

# Robot Dynamics & Control

a.a. 2021/22

## Introduction to Assignment 1

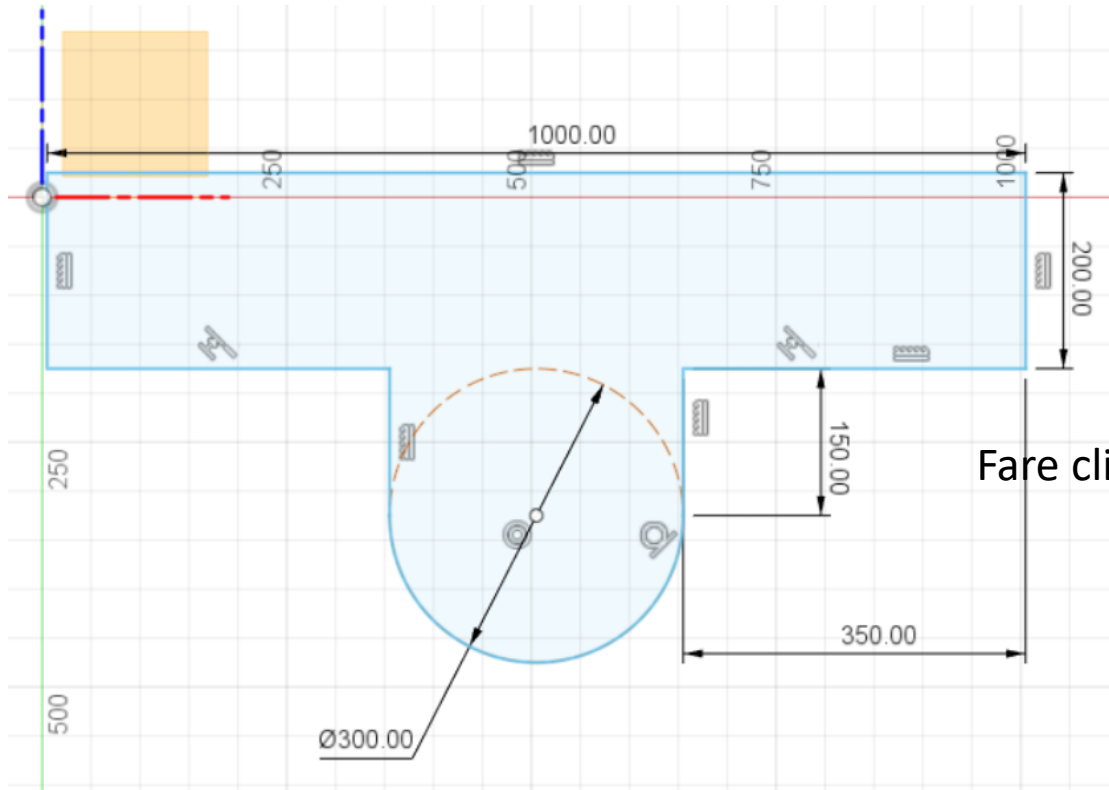
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## CAD Parameters

