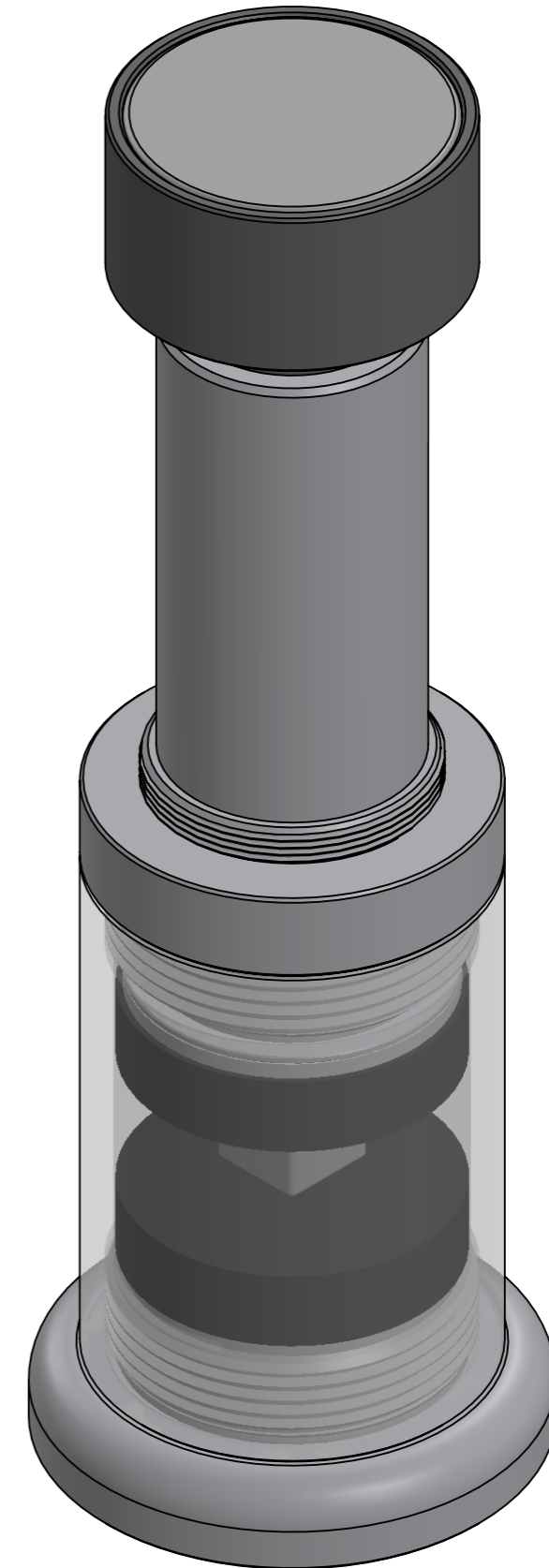


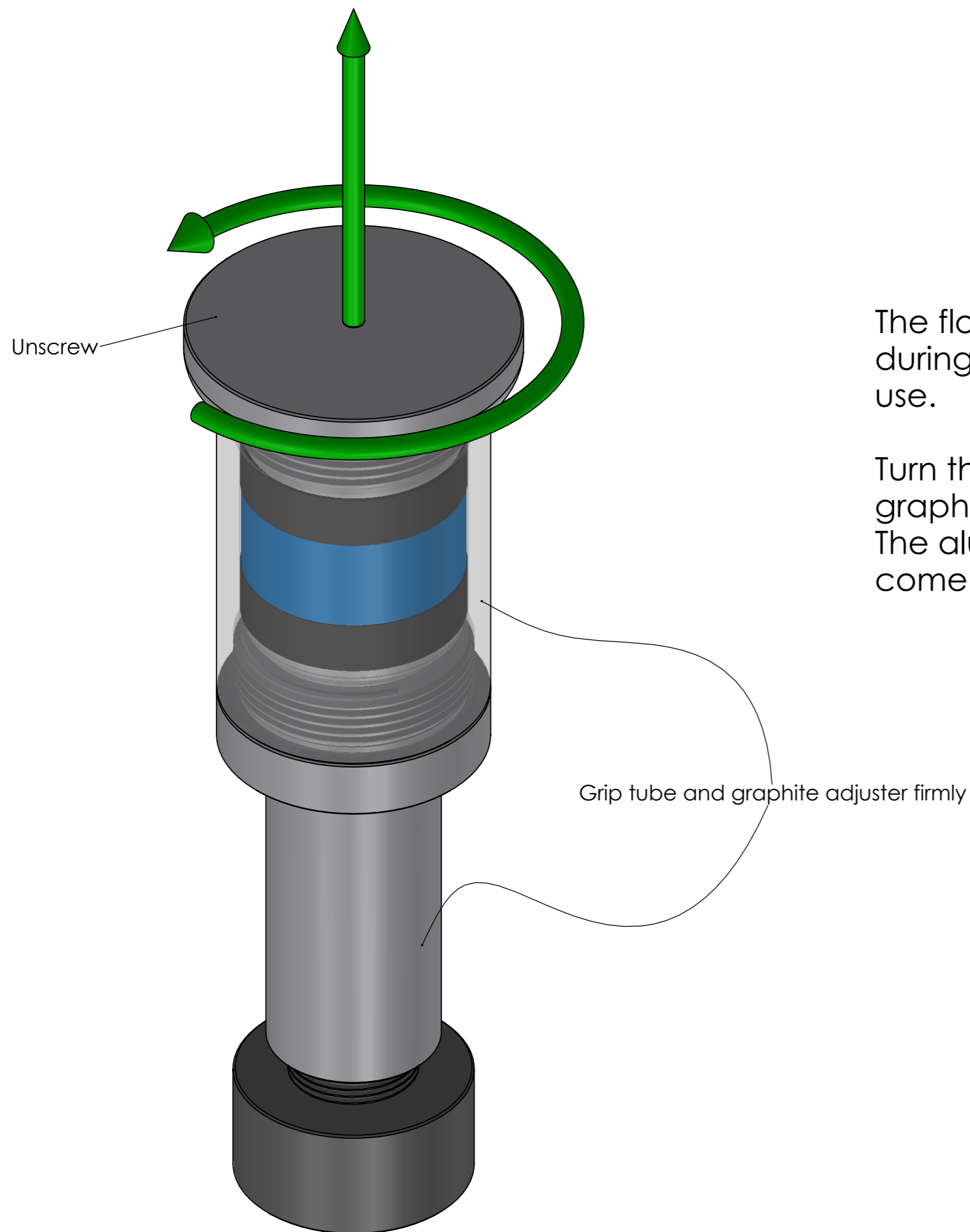
Diamagnetic Levitator Instructions

Please read all the way through the instructions to familiarise yourself with the process before you start and pay close attention