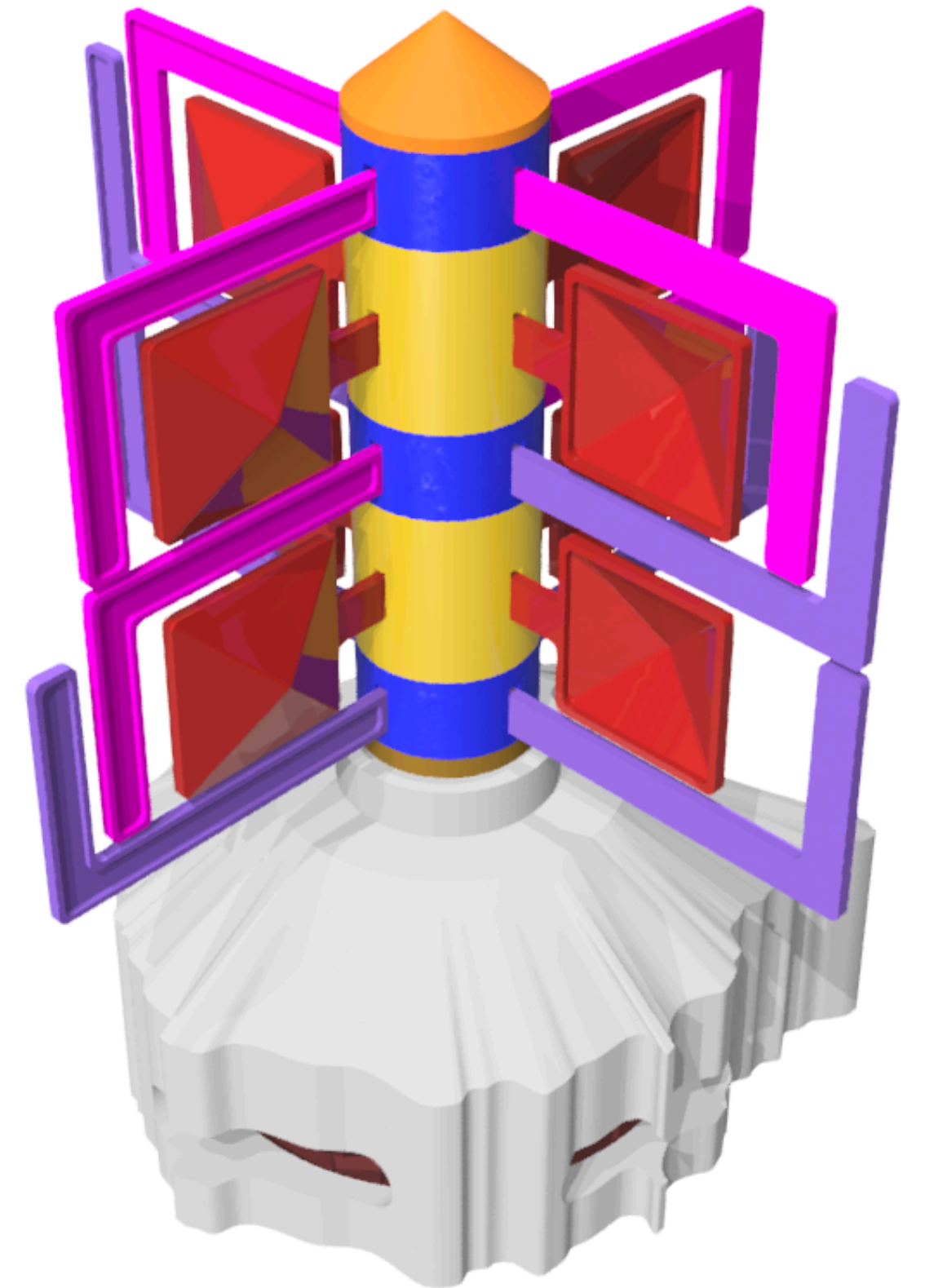


Proyecto ERASMUS +  
**EDUDEMOS**

**EDU**cating through  
Sustainable **DEMO**nstrators

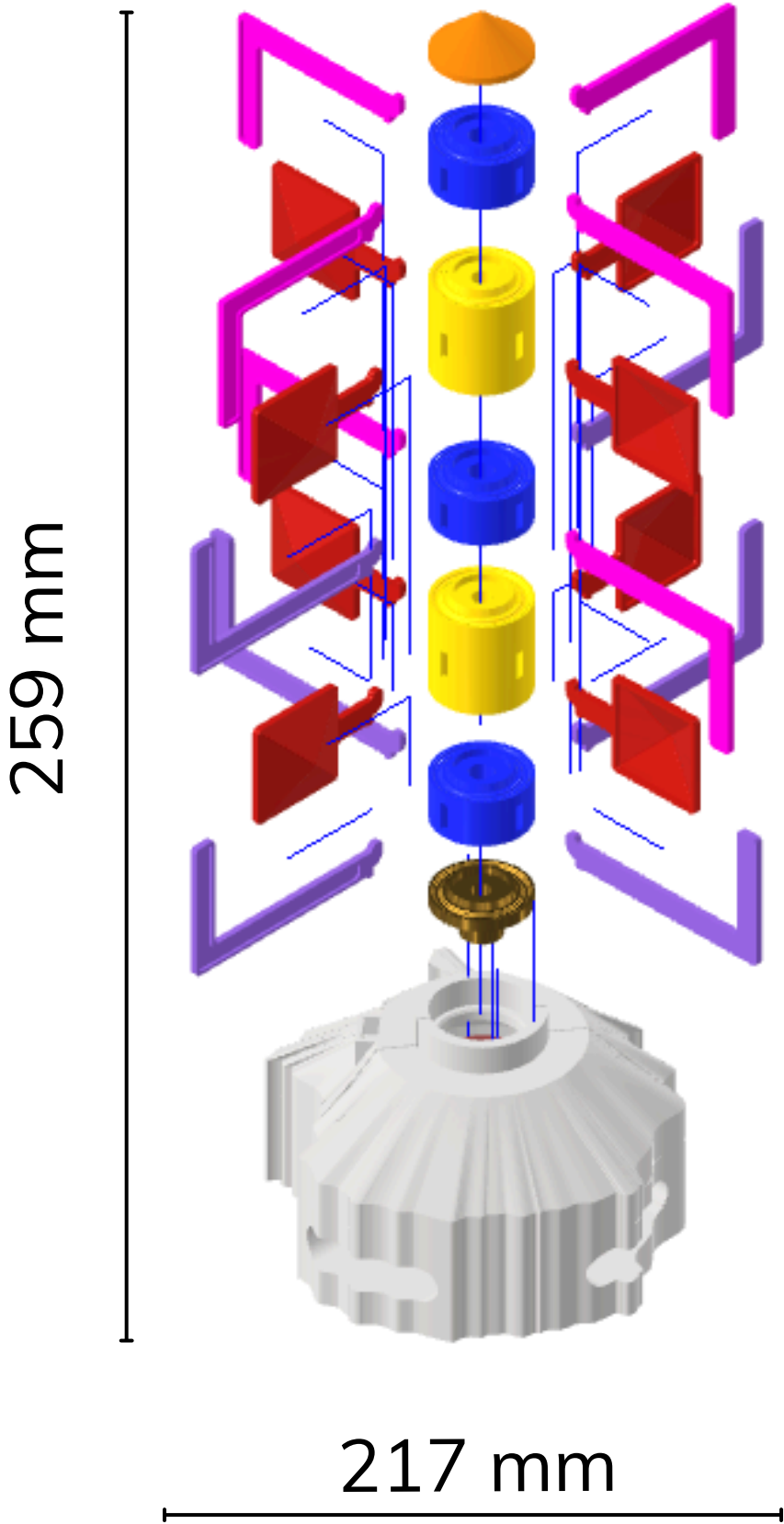
