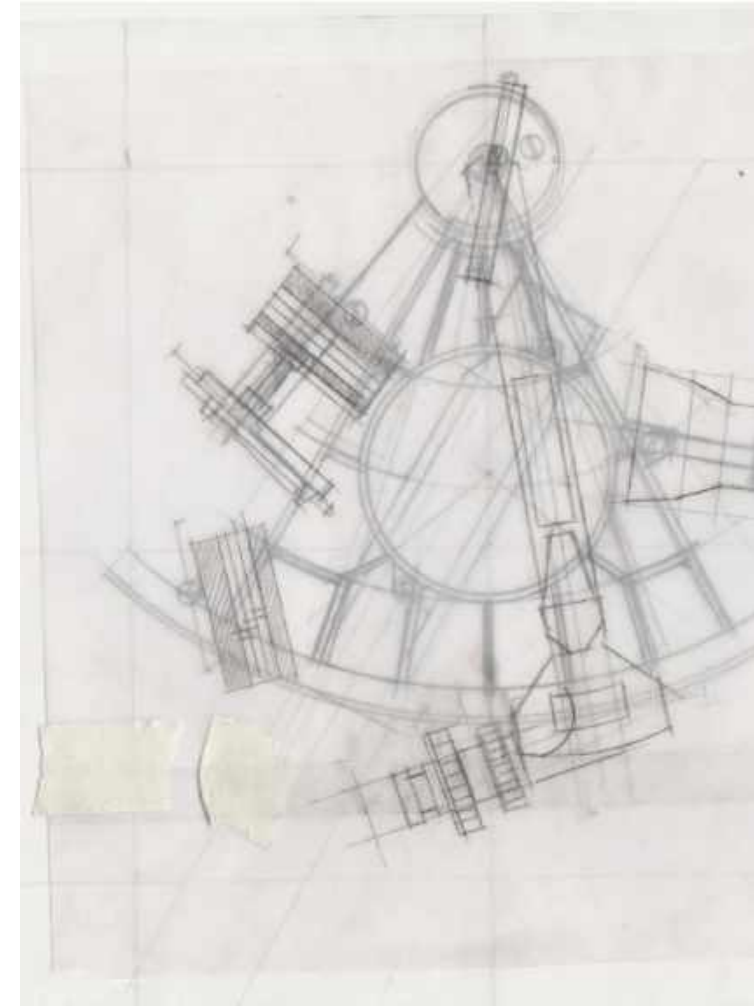


THE CUBIST PAINTER



MAX
OSTRO
VERHY
2024

UCL



DESIGN

WORKSHOPS

A photograph of a solar burner setup against a black background. On the left, a parabolic reflector is mounted on a stand, angled towards the right. On the right, a fan is mounted on a tall, thin stand. A small green light is visible on the fan's motor. The text 'THE SOLAR BURNER' is overlaid in orange, and 'PASSIVE ENERGY GENERATING DEVICE' is overlaid in pink at the bottom left.

THE SOLAR BURNER

PASSIVE ENERGY GENERATING DEVICE



The Solar Burner:

A Passive Energy Generating Device

A device to burn - a symbol of fire's transformative power.

The creation of fire marked the dawn of the Bronze Age and the rise of civilizations, all tied to the mythological figure of Prometheus, who gave mankind fire and life from clay. This narrative forms the backbone of this project, which explores how fire - whether physical, emotional, or spiritual - shapes human experiences throughout the yearly cycle of seasons, traditions, beliefs, and festivals. It aims to guide societies toward reconciliation, regeneration, or both, with themselves and one another.

At its core, this project seeks to harness fire from an architectural perspective, exploring its emotional, structural, and environmental qualities. Fire's spiritual significance, its strength, and its dual nature as both a source of danger and benefit become key considerations. The focus is not merely on the act of interacting with fire but on its creation and the effort to sustain it.

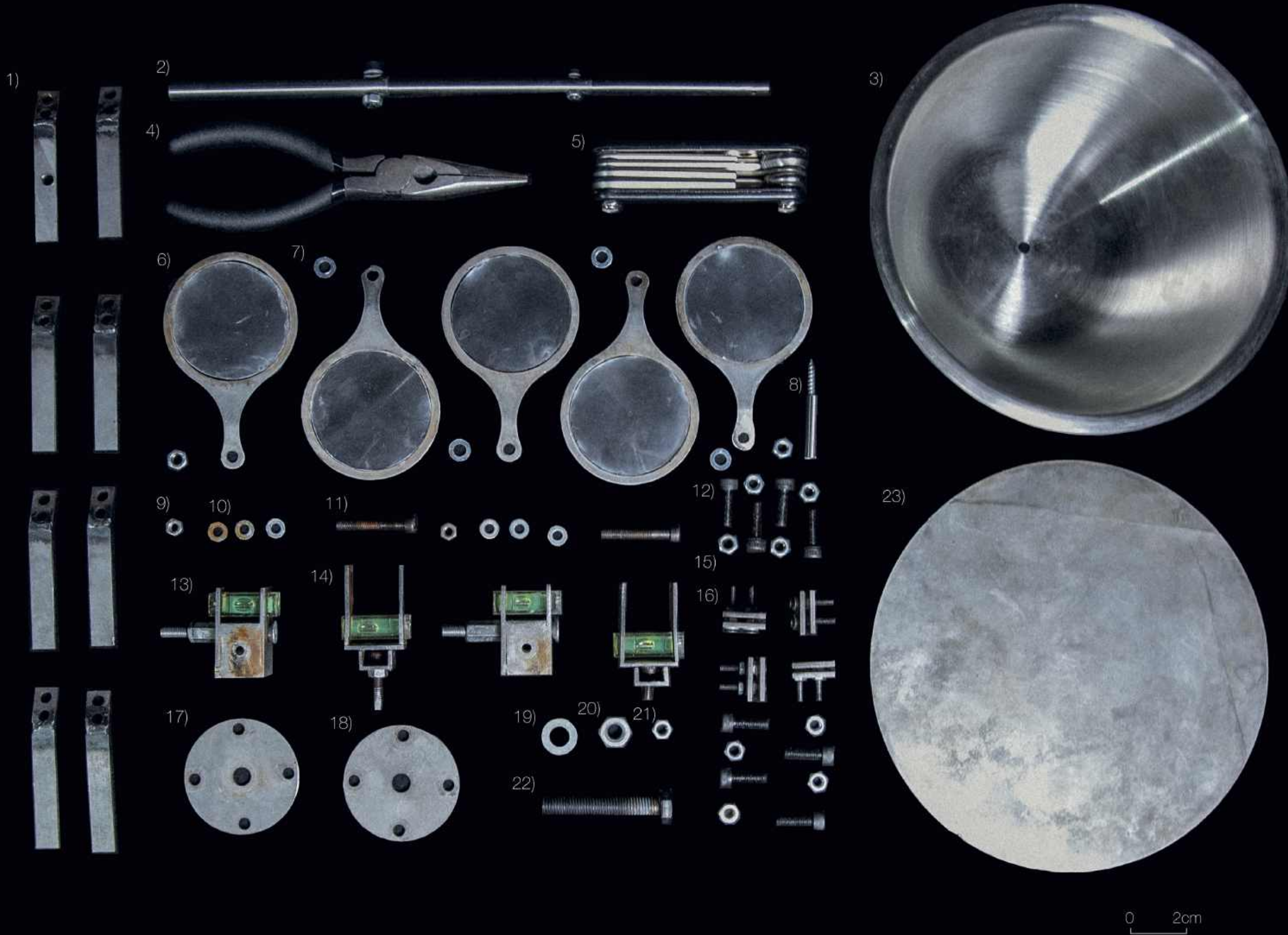
Through devices, facades, and eventually architectural structures, this project examines how fire can be restrained and adapted to the micro-biomes studied and developed within. These designs function as both practical tools and symbolic celebrations of fire's enduring cultural and environmental impact.

Ultimately, this work invites a celebration of the beliefs and traditions associated with fire within the context of urban and modern landscapes. It challenges us to reconsider the role of belief systems in a technologically driven world and to reflect on the enduring relevance of fire as a unifying and regenerative force.

