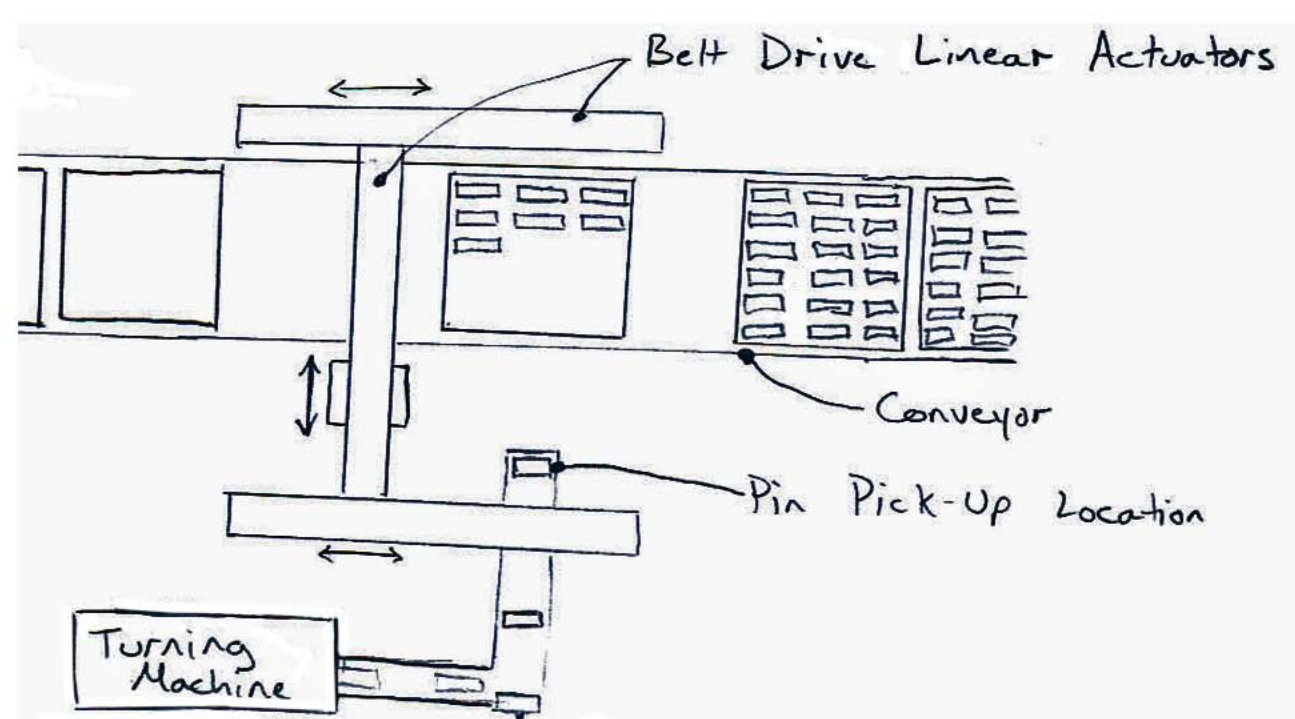


Piston Pin Manufacturing Process Improvement

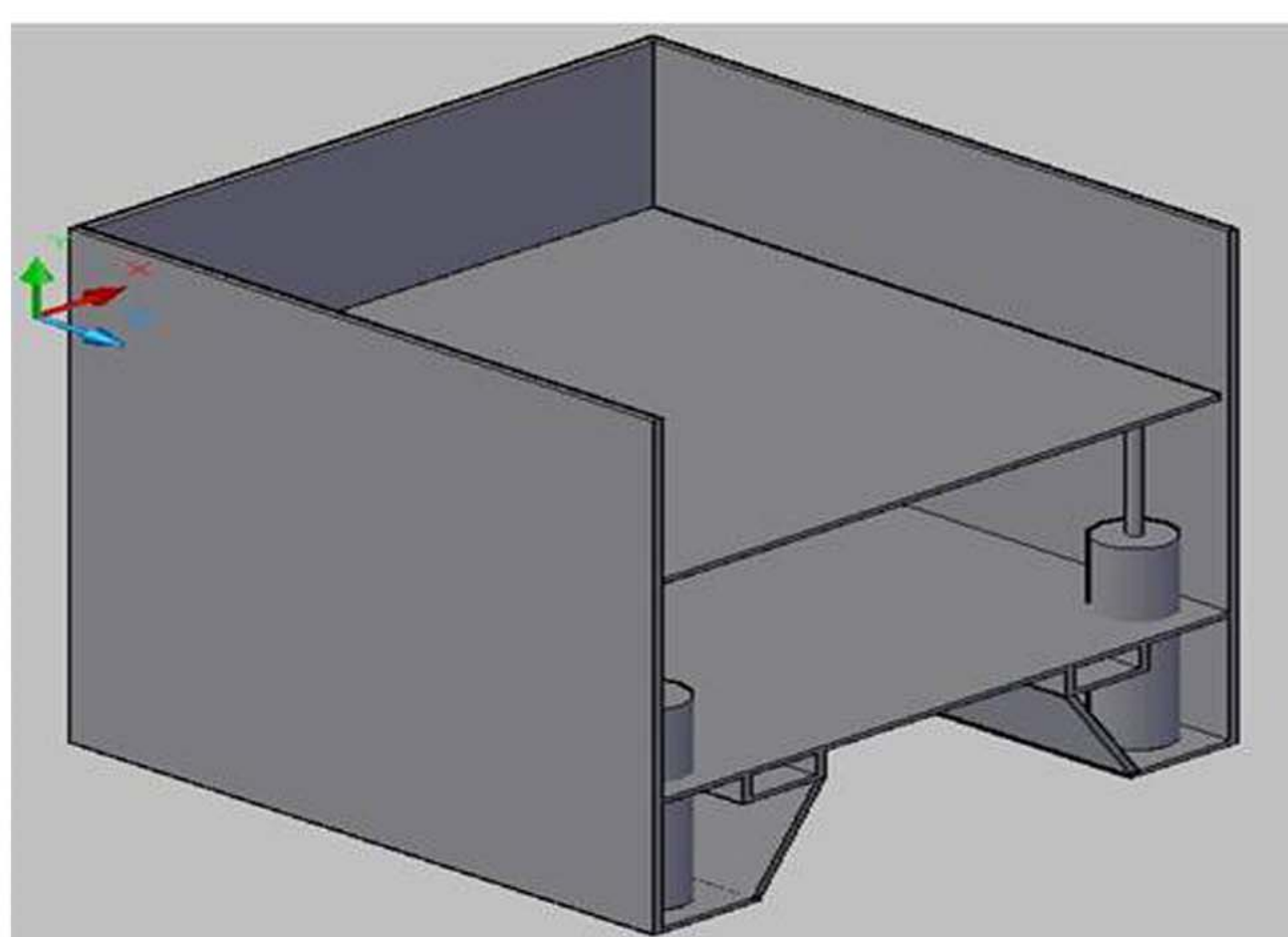
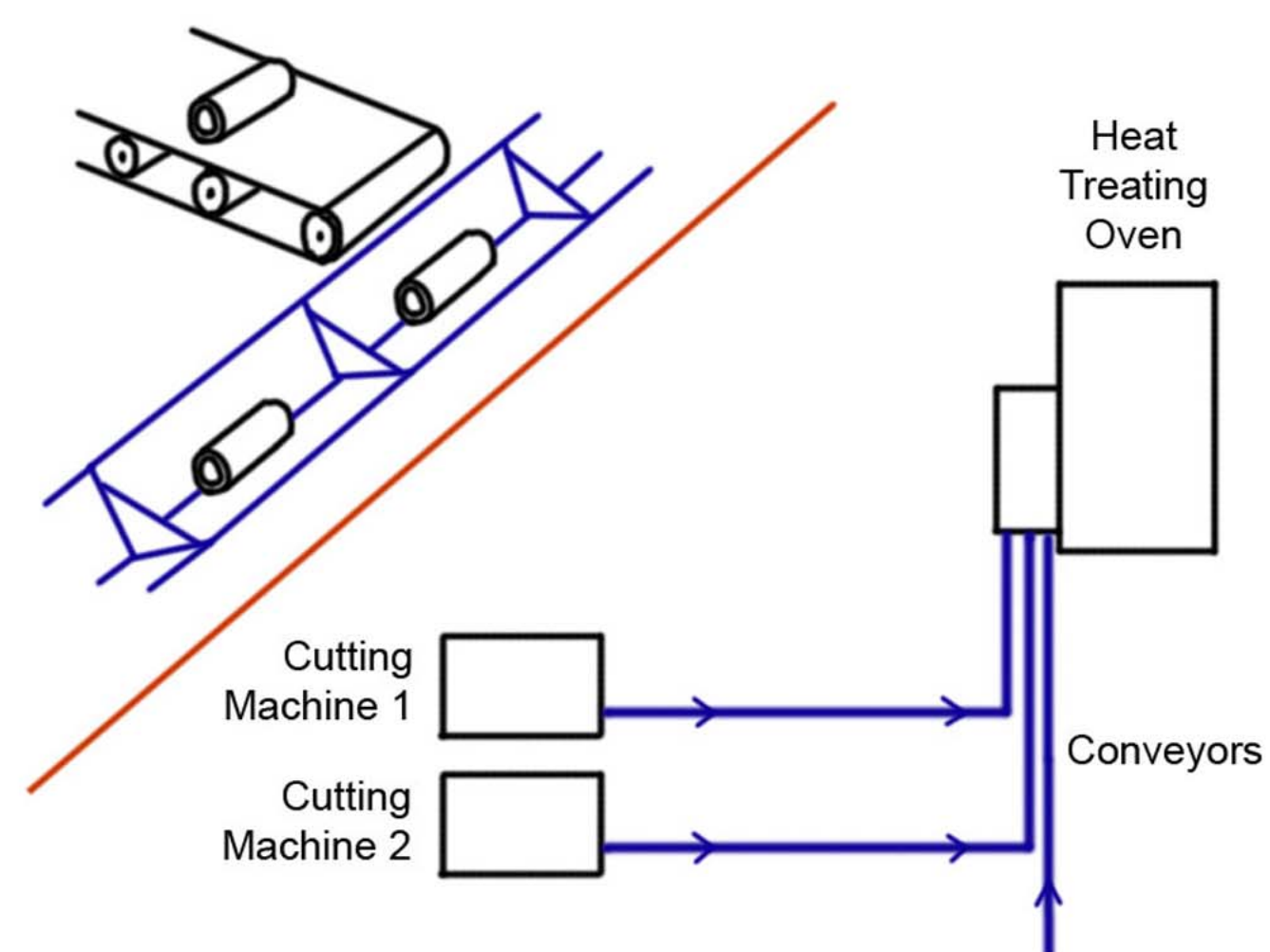
Explored Systems

Solutions investigated during the course of project.



3-axis simple robotic pick and place. High cost to accommodate each machine.

Factory-scale conveyor system. Would require extensive network of conveyors - expensive and complex



Level-controlling bin with adjusting bottom. Stores pins in bulk instead of orientated, as required.

Ammo-box system that pins roll into from conveyor. Similar concept already utilized in the factory. Pins get stuck on exit.

