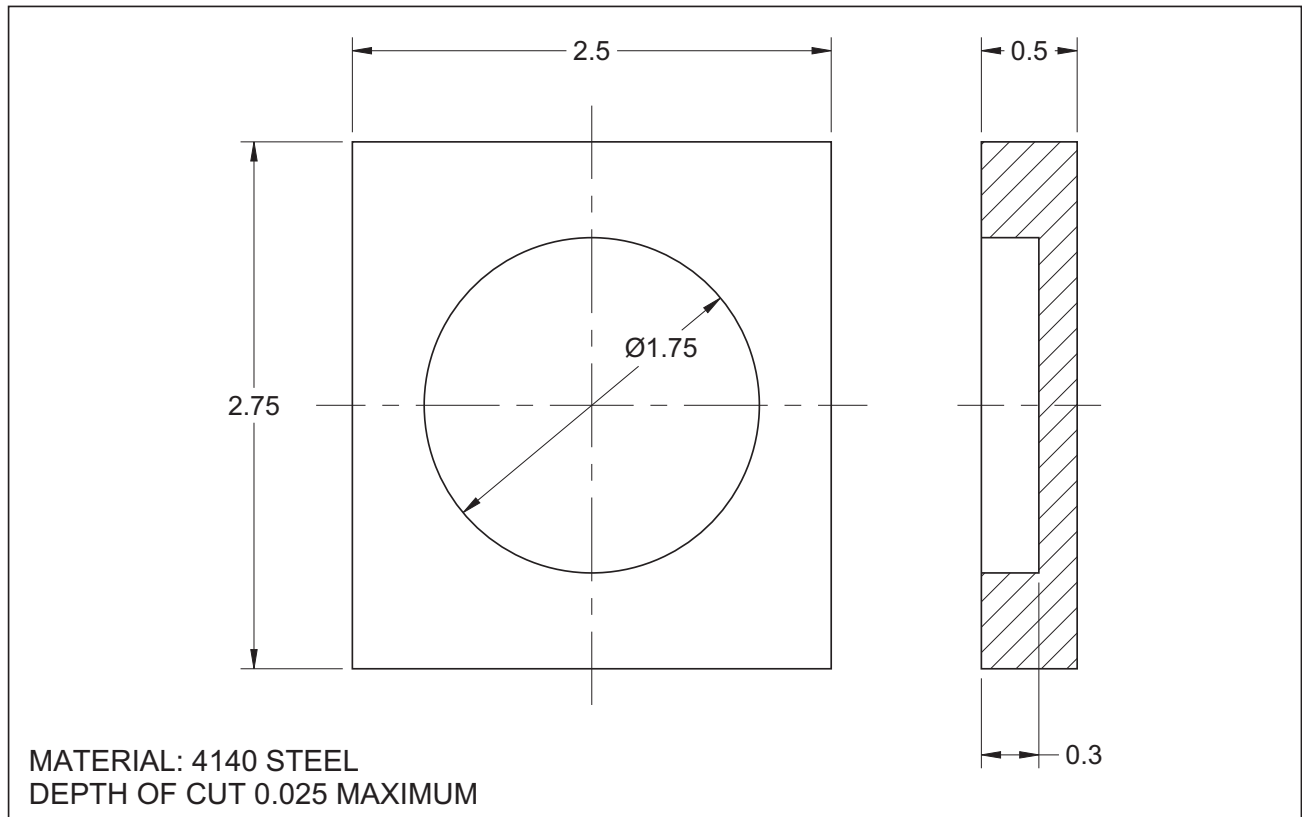


This exercise is designed to machine a circular pocket. The goal is to make an efficient program to machine the circular pocket shown below. The restriction is the material hardness - the maximum depth of cut cannot exceed 0.025, due to the tough material machined. Select only one suitable cutting tool for the whole job.



When the project is completed, answer the following questions, based on the developed program:

#	Question	Answer
1	What will be the minimum diameter of the selected tool that guarantees the clean up of the pocket bottom?	
2	What type of cutting tool is required to machine the above pocket ?	
3	Can the Ø 1.75 circular contour be machined in a single block ?	
4	What is the minimum number of depth passes to complete the pocket ?	
5	If the start for cutting is Z0.1, how many depth passes of 0.025 single depth will be required ?	
6	If the number of depth passes changes from 0.025 to 0.050, what changes in the part program will be required ?	