Project Title:	Inline Wire Pre-Coater
Members:	Blaine Aschliman Trenton Kern Matthew Mock
Faculty Advisor:	Dr. Don Mueller
Area:	Mechanical Engineering
Sponsored by:	Fort Wayne Metals

This project includes the designing, building, and testing of a new Inline Wire Pre-Coater for the wire drawing process. The Inline Wire Pre-Coater's function is to act as a means of placing pre-coat on wire along with drying the pre-coat before the drawing process. This new inline pre-coater will include a tank for storing and heating the pre-coat solution, a means of moving the pre-coat into the coating areas, and will also include a drying section to solidify the pre-coat onto the wire surface. The new design will also need to incorporate a smaller footprint than commercially available units and will need to accommodate a variety of wire sizes and a range of drawing speeds. Additionally, this new inline pre-coater needs to be portable, user friendly, and safe to operate.