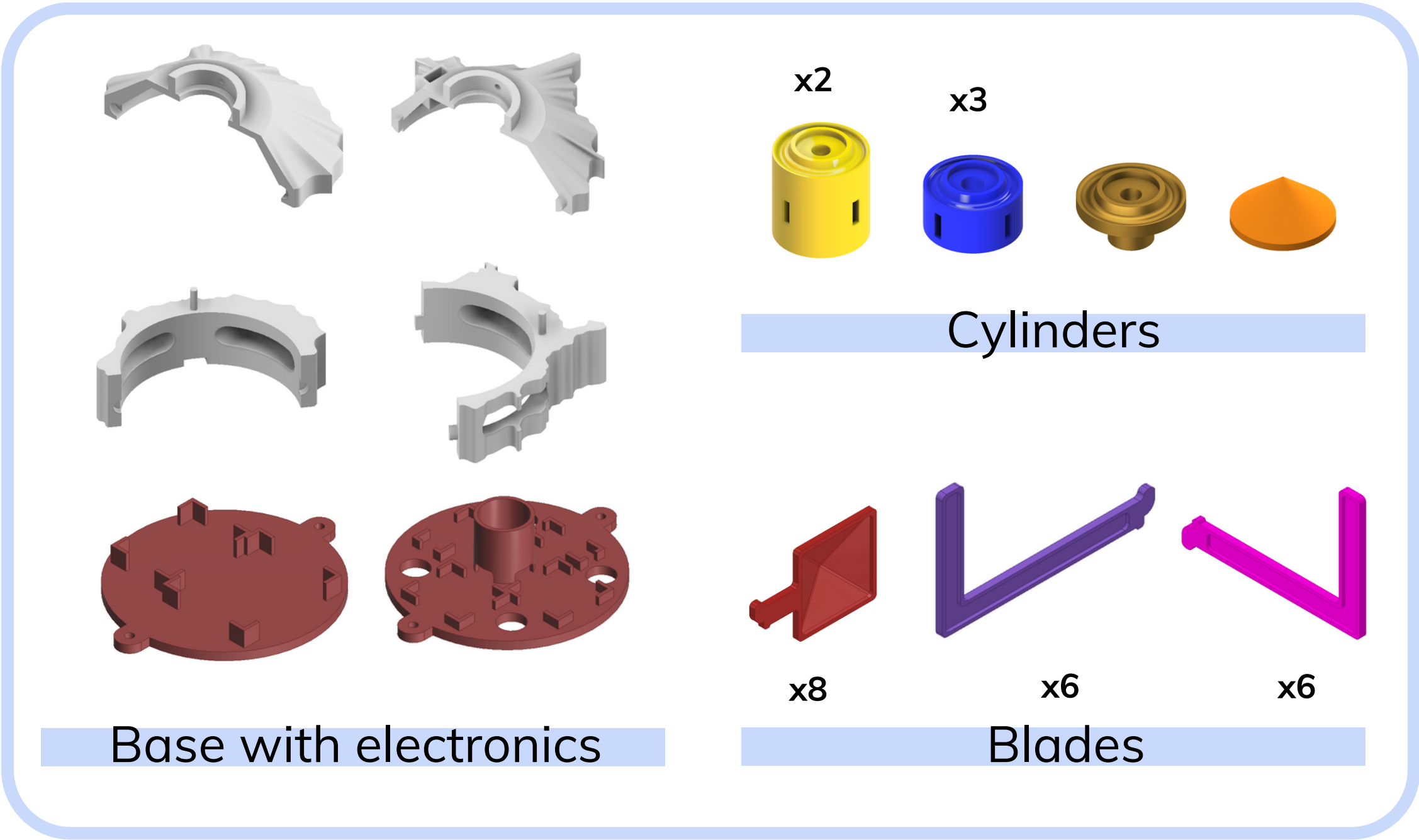
**Autora:** Patricia Er López Marrero  
**Tutor 1:** Pedro Manuel Hernández Castellano  
**Tutora 2:** Annabella Narganes Pineda

