# *BOT

Skylar Tibbits

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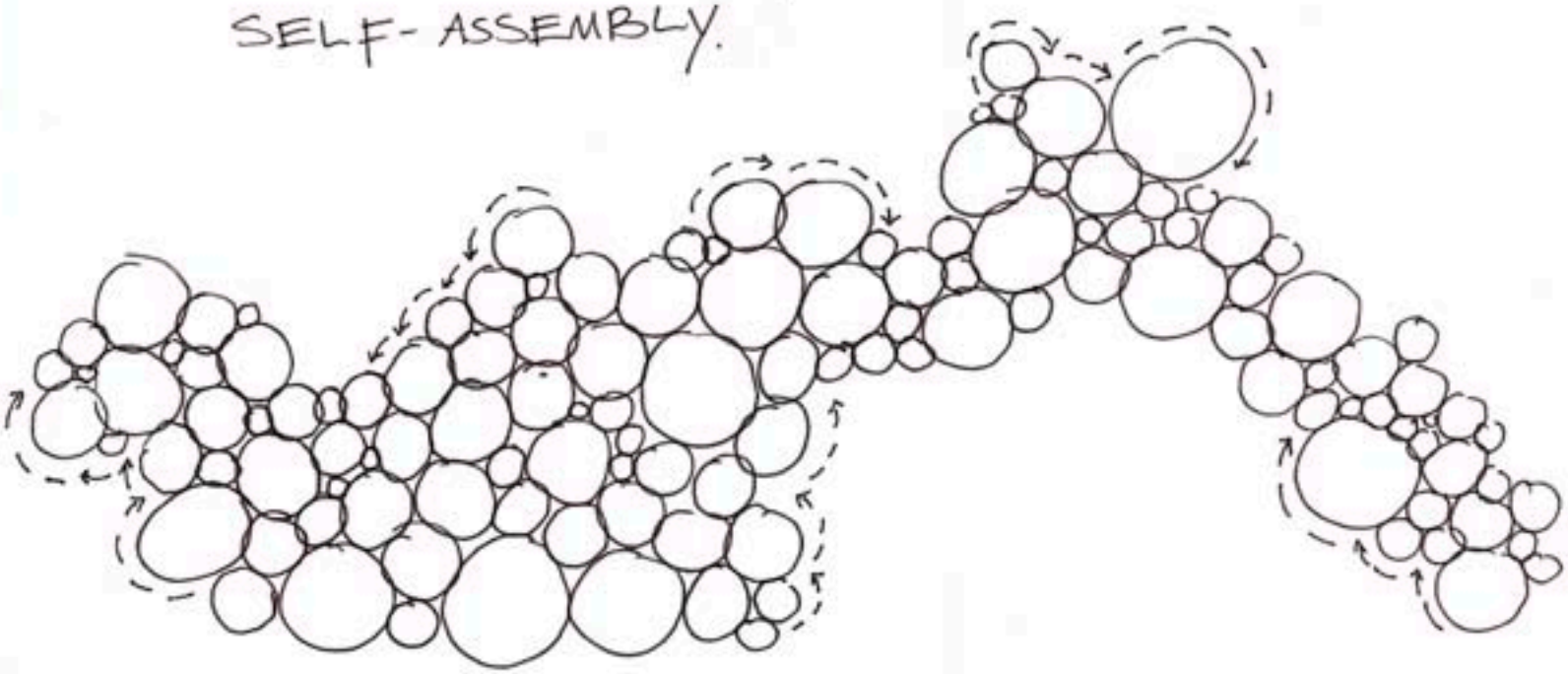
Many Thanks : Steffen Reichert, Jonathan Ward, Max Lobovsky, Veronica Emig, Ilan Moyer

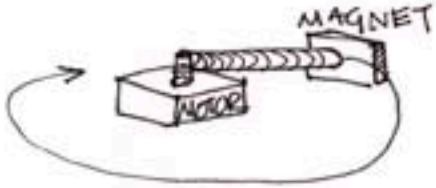
# SPHERE PACKING
## SELF-ASSEMBLY.



- COMPONENTS

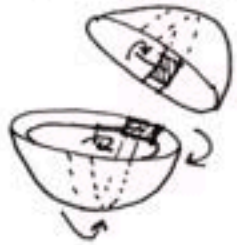
MAGNETIC ATTRACTION
&
ROTATIONAL ABILITY

- BATTERY
- MICROCONTROLLER
- MOTOR /SERVO
- MAGNETS / ELECTRO OR SOLENOID
- DISCS /STRUCTURE
- SPHERE SHELL




MOTOR ROTATION OF MAGNET.

BIDIRECTIONAL ROTATION OF MAGNET W/ OPPOSED TRACK SYSTEM



SPHERE HALVES

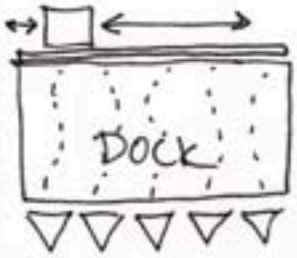
MAGNET TRACK SYSTEM

DISC 1

DISC 2

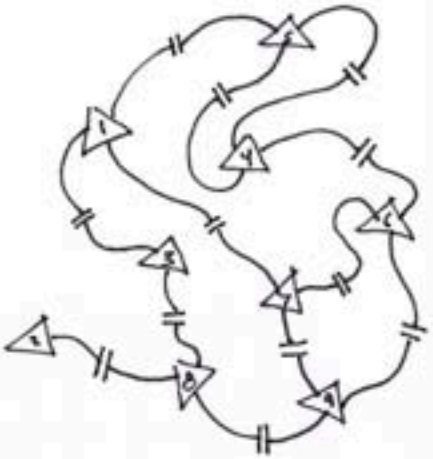
# 3D SINGLE STRAND FOLDING SYSTEM

DOCKING UNIT TO ASSEMBLE CODE



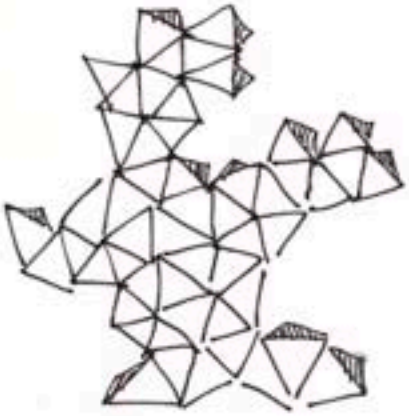

1.

STRING ASSEMBLY



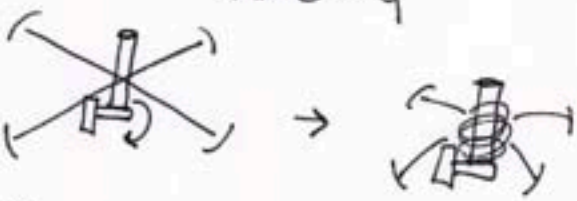
2.

ASSEMBLED FORM



3.

