Live Tooling Lathes

Project 3



**Project 3 Overview**



Outcomes:

1. Successfully set the tool offsets manually for 328-3
2. Successfully set load, set-up, and offset both a Radial and Axial Live Tool Holders
3. Successfully manually program the part
4. Successfully Dry Run the part
5. Successfully produce a part to print tolerances

Topics Covered:

* Turning
* Drilling and Boring w/ a drill
* Radial Milling
* Axial Milling
* Radial Drilling
* Axial Drilling
* Parting
* Parts catcher

Suggested Tool List:

* T4- 80° turning tool
* T1- Sandvik 880 1" diameter drill
* T9- axial cutting tool w/1/4" 3 flute endmill
* T17- radial cutting tool w/ Sandvik 390 1.5" shoulder mill
* T7- axial cutting tool, .201 carbide drill
* T13- radial cutting tool, .234 carbide drill
* T20- Parting Tool

Suggested Jaws:

* Hard Jaws

PRZ:

* Side 1:
  + Z- Front Face of Part
  + X- Centerline of Part

For this part, you should turn the profile, drill the hole and then use the drill to bore the hole.The large flat on the OD can be milled, followed by the radial drilling. After tha,t the face holes can be drilled and then the axial slot can be milled. Last, you can part the part off and use the parts catcher to catch it.