TRABAJO DE FIN DE GRADO  
26 DE JUNIO DE 2024

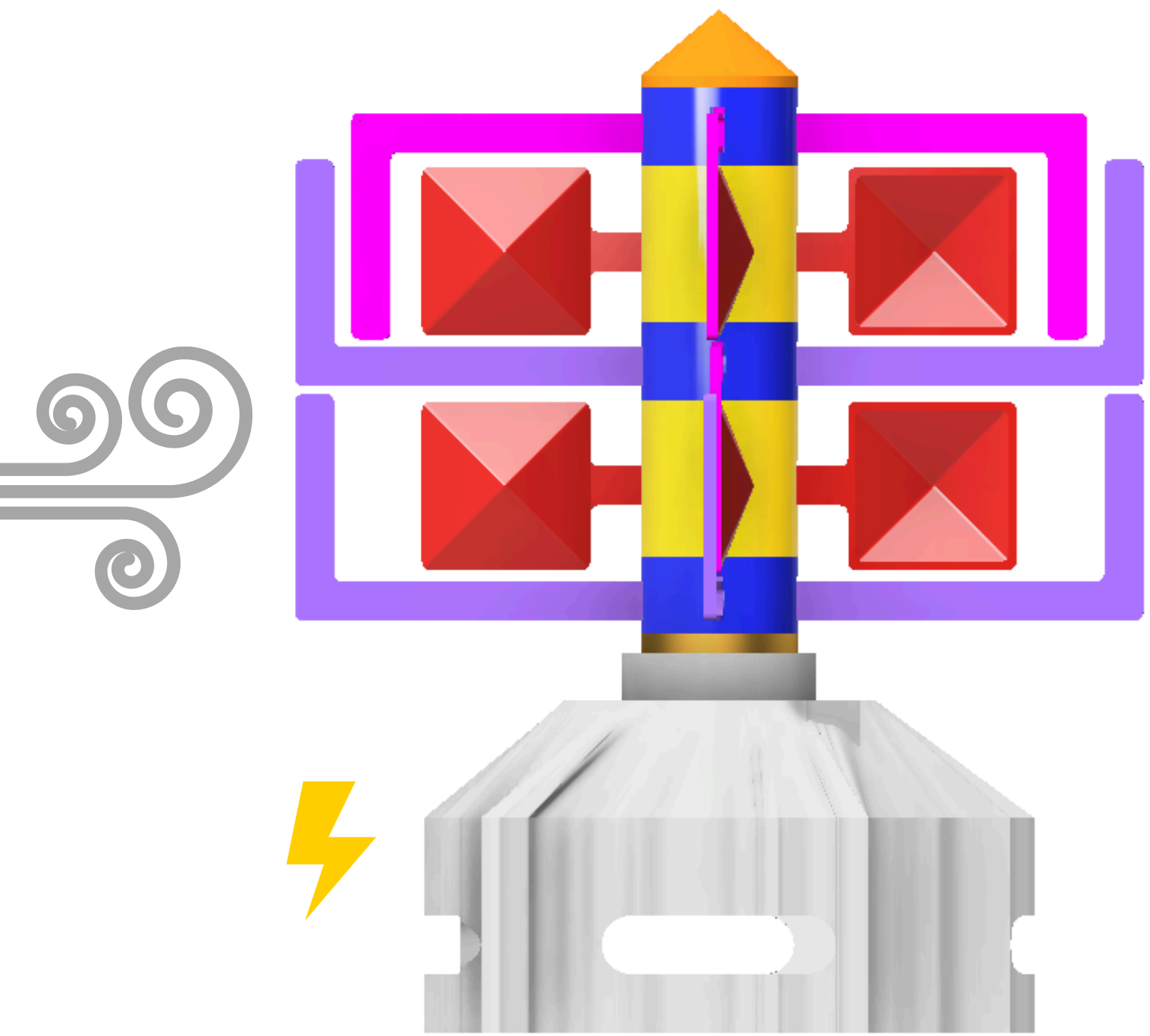


# Wind Demonstartor

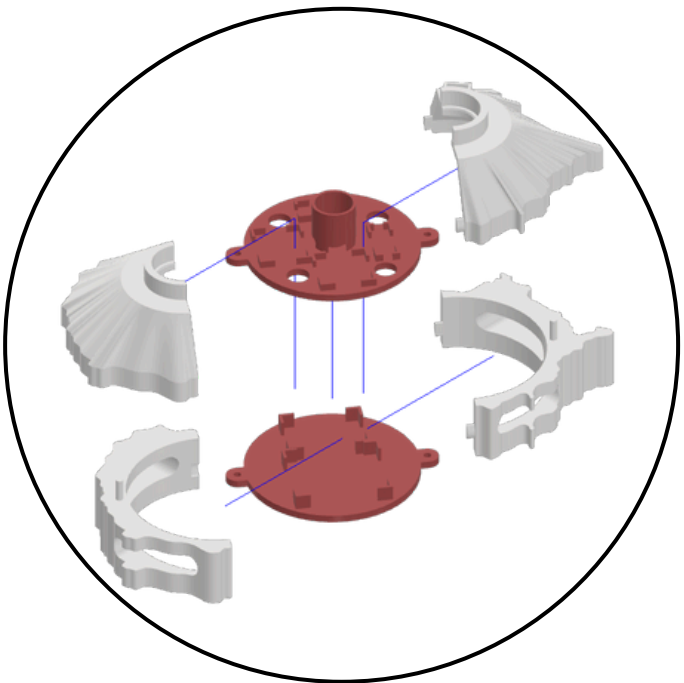
33 pieces