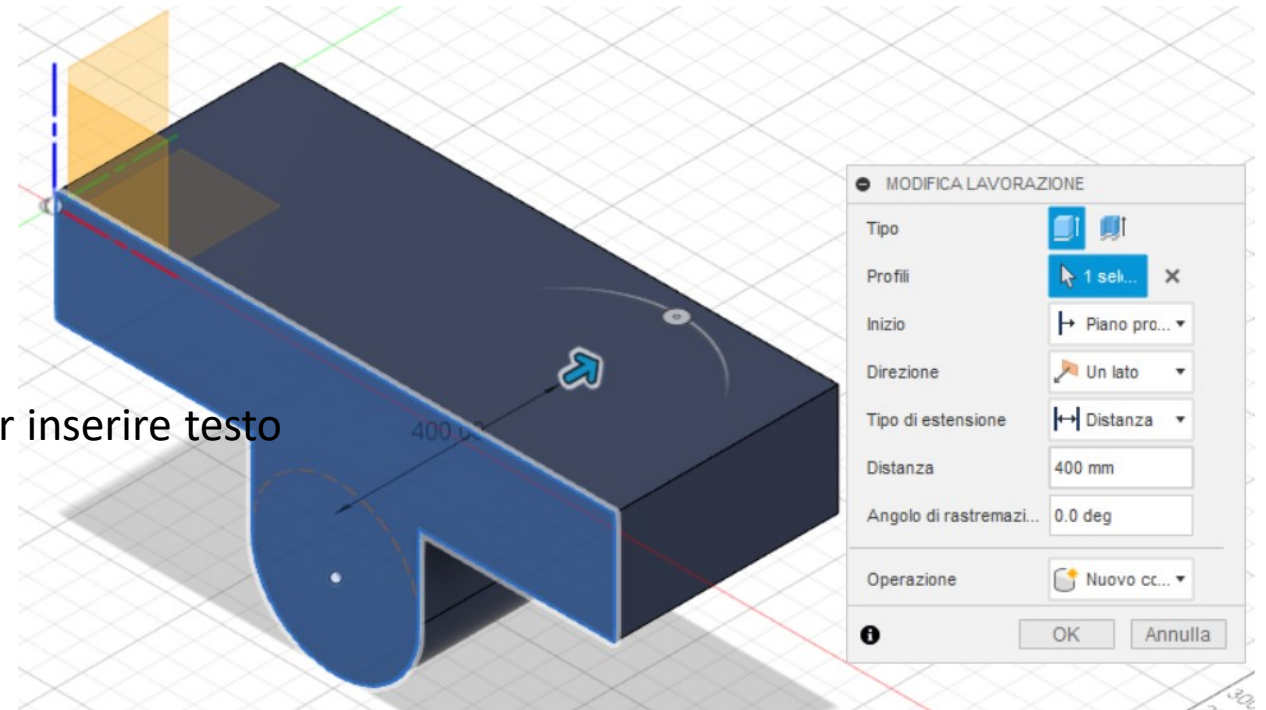


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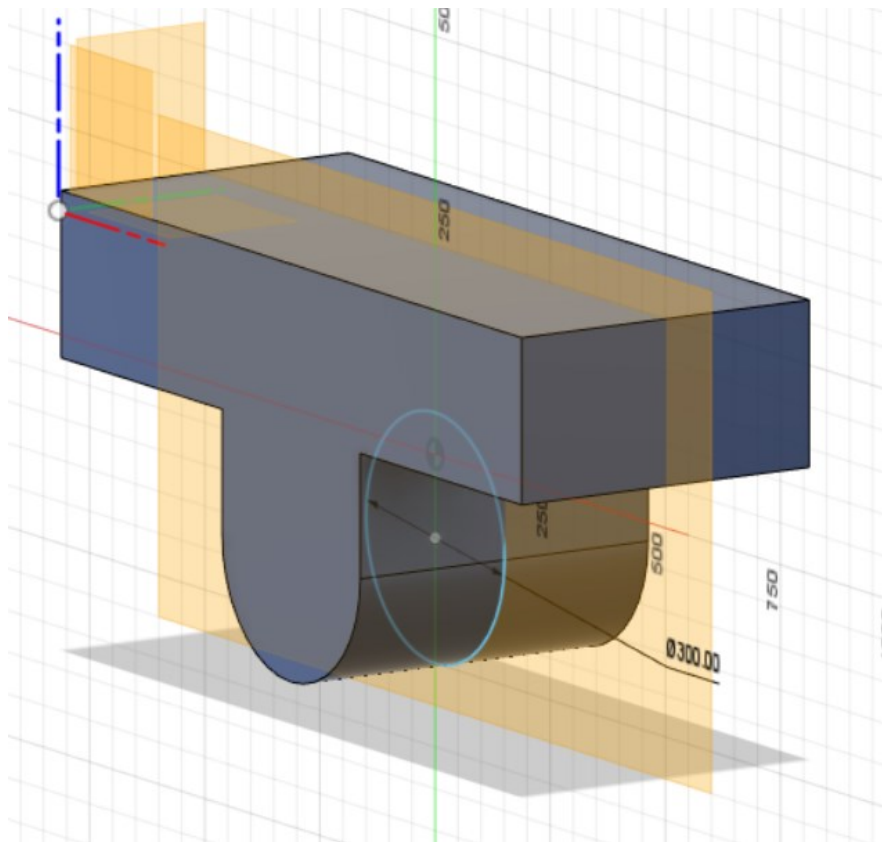
# 1. Basis