WINDING

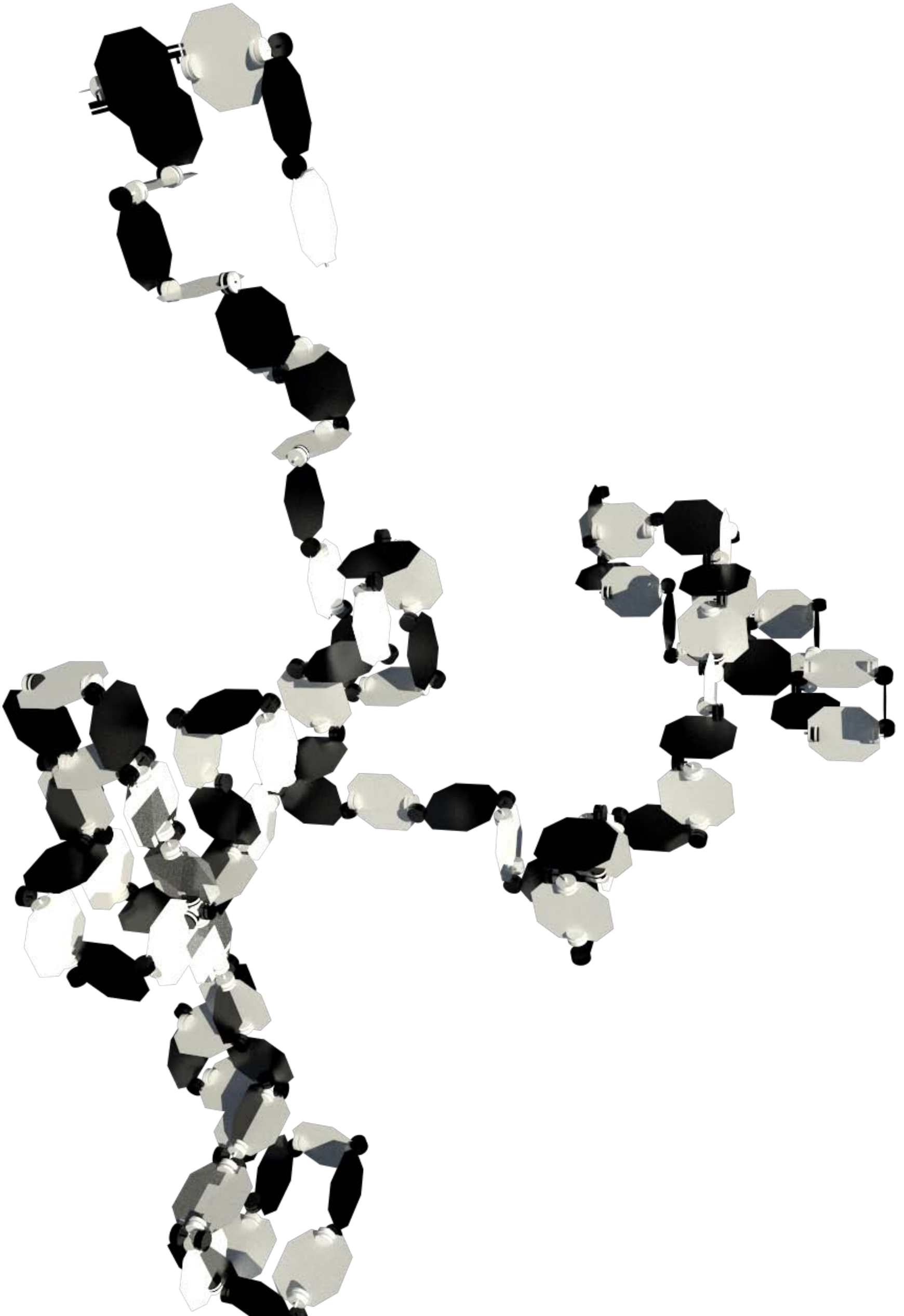


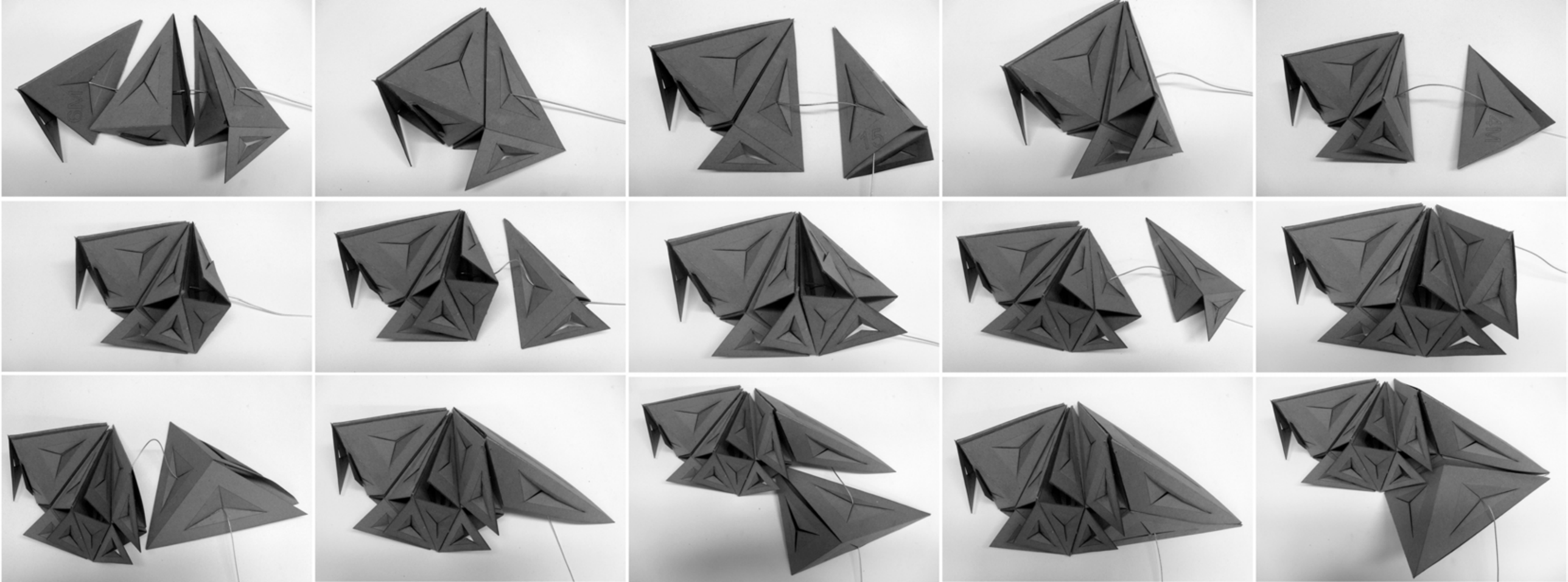

## COMPONENTS

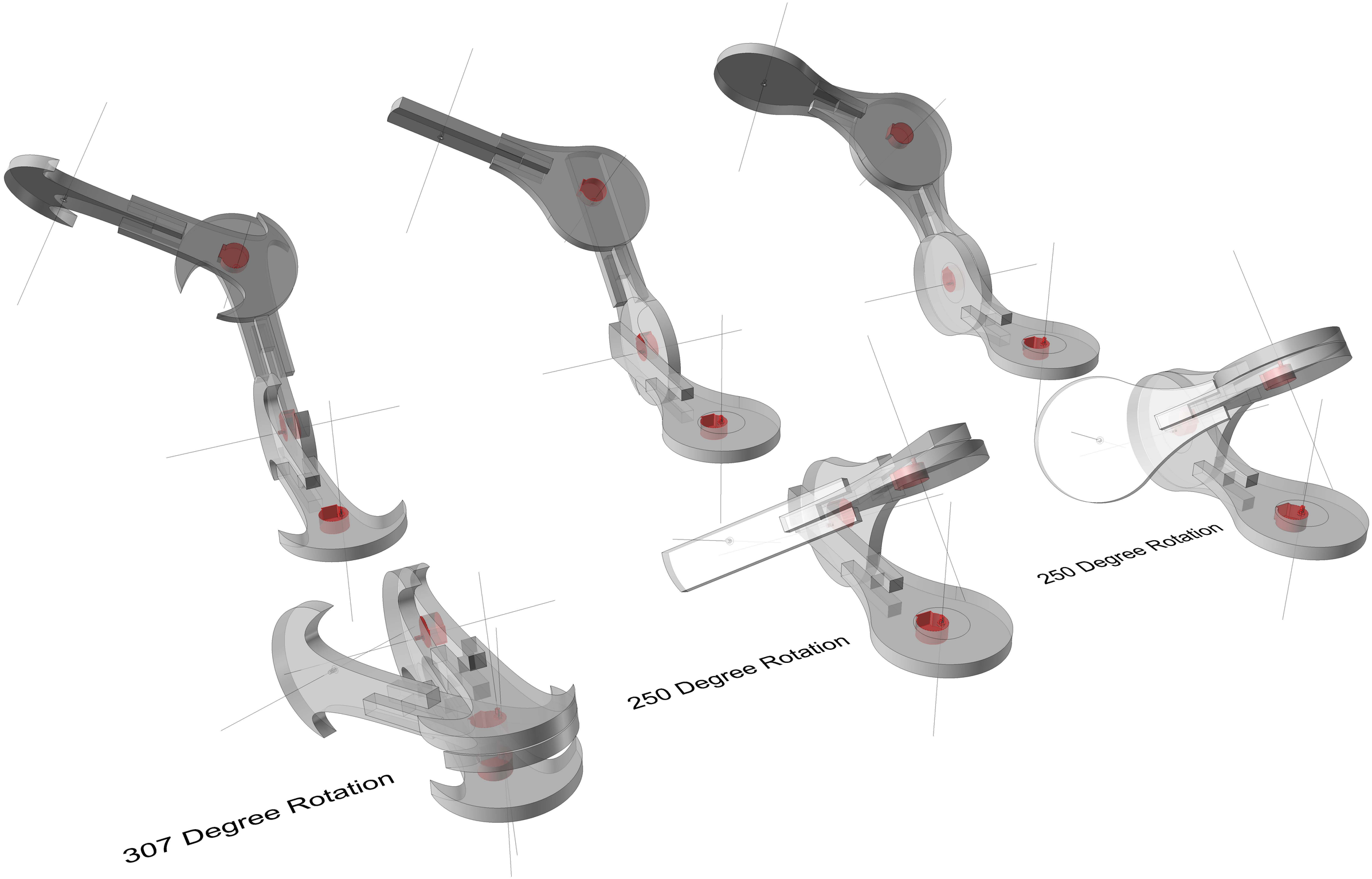
- BATTERY
- MICROCONTROLLER
- SERVO MOTOR
- STRINGS
- MAGNETS
- SHELL (METAL or BOARD)