3.6 Working Mechanism

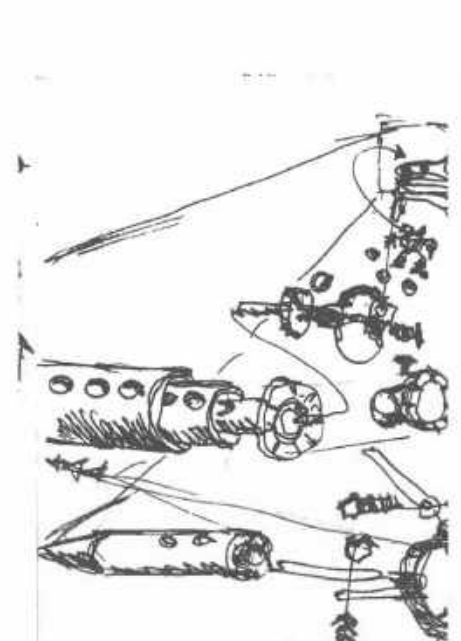
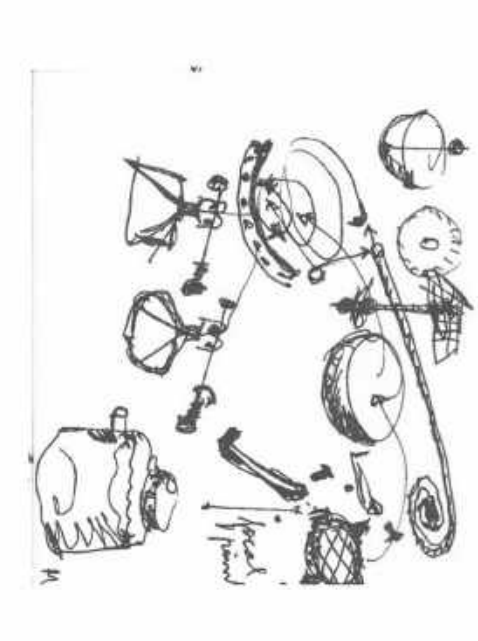
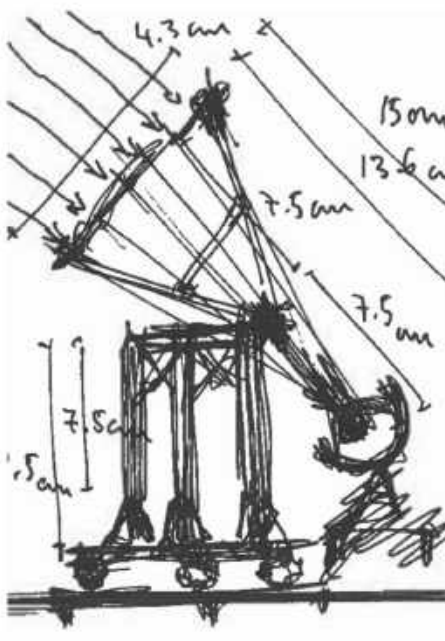
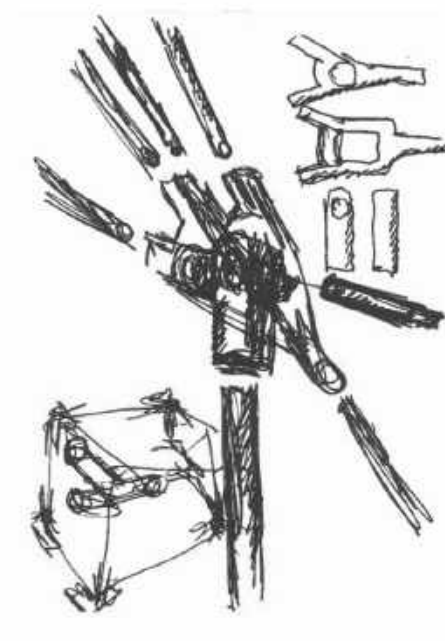
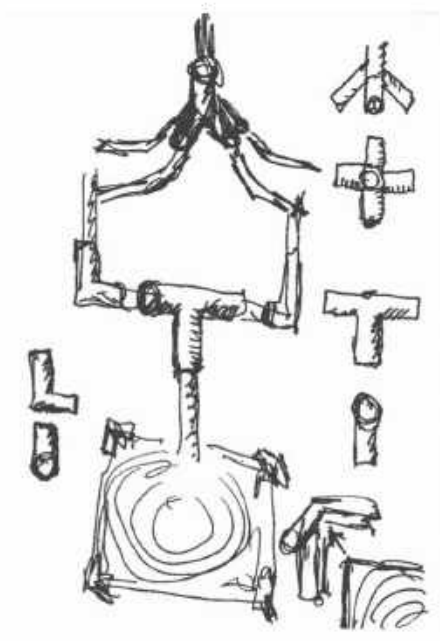
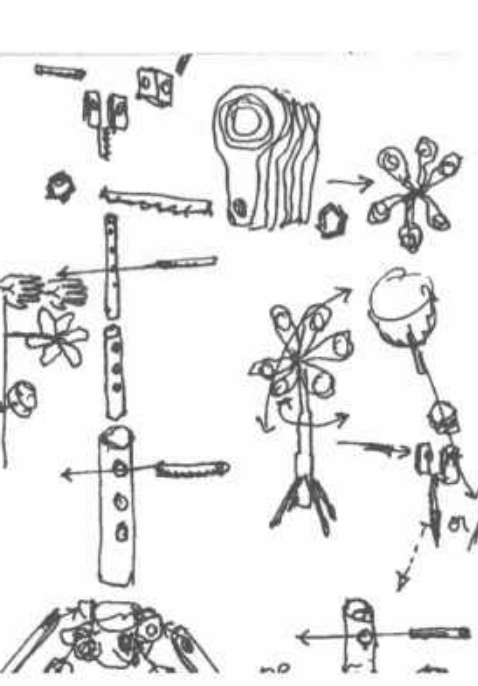
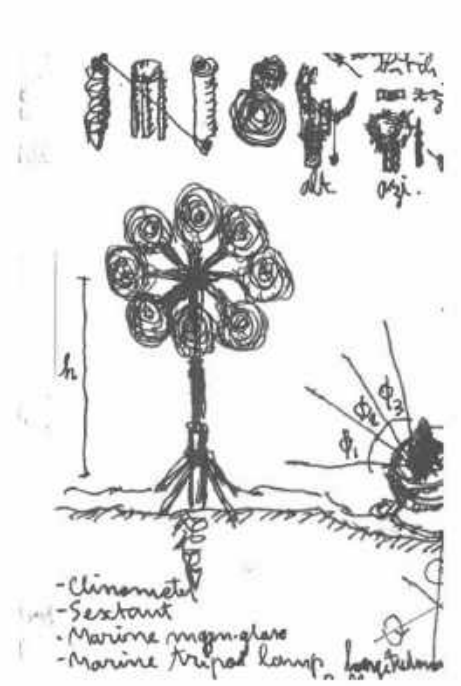
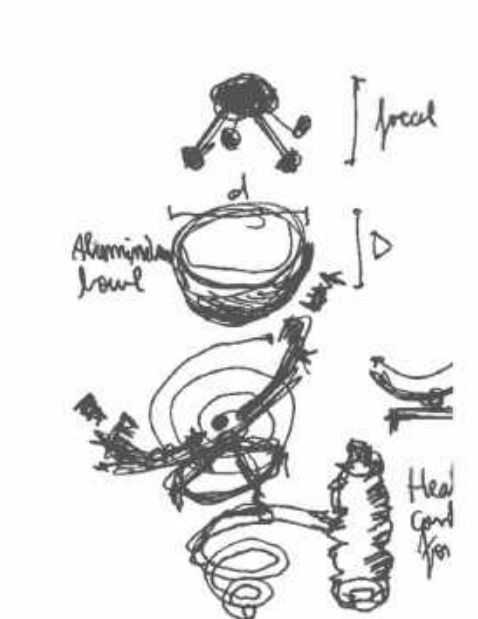
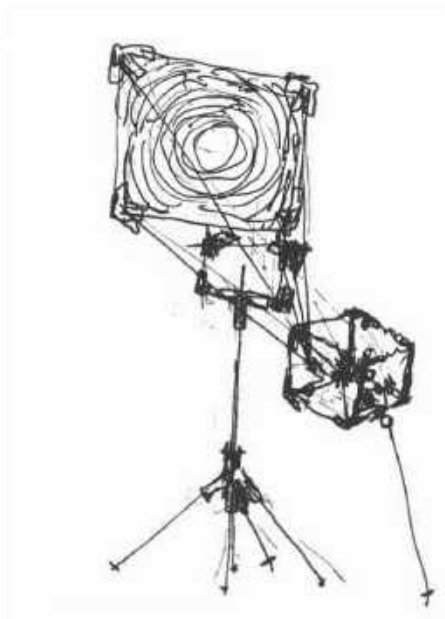
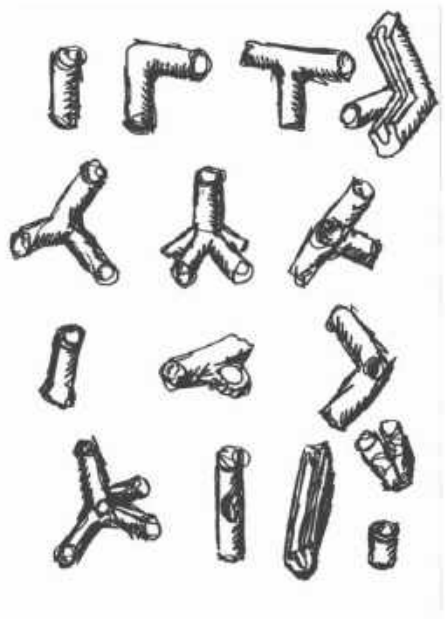
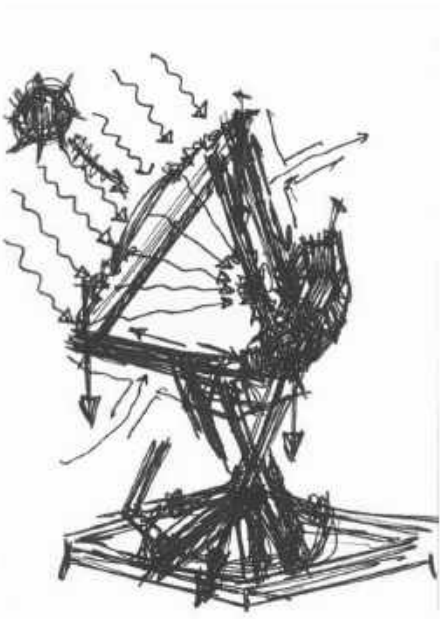
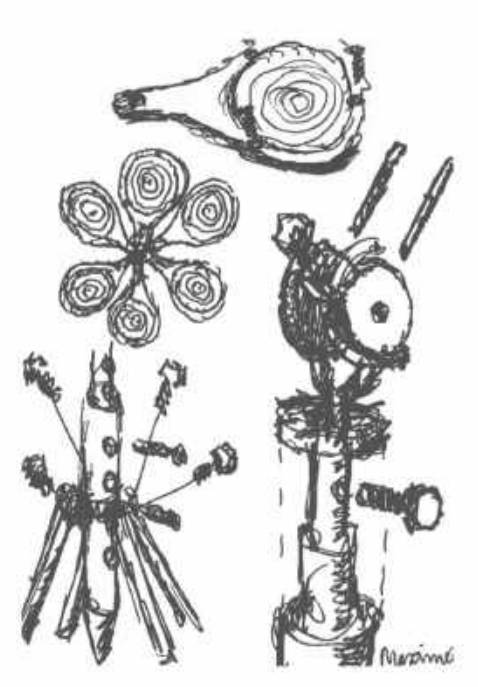
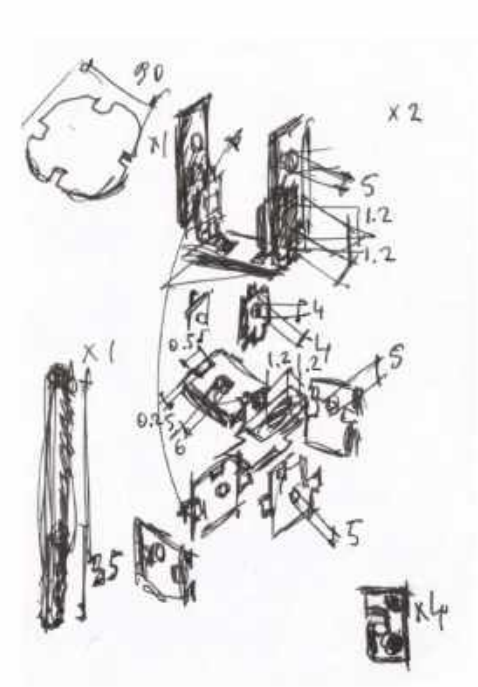
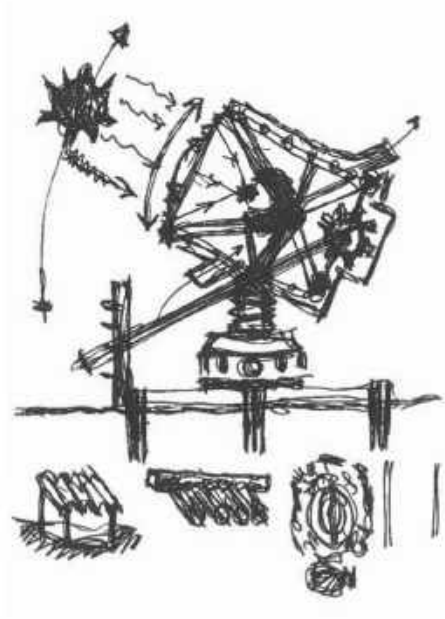
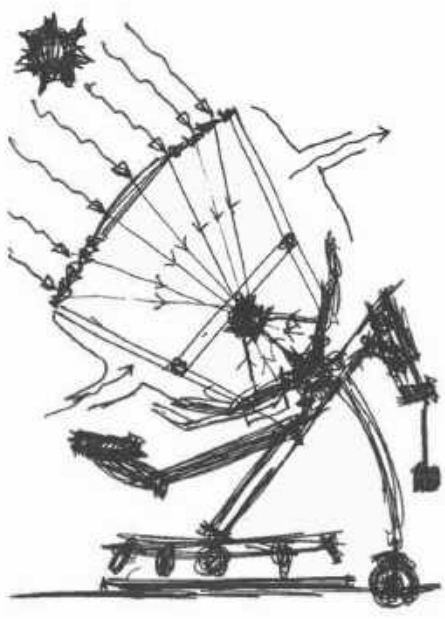
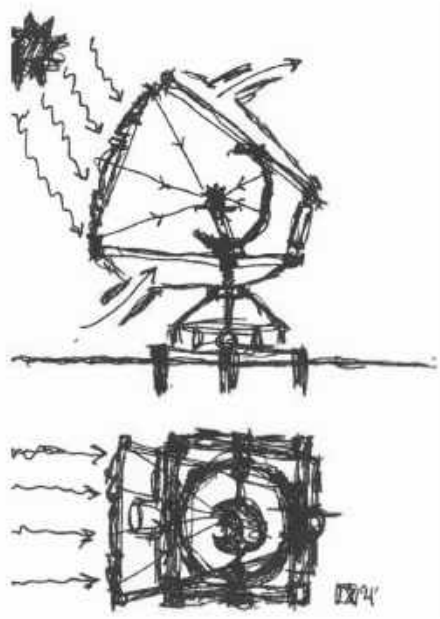