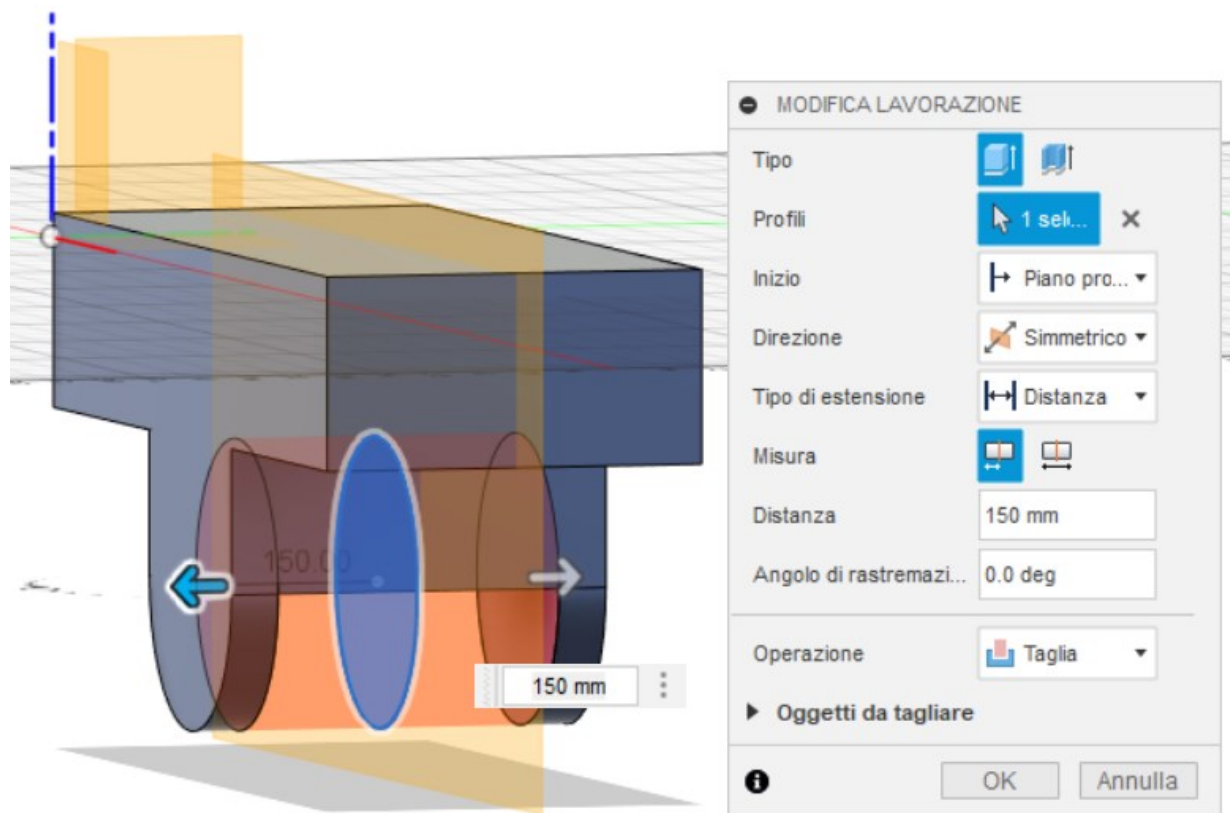
Schetch 1



Extrusion 1



Schetch 2 (in the middle plane)