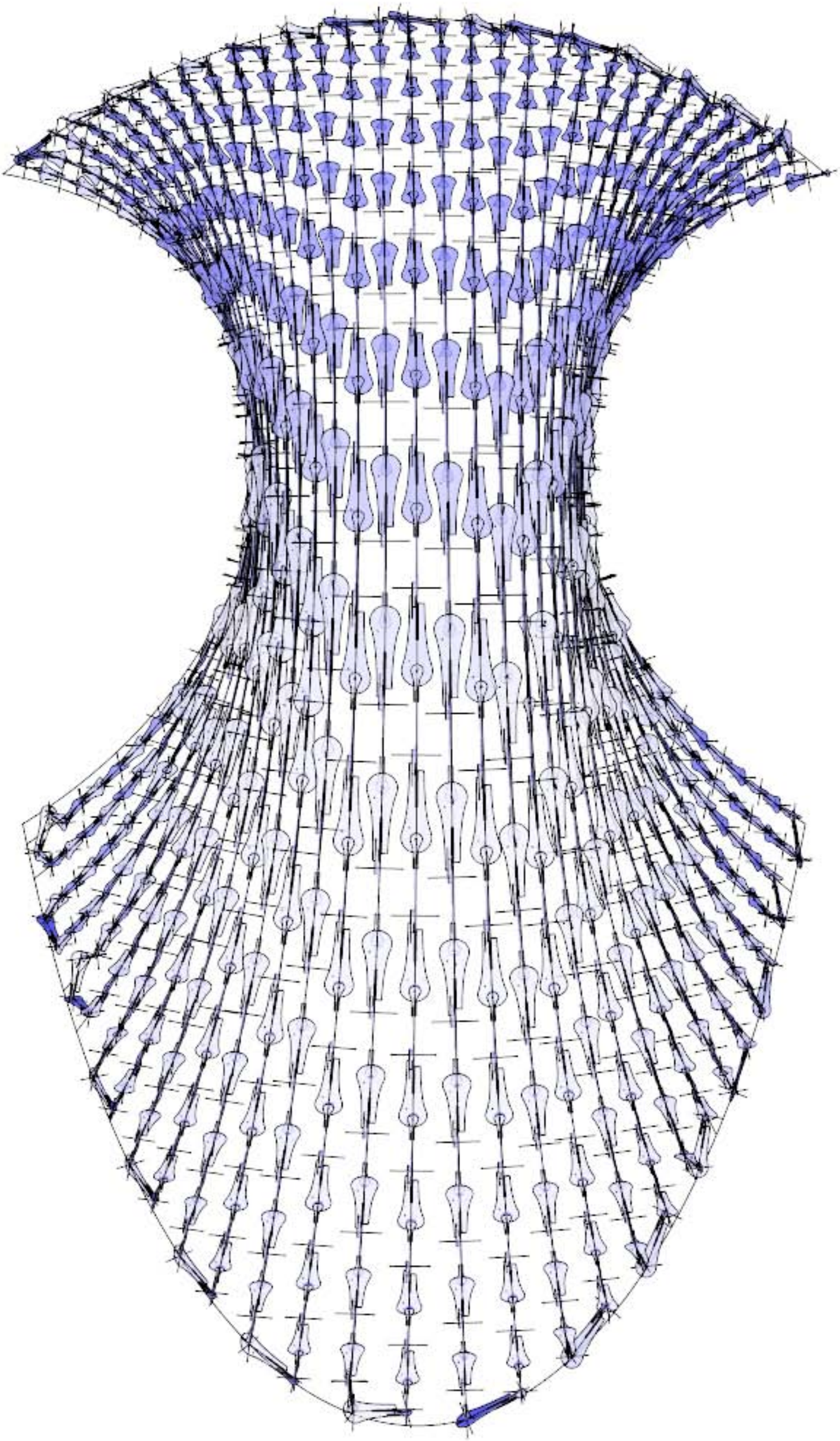
UNFOLDED TETRAHEDRA

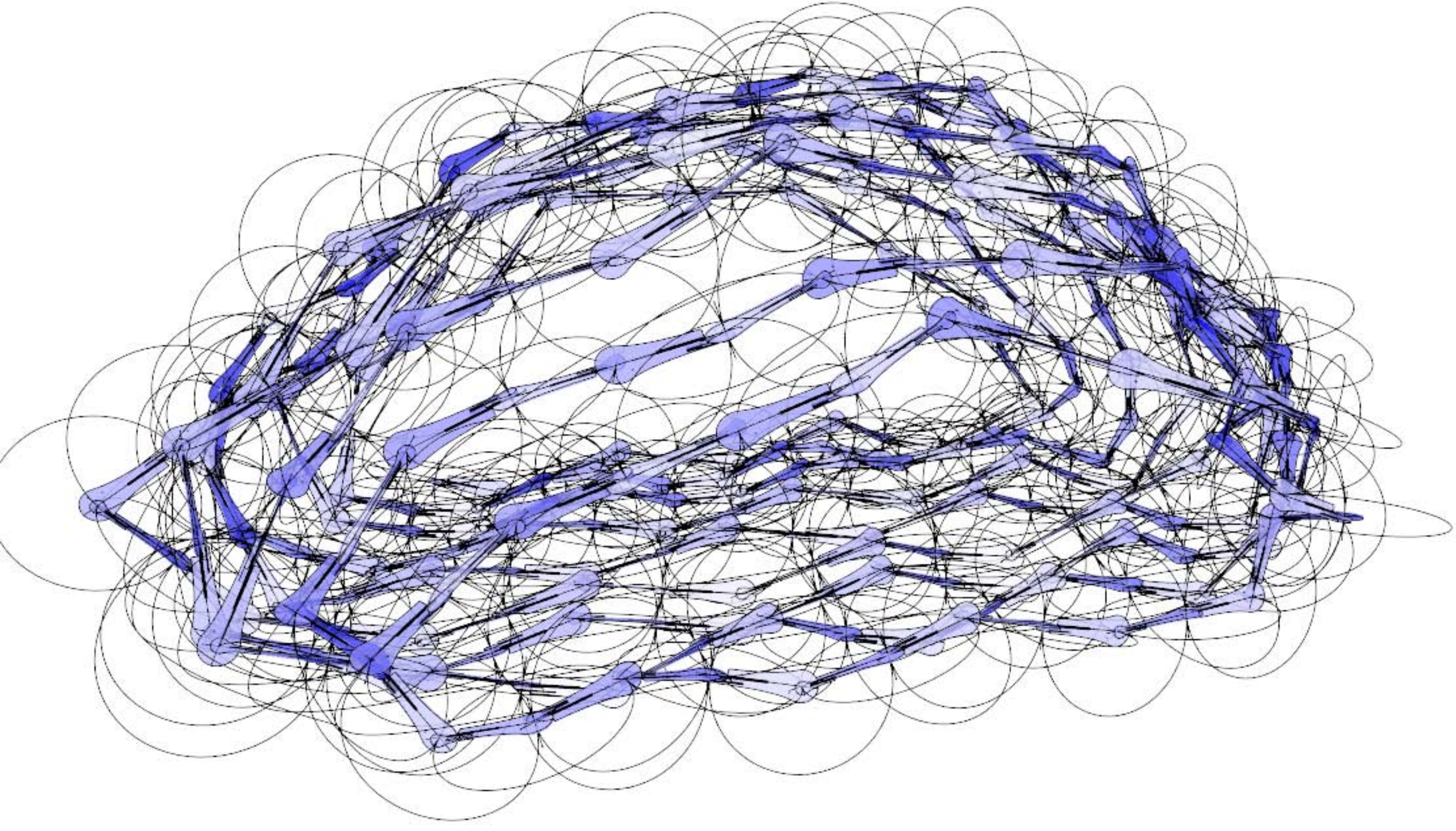
3D PROTEIN FOLDING






307 Degree Rotation
250 Degree Rotation
250 Degree Rotation





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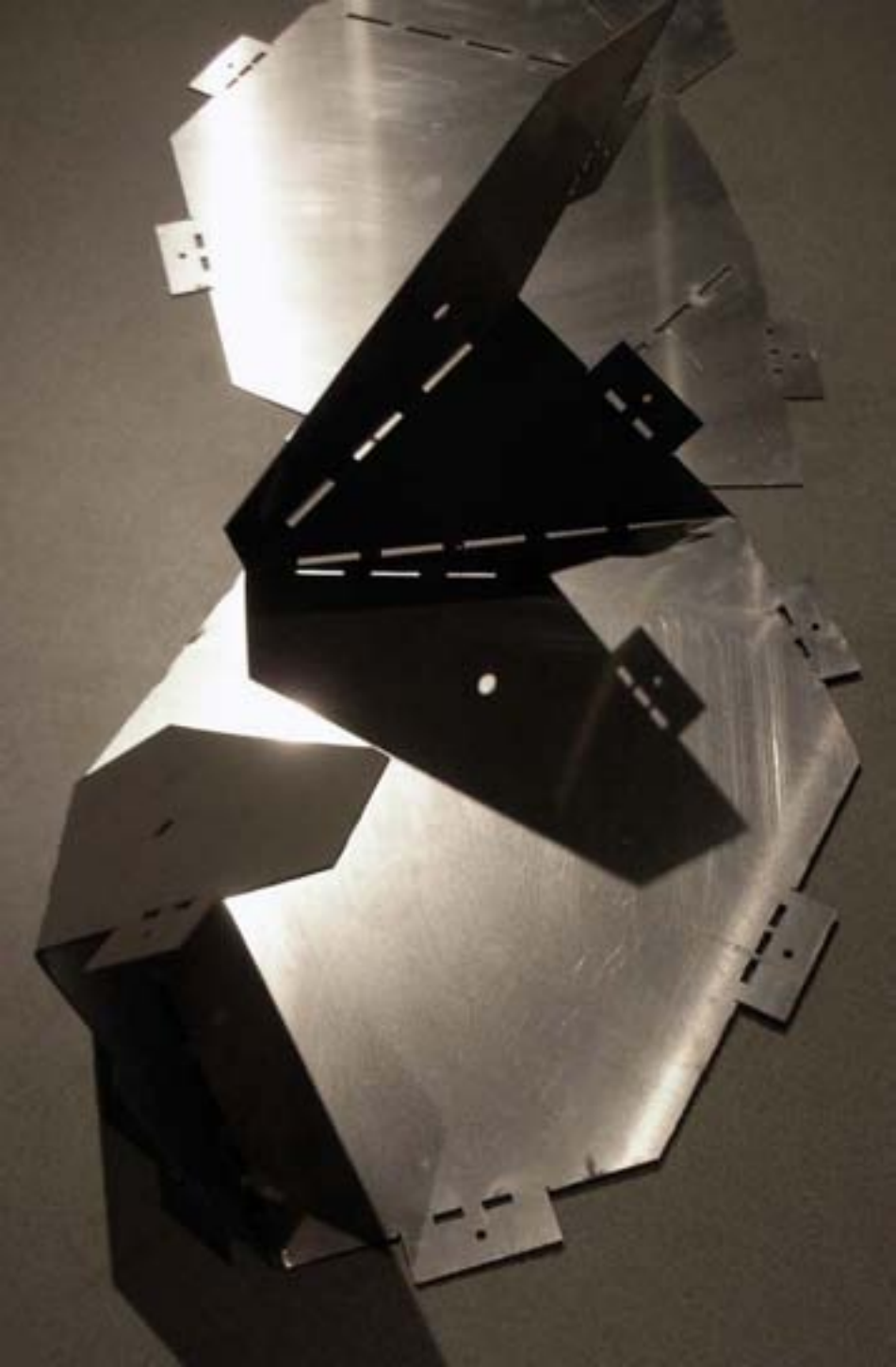