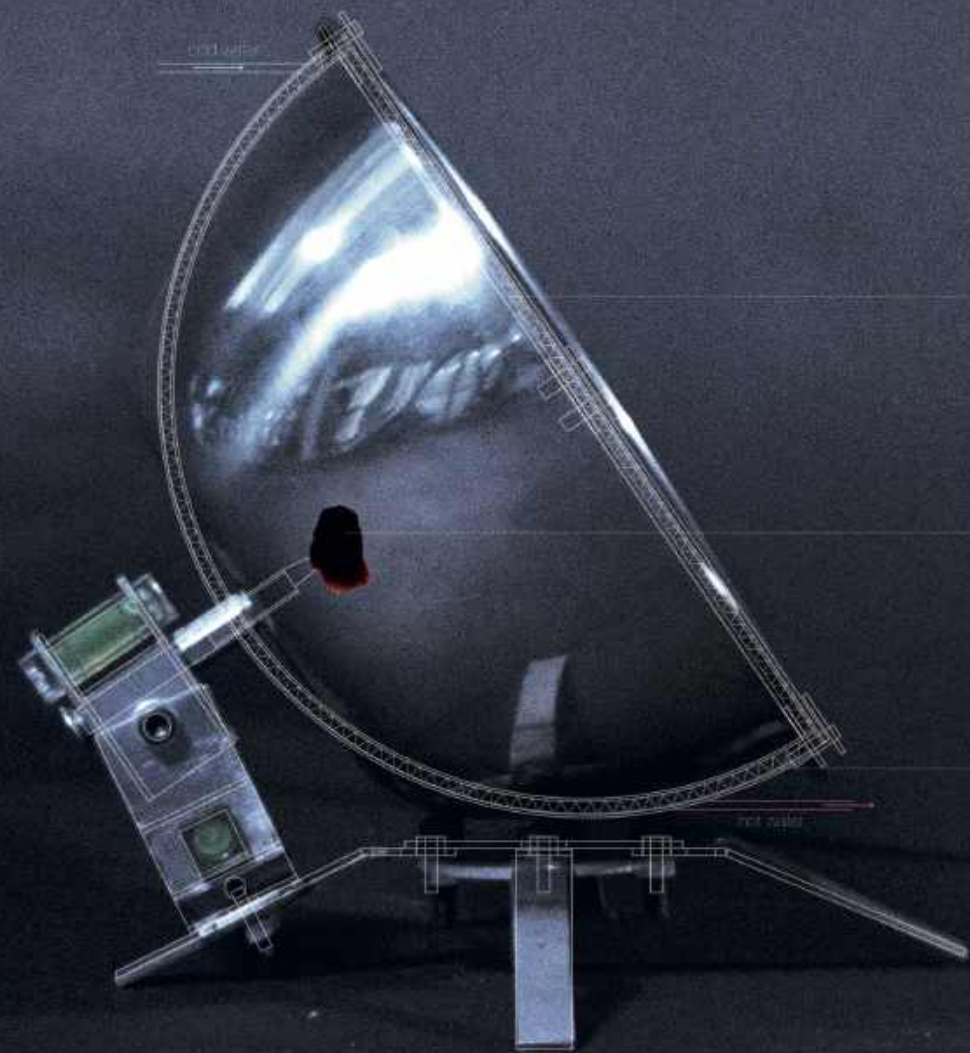
3.8 Taxonomy of Parts



- Number of pieces = 69
- Material properties = f_y = 355MPa
- U-value = 0.12 W/m²K
- 1) legs
- 2) adjustable stand
- 3) insulated wardian case
- 4) shjupalci
- 5) allen key
- 6) fresnel lense deployables
- 7) f. l. distancing (0.01 mm)
- 8) pike char holder
- 9) 3M
- 10) EM flat
- 11) 3M screw
- 12) 4M screw
- 13) level bubble
- 14) adjustable head
- 15) M4
- 16) closing clamps
- 17) table stands
- 18) sanded M3
- 19) M5 flat
- 20) M5
- 21) M3
- 22) M5 screw
- 23) thermal lid