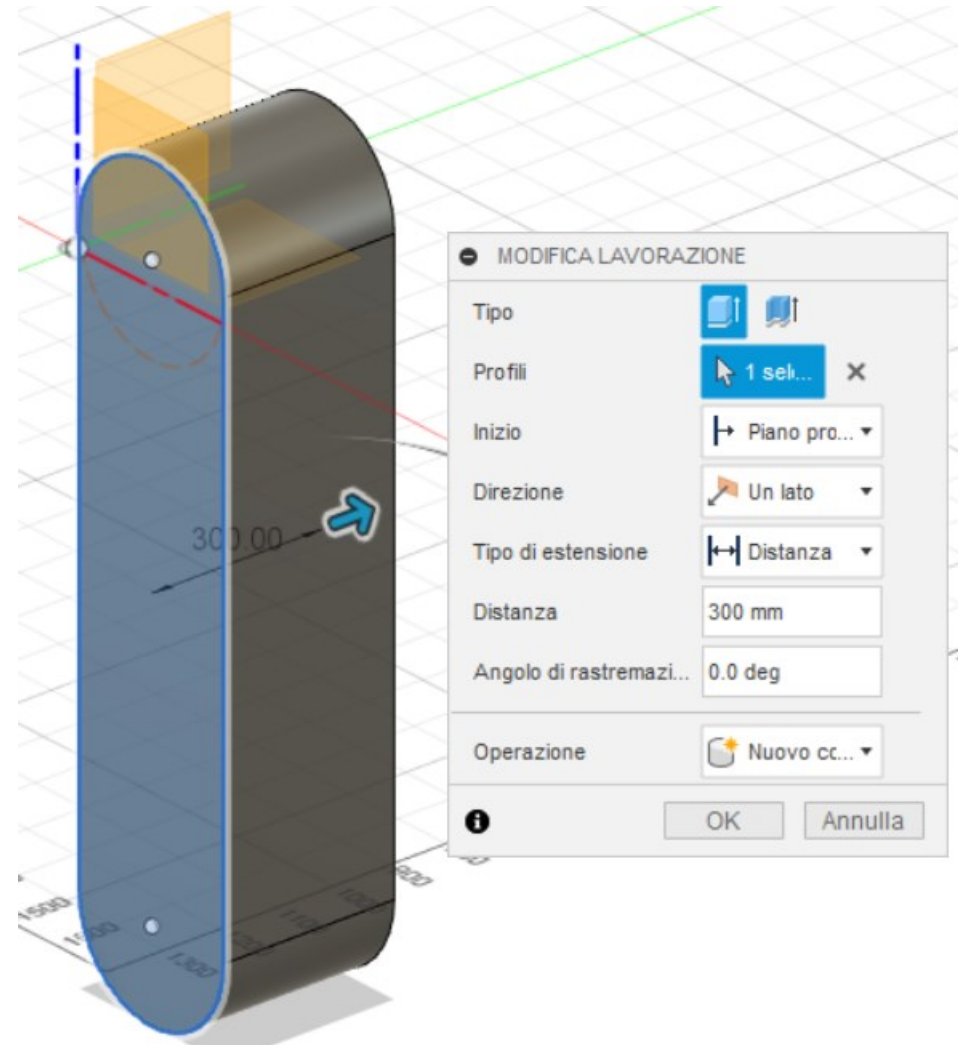


Symmetrical Extrusion

## 2. Link1

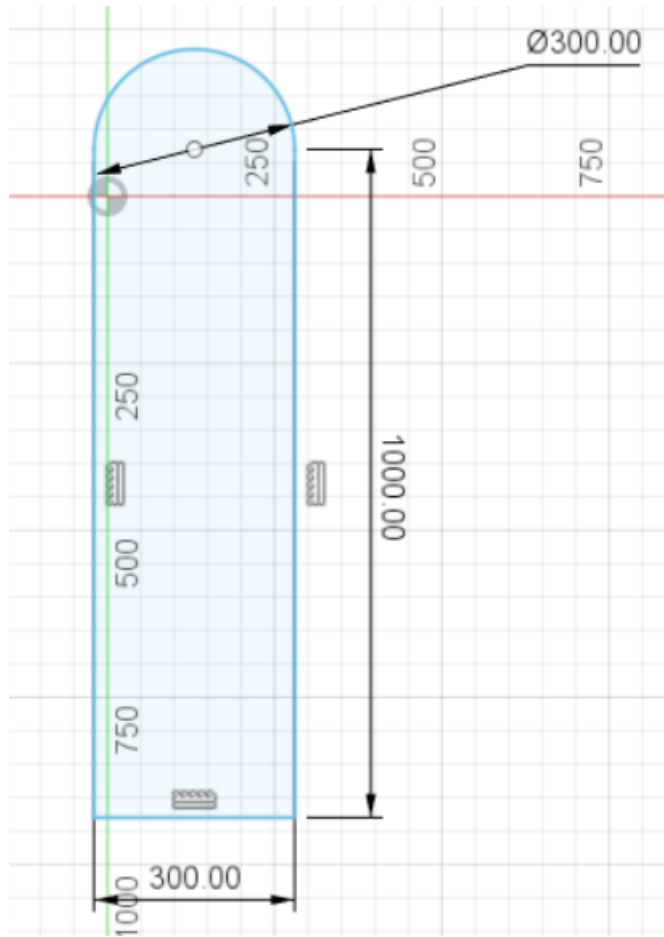


