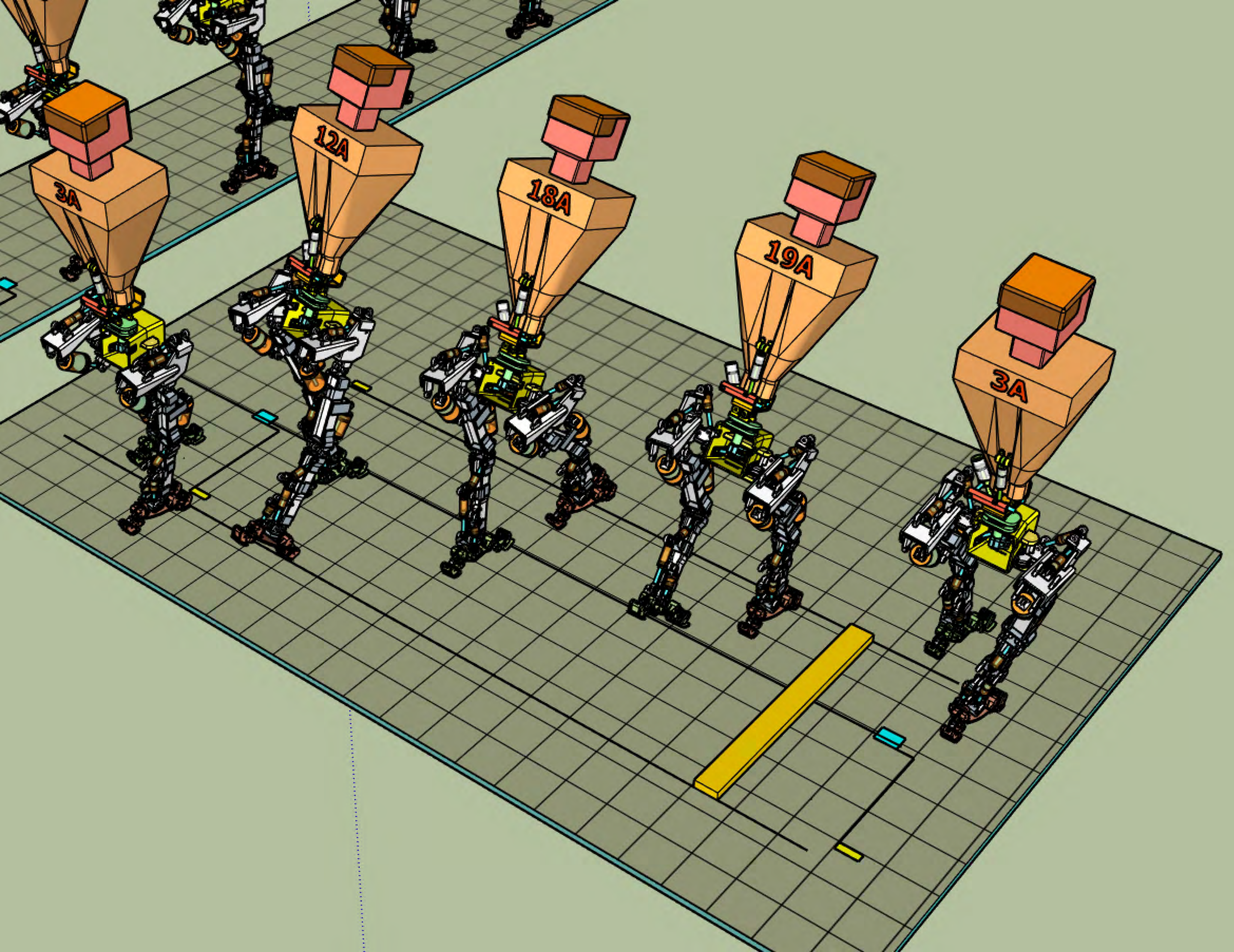
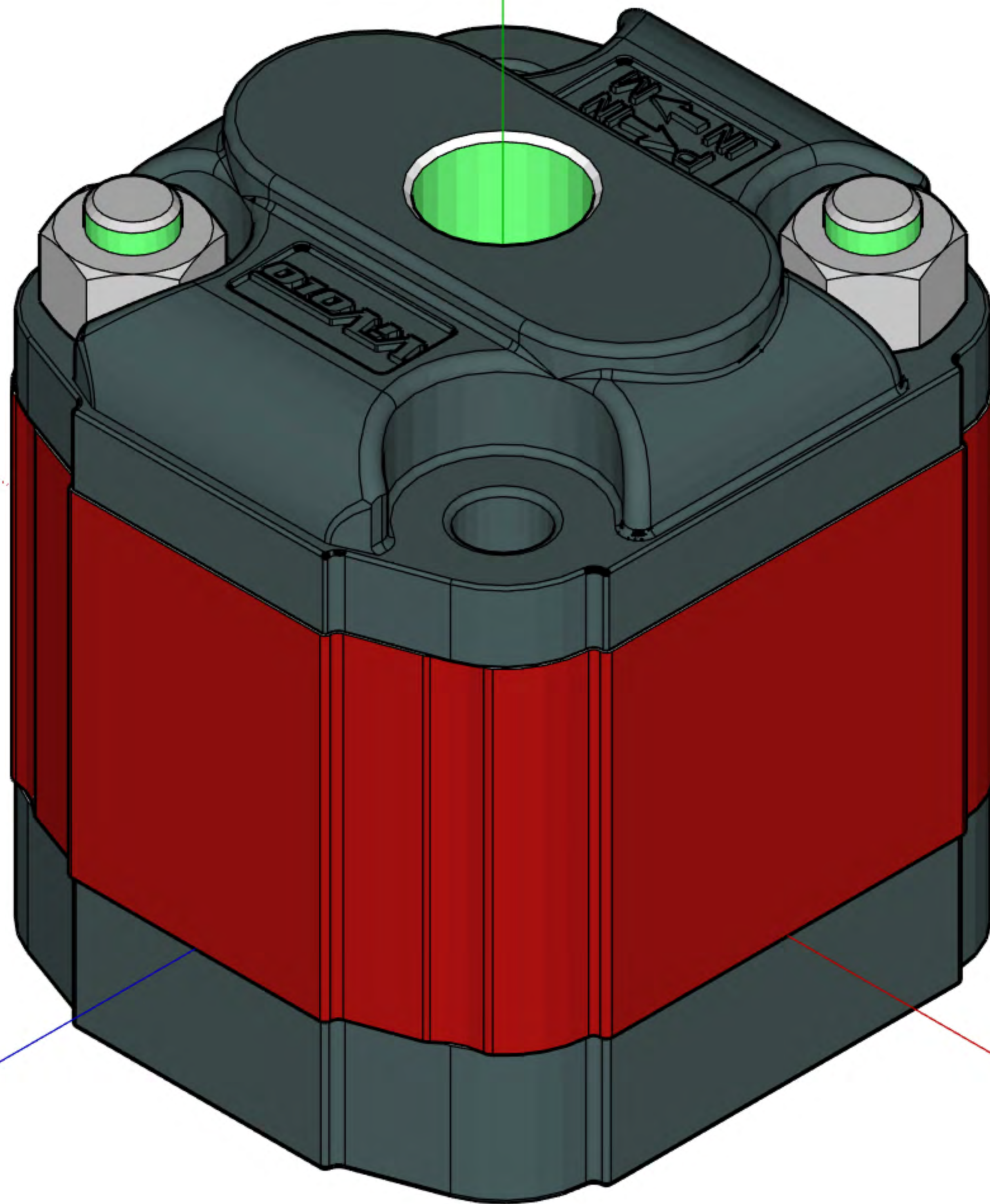
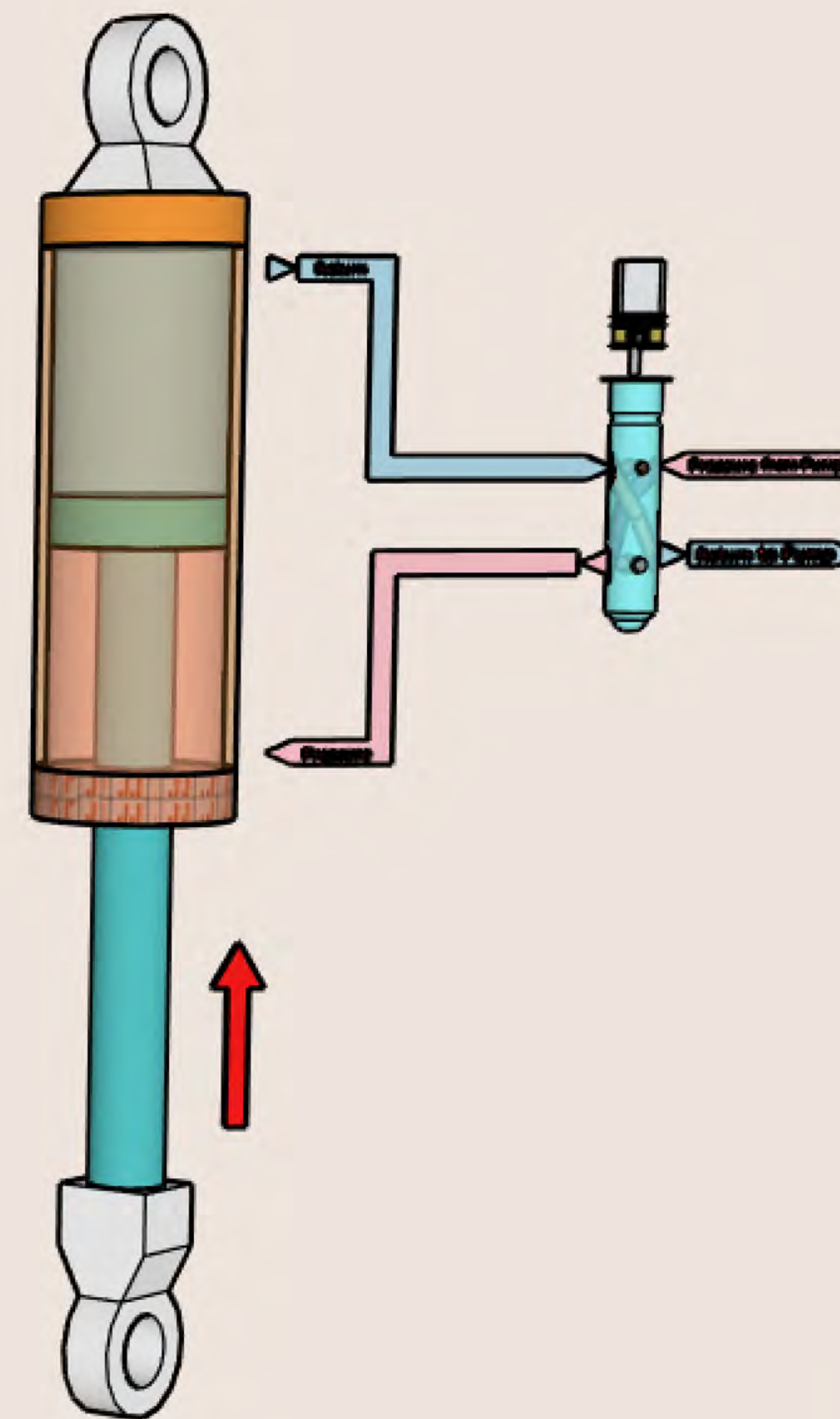
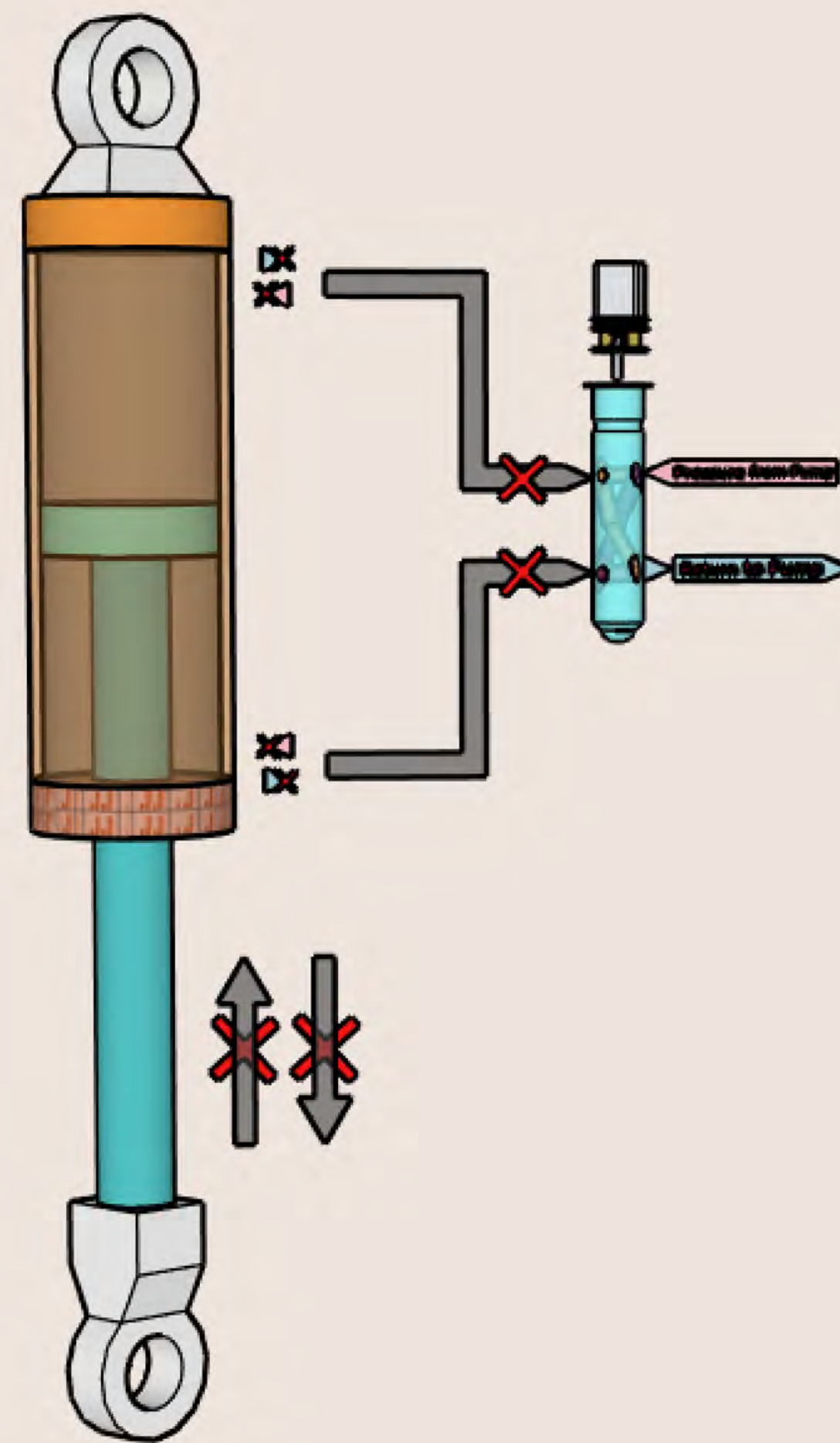
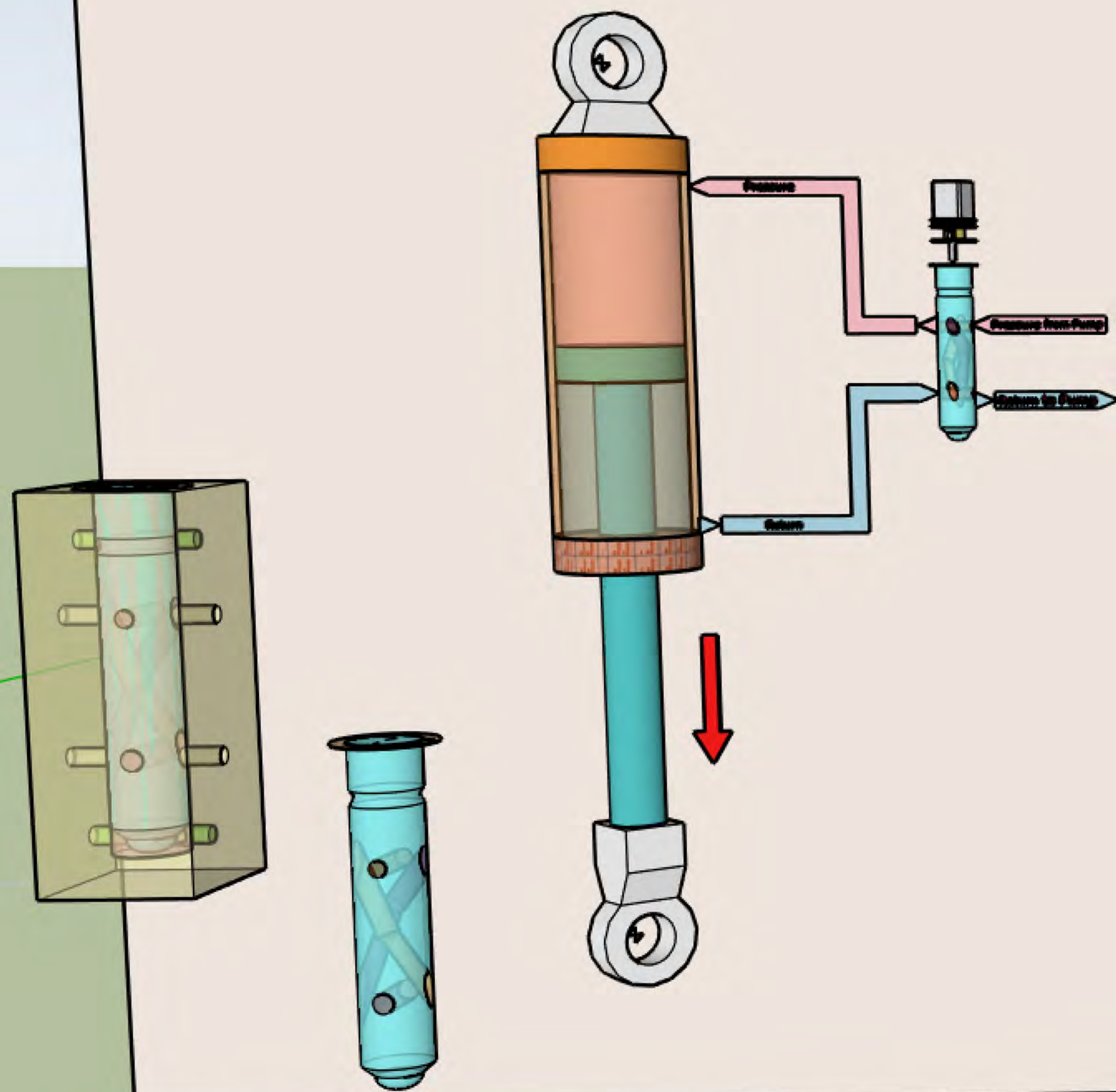