0 2cm





end cap

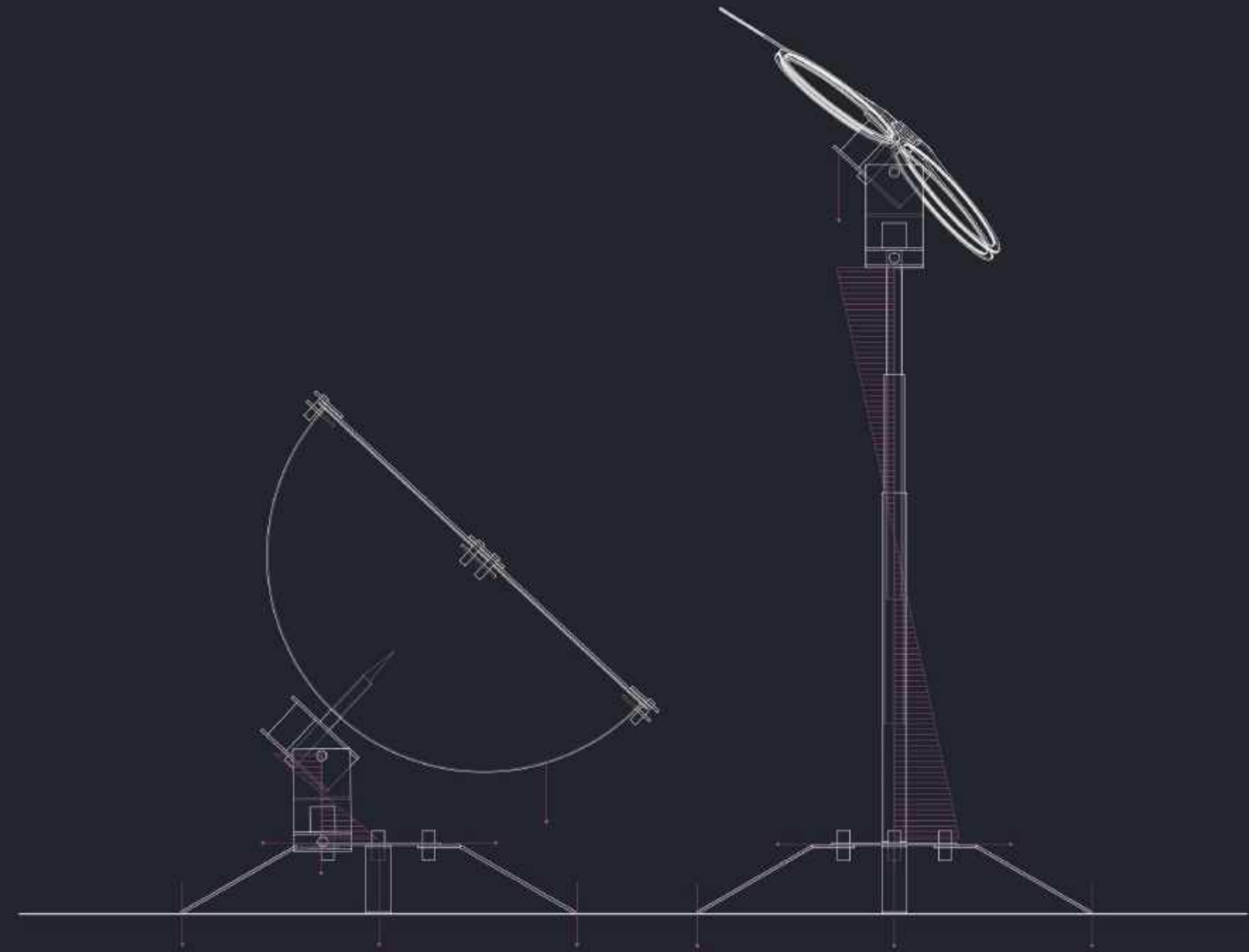
1. value of SWR = 1.1

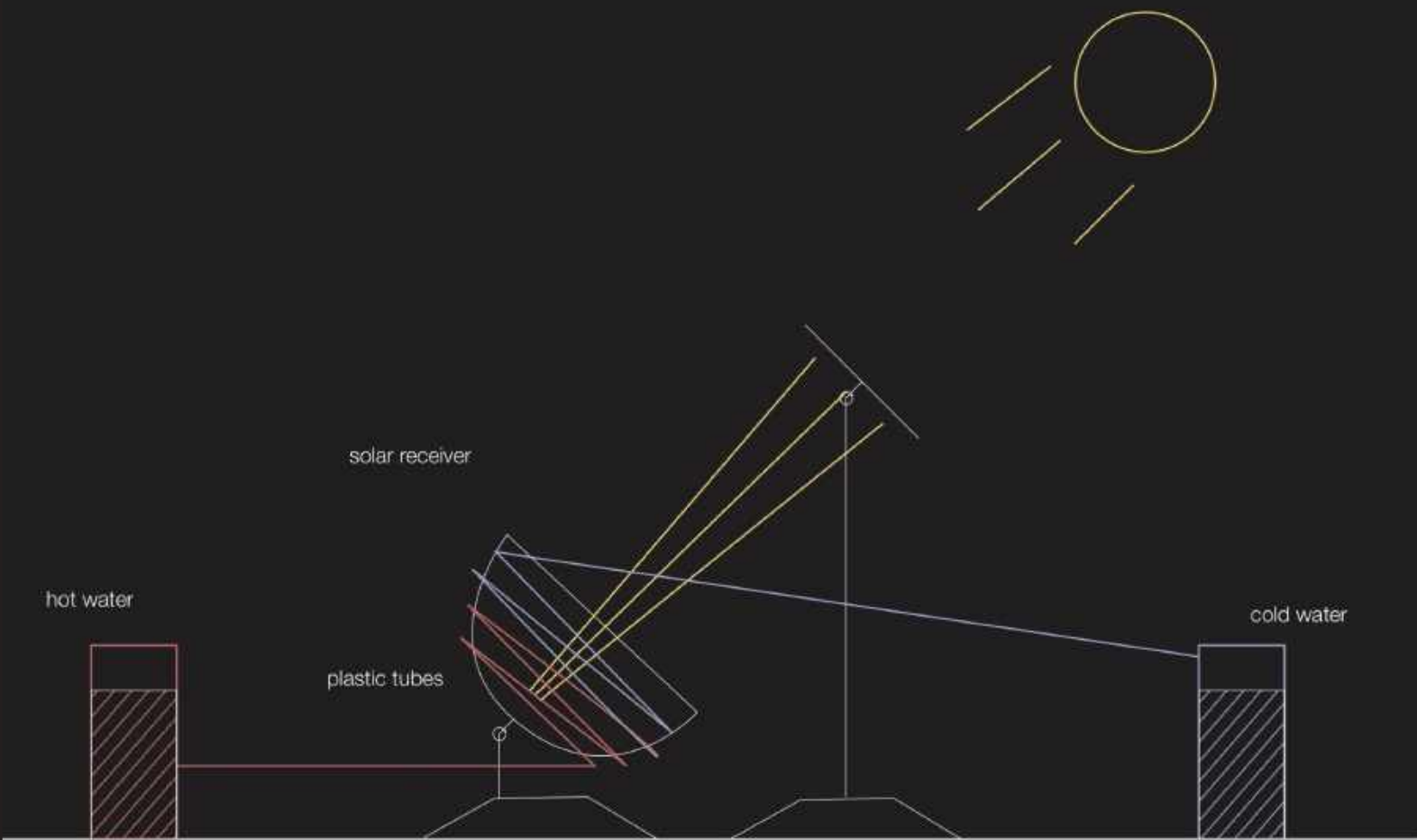
2. value of