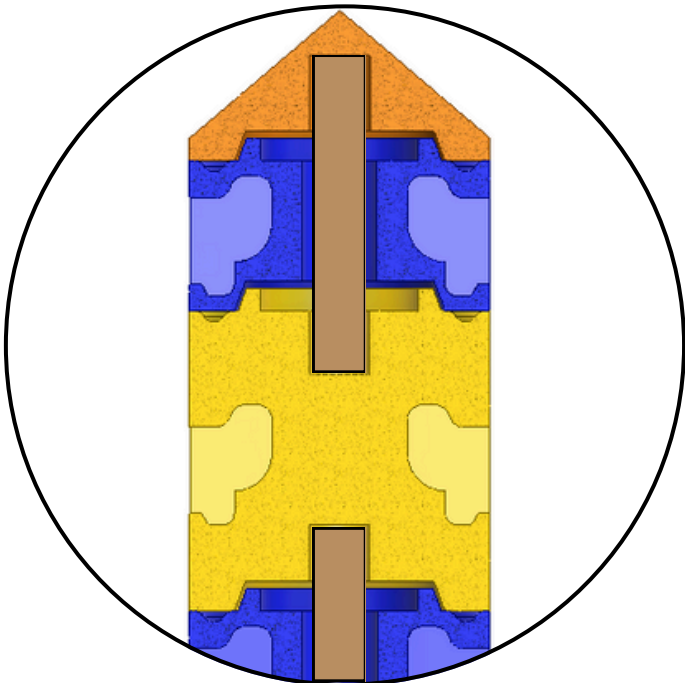
# Assembly



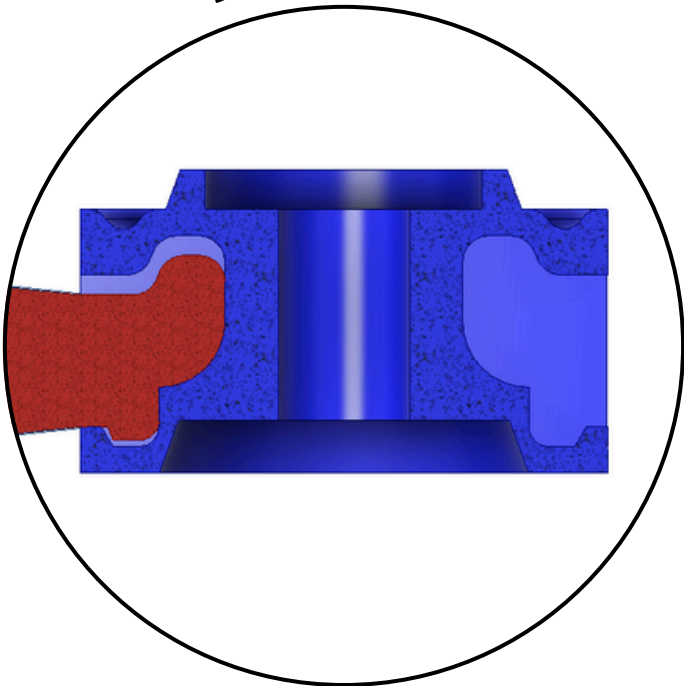
Base assembly



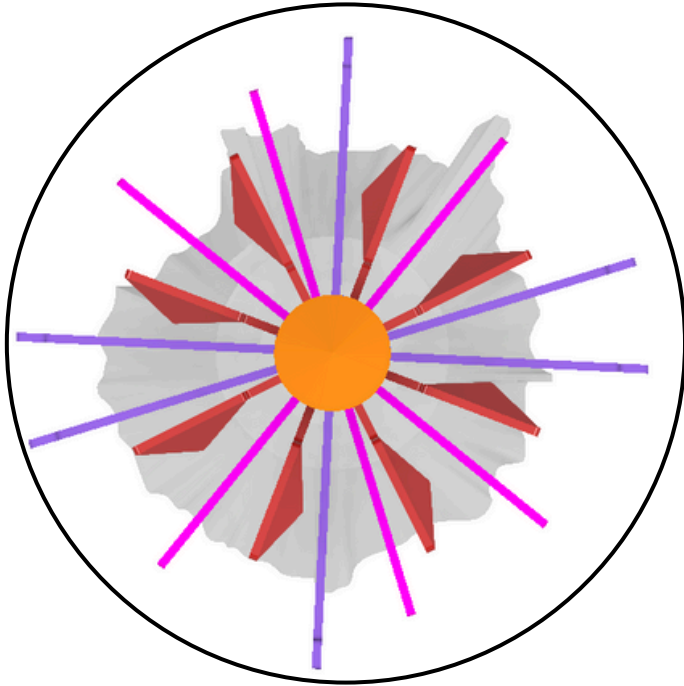