Schetch

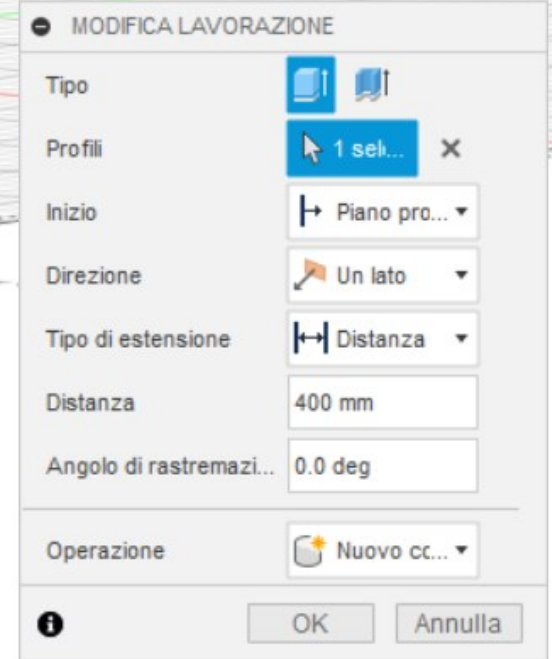
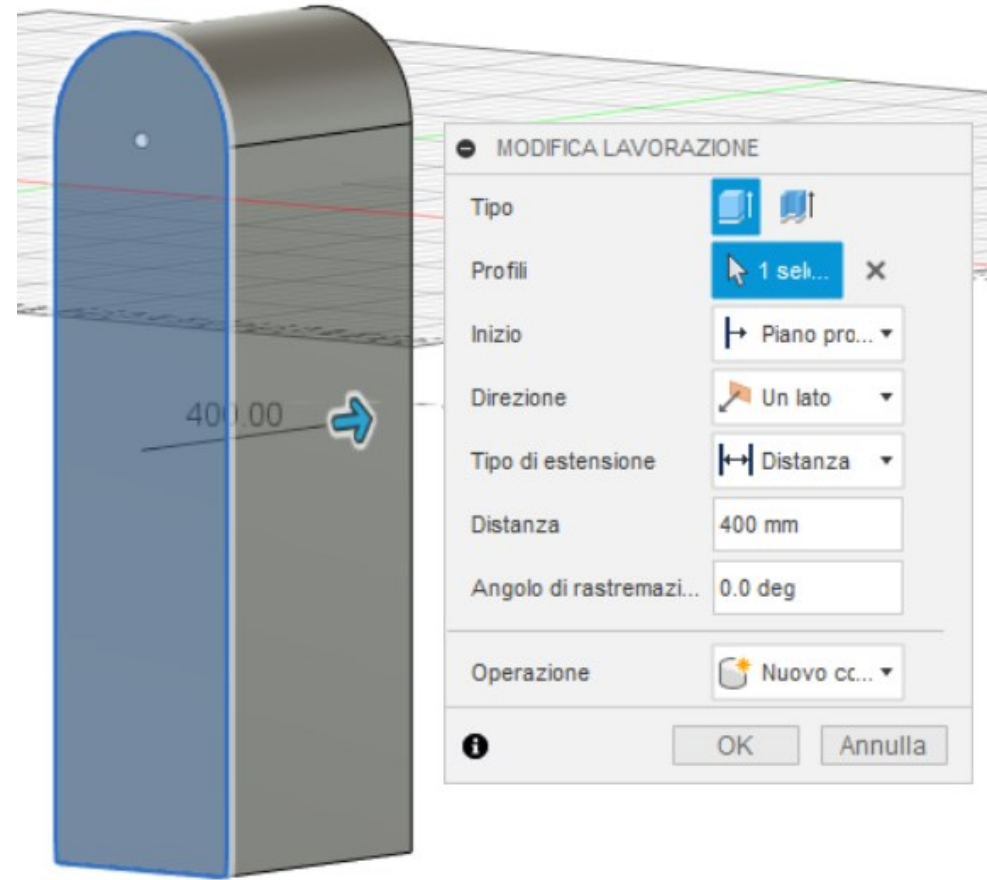