length = 5.12m
D = 0.8m
Area = 0.64m²

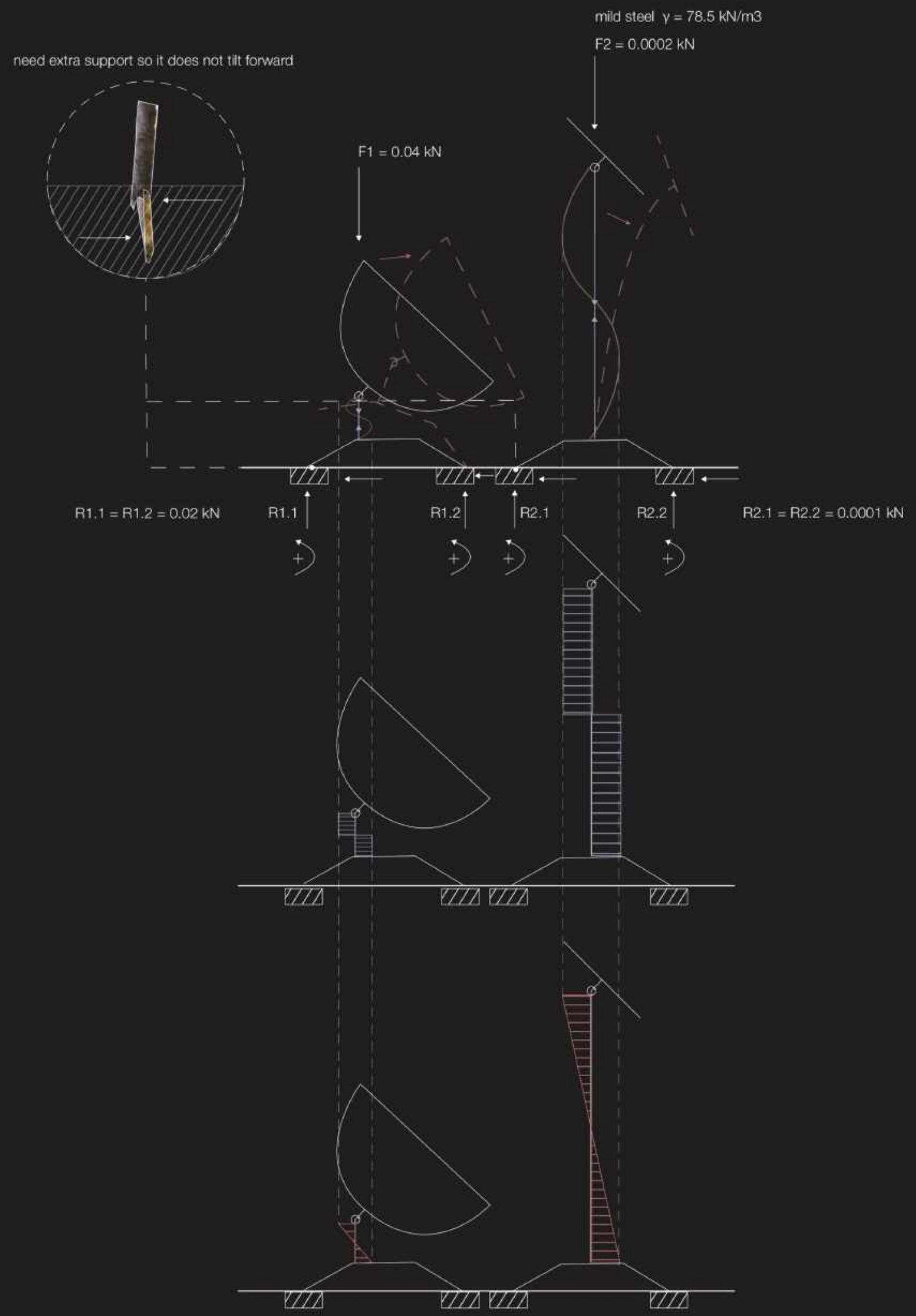
mounted with clamp

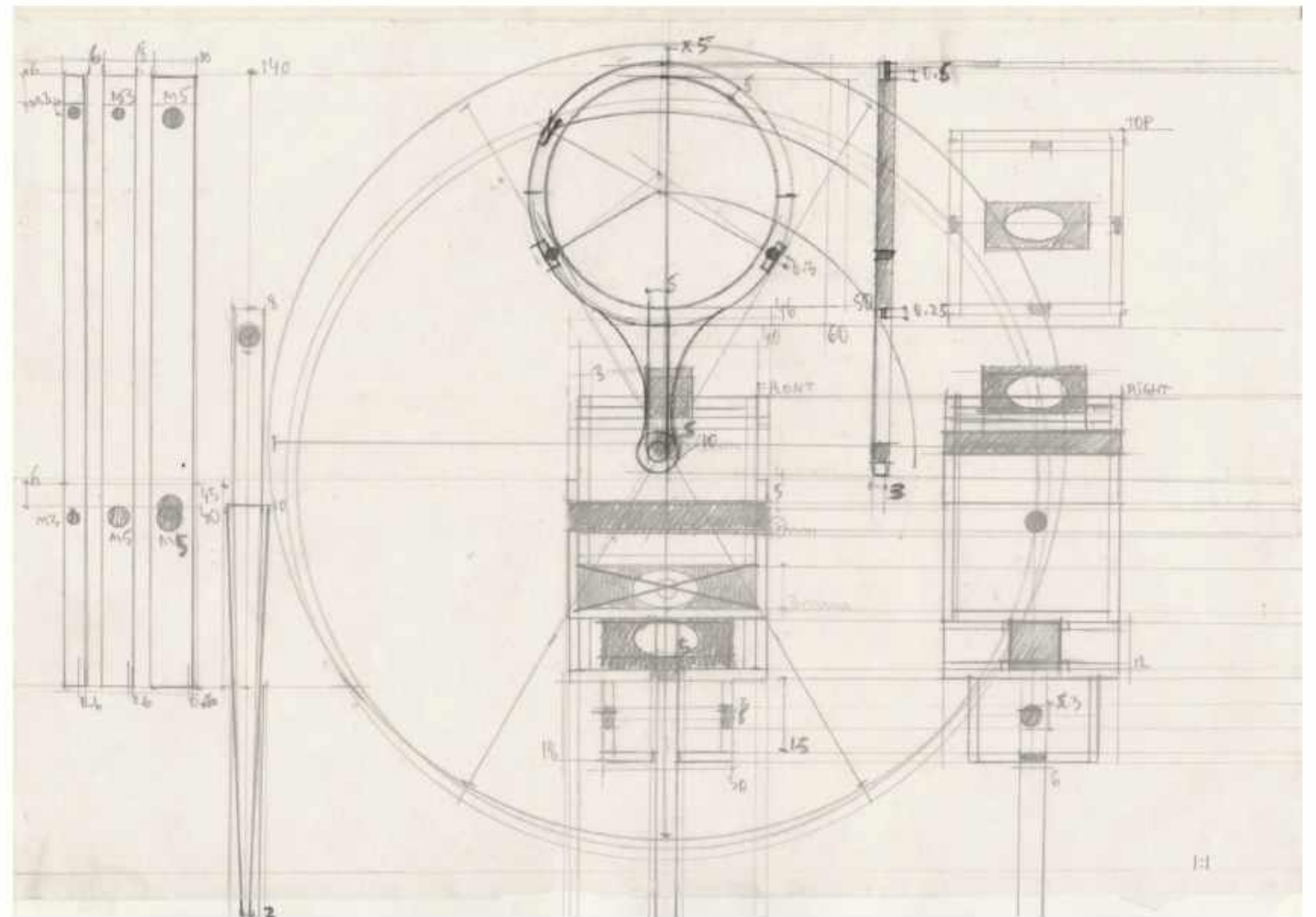