Wood joints  
Cylinders assembly



Blades - cylinders assembly



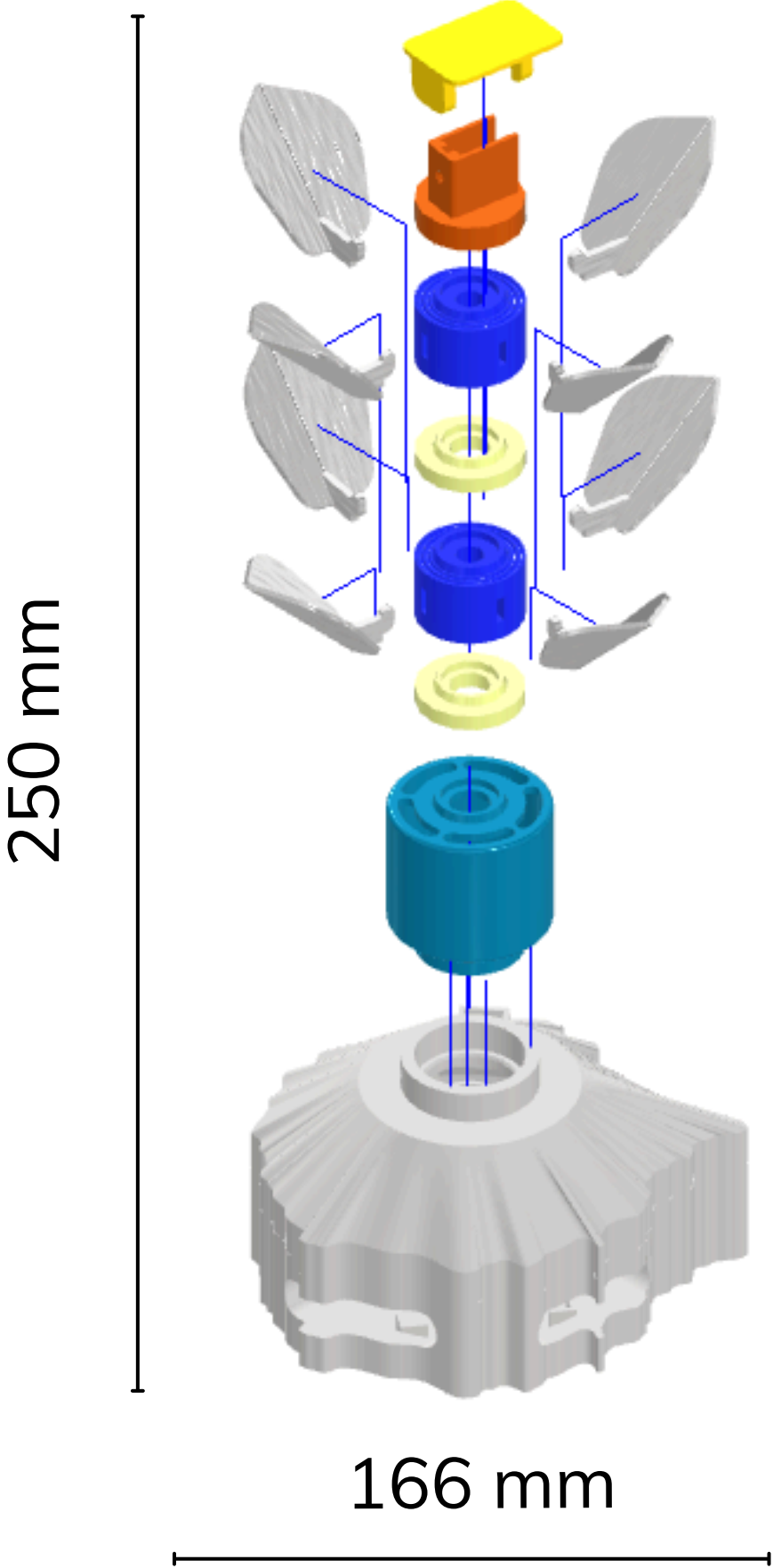
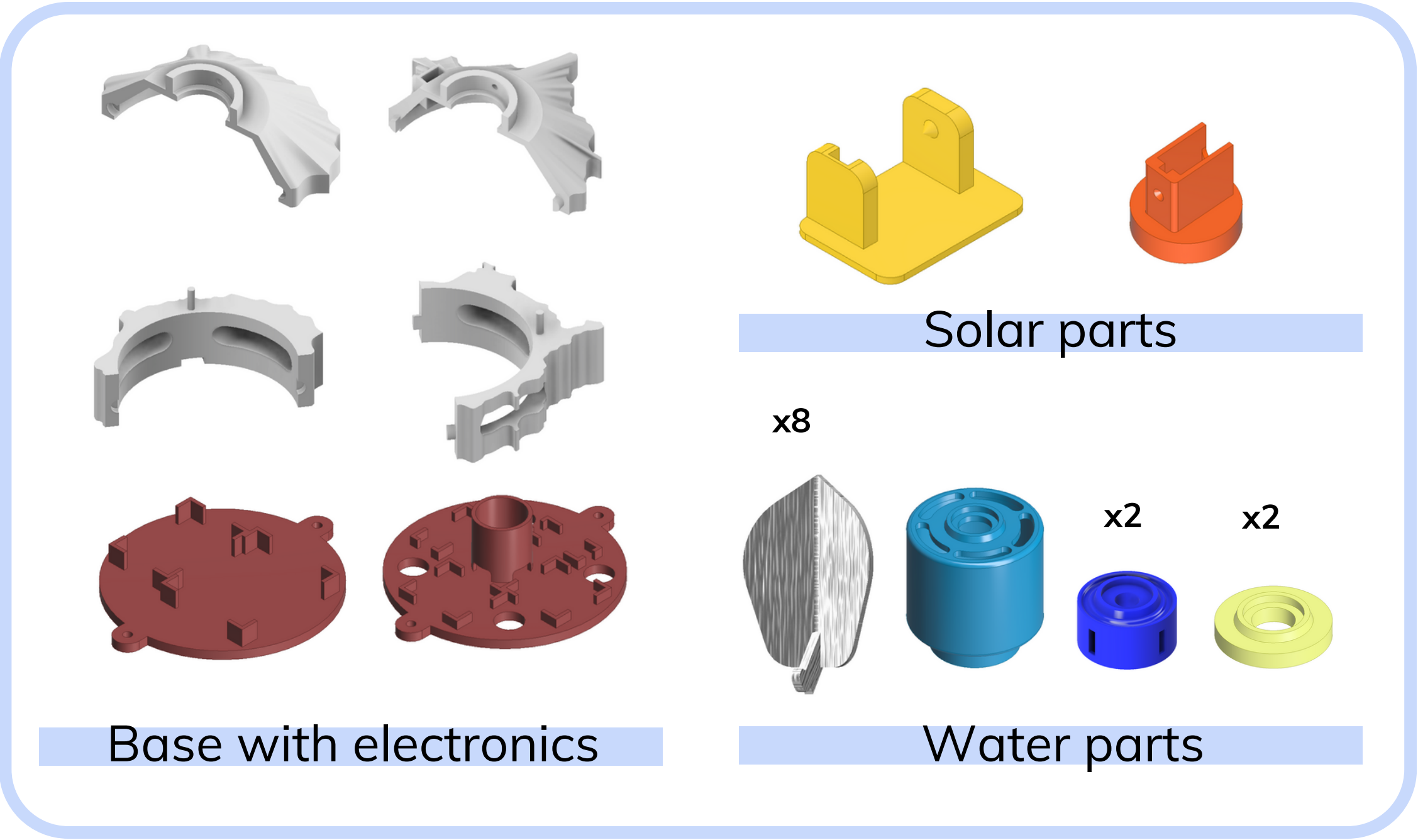
Top view