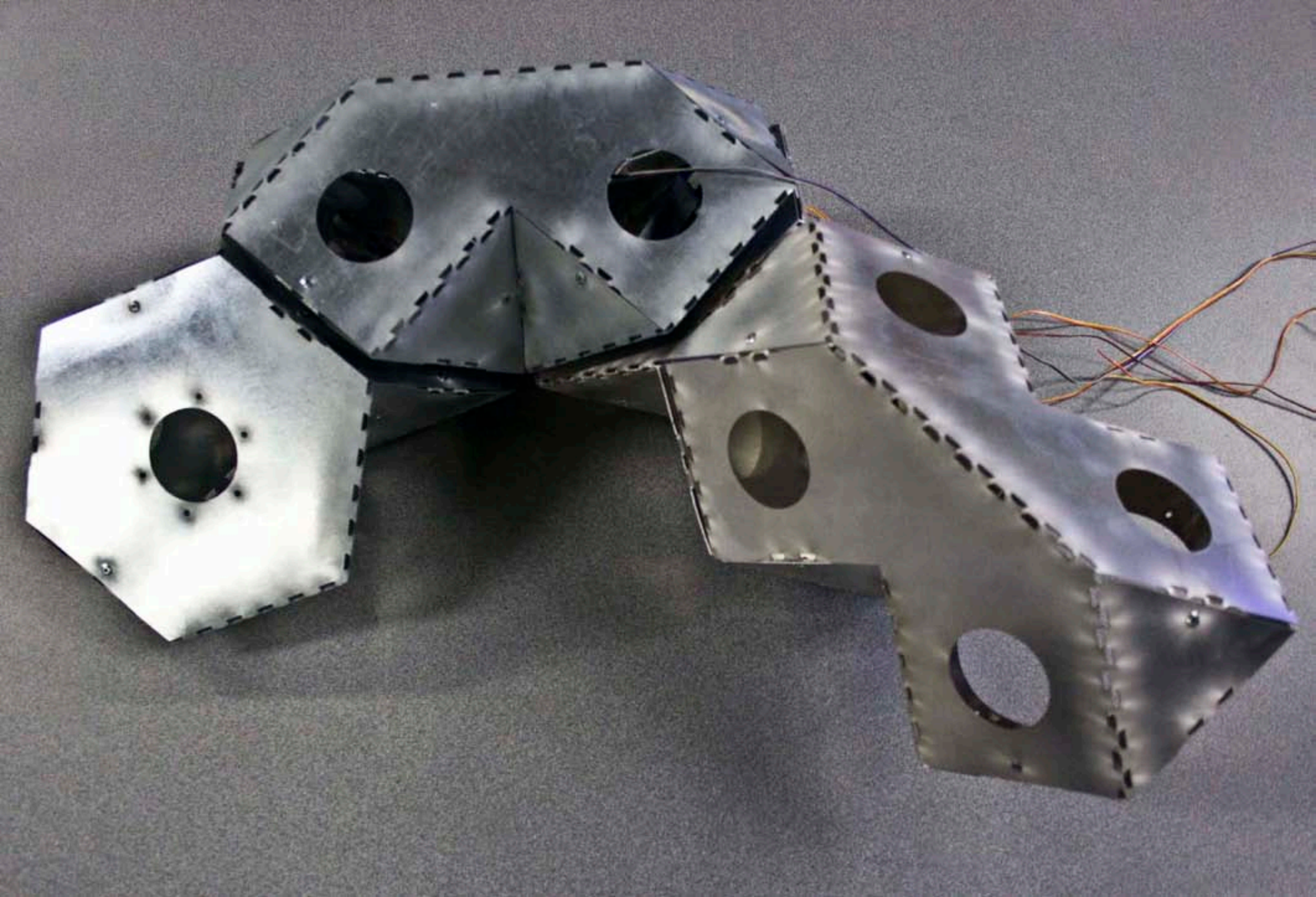

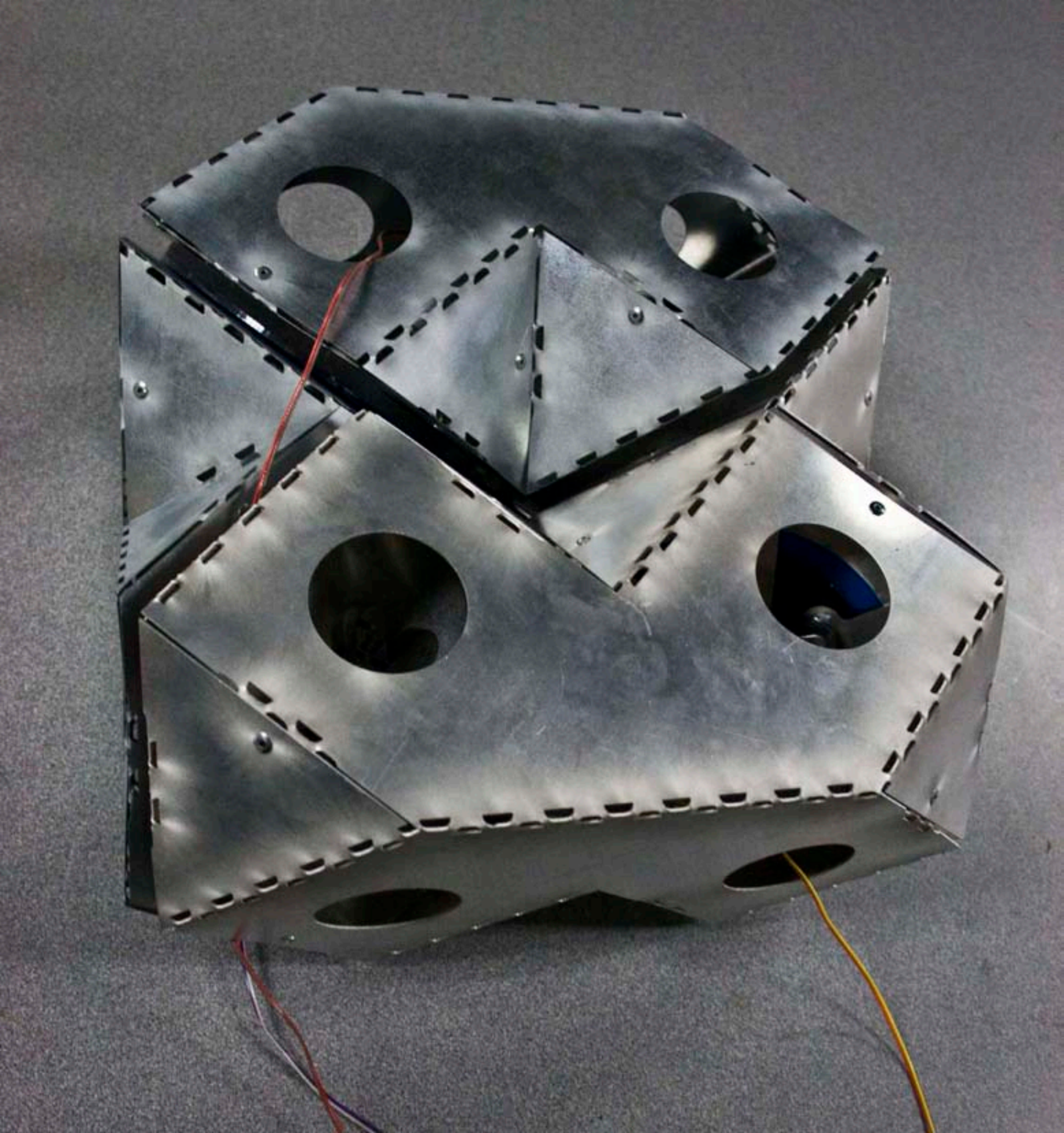

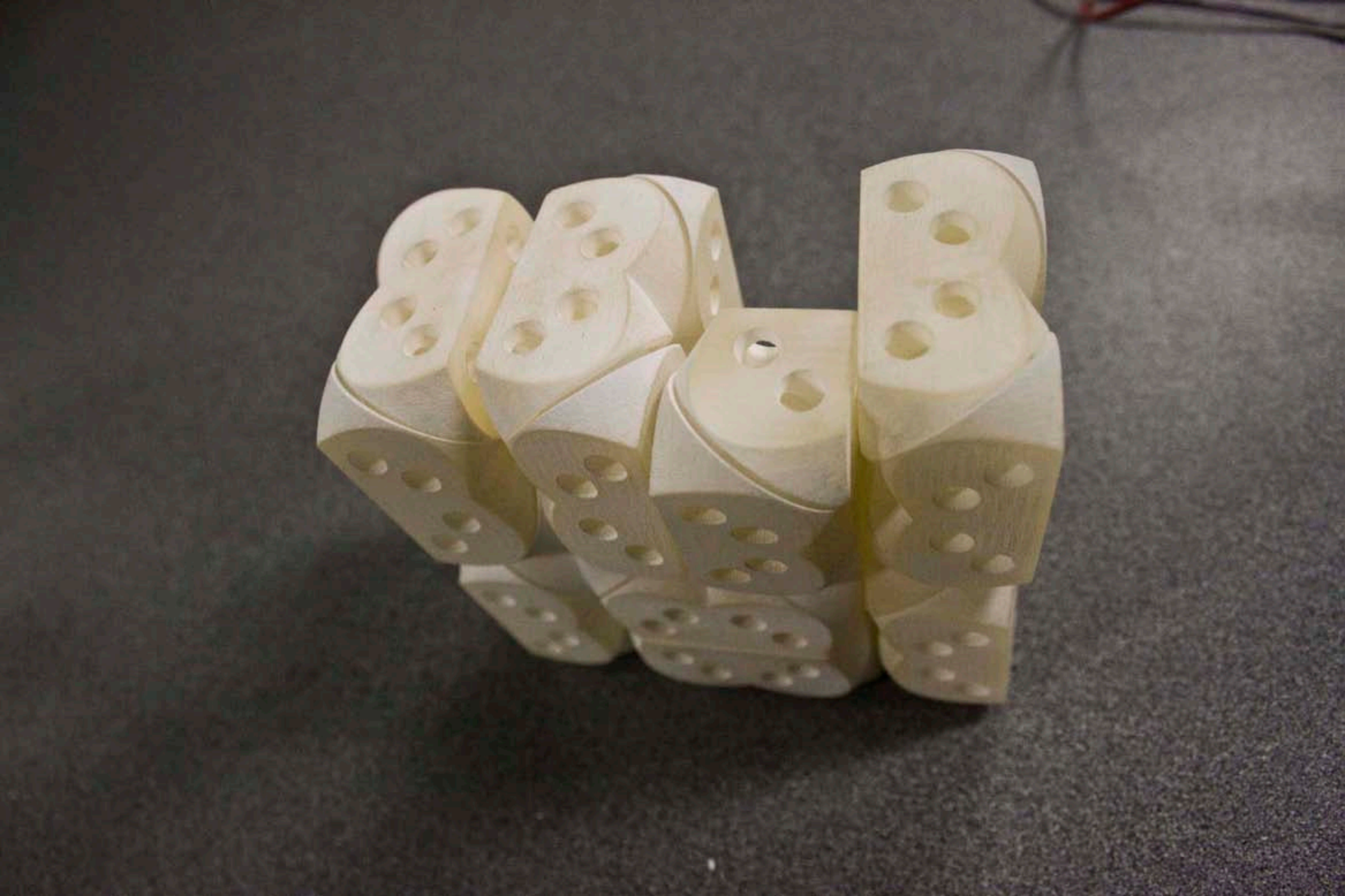

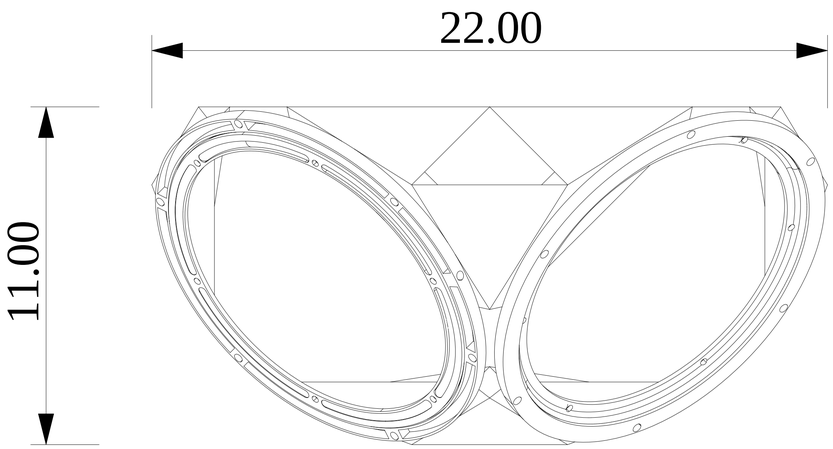


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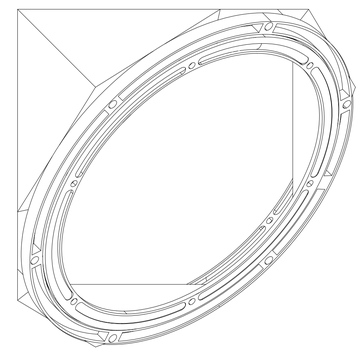

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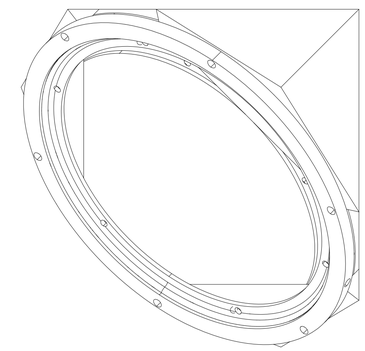