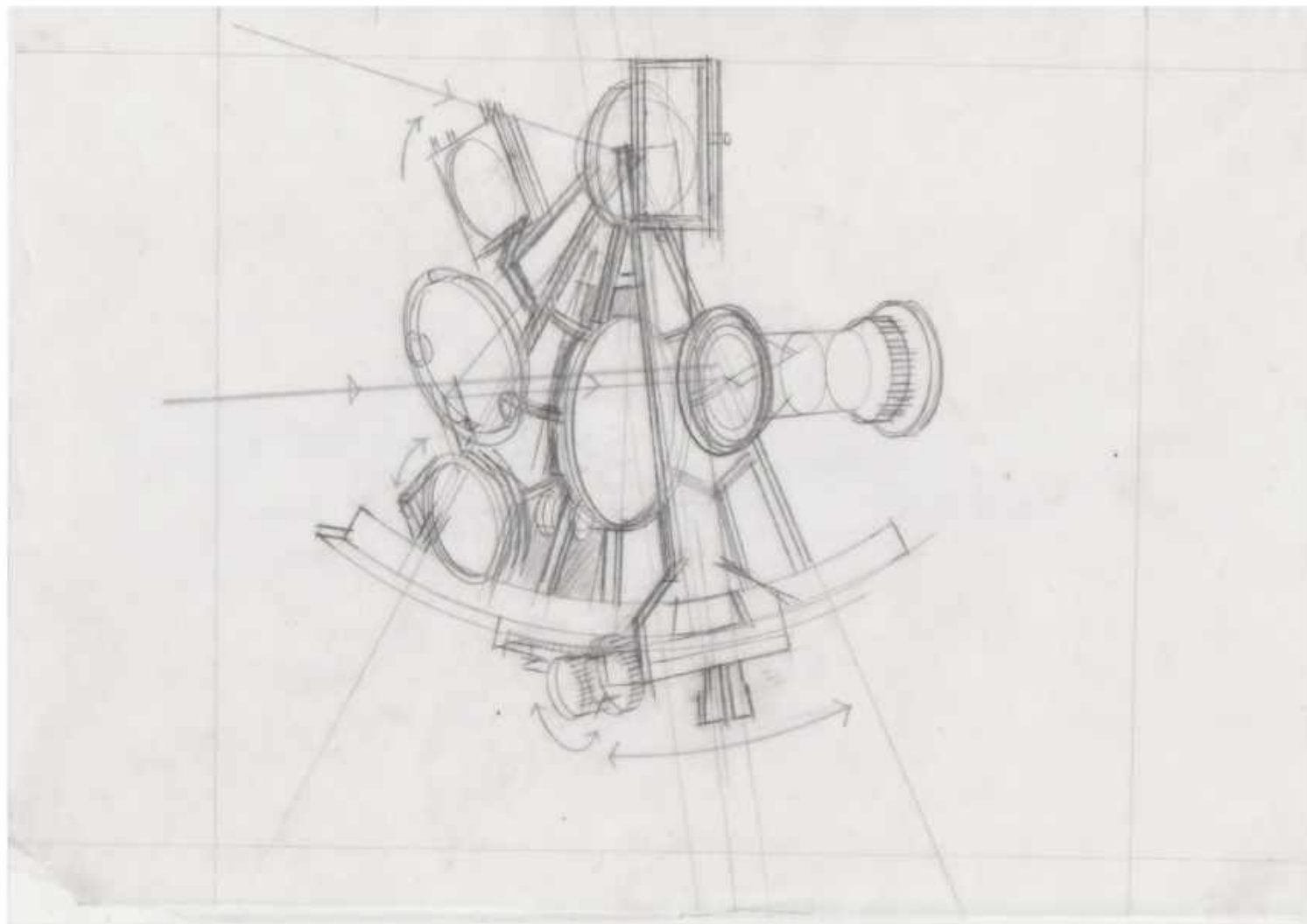
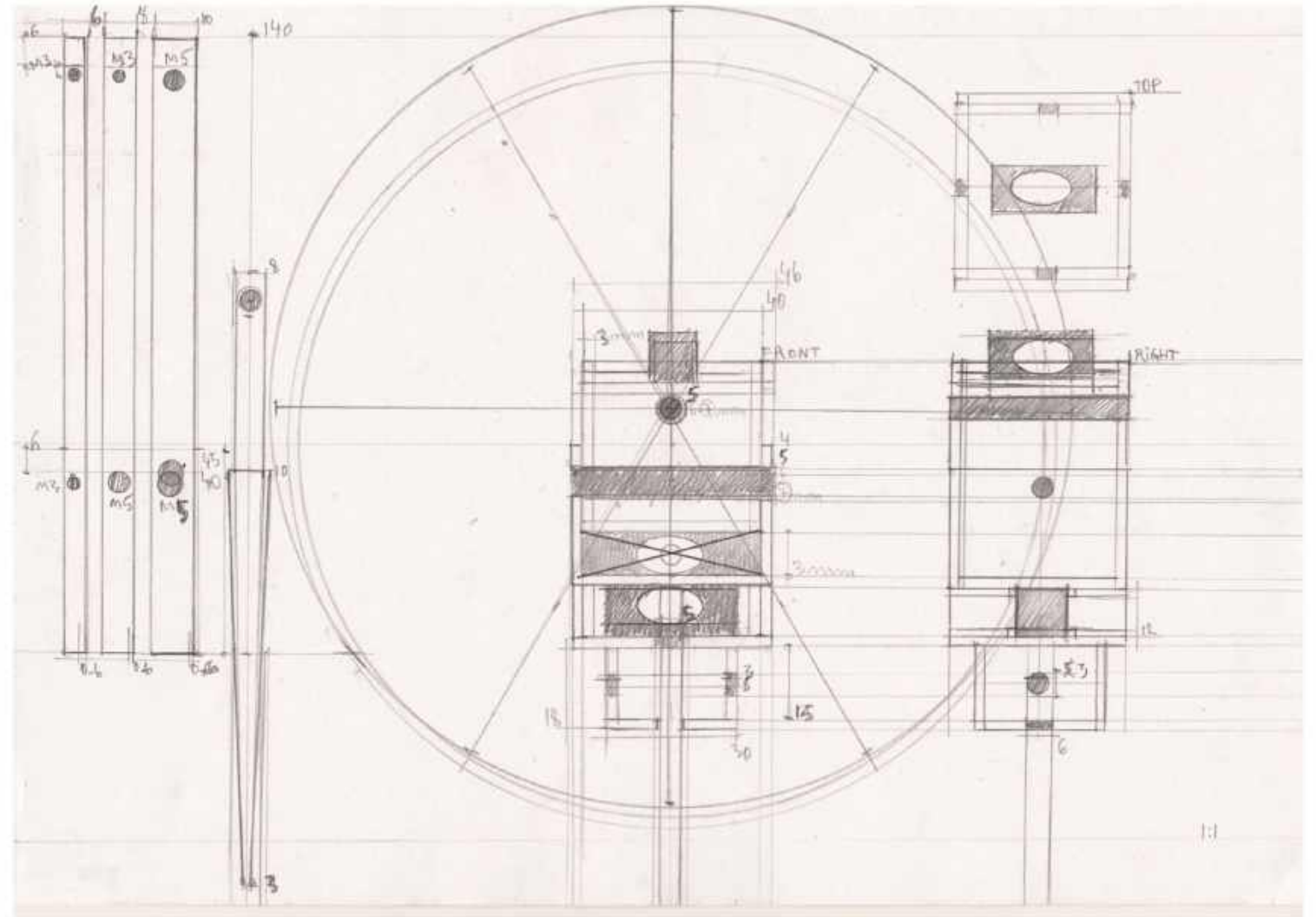
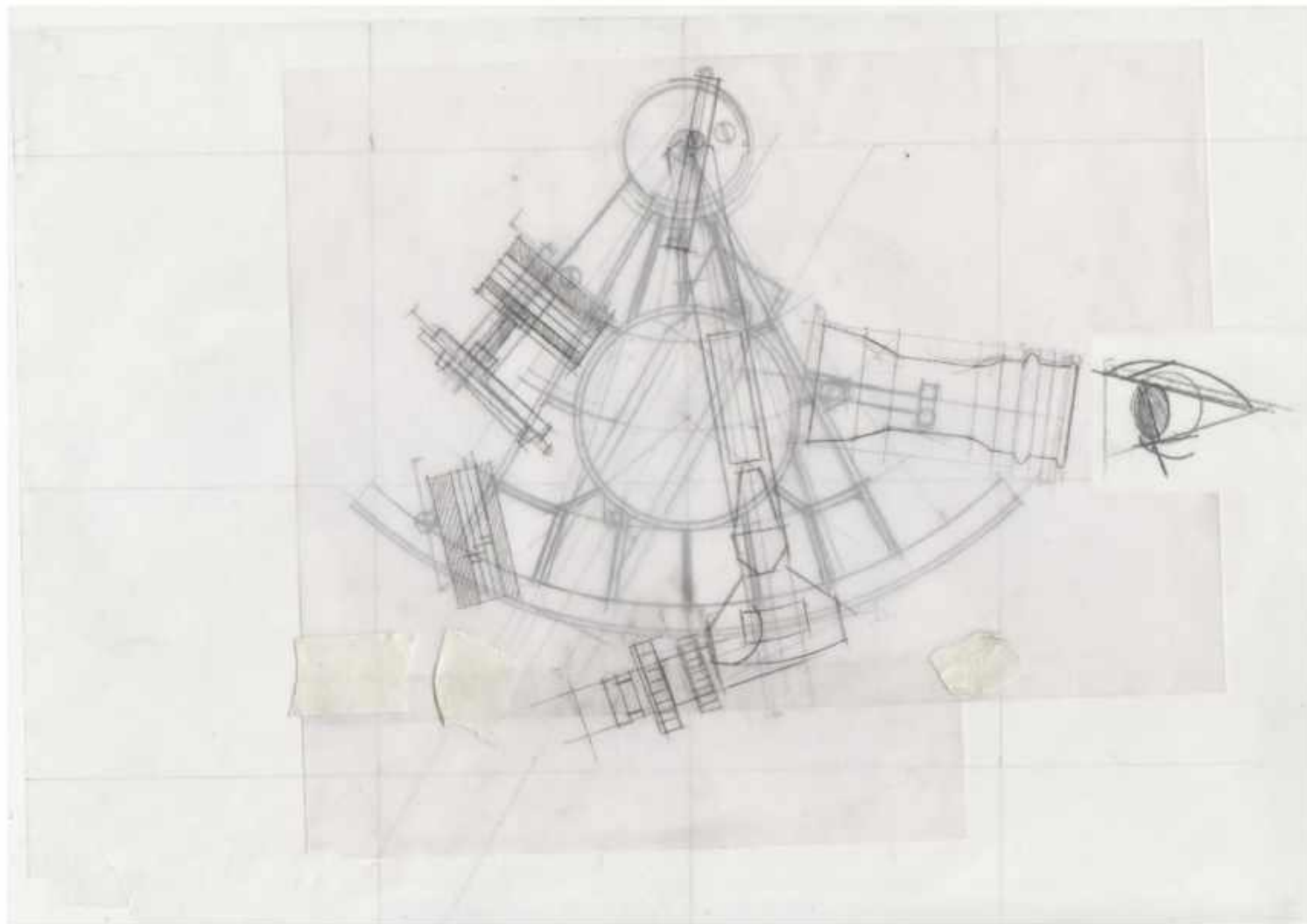
rod