to the alignment of all the parts in the diagrams.

Assembly and configuration time should be approximately 5 minutes.

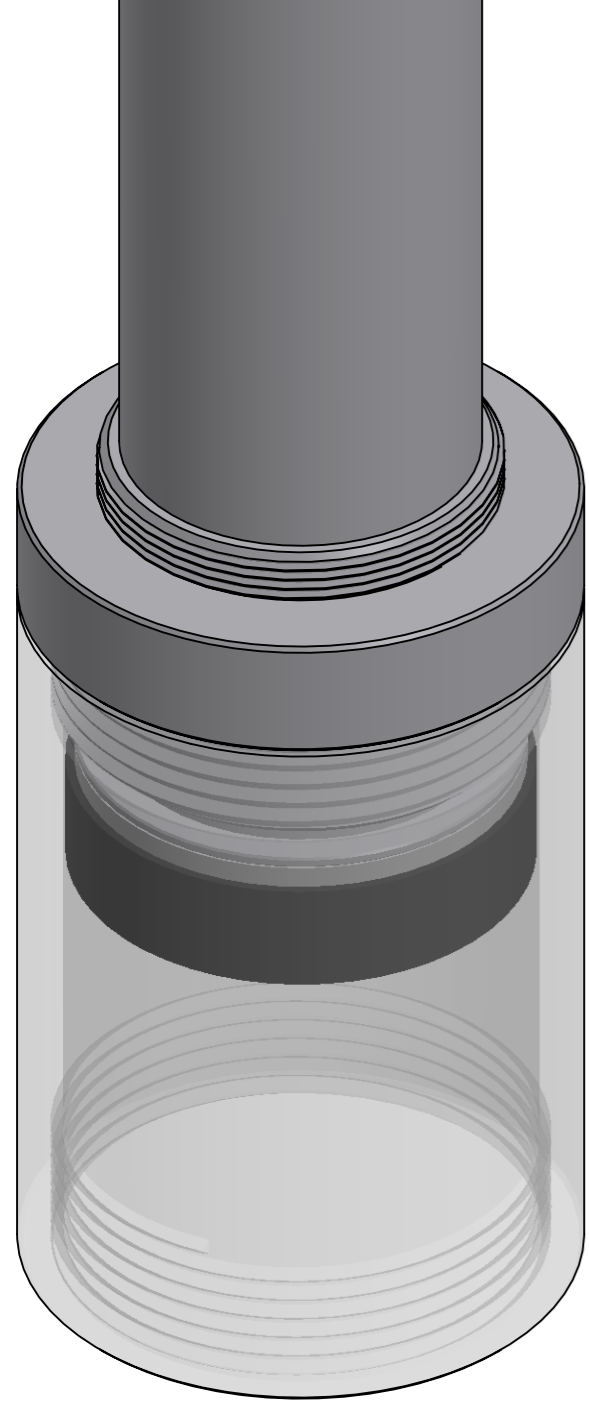
Operation and maintenance instructions can be found at the end of this document.