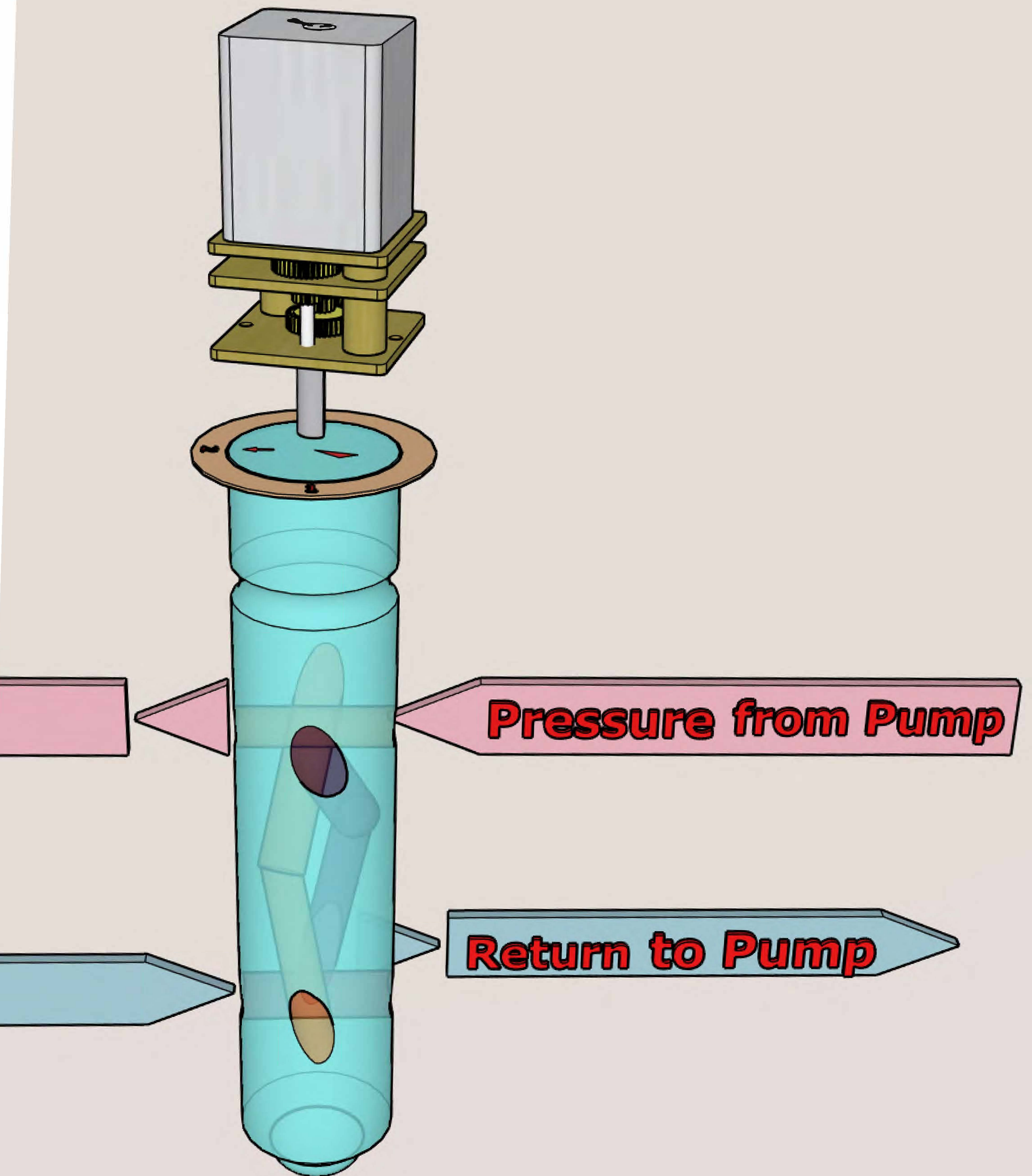


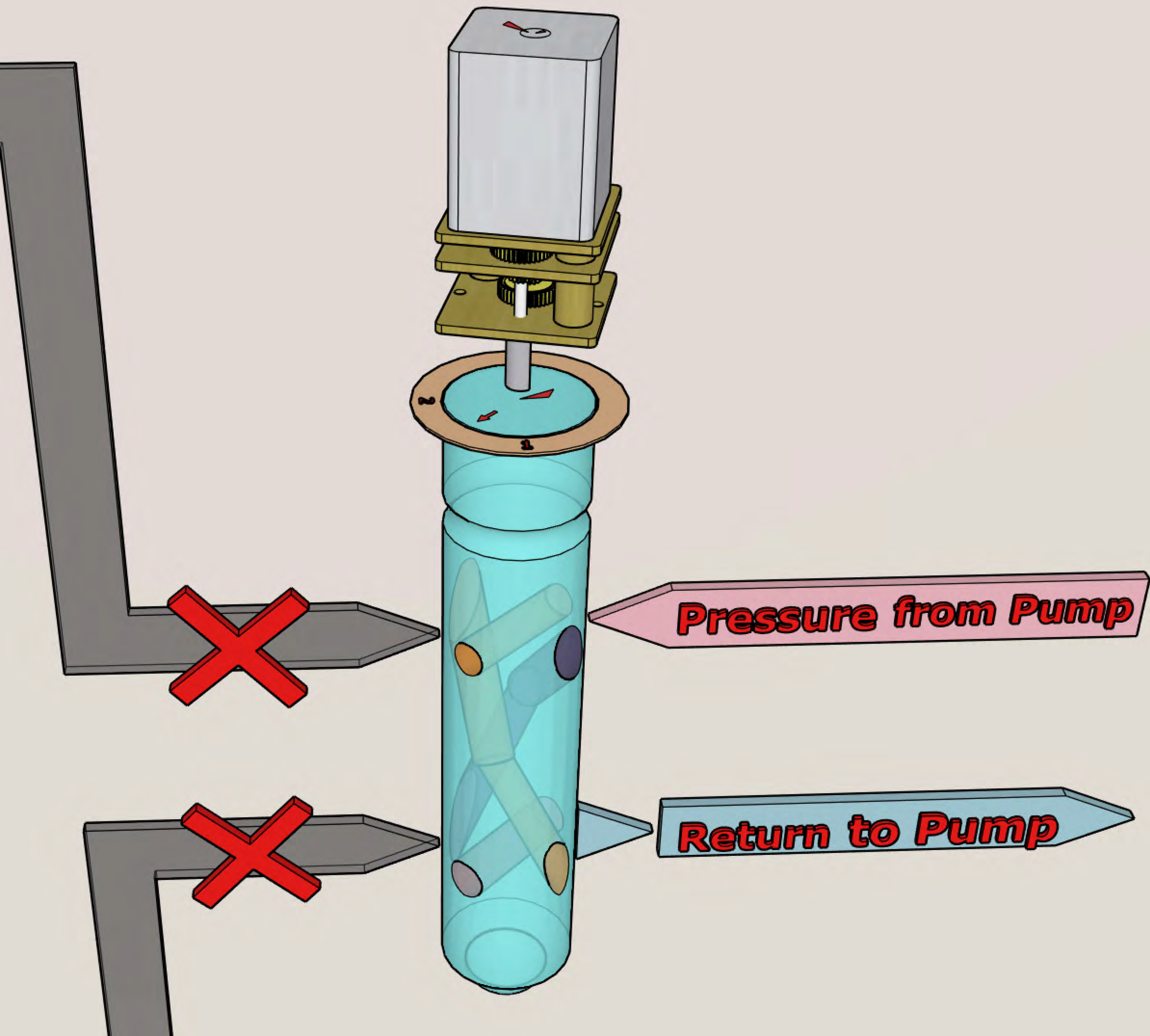
AD23 $\downarrow$ $\vdots$ $\times$ $\checkmark$ f_x $\downarrow$ 13.94 Kg x 2.2 lb/Kg = 30.66 lbs