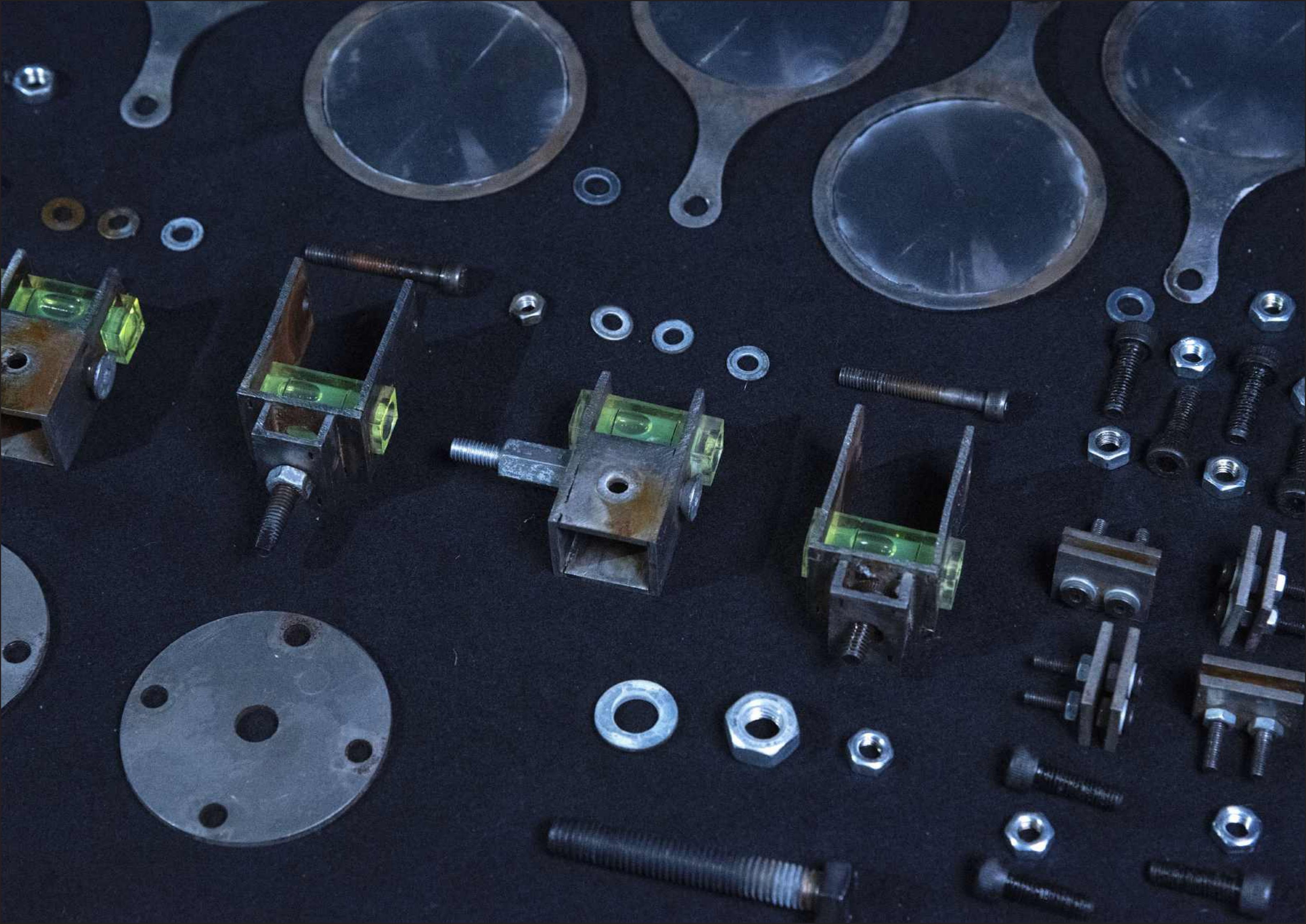


Potential solar farm like strategy to harvest energy with tubes from sun radiation. This gives the device a double purpose: create charcoal (fuel and then biochar) and create an energy exchange.