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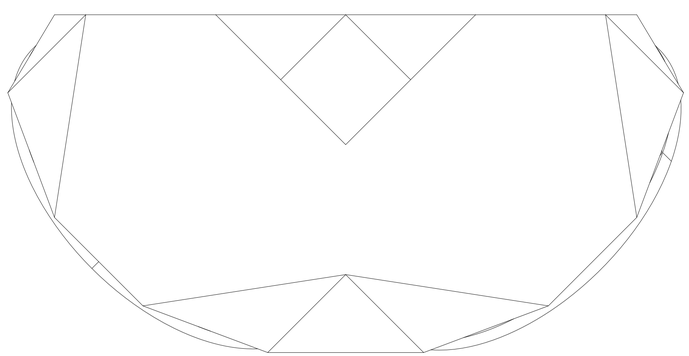

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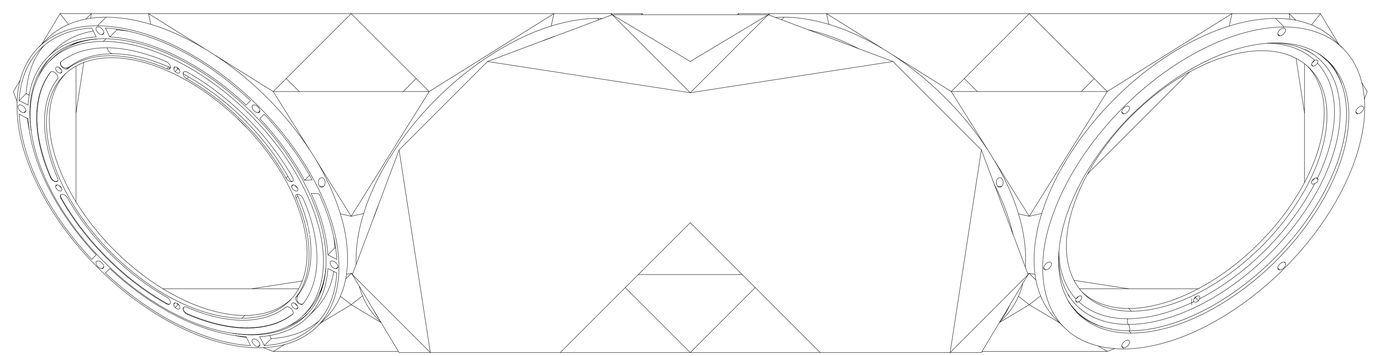

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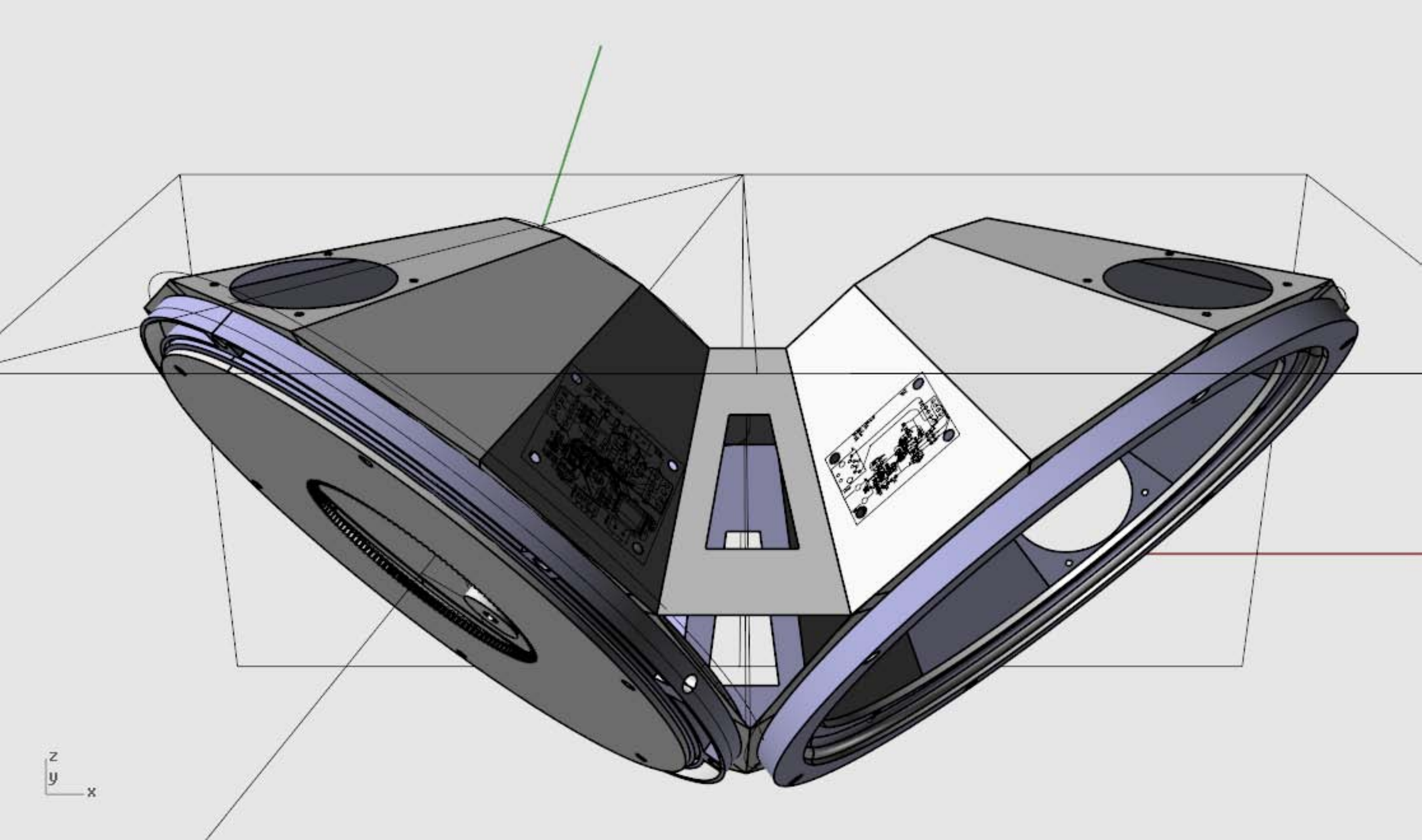
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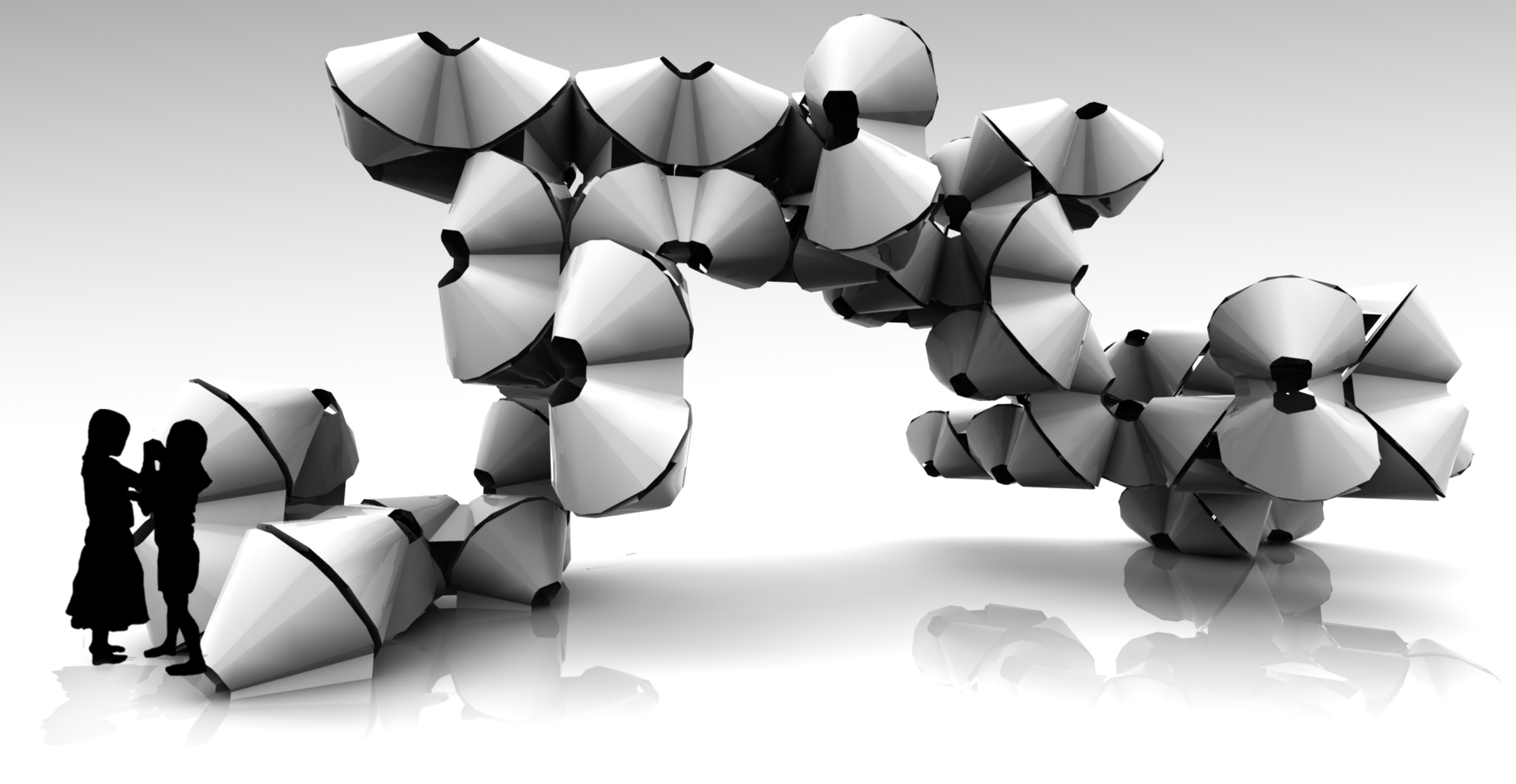