# Water + Solar Demonstrator

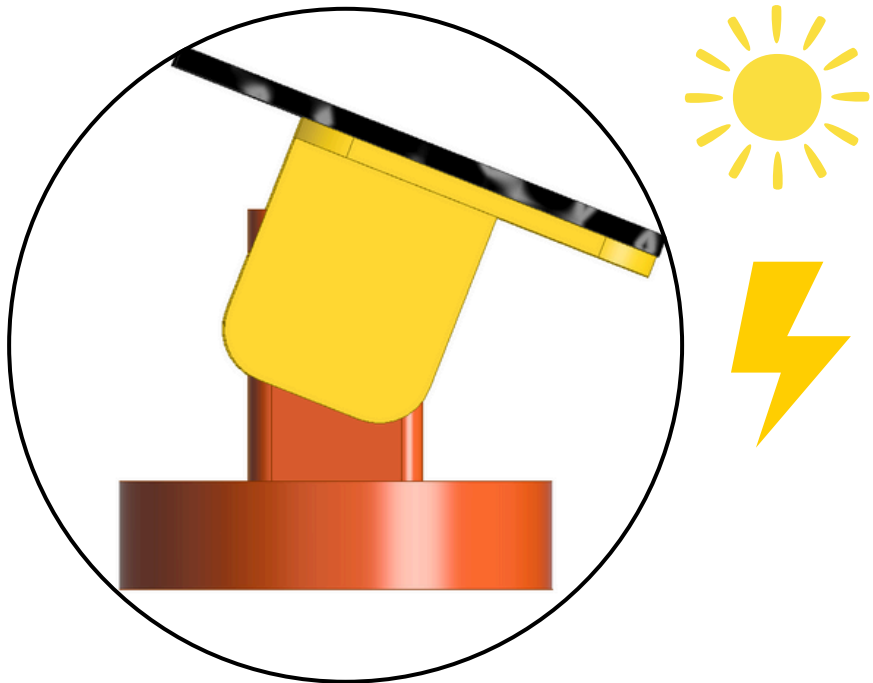
21 pieces



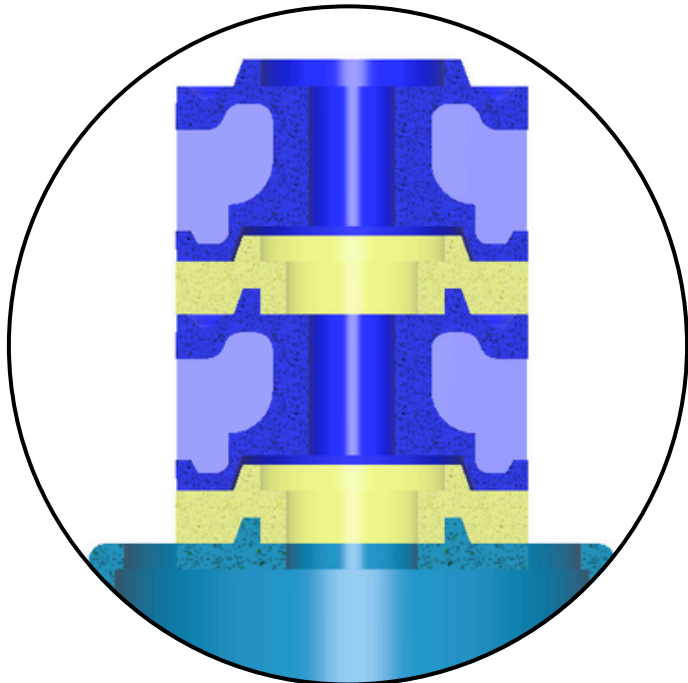
# Assembly



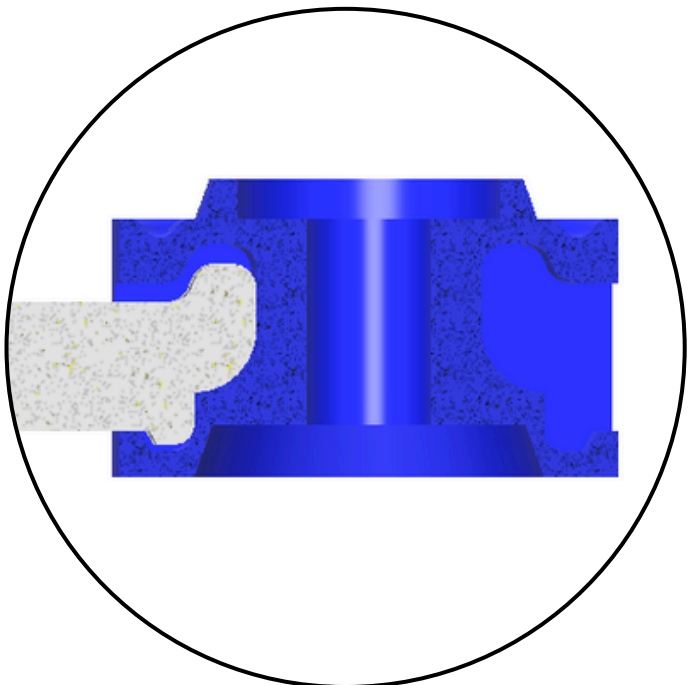
Solar parts assembly