Extrusion

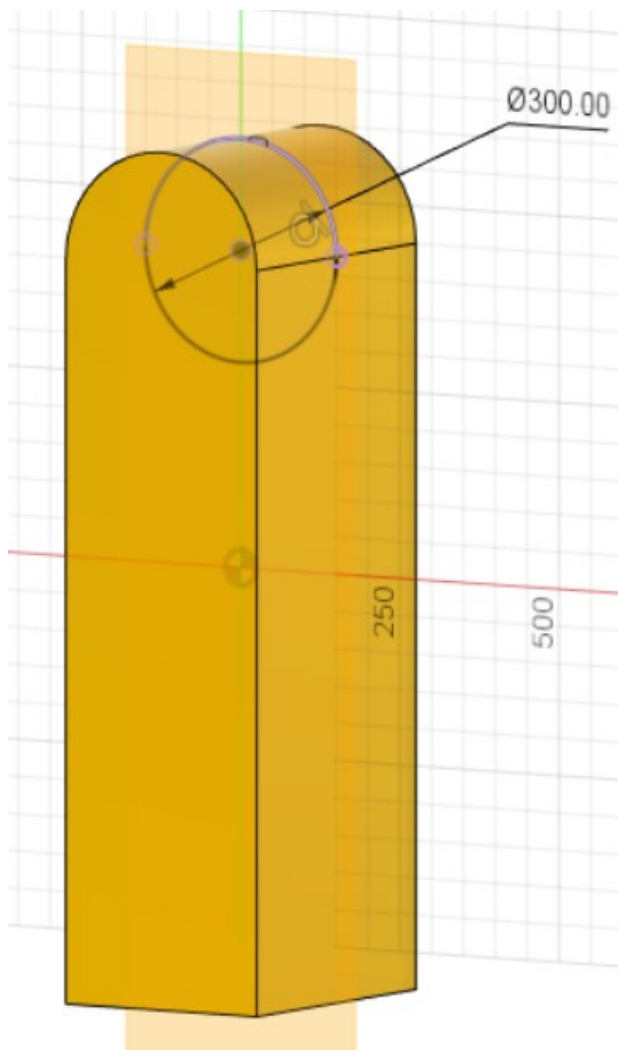
### 3. Link2



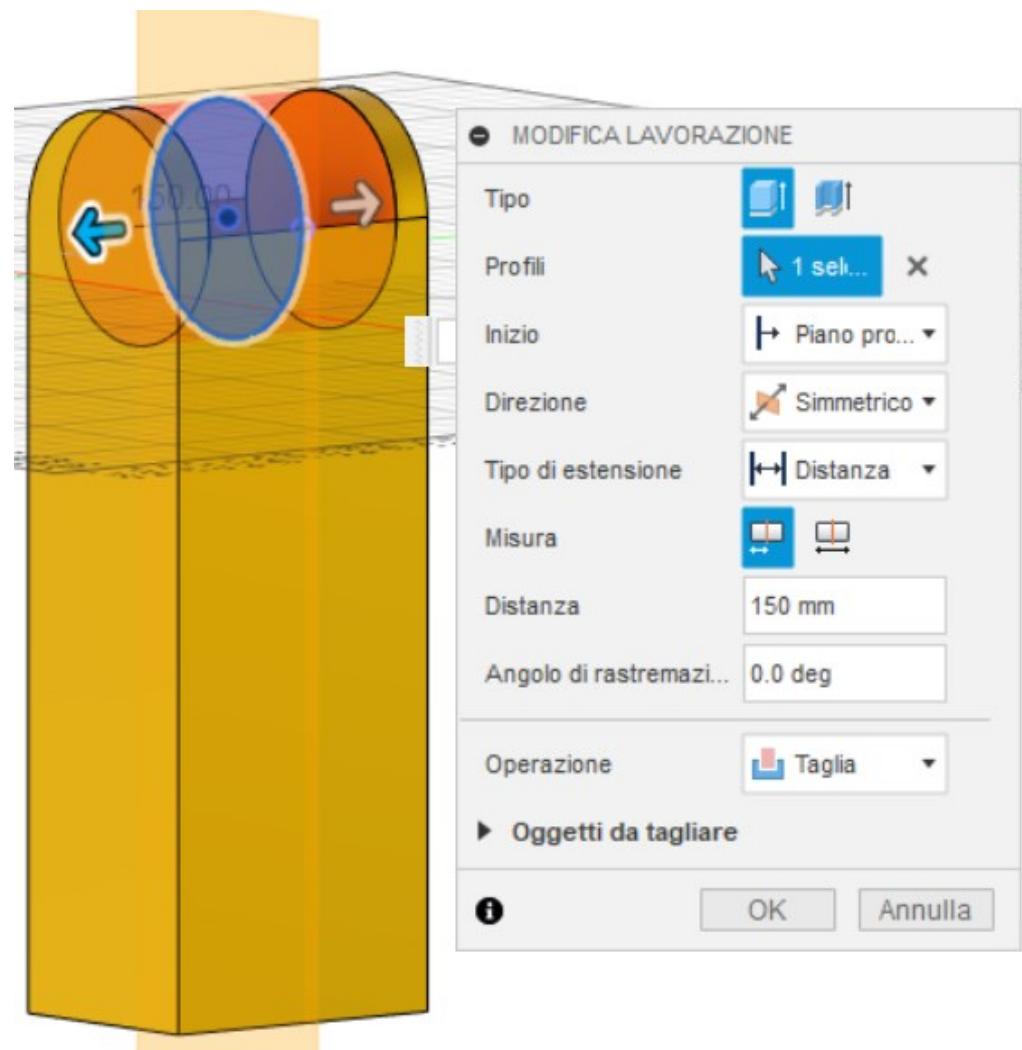
Schetch 1



Extrusion 1



Schetch 2 (in the middle plane)



Symmetrical Extrusion

**MODIFICA LAVORAZIONE**

Tipo

Profili 1 sel...