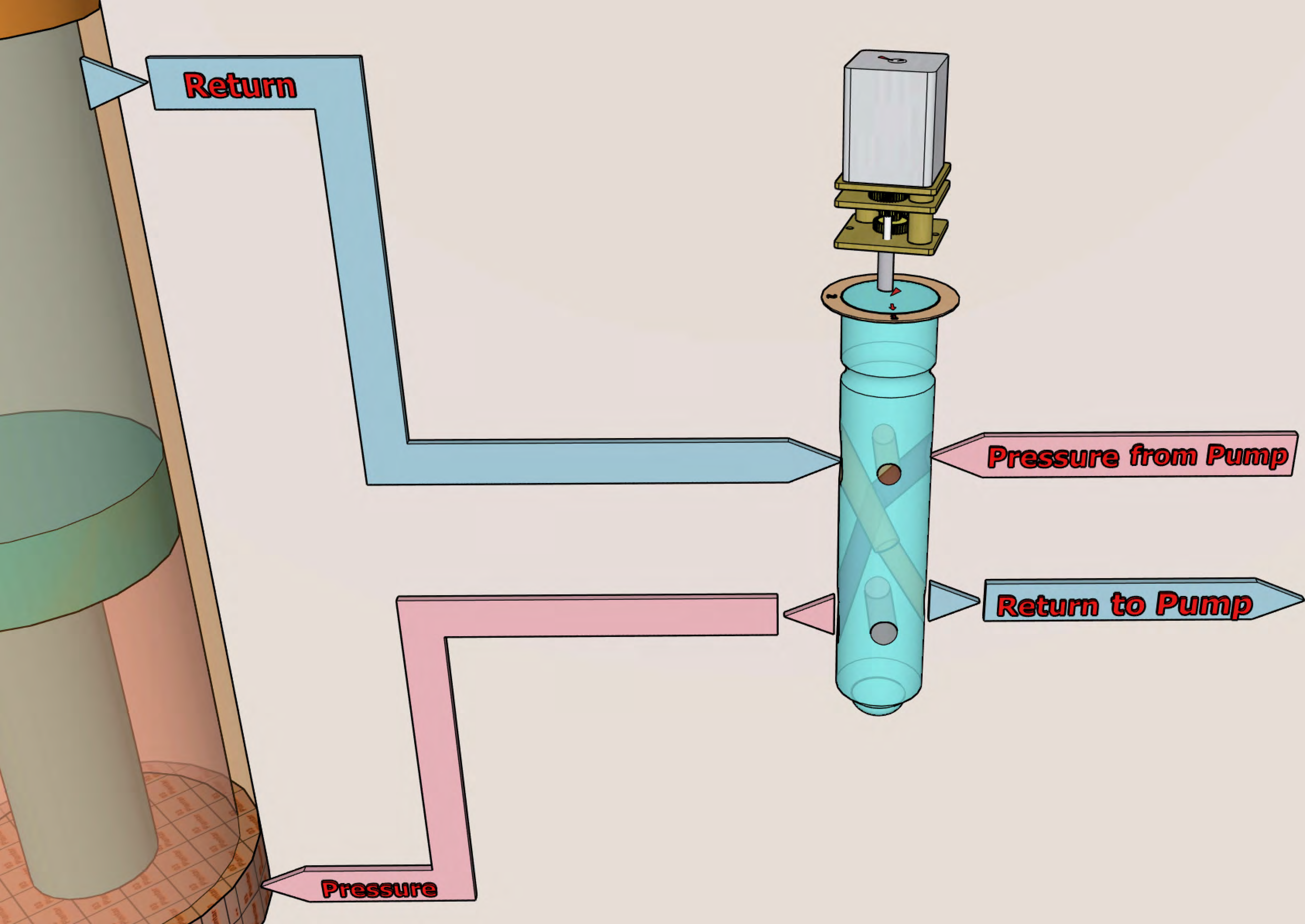
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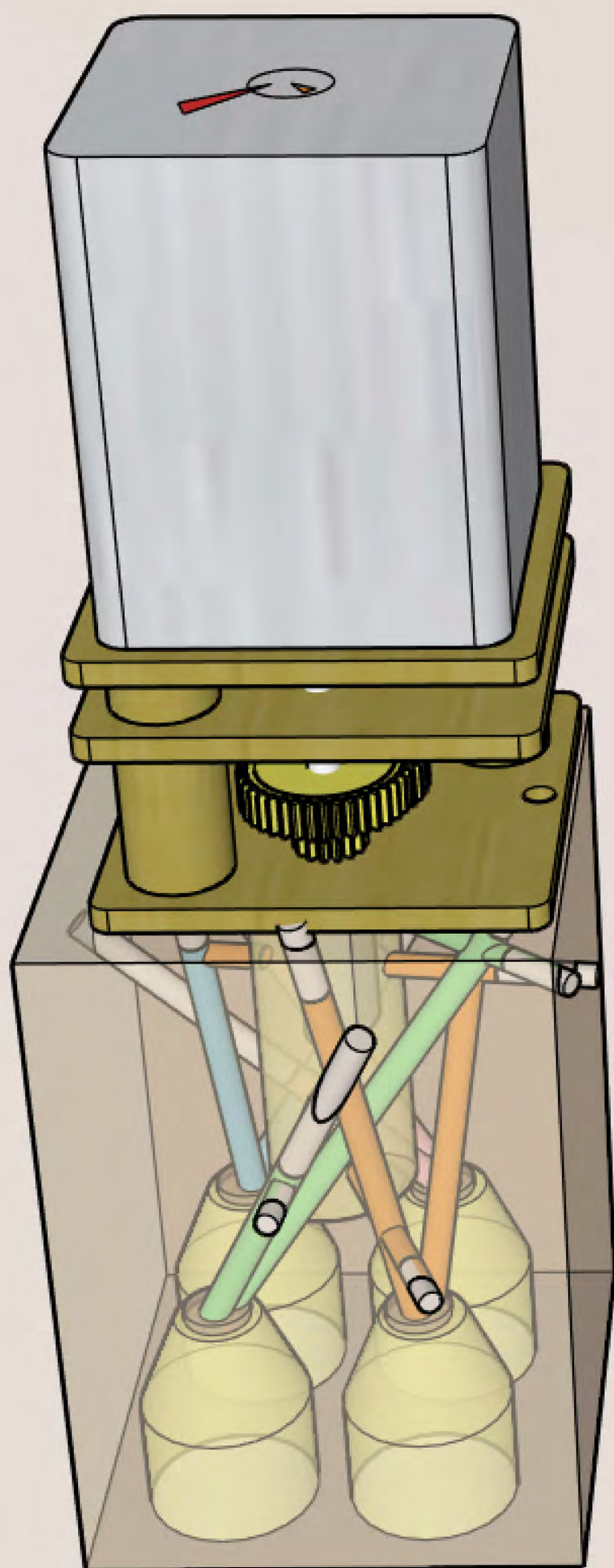