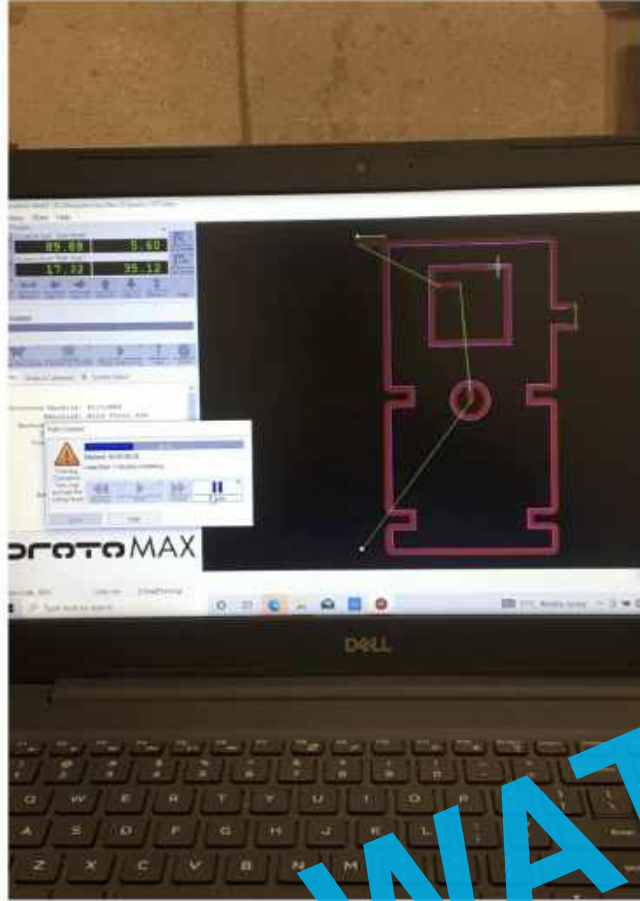




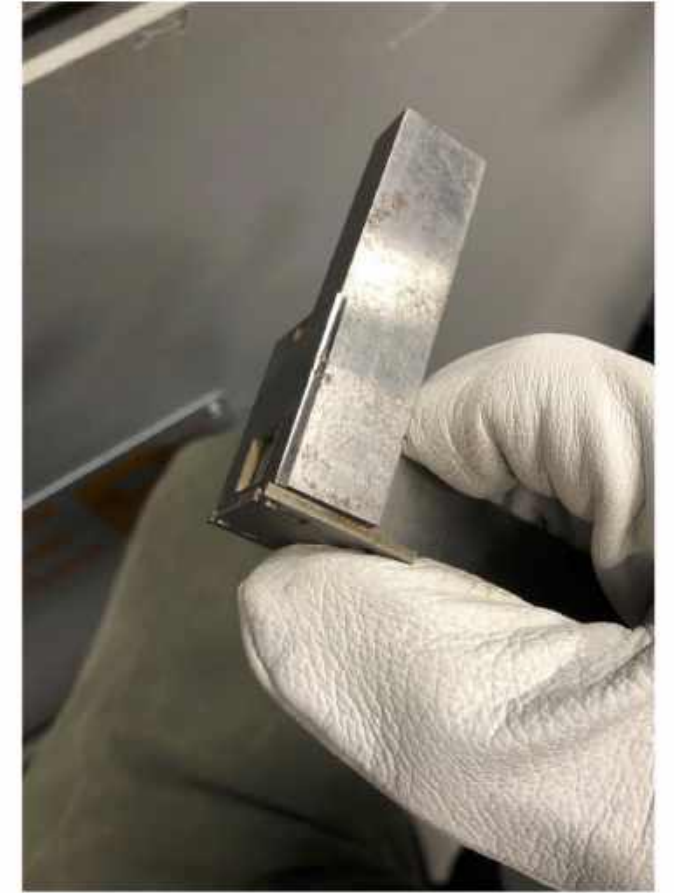




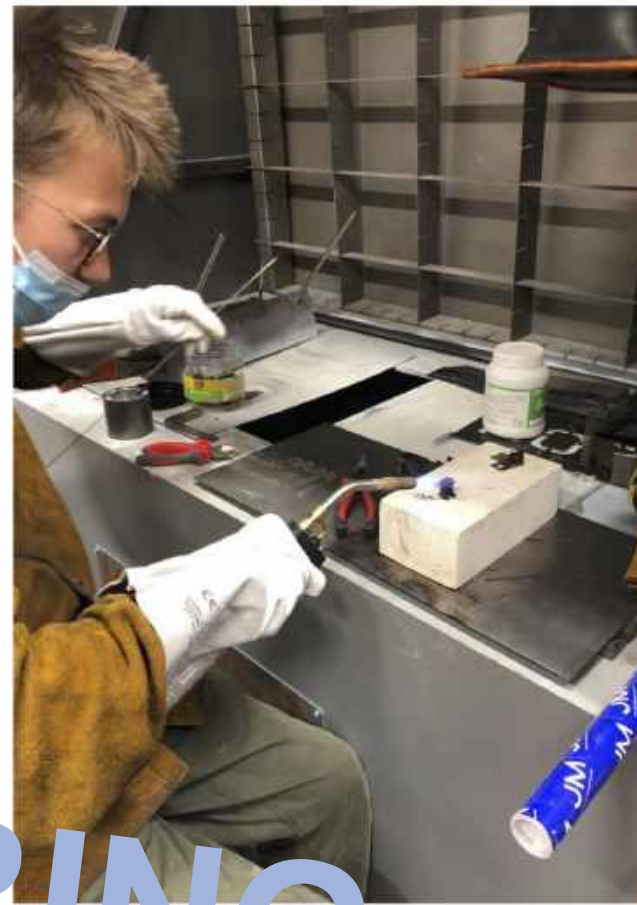
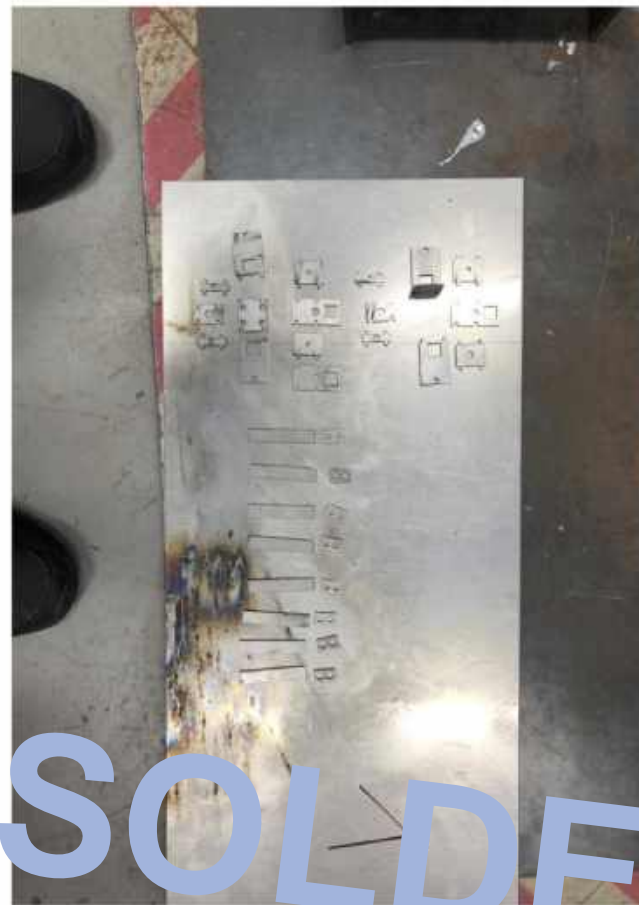
Water jet cutting



Silver soldering parts



WATER JET CUTTING



SILVER SOLDERING



