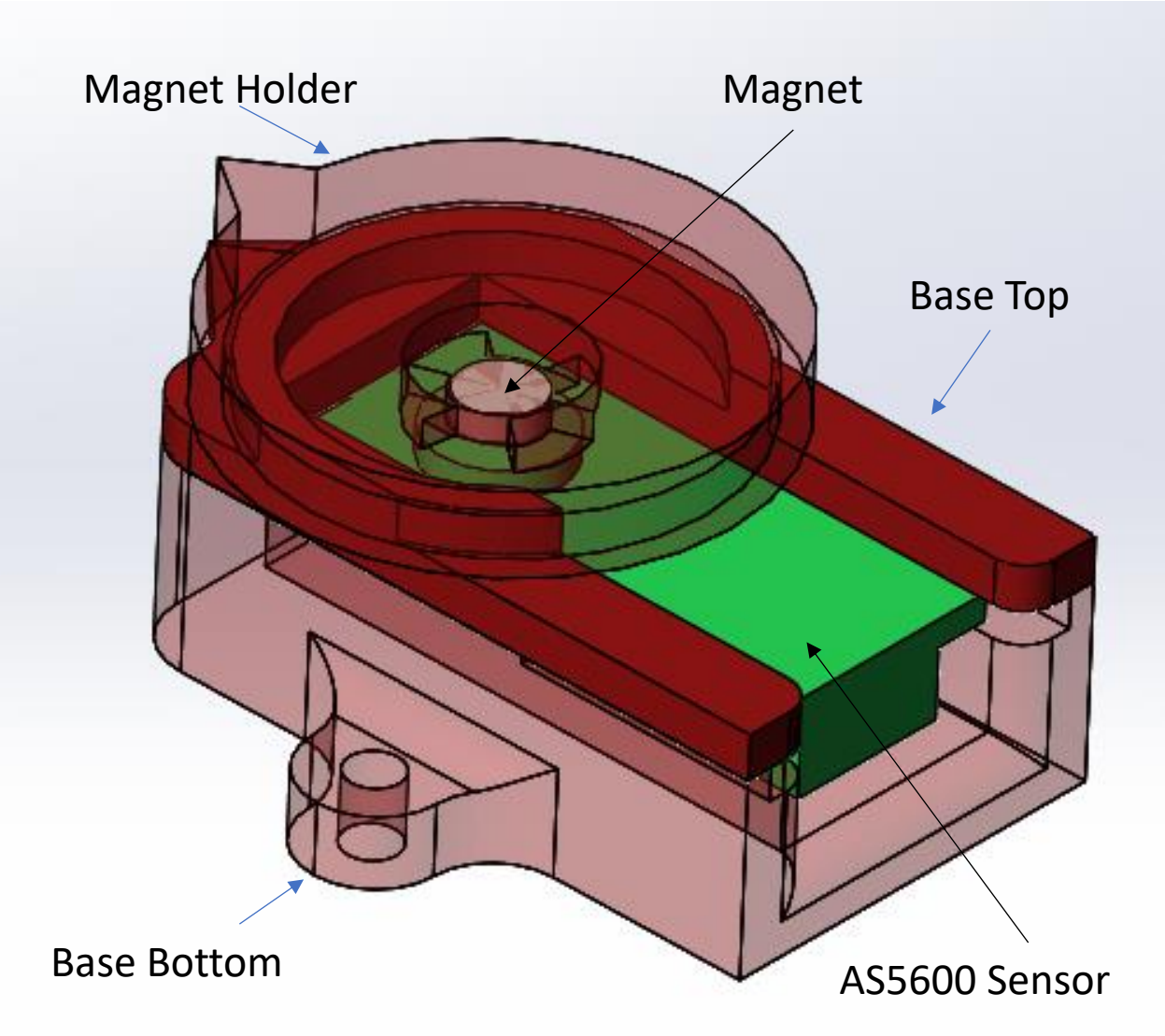
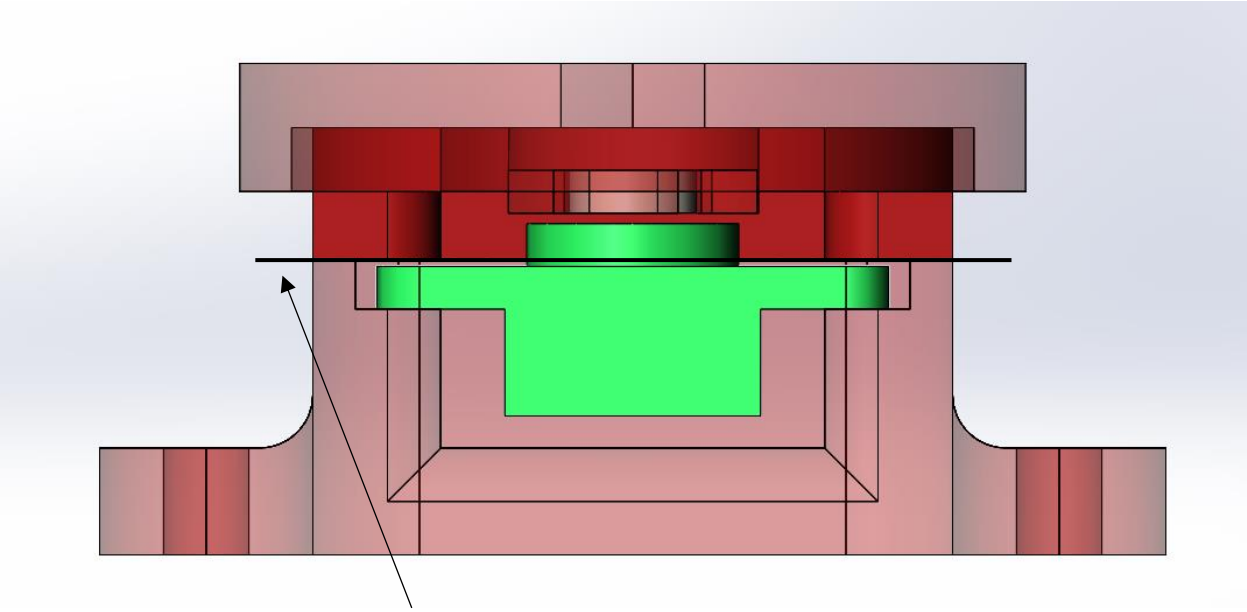
The AS5600 sensor holder is divided into 3 main parts. There is the bottom of the base, upon which the sensor sits, the top of the base, which sandwiches the sensor and keeps it in place, and the magnet holder which sits on top of everything and spins freely.



The base is divided into two components to make 3D printing possible, without it there would be a severe overhang which would require fill material that would be hard to remove after the print. Instead, the component is split in two and is meant to be glued together after the print is completed.

The magnet holder rotates freely on the raised circular edge and keeps the magnet within the necessary distance from the sensor to maintain a strong magnet field for reliable measurements.



Glue line/plane

Then once the two halves are glued together simply slot the AS5600 sensor in the front. If you choose to do so you can secure it with hot glue to keep it in place more permanently. Next simply pop the magnet into place, it should ideally be held in by the friction fit and not need any adhesive. It can be easily removed with a knife or similar tool to pry it out.

Use the pointy parts from the top of the base and the magnet holder as a reference point to see how far you have spun the magnet.

Finally, the two extrusions on either side of the bottom of the base can be used to secure the entire assembly to something sturdier with screws or nails if you chose to do so.