

Mastercam X²

**TRAINING
GUIDE**



ADVANCED EXERCISE-1

ADVANCED EXERCISE -1 - INSTRUCTIONS

1. The drawing for this part is on the CD accompanying this book. It is called Advance-Exercise-Drawing-1.pdf. It can be printed onto a larger format if necessary.
2. The part blank has one face pre-machined to a thickness of 2.1"
3. The size of the blank material: Finish size Plus .25" (.125" each side) on width and length Plus 0.1" on thickness.
4. Offset material in Job Setup accordingly.
5. Material: Aluminium 6061.
6. The six hold down holes have been pre drilled and counter bored - do not create.
7. The part is secured to the fixture with socket head cap screws through the pre drilled holes, with the pre machined face down onto fixture.
8. X0 Y0 = your choice.
9. Z zero = top of fixture (bottom of part).
10. The part is being machined on a vertical spindle machine with a maximum RPM of 5000.
11. Ensure you have the appropriate clearance retract, feed planes set.
12. Use the appropriate feed rates and spindle speeds for the material and cutters being used.
13. Use appropriate tools for rouging and finishing this part.
14. When possible use one operation to rough and finish.
15. The sequence of machining operations will be decided by the student.
16. Face mill the part to thickness in one cut.
17. No boring required, all large holes will be milled.
18. Please note the arrow pointing down on the drawing denotes depth.