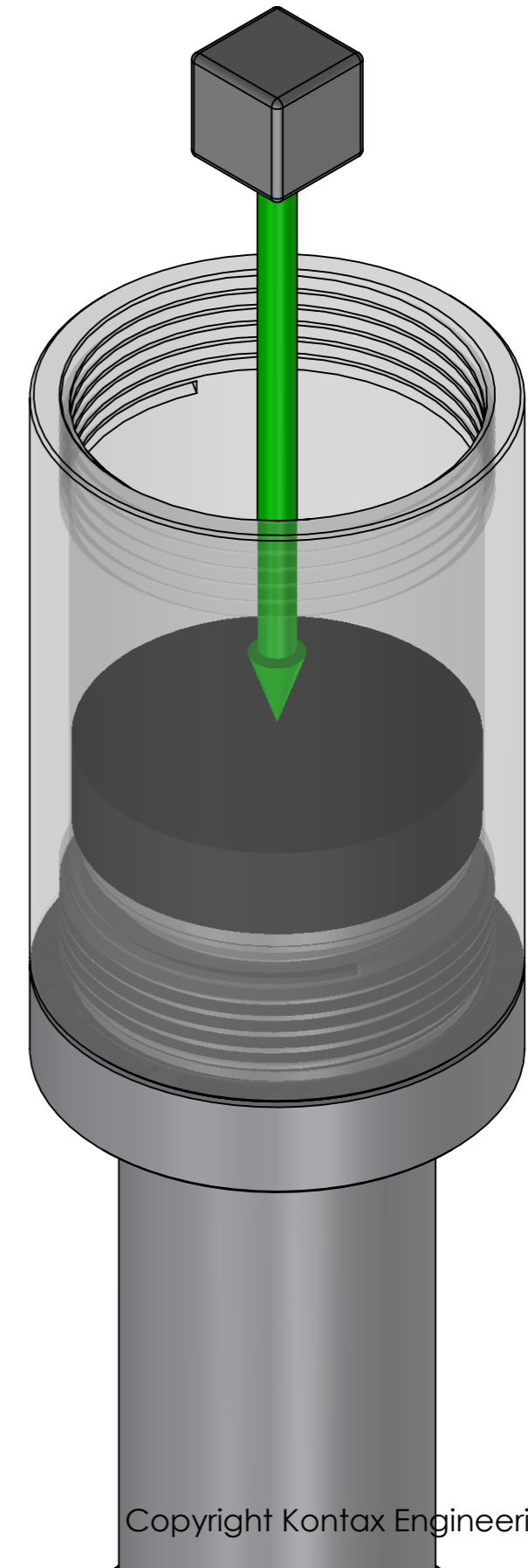
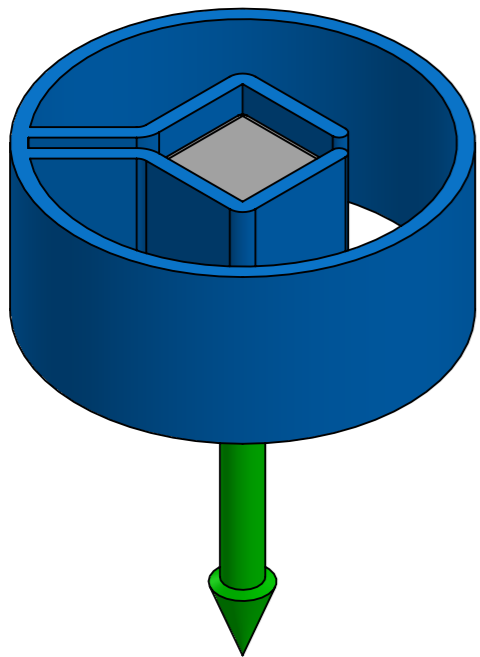
The floating magnet is held in a plastic holder during transit, this will need to be removed before use.