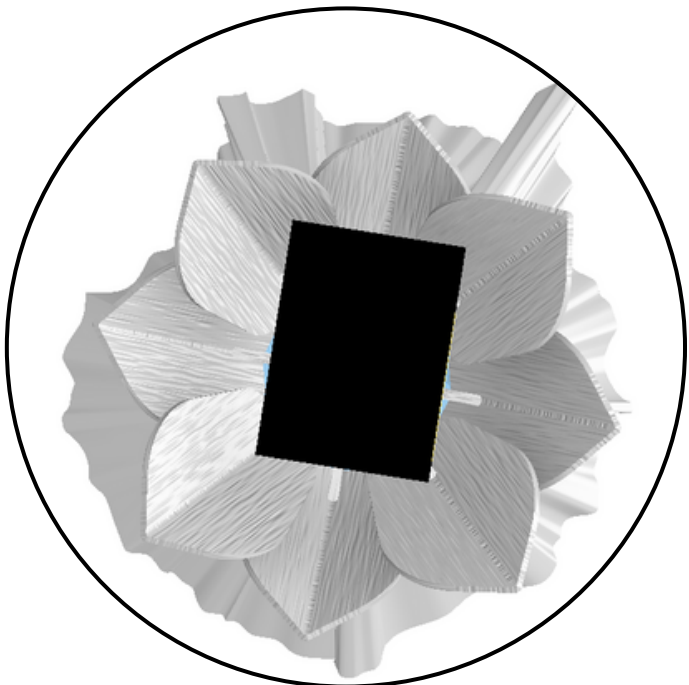
Cylinders assembly



Leaf - cylinder assembly



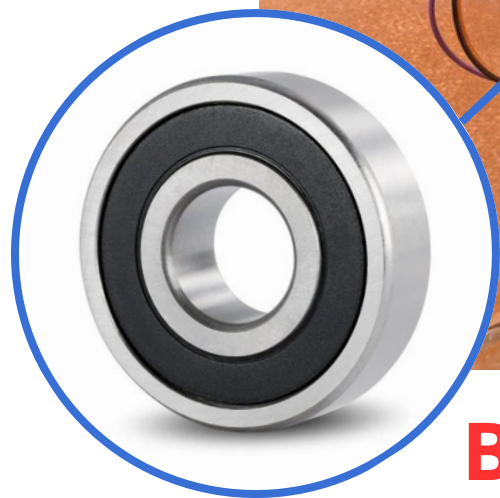
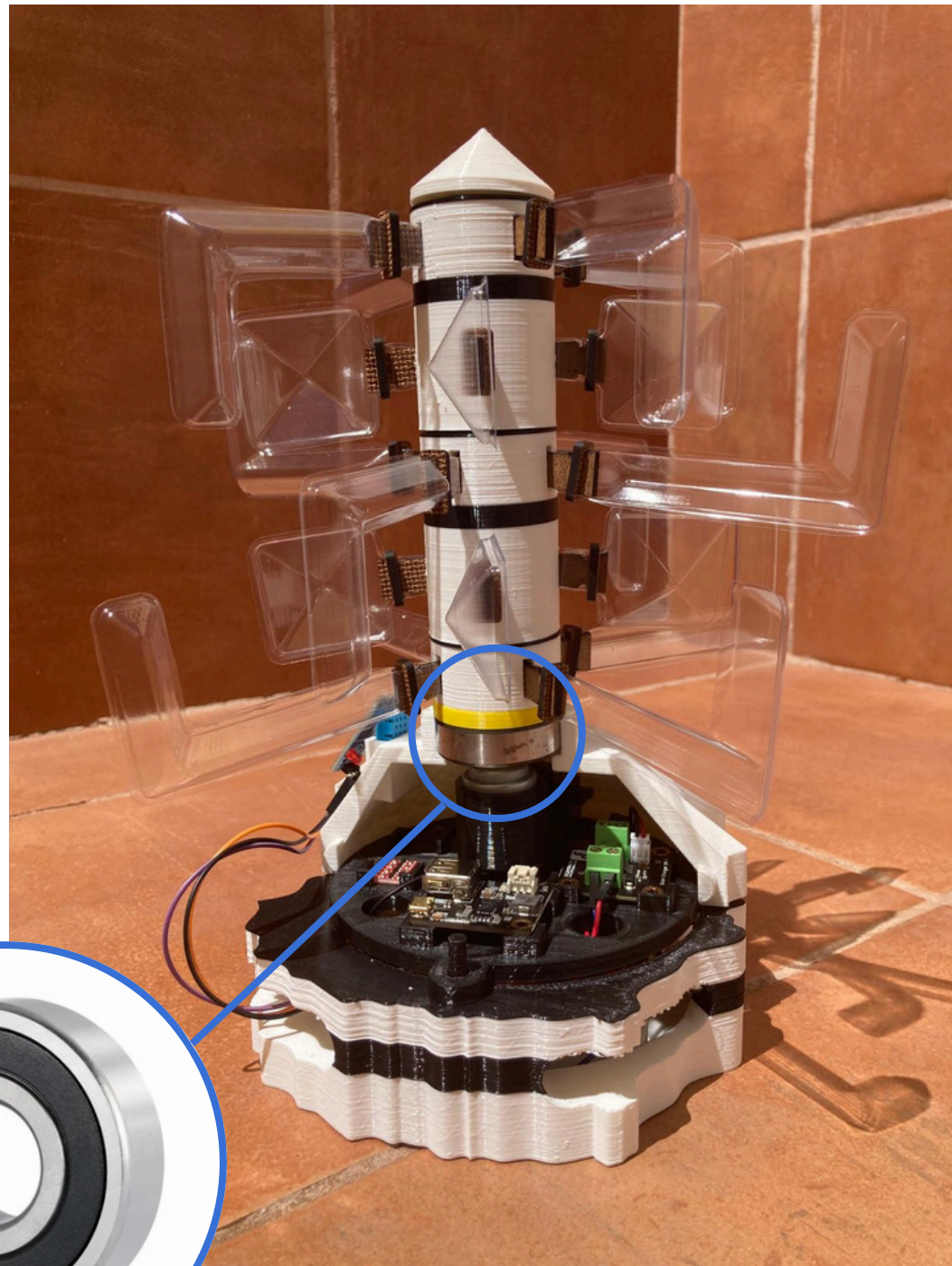
Top view