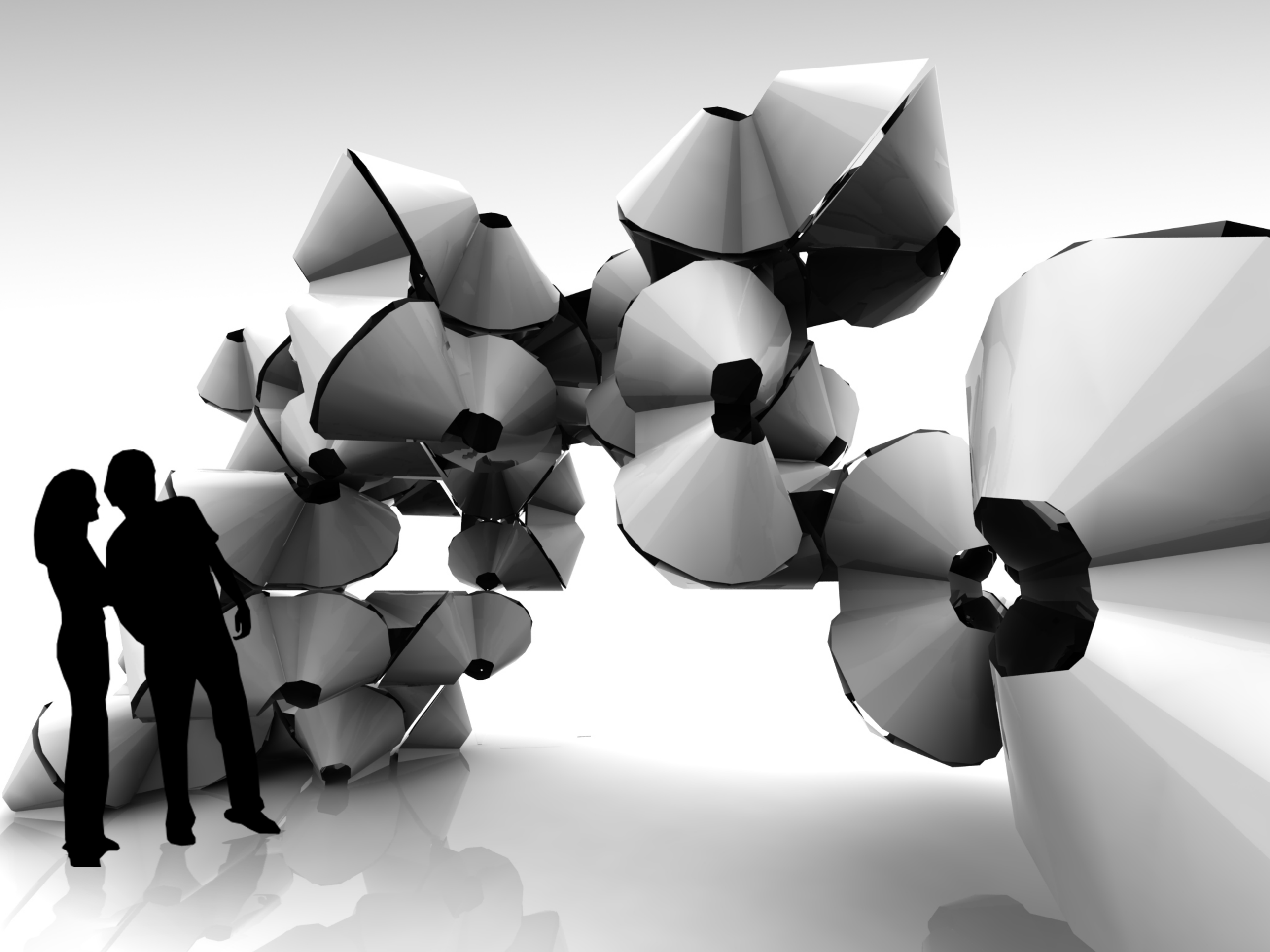

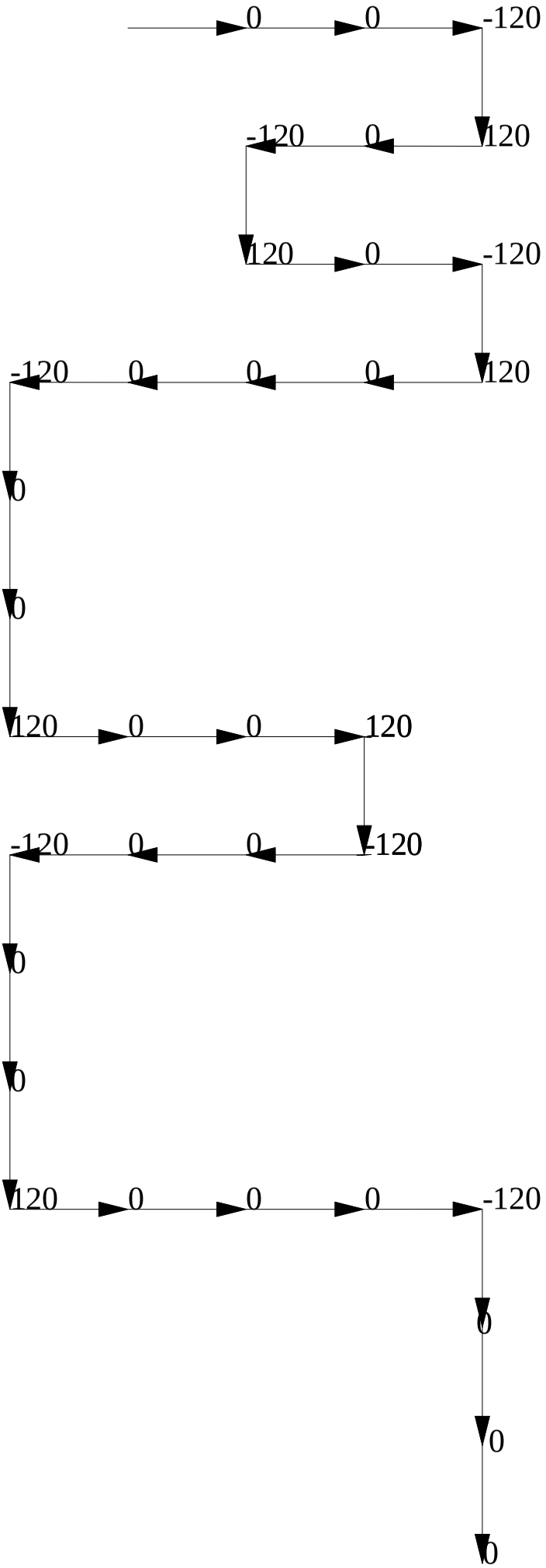
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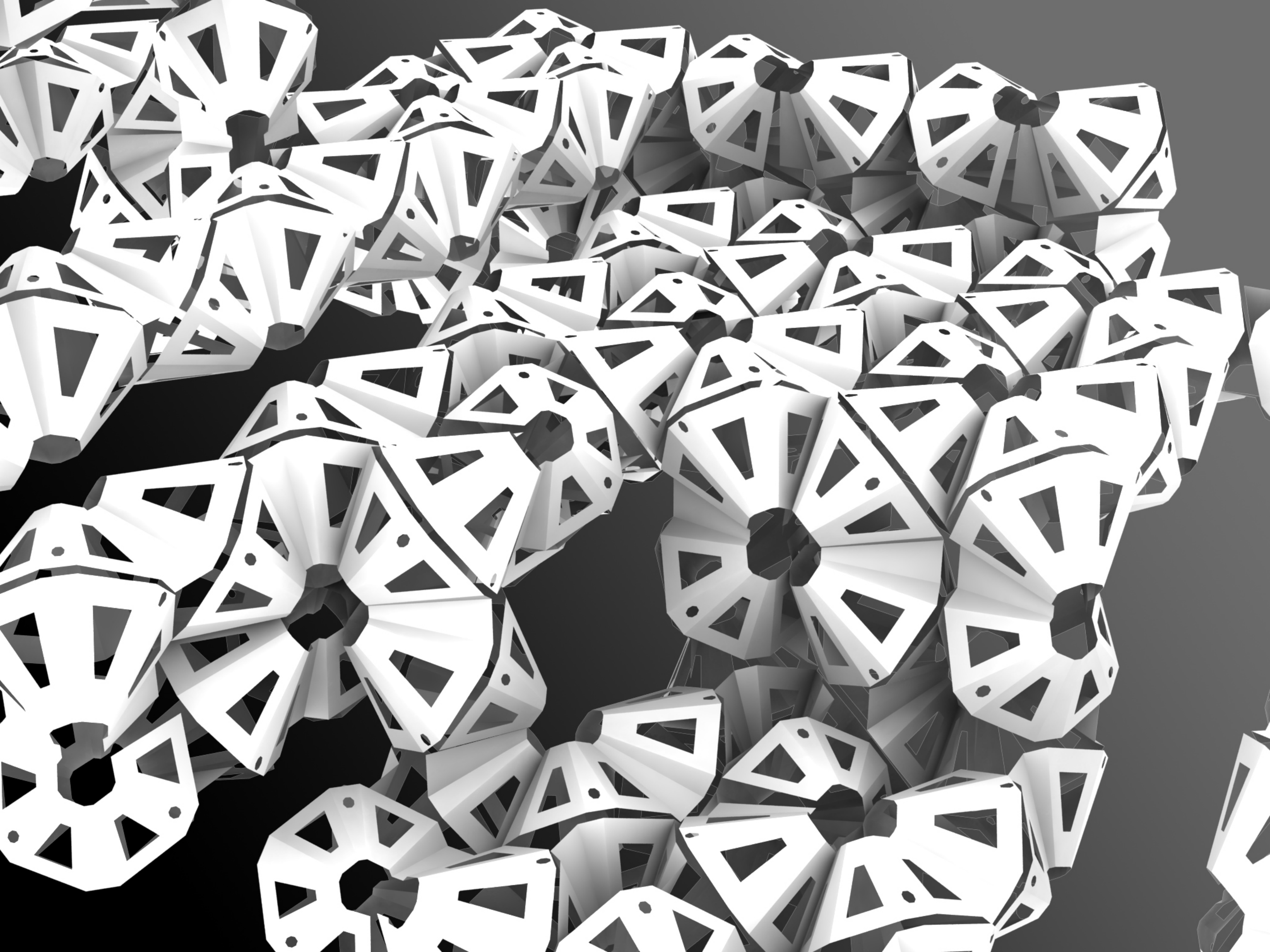