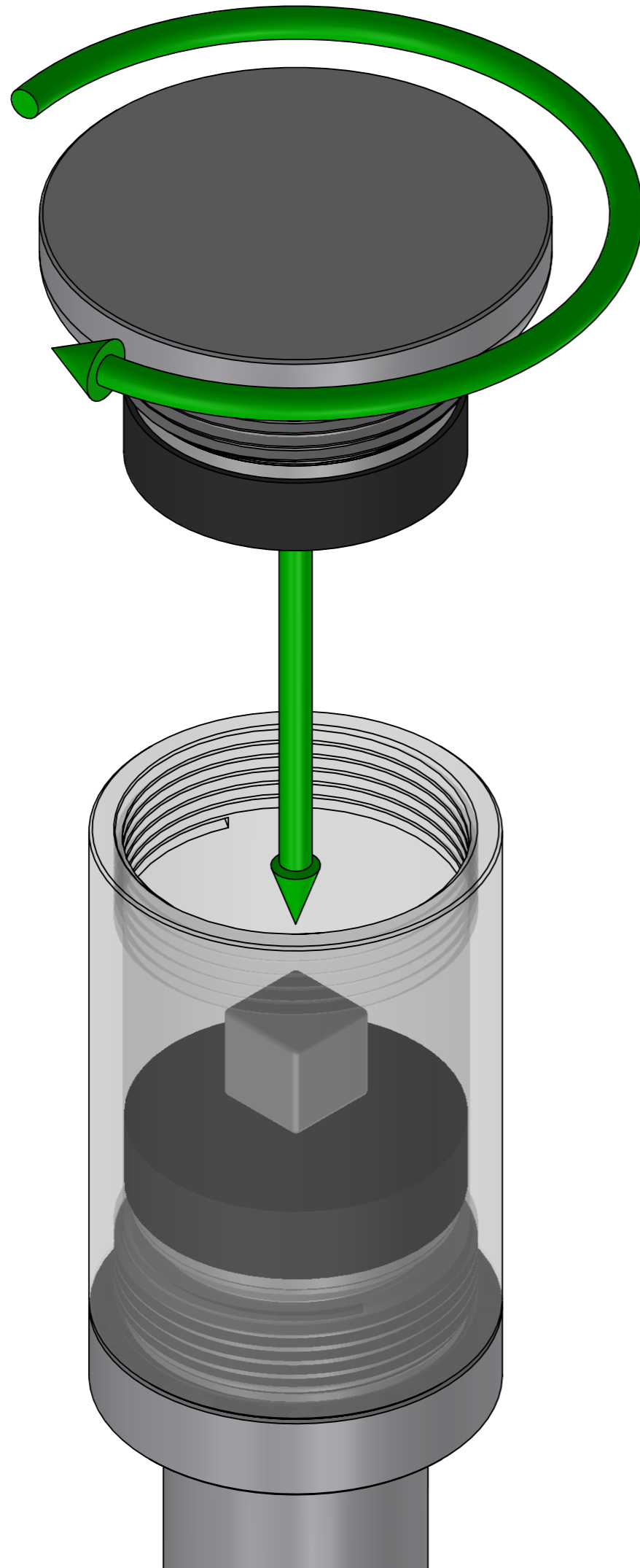
Turn the Levitator upside down, grip the tube and graphite adjuster firmly and unscrew the base. The aluminium base and bottom graphite disc will come out as one unit.



Slide the the magnet holder
and magnet out of the tube.

Remove the magnet from the
magnet holder and place the
magnet inside the tube.





With the magnet inside, screw the base back into the tube.