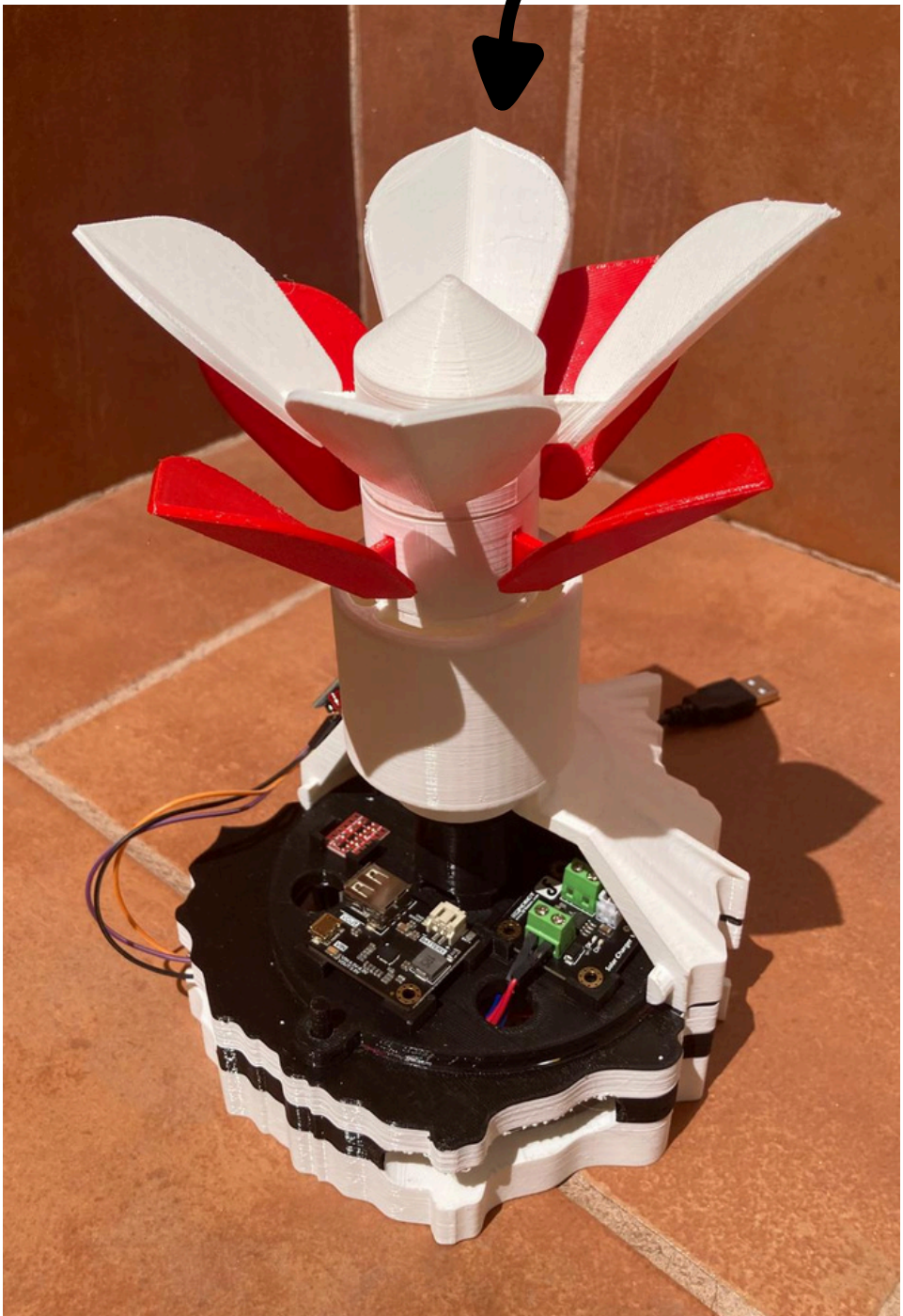


# Prototypes with electronics

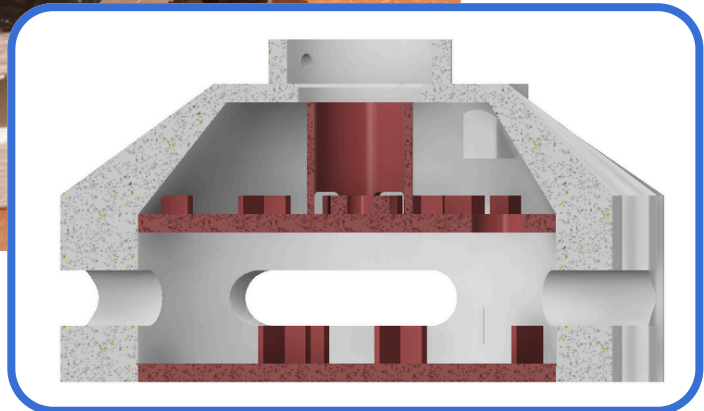
Combine



Bearing



Half section view of the base





# Other elements specifications

Bearing



exterior Ø 40 mm  
interior Ø 17 mm

Height 12 mm

1 unit

---

Wood joints



Ø 8 mm

Height 40 mm

3 units

---

Aluminum foil tape



1 unit