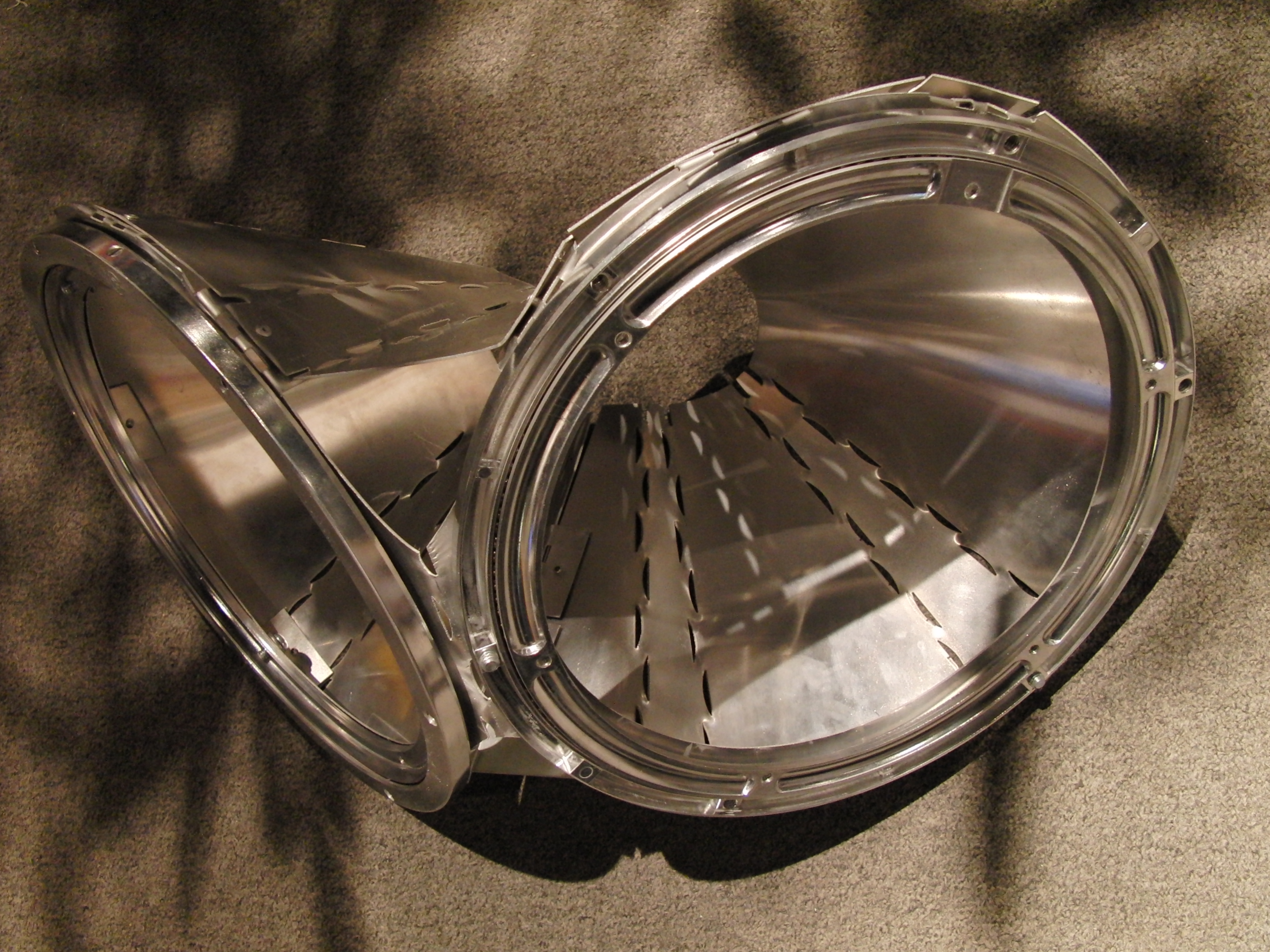

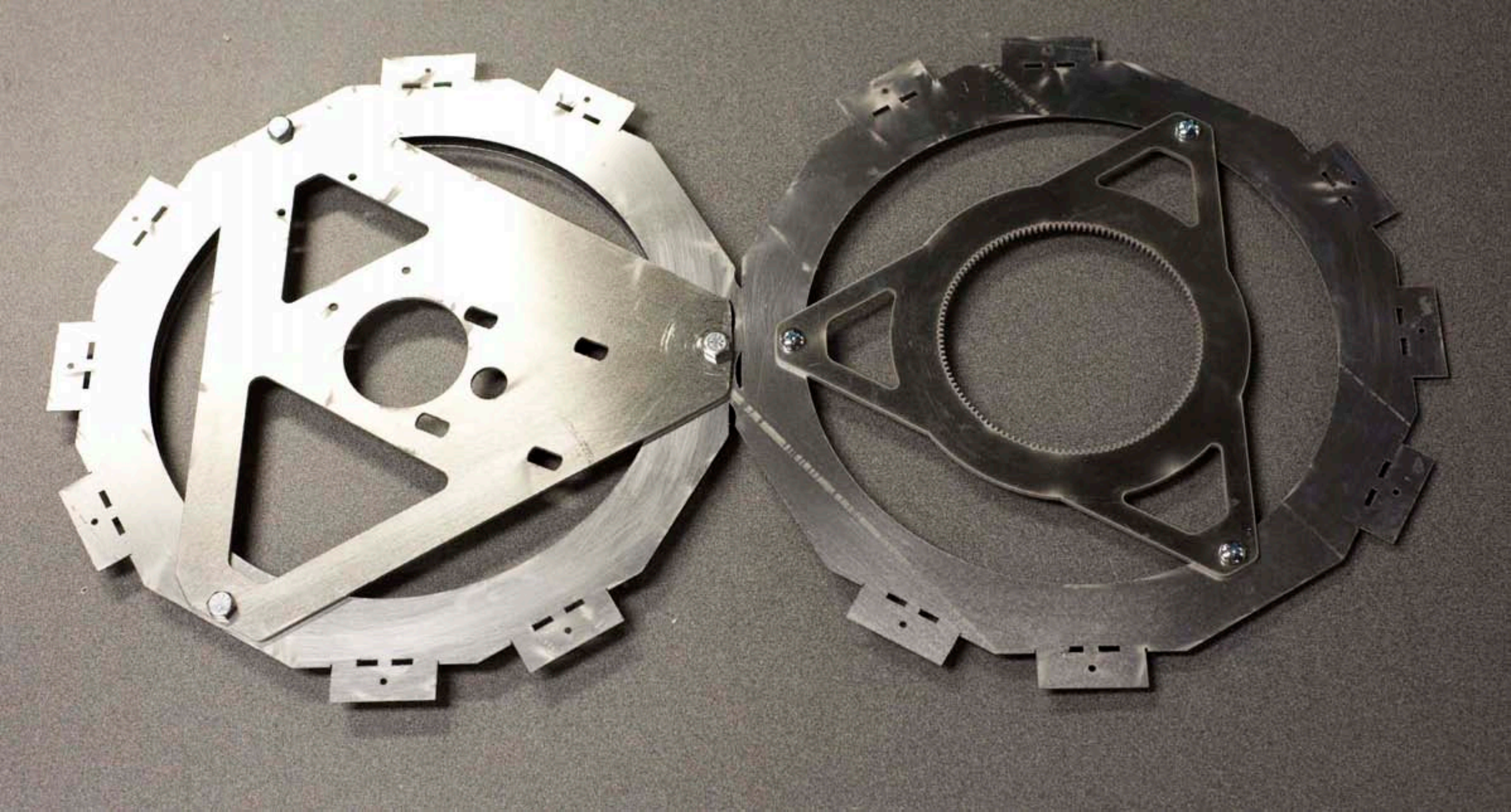

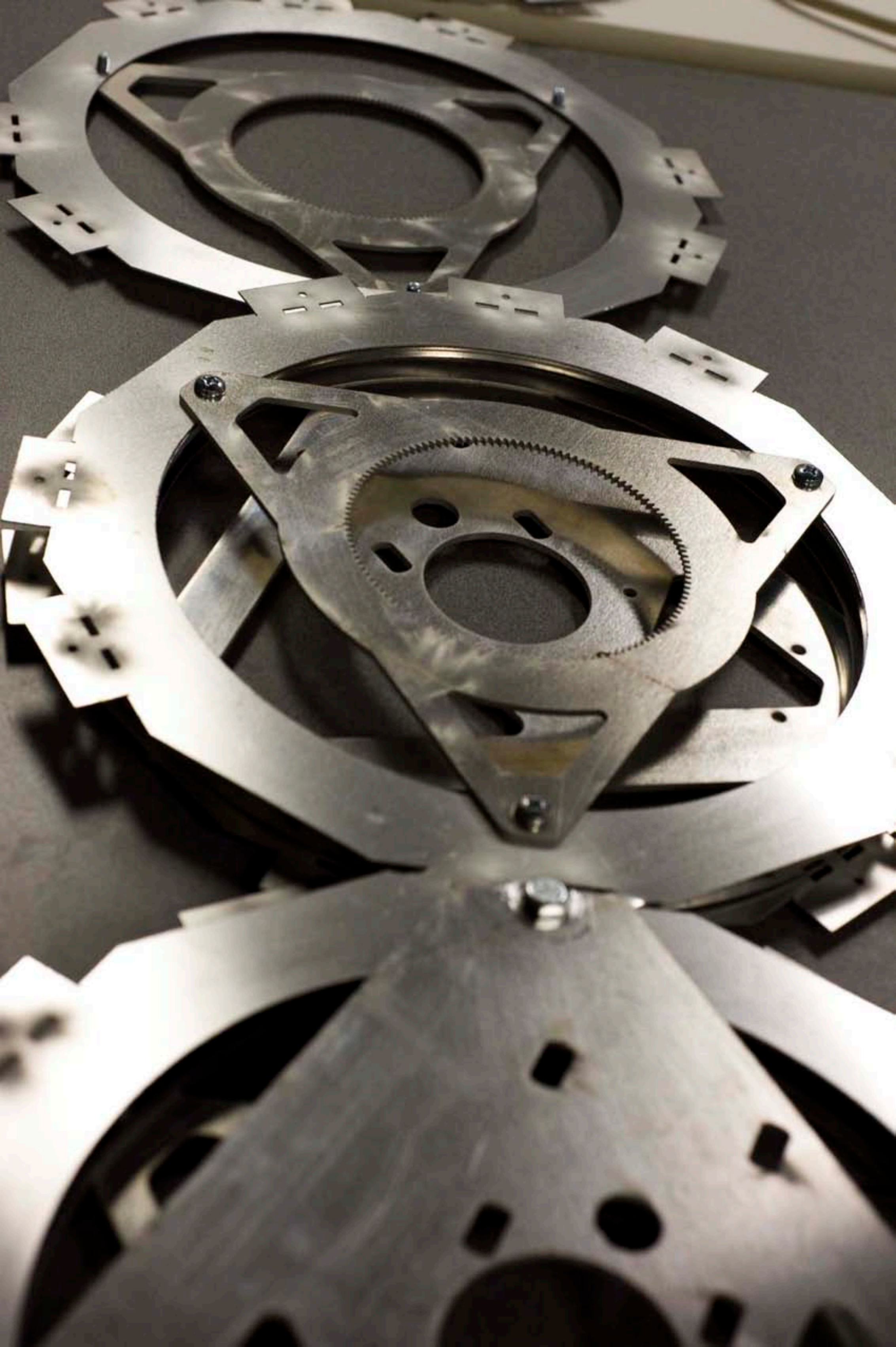