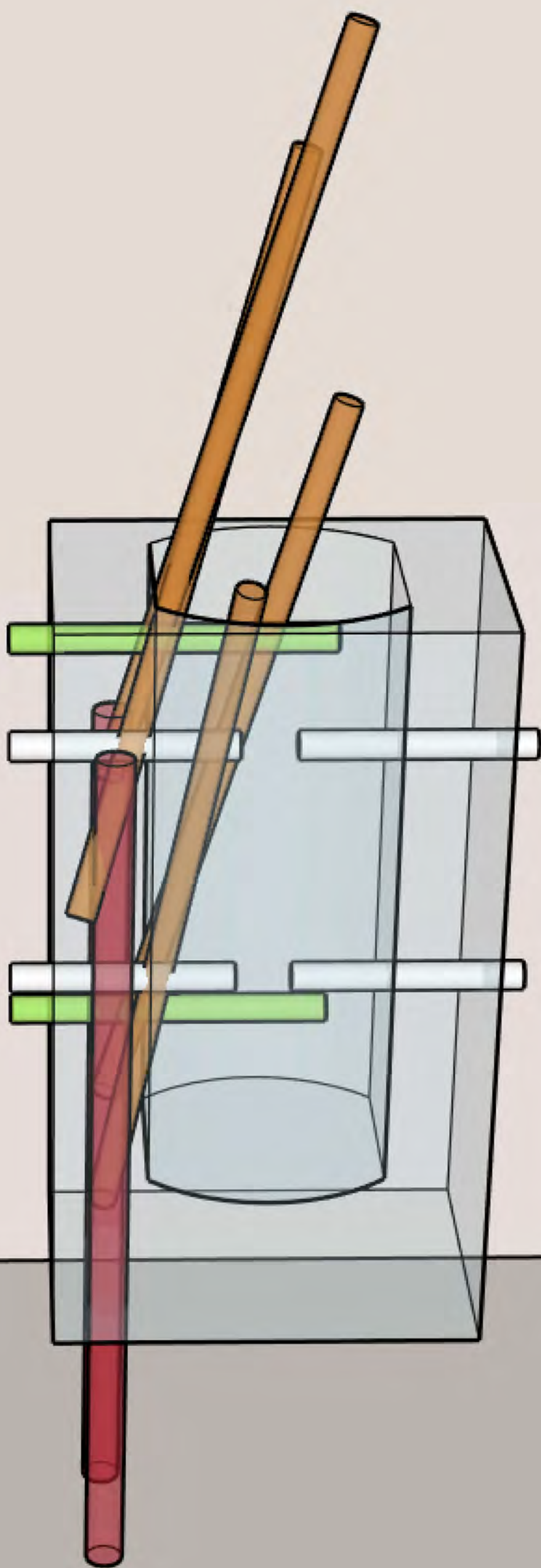


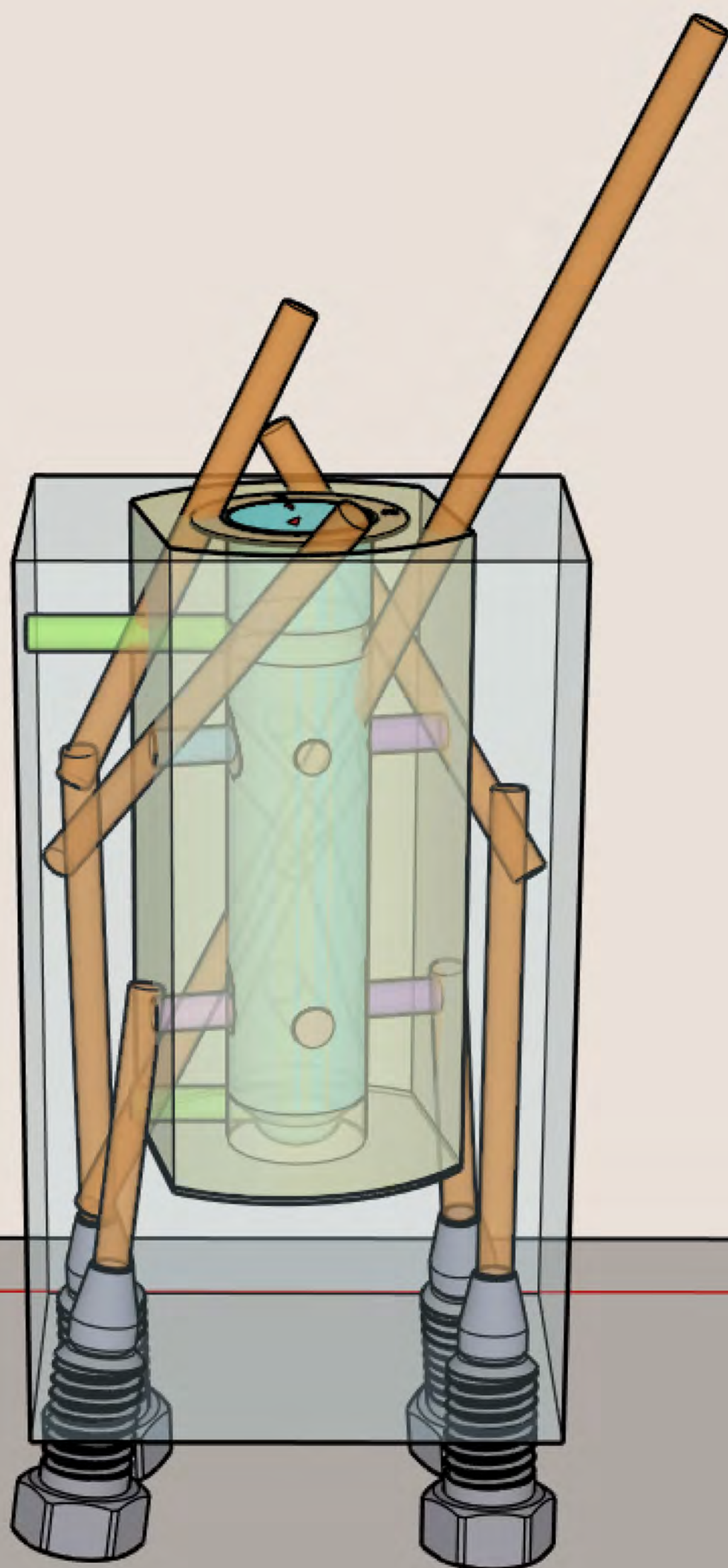


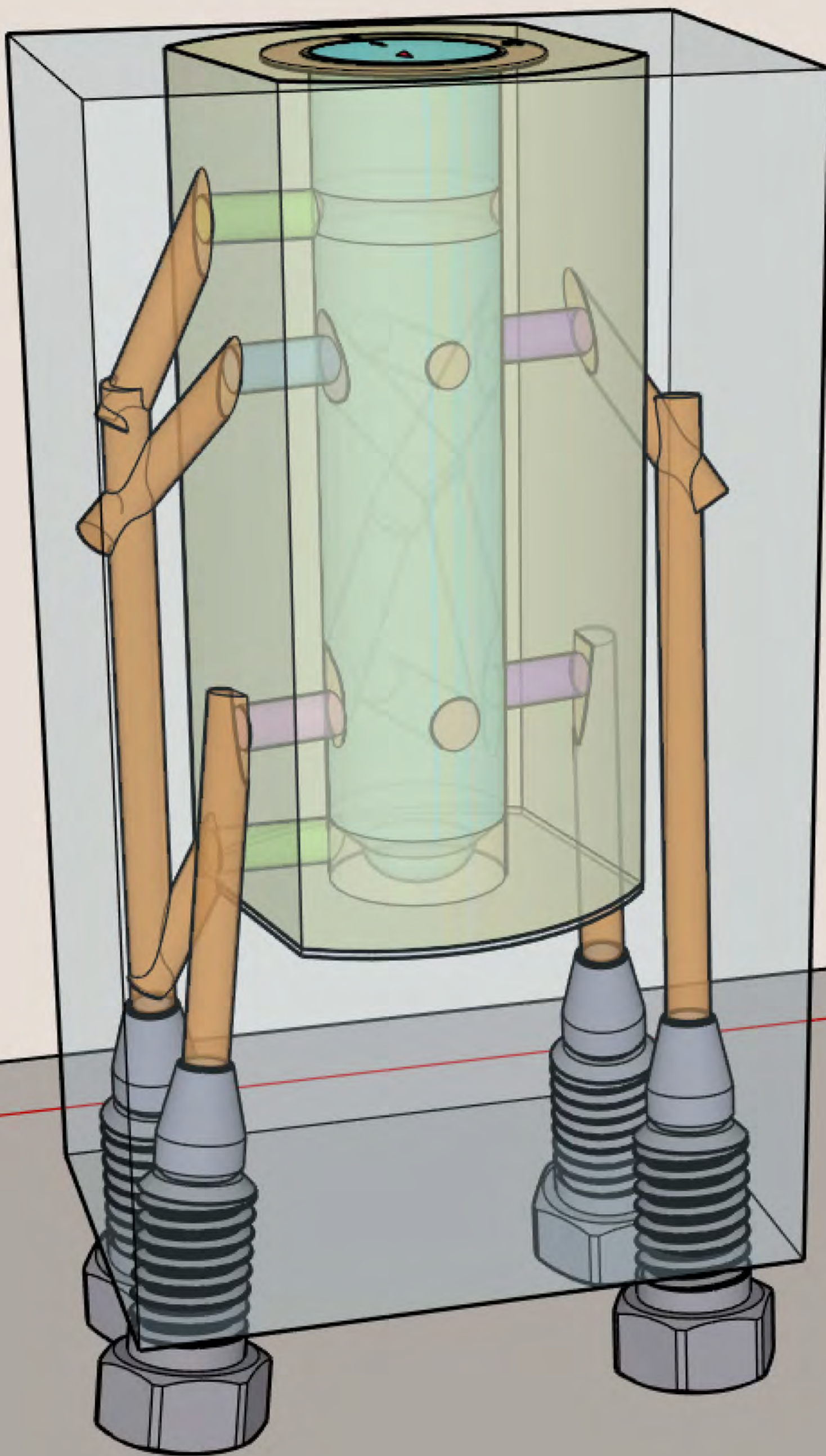


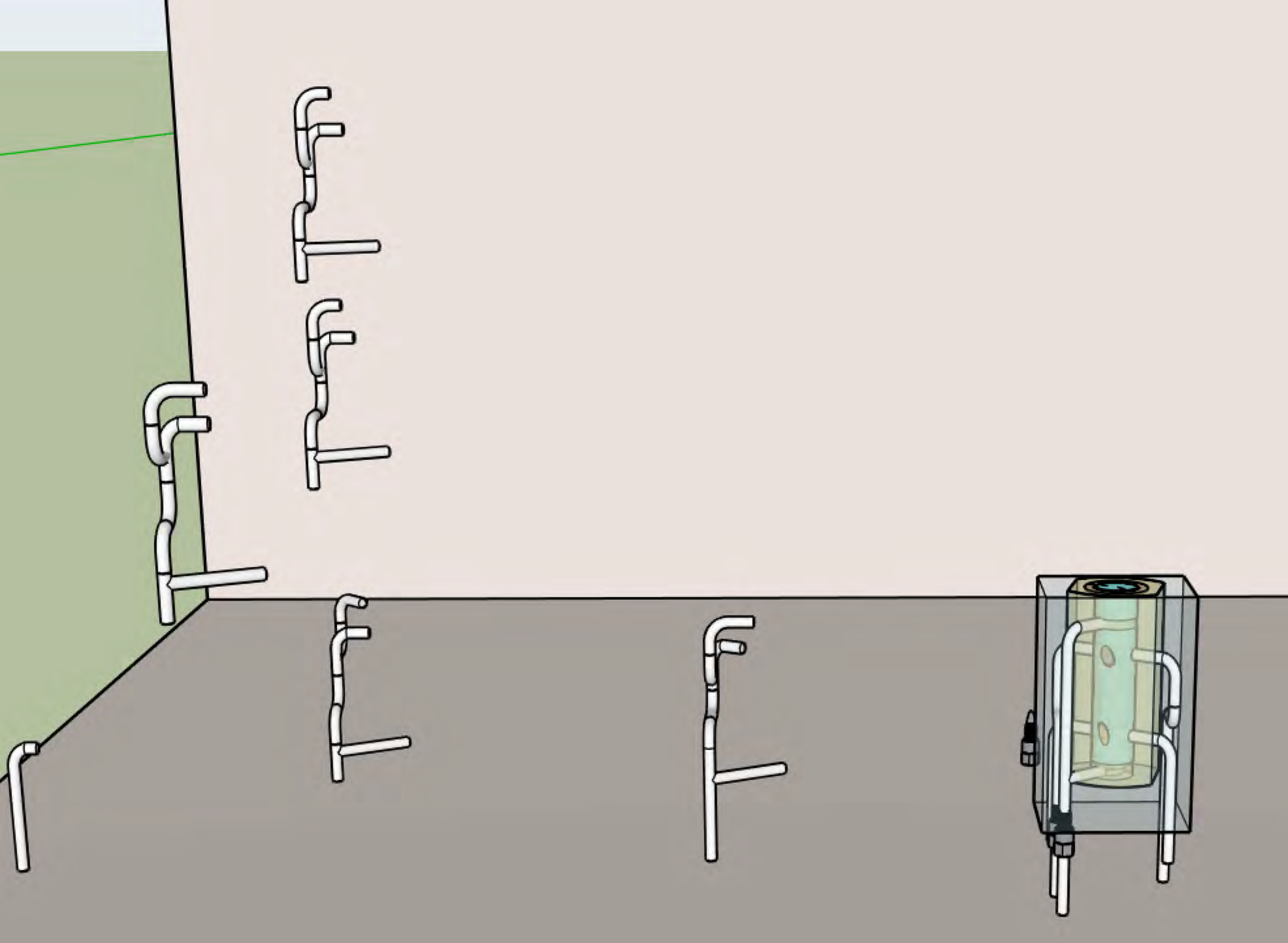


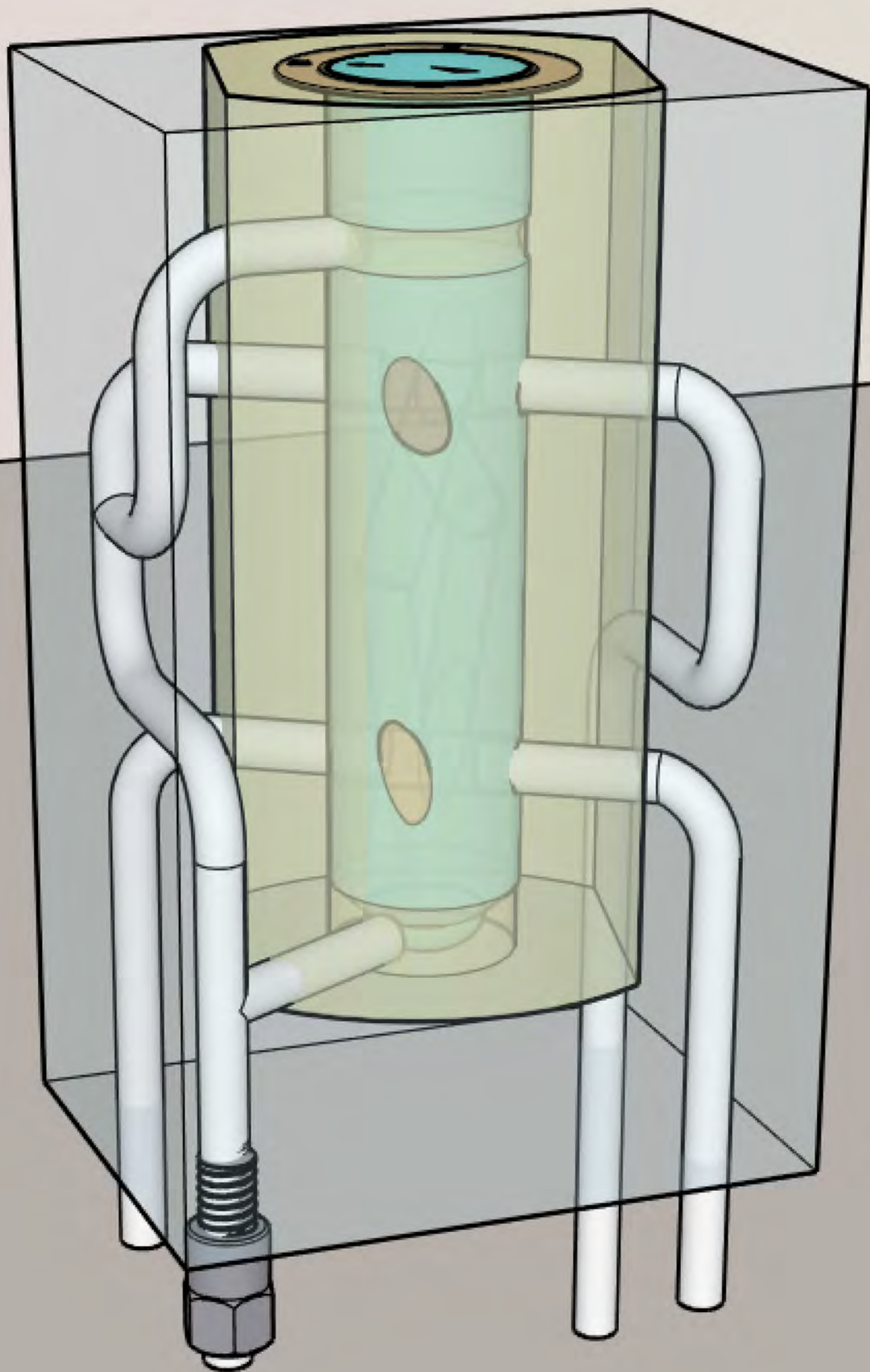


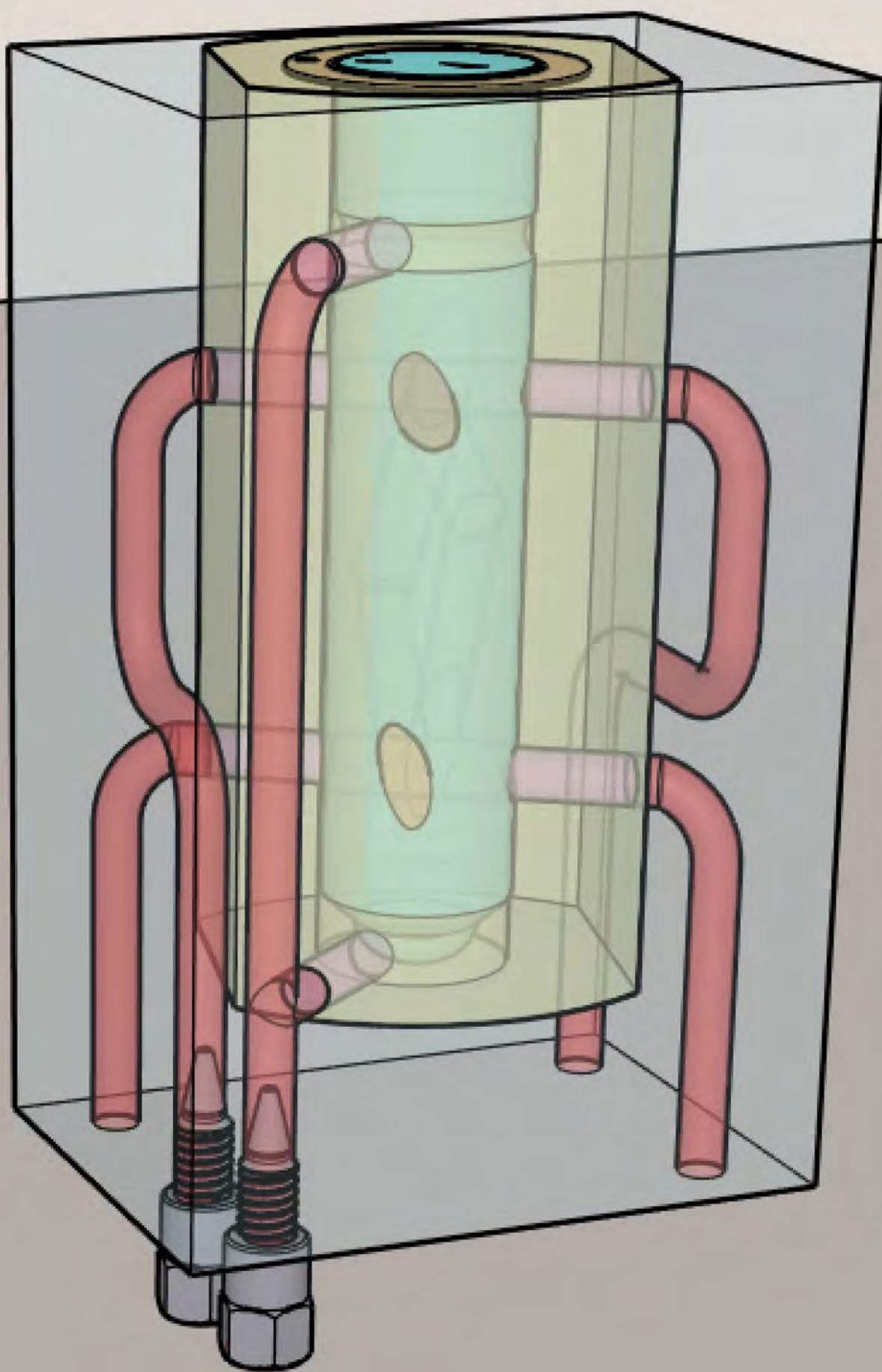