Inizio Piano pro... ▾

Direzione Simmetrico ▾

Tipo di estensione Distanza ▾

Misura

Distanza

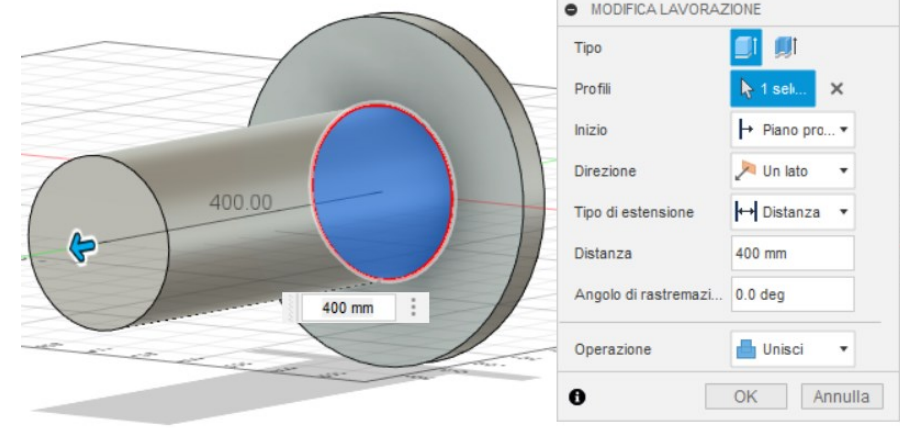
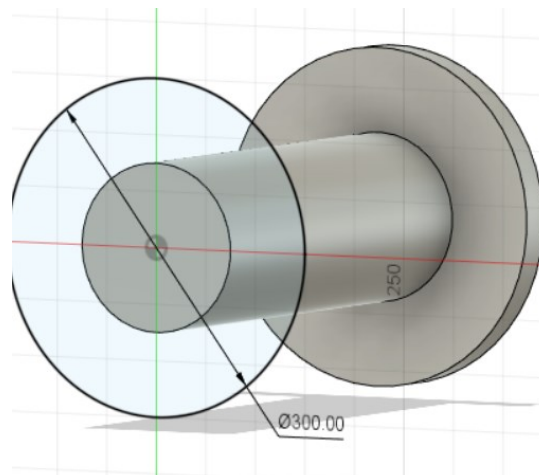
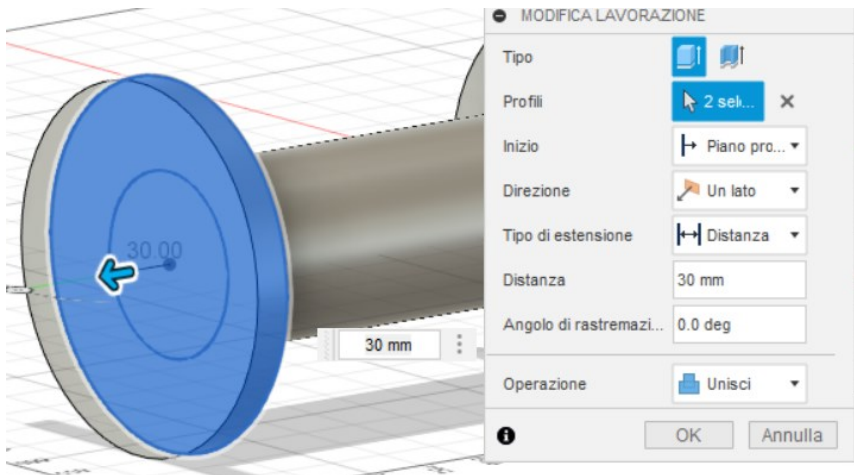
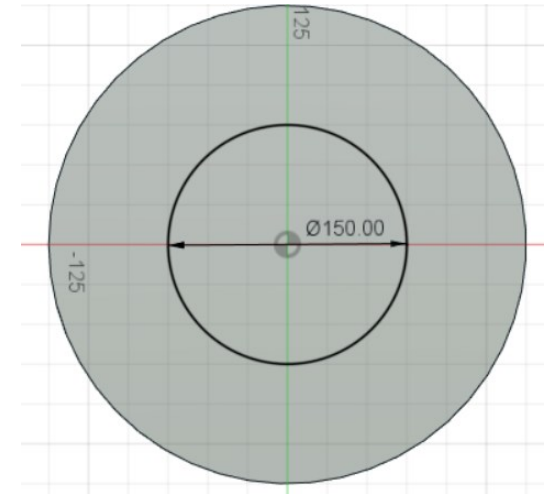
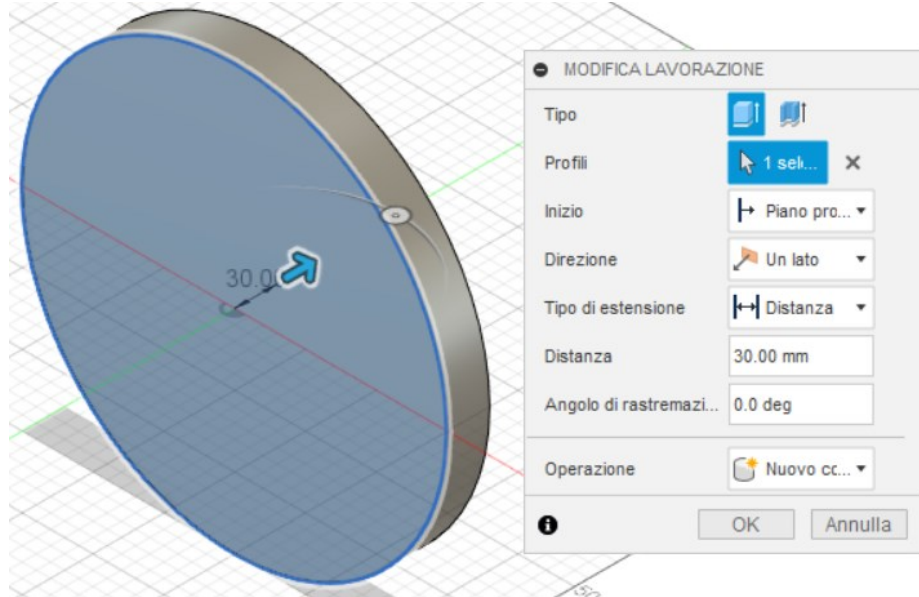
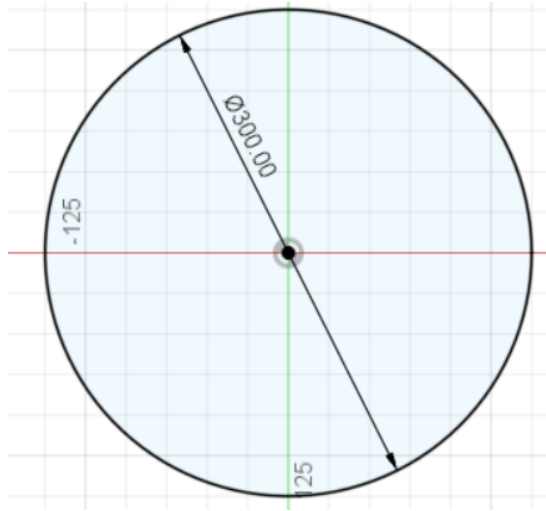
Angolo di rastremazi...

Operazione Taglia ▾

► Oggetti da tagliare



## 4. Motor



# Other Requirements

- All the components (Basis, Link1, Link2, Motors) have STEEL as material;
- The motors have to be 2: one between the basis and the link1 and the second between the link1 and link2;
- The first motor has to be fixed to the link1 and they both rotate with respect to the basis (creation of rigid joint between motor and link1);
- The second motor has to be fixed to the link2 and they both rotate with respect to the link1;
- Create through holes in all the components for the insertion of the motors: in the sketches, the circles have a diameter of 150mm and their center have the same position of those of the previous sketches.



# Final Result

