Magneto-Hydrodynamic Experiment for Metal 3D Printing

Aim	Methodology	Results
To design a compact metal extruder that melts metal via induction heating and extrudes it using magneto-hydrodynamics (Lorentz force).	 Modeled key components in SolidWorks (using swept features and 3D sketches). 3D printed parts with Ultimaker Cura. Assembled the experimental rig for testing the magnetohydrodynamic extrusion process. 	The experimental setup is successfully assembled and ready for data collection.