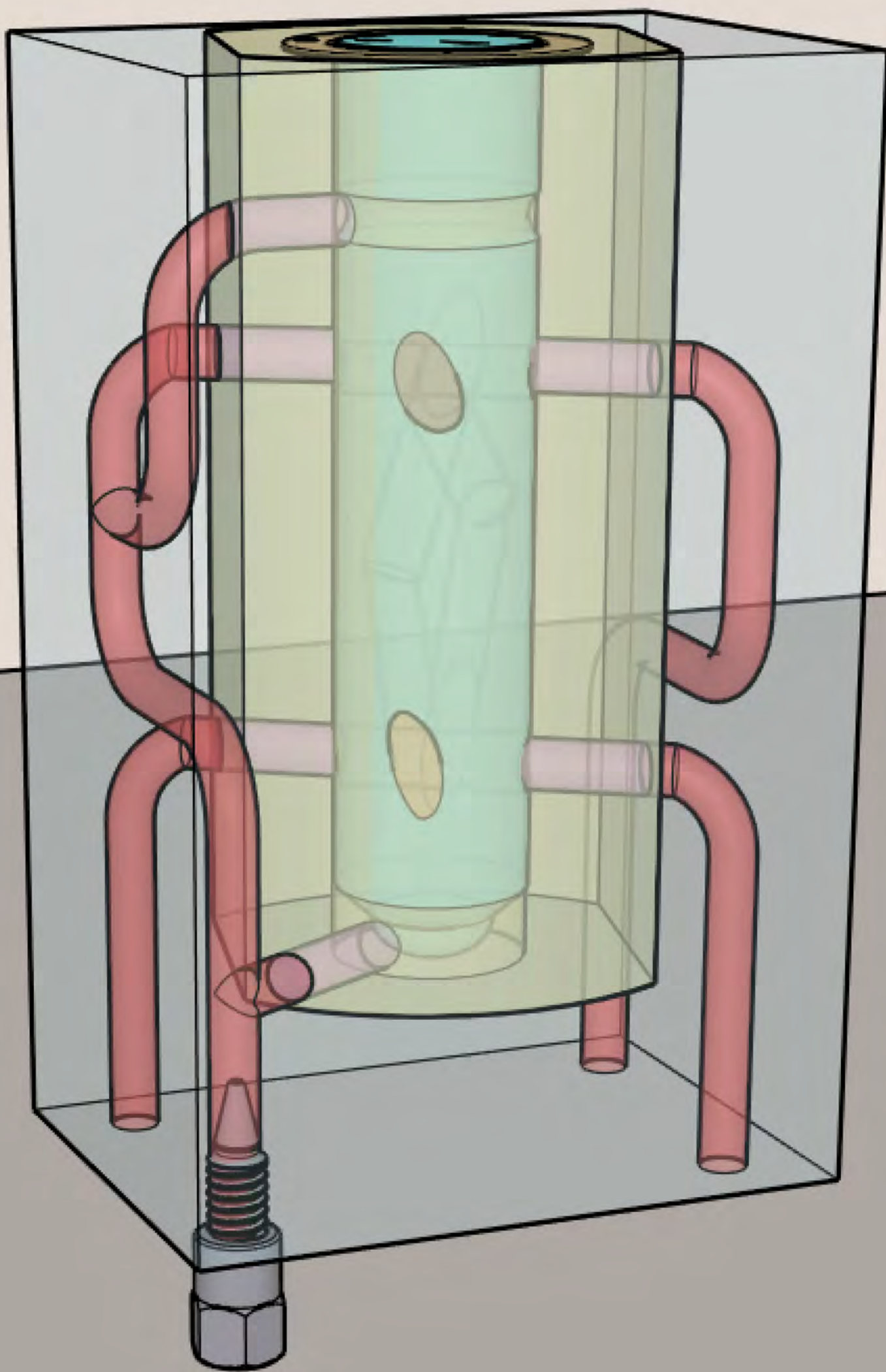


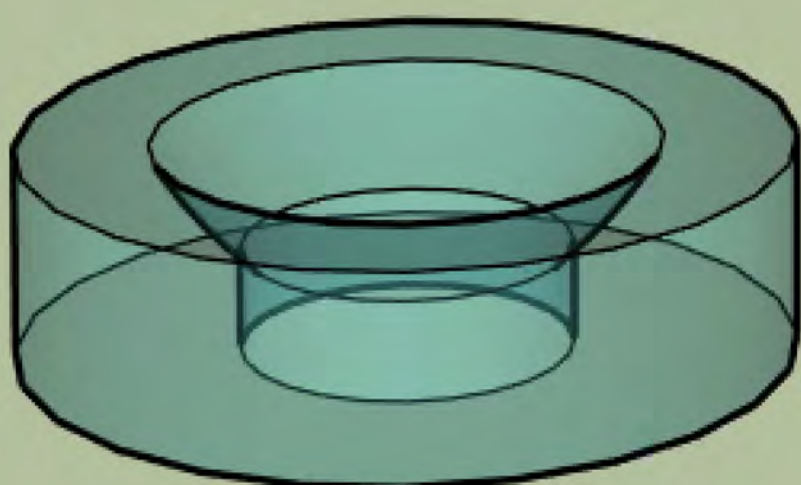
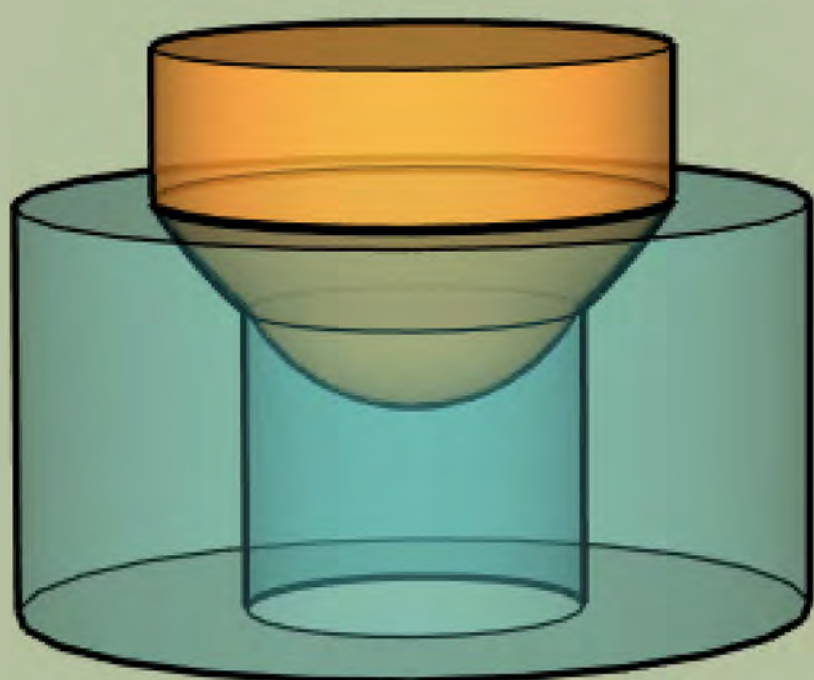
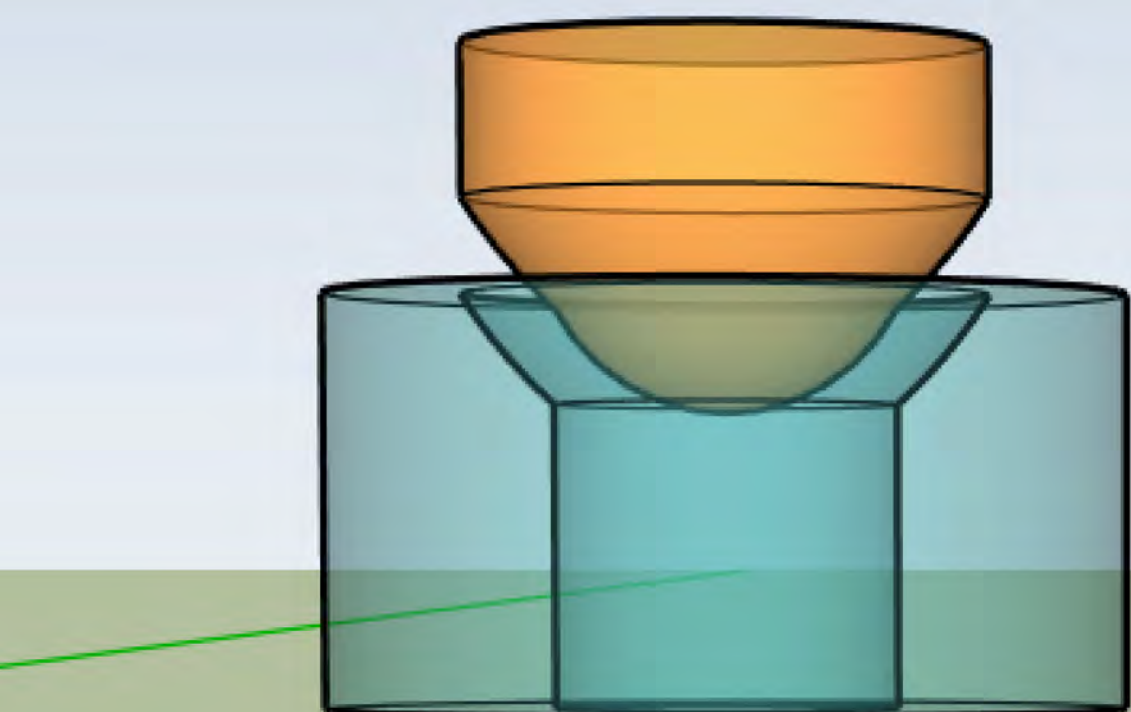


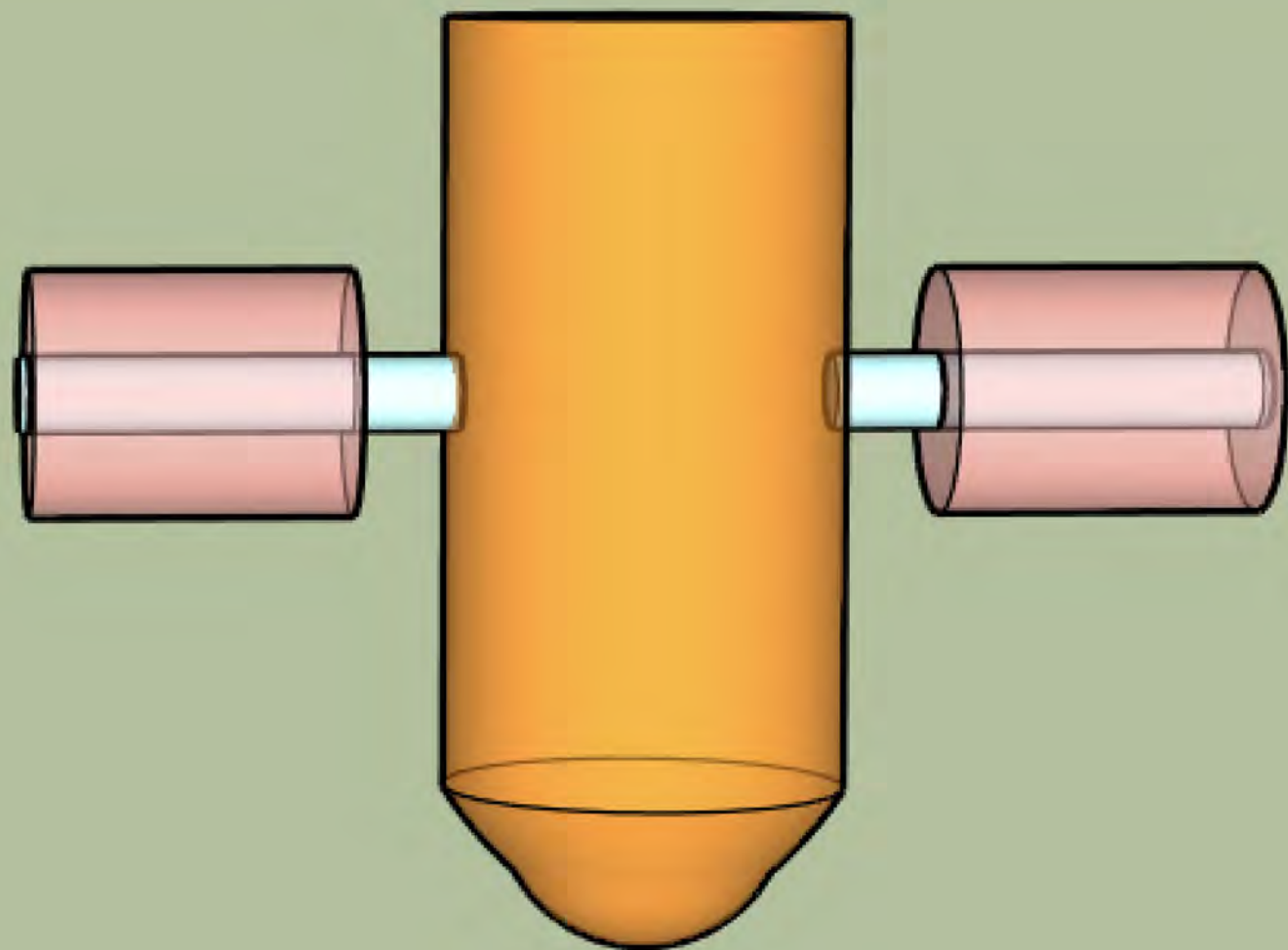


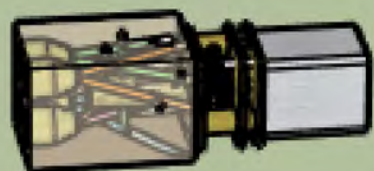
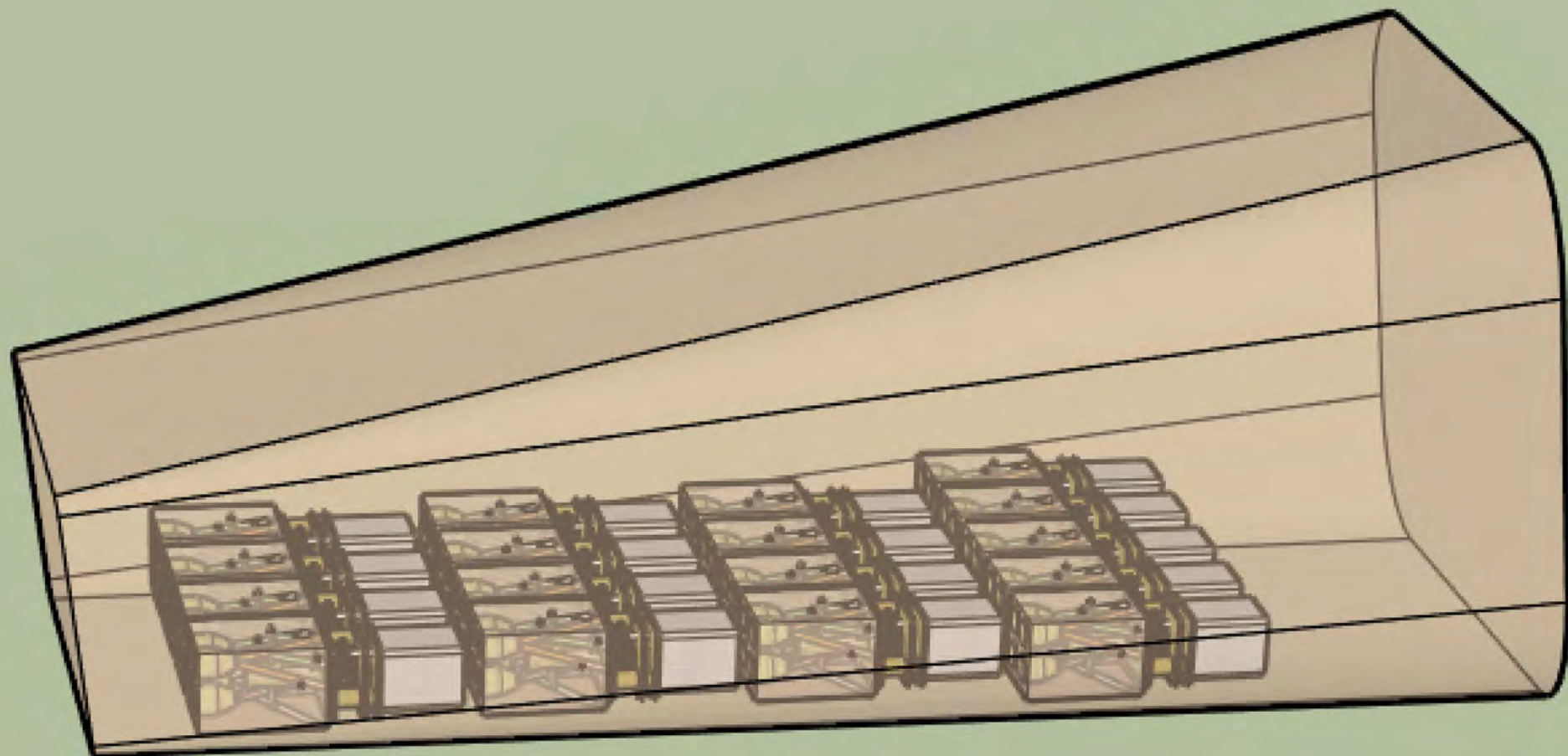


