

## MANUFACTURING PLAN

RAW MATERIAL STOCK: Aluminum 1"x1" Angle Stock

STEP	PROCESS DESCRIPTION	MACHINE	FIXTURE	TOOL(S)	SPEED (RPM)
1	Cut Raw Stock .625"	Bandsaw	Bandsaw Vise		
2	Deburr part	File		File	
3	Sercure Angle stock in mill with flat edge on top and other edge on the outside of the parallels around .25" away from vice and use vice stop to constrain in X direction	Mill	Vise 1.5" parallels		
4	Find Center using the edge where the 90 degree angle occurs and the top edge	Mill	Vise 1.5" parallels	Edge Finder with Chuck	1000
5	centerdrill first hole	Mill	Vise 1.5" parallels	Centerdrill with chuck	700
6	Drill .12" clearance hole through the material	Mill	Vise 1.5" parallels	#30 Drill Bit/ 1/4" Collet	700
7	Rotate Part				
8	Part is already centered using the same vice stop location	Mill	Vise 1.5" parallels	Edge Finder	1000
9	centerdrill second hole	Mill	Vise 1.5" parallels	Centerdrill with chuck	100
10	Drill .2010" clearance hole through materal	Mill	Vise 1.5" parallels	#7 Drill Bit, 3/8" Collet	700
11	Deburr part	file		file	

В

SHEET 2 OF 2

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