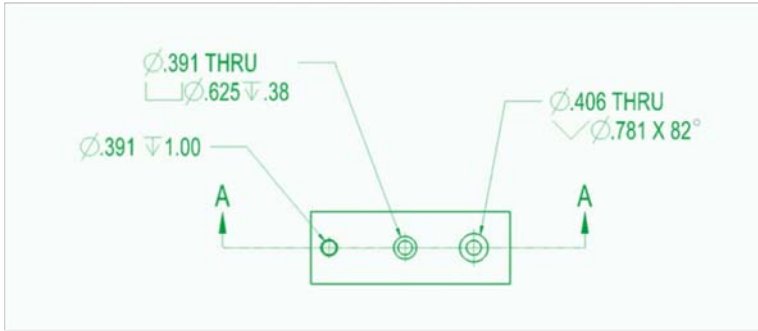










File information for Assembly

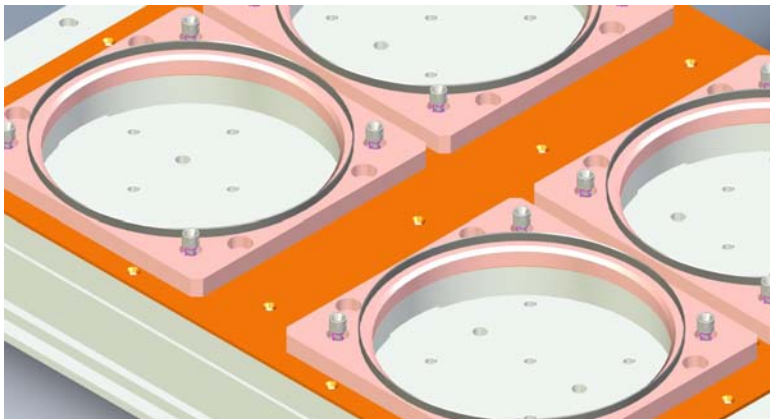


Communication through files and symbols is a smooth way to get the outcome that customers expect. Sharples does have many capabilities that can make all sorts of tooling. The key is to communicate what the expectations are. This document might seem basic but if you know what is easily available it may help quicken the turnarounds in many assembled tools whether the final assembly is at Sharples or in your tooling department.

- 
Countersink holes: Enlarge and beveled rim on a hole so that a screw can be inserted flush with the surface of the board or plate.
- 
Counterbore holes: A hole that has a flat-bottomed enlargement at its mouth. Used for bolt clearance and floating dies if washers are utilized.
- 
Depth: Provide the desired depth of the counterbore or the pocket. Or provide the bolt size being used so we know the proper clearance needed.
- 
Thickness of Material: It is very important to know the material thickness for dies, buildups, backers and strikers.
- 
Diameter: Please specify the finished diameter required on all holes.
- 
Holes noted for Far-side: Can note countersinking, tapped side or counterbore side.

Other items that will help are:

- ◆ Side View with details
- ◆ Pockets if thru holes or milled to a certain Depth
- ◆ Bevel Profile of knife to determine Center or Side Bevel



*These are the *common* sizes we are normally equipped to machine. Special sizes can also be done; extra time may be necessary to acquire proper tooling.

*Countersink: 90 deg, 82 deg, M4, M5, M6, M8, 1/4-20.

*Thread sizes: M4, M5, M6, M8, M10, M12, 1/4-20, 5/16-18, 3/8-16 and 1/2-13