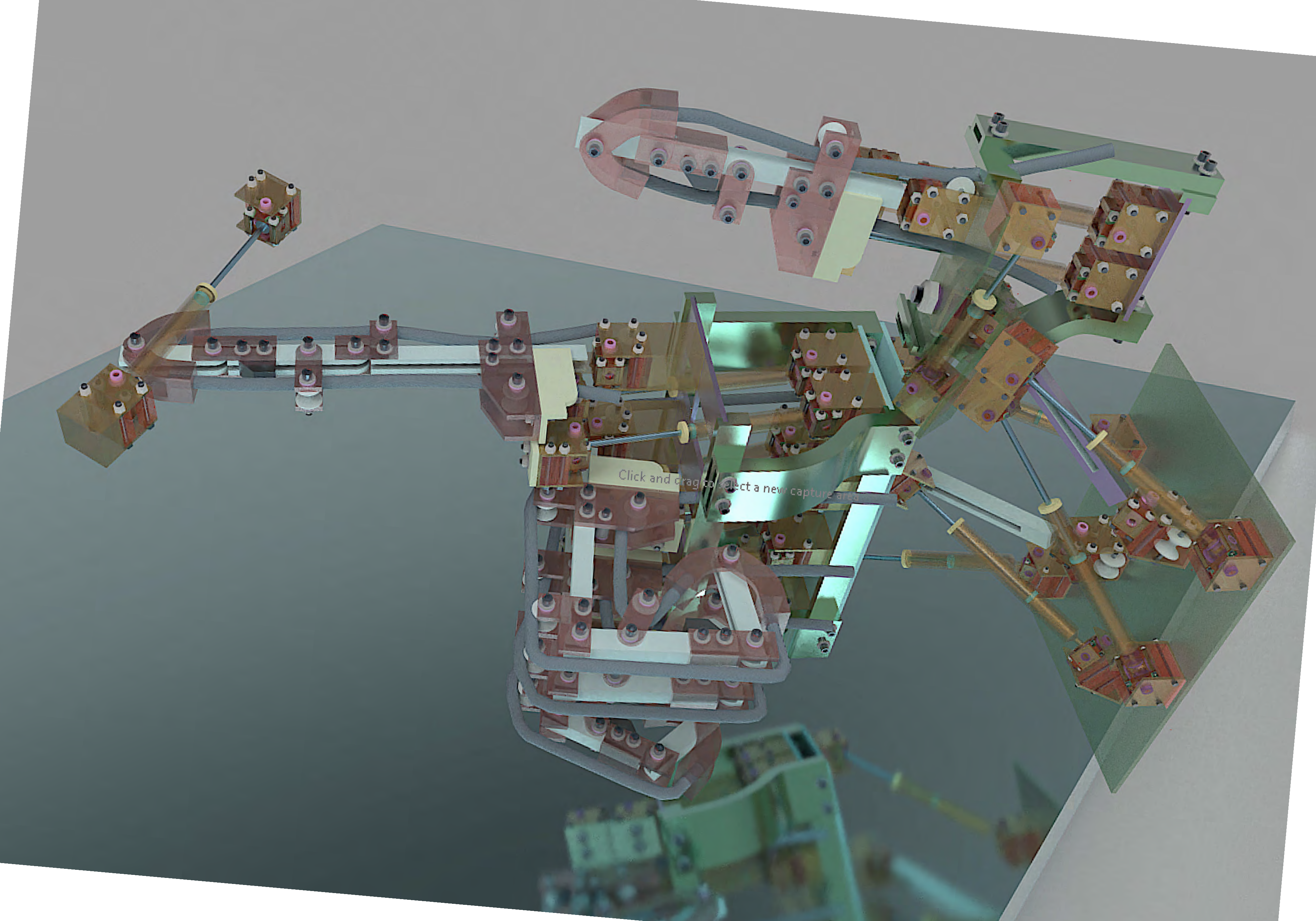


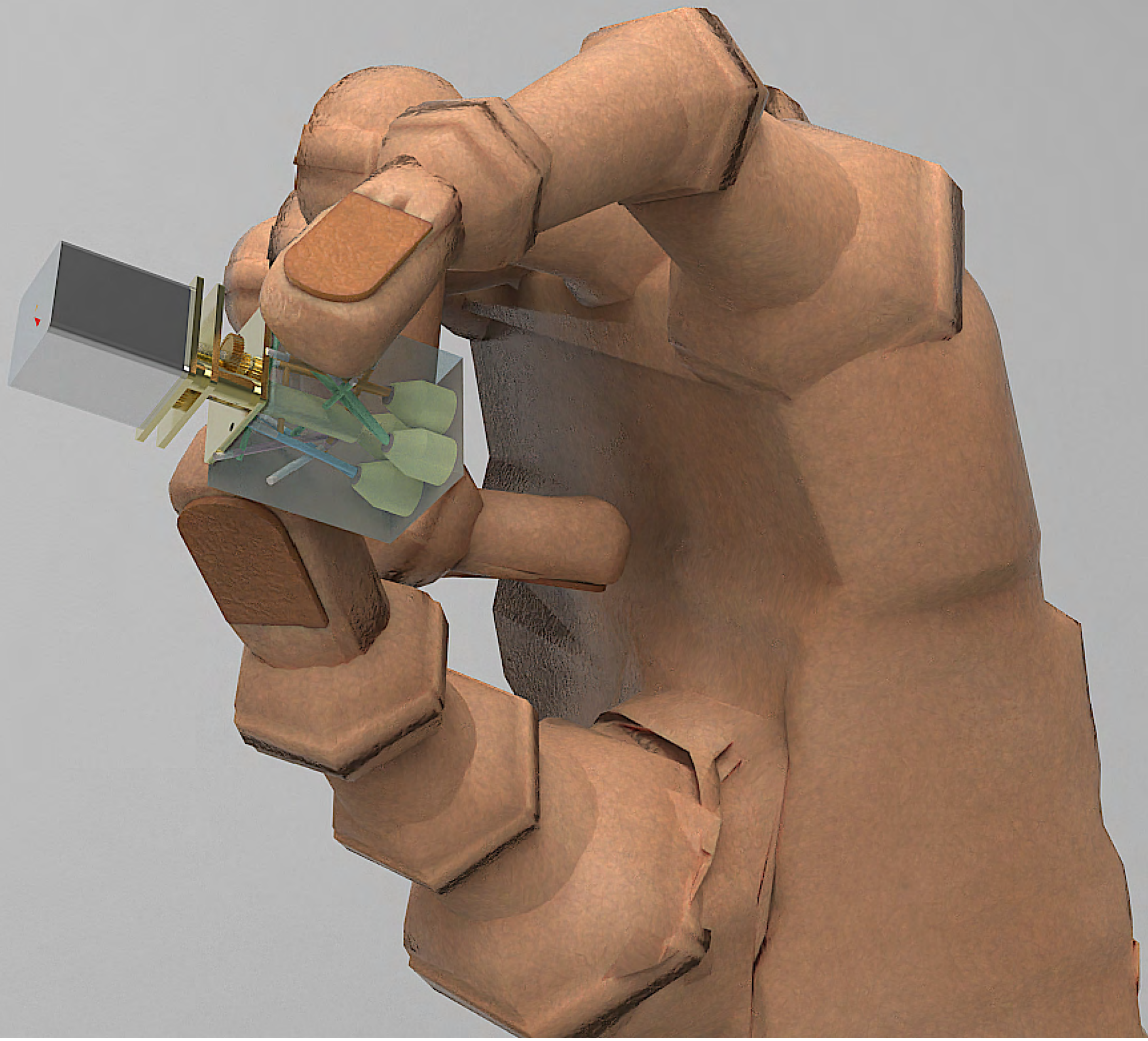






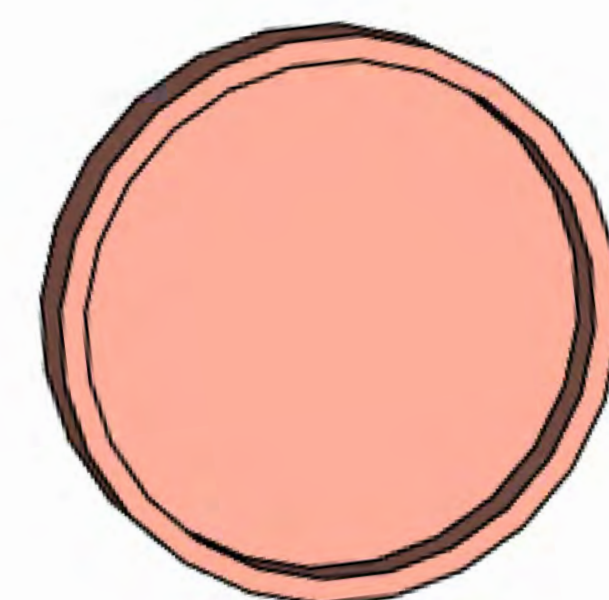
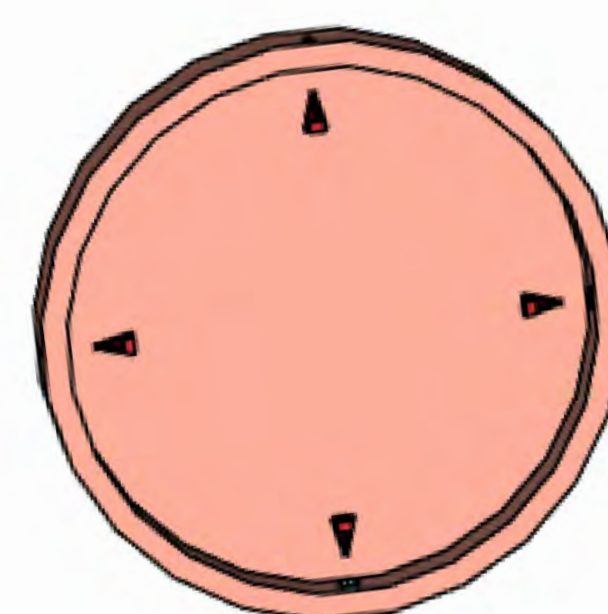
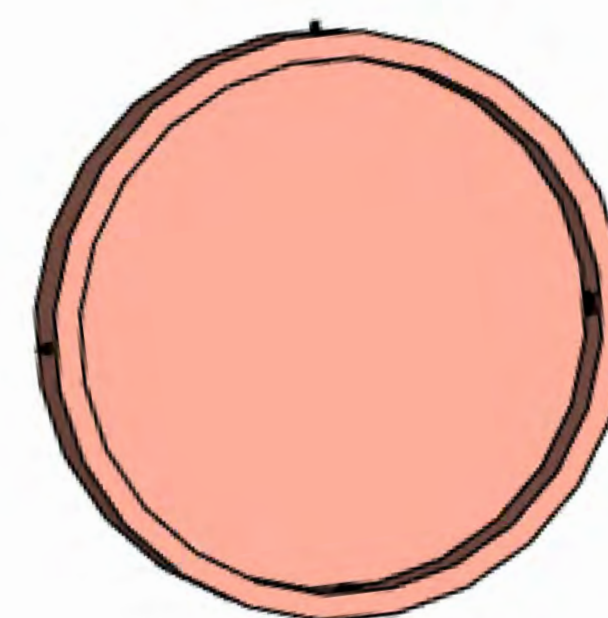