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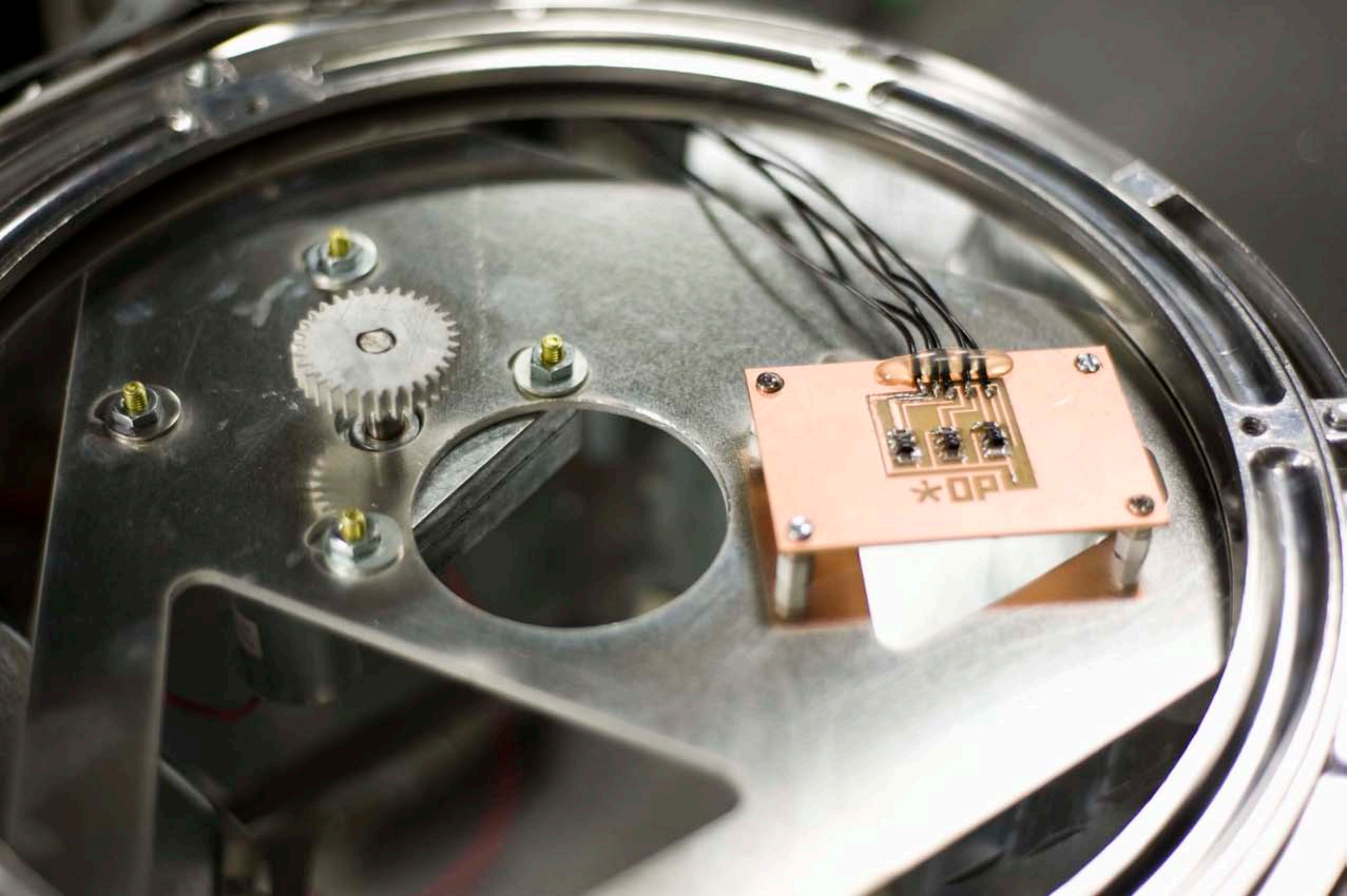
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