

Magneto-Hydrodynamic Experiment for Metal 3D Printing

Aim	Methodology	Results
<ul style="list-style-type: none">Designed a compact metal extruder that melts metal via induction heating and extrudes it using magneto-hydrodynamics (Lorentz force).	<ul style="list-style-type: none">Modeled key components in SolidWorks (using swept features and 3D sketches).3D printed parts with Ultimaker Cura.Assembled the experimental rig for testing the magneto-hydrodynamic extrusion process.	<ul style="list-style-type: none">The experimental setup is successfully assembled and ready for data collection.