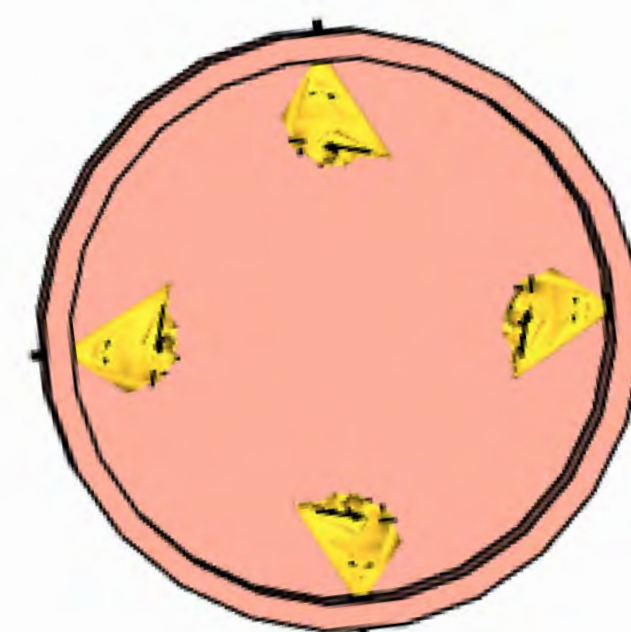
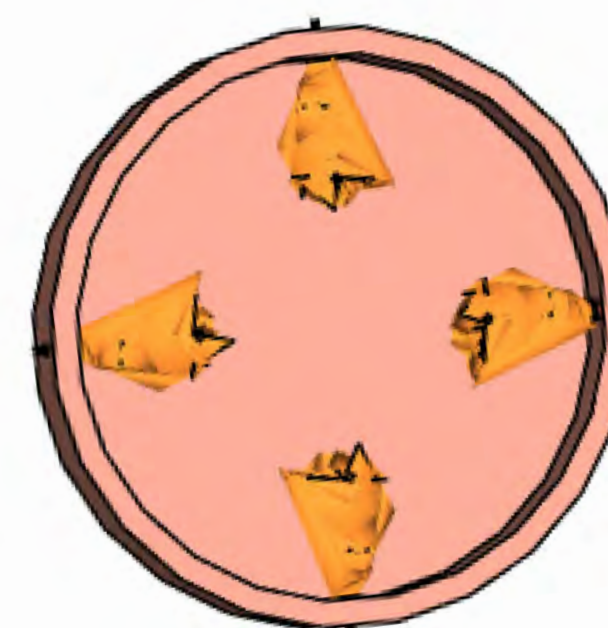
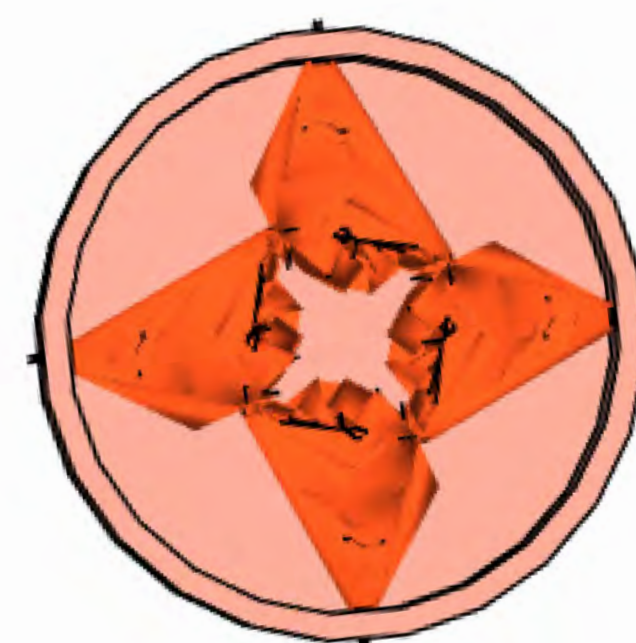
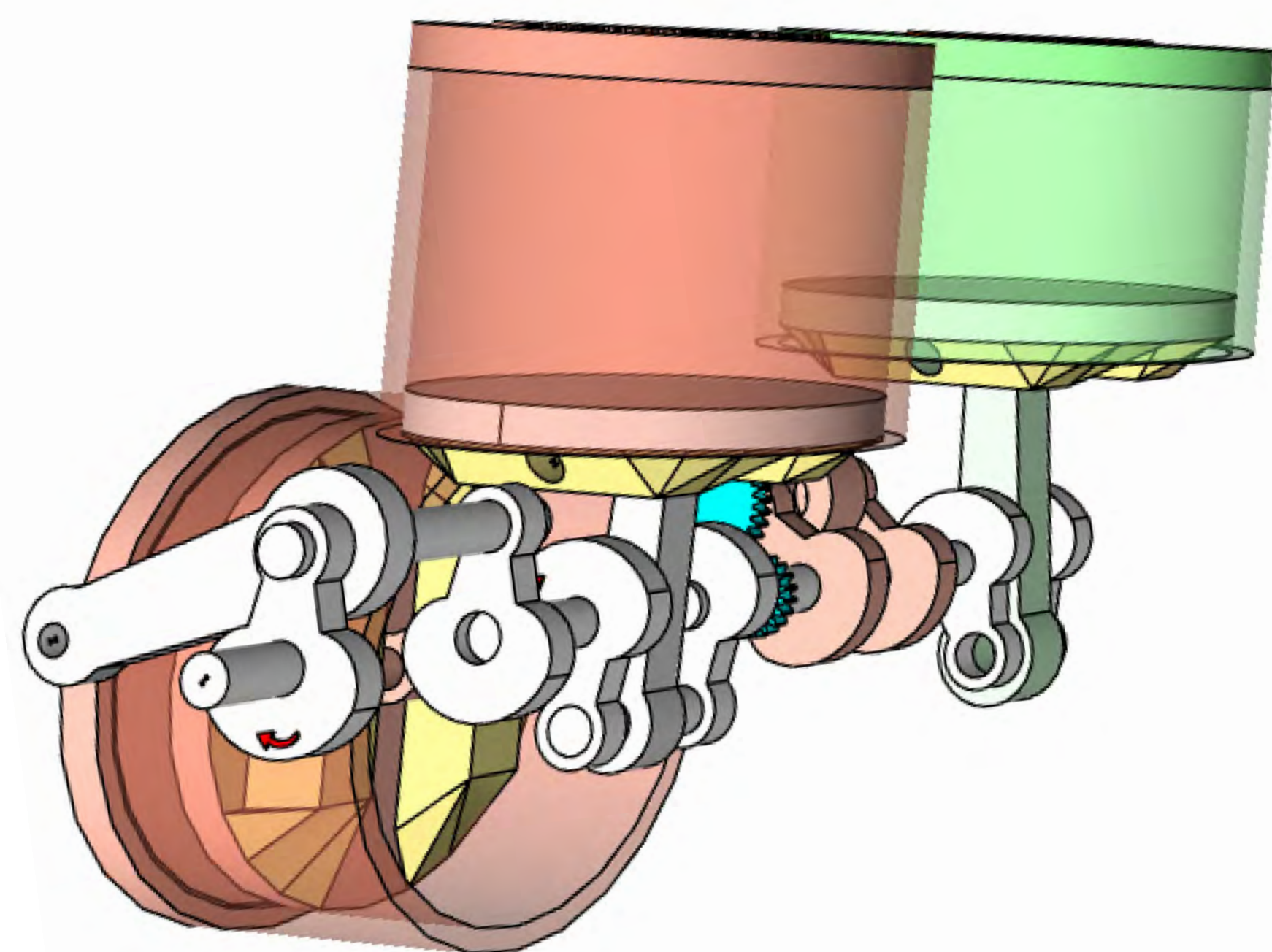
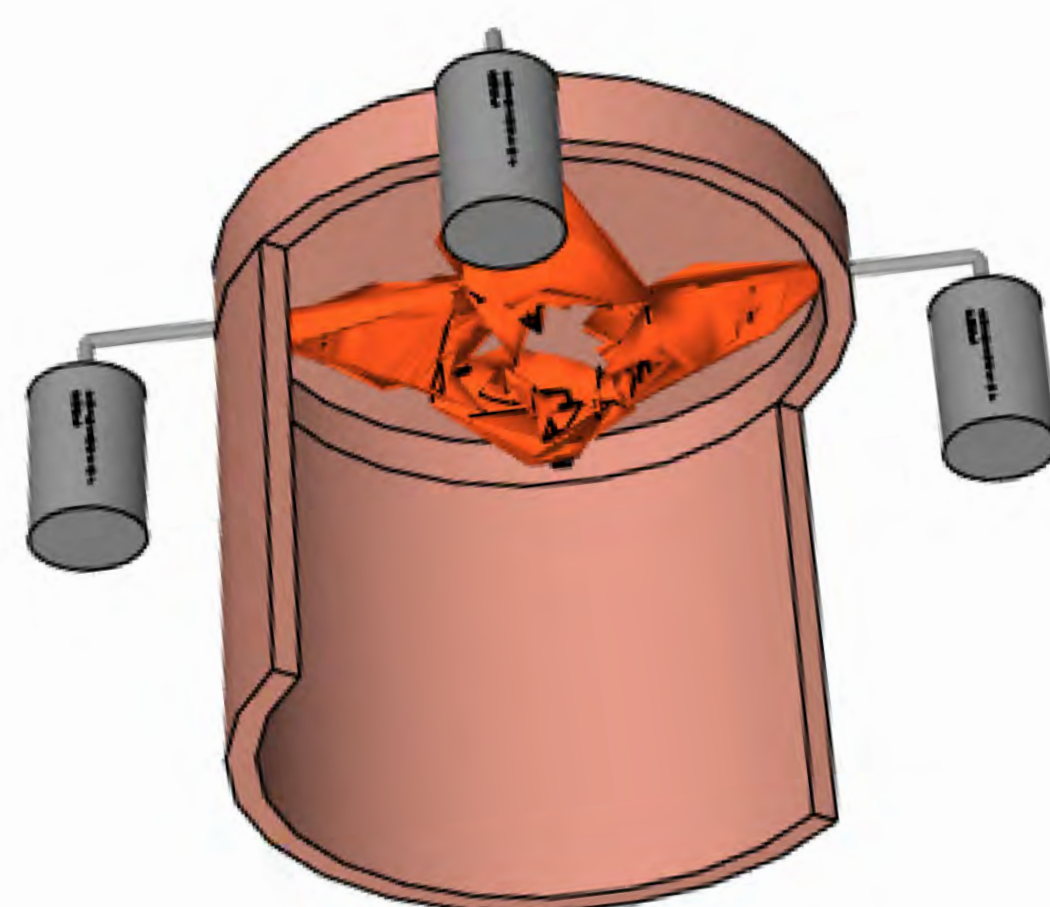
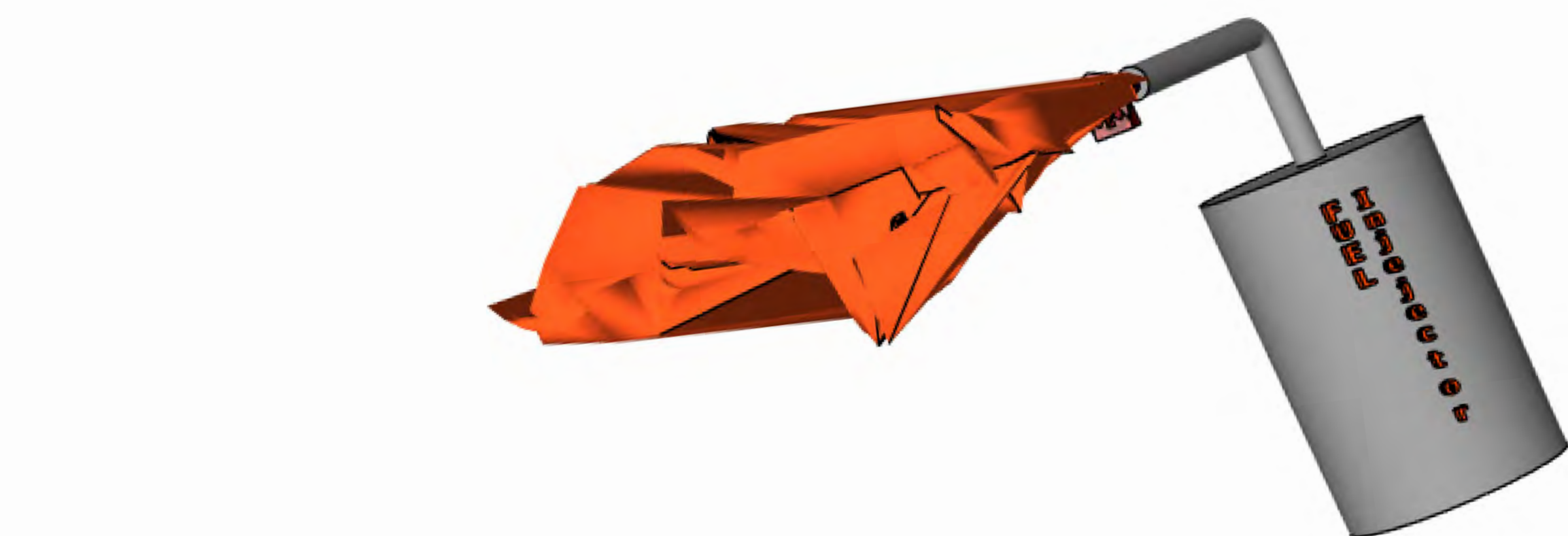


