operations, achieve:

- the fixing of the flange 15 by 3 screws M 5 on placed on a $\varnothing 128$
- Note : check the box **Keep specs** for the other holes to go through while the thickness is larger. Until the next is applied.
- the fixing of the flange 11 by 6 M5 studs also placed on a $\varnothing 128$.

5. Add fill and drain ports.

Show the tree only one level.

Expand: View, Tree, Open First Level

Apply a material:

Click on the icon: Apply materials



and take: **Aluminum**

To display this texture, it is necessary to activate this display style:

Drop down the menu **Display**, click on **Render style** then on

Customizing the render style and activate the box **Realistic rendering** and **Materials**, end with **ok**.