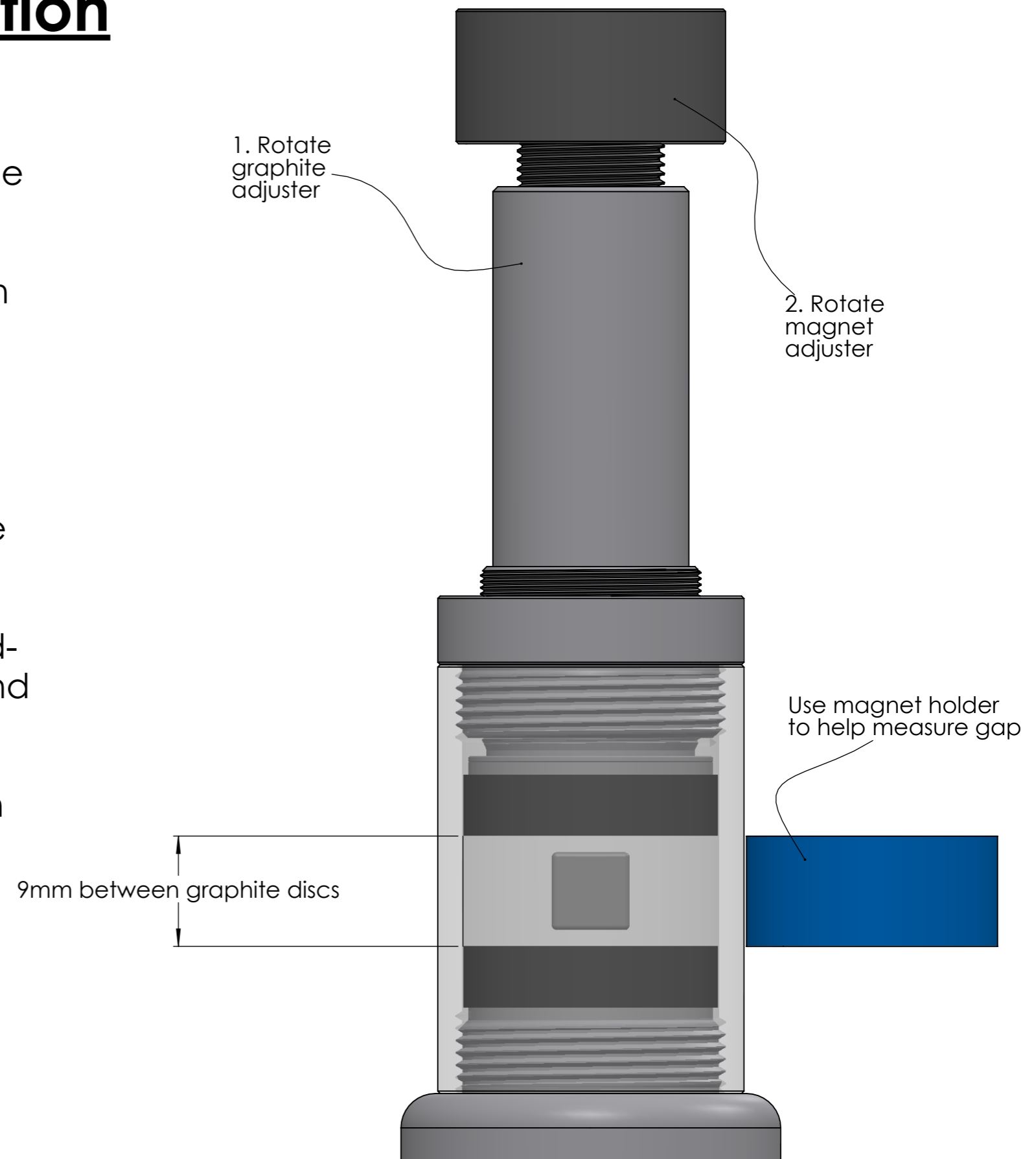
Diamagnetic Levitator Calibration

The levitator mechanism will need calibrating after the magnet and base have been re-fitted.

1. Rotate the graphite adjuster until the gap between the two graphite discs is approximately 9mm. The plastic magnet holder is 9mm thick, you can hold it against the outside of the tube to help to measure when the gap is 9mm.

2. Rotate the magnet adjuster until the magnet inside floats mid-way between the two graphite discs.

You may find that the magnet inside will not float mid-way between the graphite discs, and instead will tend to float towards either disc. If this happens you will need to increase or decrease the 9mm gap until the magnet floats in the middle. The threaded section on both adjusters allow for a wide range of very fine independent adjustments.





Our workshop is located in the Thames Valley, United Kingdom and is staffed by a skilled team of 9 designers, machinists and assemblers. We have 4 CNC mills, 3 CNC lathes and 3 CNC mill-turn centres.