



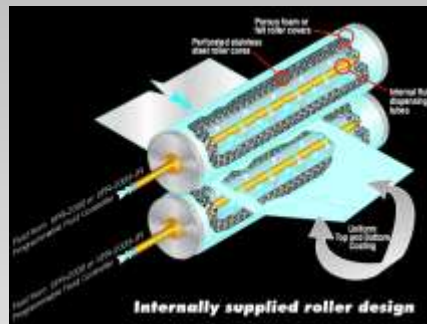
About

Based in Grand Rapids, MI, Unist Inc. has been supplying the metal forming industry (drilling, tapping, stamping etc.) with cutting edge lubrication systems that improve efficiency and cut costs.



Responsibilities

- Working with senior engineers to develop next generation products
- Assembling custom roll on lubrication systems
- Prototyping, machining, and assembling systems to improve efficiency around the shop



What I Learned

The most important lesson that I learned during my time at Unist was feasibility of manufacturing. This is something very important to the design phase of a product, can cost a company a lot of money if not thought through.



Project

My major project for the summer involved working with senior engineers to develop a new spray-on lubrication system. This involved many meetings discussing materials, assembly, and prototyping. One of the major problems discussed what the feasibility of manufacturing and the materials used.

The system includes a fluid reservoir, electronic control board and interface, along with two (or more) valves. This enables the user to output a precise amount of fluid, whenever they want and control it all electronically. Due to the economic downturn, the project was not able to get into the prototype phase of the extrusion and circuit board until the end of the summer.