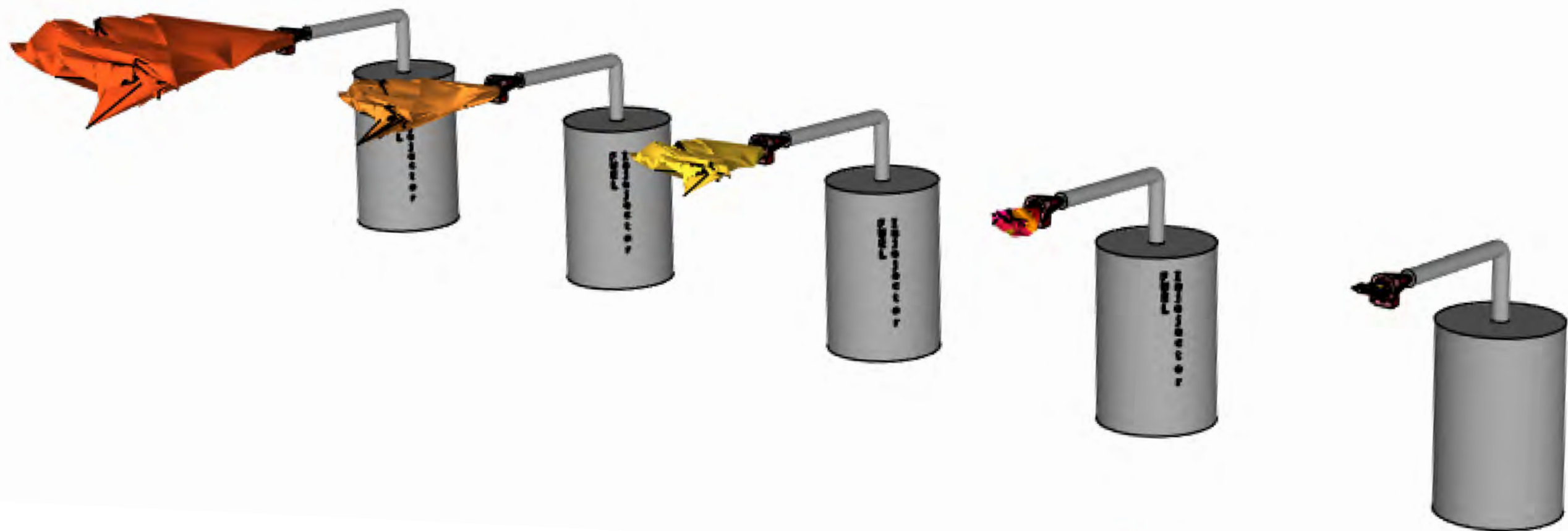


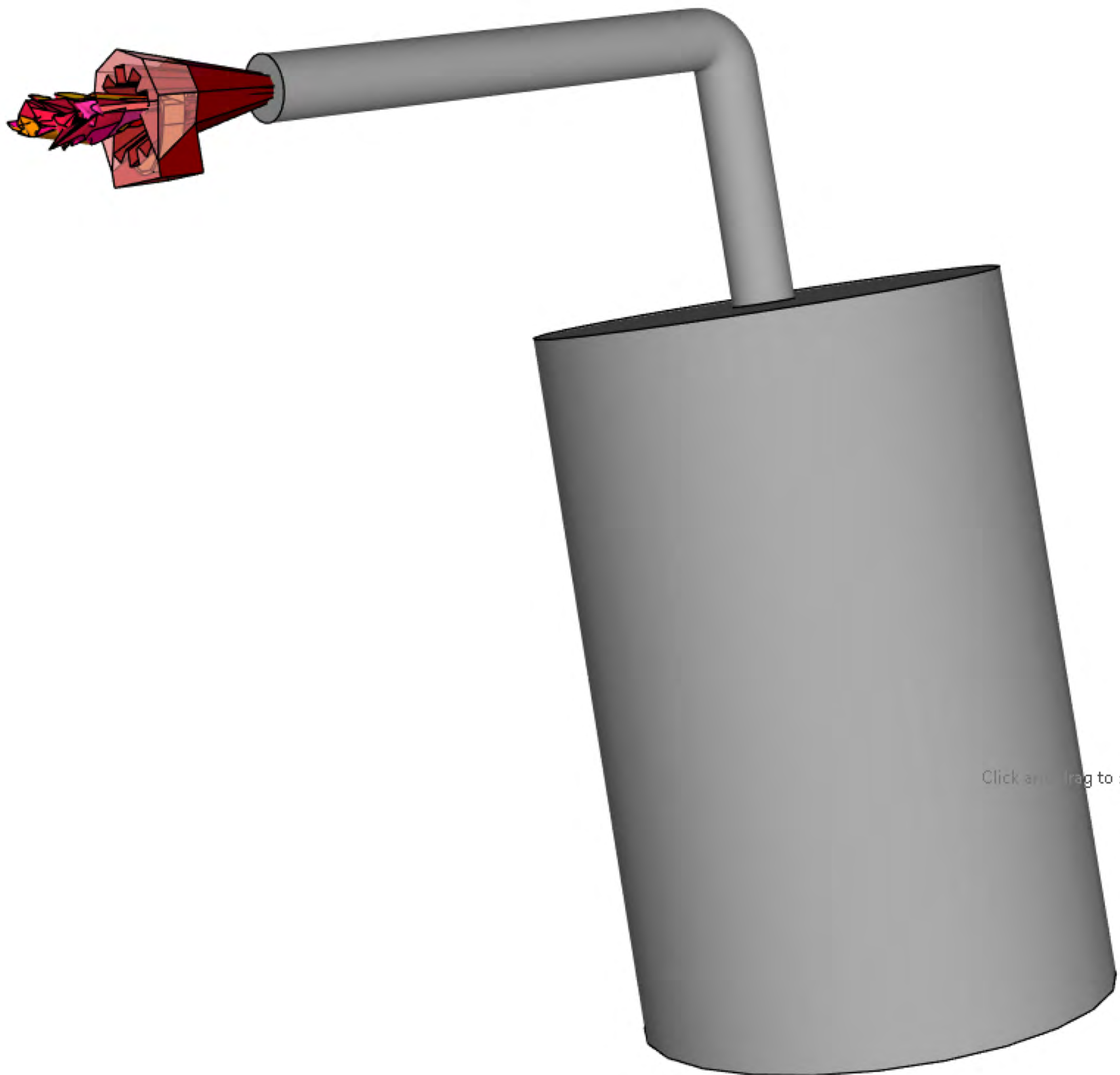


Rows of the Engine Cycle Spreadsheet Using Incremental Cycling

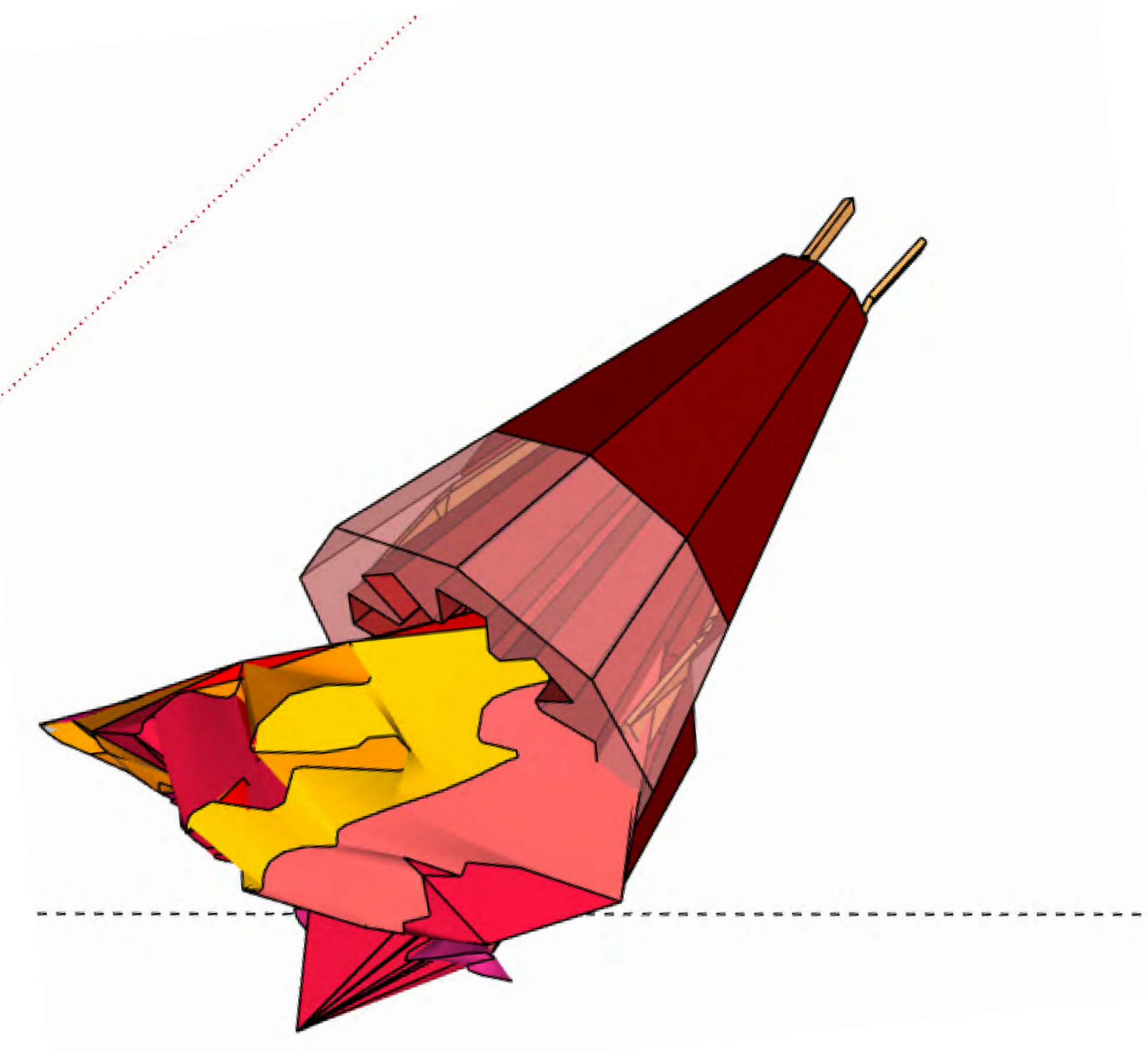
- 1) grams (in % of the original air charge) still present in the air charge in the air chamber
- 2) grams of air from the air charge sent to the Combustion Chamber
- 3) grams of the total gases above P_{cfire} note: (P_{cfire} = the combustion chamber piston)
- 4) Temp (deg F) of the gases above P_{cfire}
- 5) pressure of the gases (psi) above P_{dfire}
- 6) grams of Carbon and Hydrogen (expressed as grams of fuel) above P_{cfire}
- 7) grams of carbon and moles of carbon above P_{cfire}
- 8) grams of hydrogen and moles of hydrogen above P_{cfire}
- 9) grams of Nitrogen and moles of Nitrogen above P_{cfire}
- 10) grams of Oxygen and Moles of Oxygen above P_{cfire}
- 11) total number of moles (from all atoms present) above P_{cfire}
- 12) for this increment grams of fuel that were injected above P_{cfire}
- 13) force in lbs exerted by the fire-hyd rod on the P_{Chyd}
- 14) distance (in inches) of P_{cfire} away from its true TDC
- 15) volume (cubic inches) for this increment pumped by P_{dhyd} into the accumulator
- 16) pressure (atm) in the air charge in the air chamber
- 17) pressure (atm) in the gases above P_{cfire}

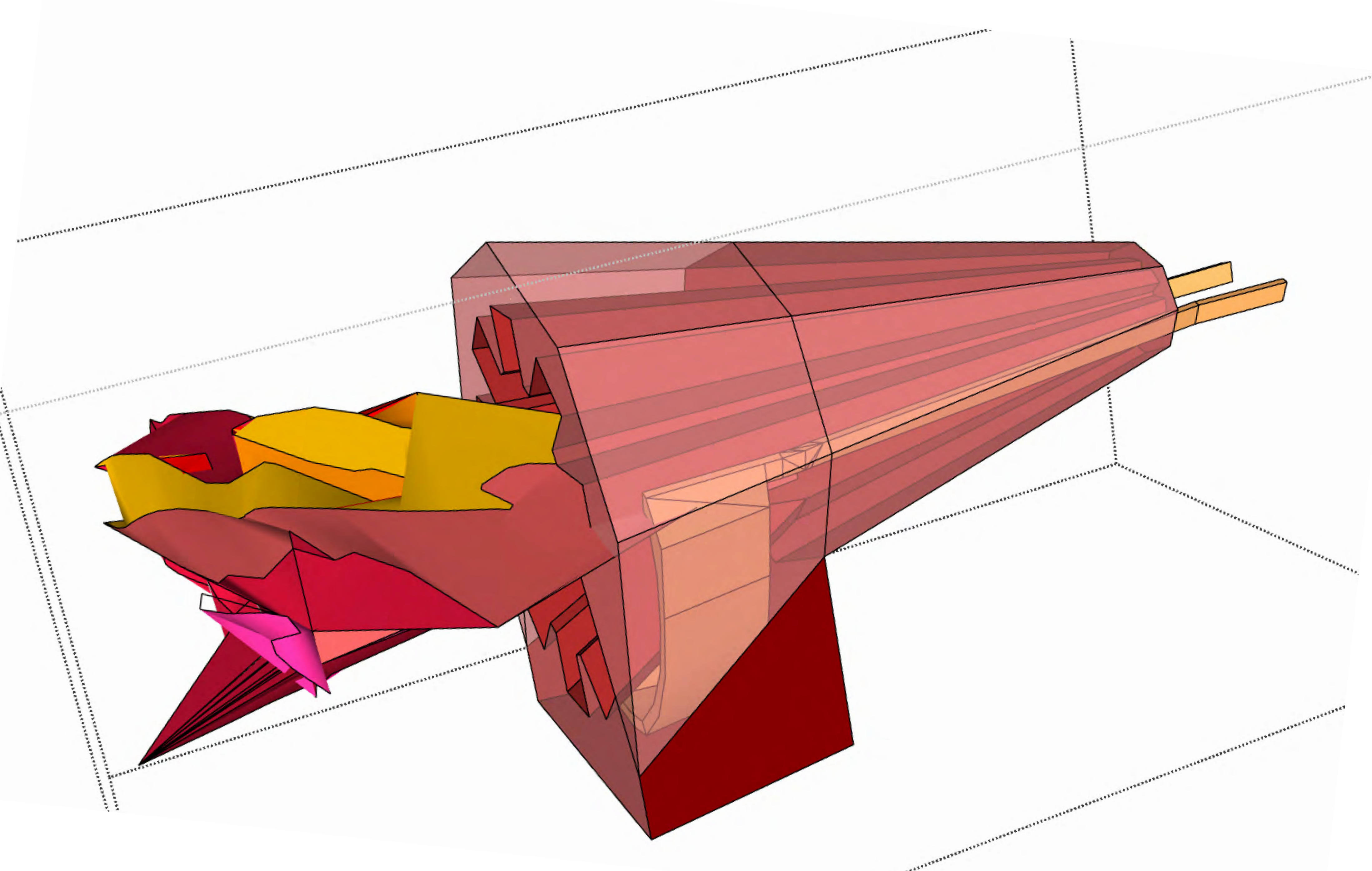






Click and drag to select a new object





Uniformly Accelerated Motion Calculator

Uniformly Accelerated Motion

Choose a Calculation

Find a, t | Given u, v and s

Find a, t | Given u, v and s

Find s, t | Given u, v and a

Find s, a | Given u, v and t

Find v, t | Given u, s and a

Find v, a | Given u, s and t

Find v, s | Given u, t and a

Find u, t | Given v, s and a

Find u, a | Given v, s and t

Find u, s | Given v, t and a

Find u, v | Given s, a and t

Significant Figures auto

Clear

Calculate

Answer:

[How could this calculator be better?](#)

[Suggest a new calculator!](#)

The Uniformly Accelerated Motion calculator or (kinematic equations calculator) solves motion calculations involving constant acceleration in one dimension, a straight line. It can solve for the initial velocity u , final velocity v , displacement s , acceleration a , and time t .

Choose a calculation to find the variables that are unknown and enter the variables that are given in your problem. This calculator will calculate the unknown values and provide the derived equations that were used to find the solution. Solution equations are derived from the uniformly accelerated motion equations below.

Note that when solving for multiple variables there is usually more than one way to solve for your unknowns. You can derive more than one set of equations to solve your problem in different ways.

Uniformly Accelerated Motion Equations

Kinematic Equations



POSSIBLE DATA LOSS

Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format.

Don't show again

Save As...

✕

A1

 $f_x \vee$

TIME

[illegible]

[illegible]

DISCLAIMER

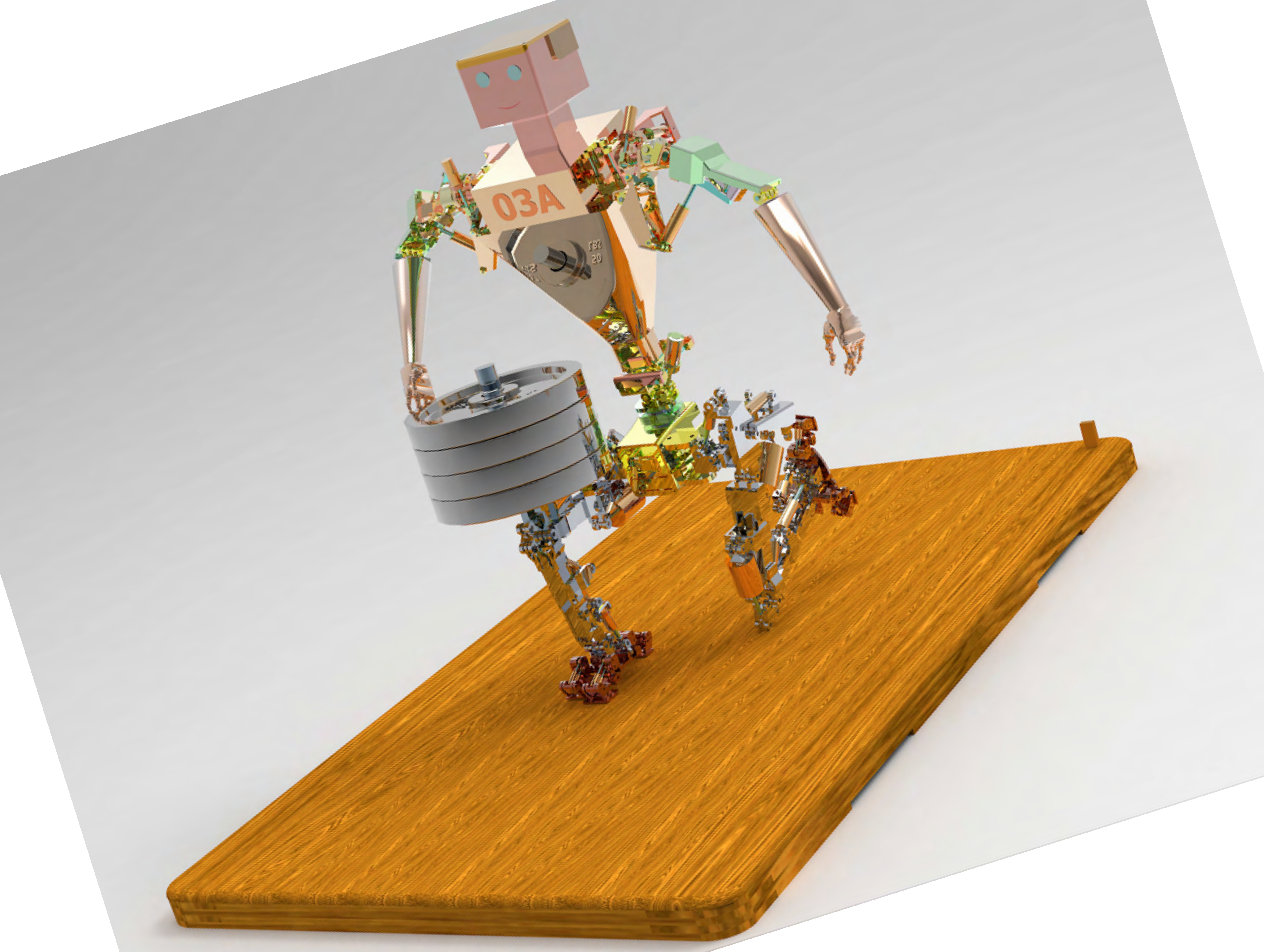
1) Any physically real object has the potential to act in a manner that is dangerous.

2) Actions of any real object, at a minimum, should be reasonable, and also safe, and also legally allowed.

3) We advise, DO NOT MAKE any physically real object if you cannot properly control its actions.

I am worried people will say: "Your R
for your Robot Hand Design t
"That is **COMPLETELY**

Click and drag to select a new ca



[illegible]