

Directions

1. Import “quiz1-pp.sldprt” from course web site into MasterCAM
2. Create a part blank that is Aluminum 6061, 6.000” x 6.000” x .1.000” thick.
3. Part zero will be on the top surface of the blank at the upper left corner.
4. Create the following tools and calculate the speed and feed rate using 300 SFM and .003” chip load. Enter these values into MasterCAM

	Description	Diameter	Material	No. Flutes	Speed	Feed
		(inch)			(RPM)	(ipm)
Tool 1	2 flute end mill	3/4”	HSS	2		
Tool 2	Center drill	1/8”	HSS	2		
Tool 3	Drill	1/4”	HSS	2		
Tool 4	Chamfer tool	3/4”	HSS	2		

5. Face .025” off of the top of the part using T1.
6. Mill out the pockets using T1.
7. Spot drill the holes using T2.
8. Drill the holes using T3.
9. Chamfer the top edges of the part, the pocket and the holes using T4.
10. Make sure that all of the operations are in the correct order (T1 – T2 – T3 – T4).
11. Verify the machining – adjust as necessary.
12. Post the code for the Tree mill post processor MPDYPTH.MMD.