

Newsletter Newsletter



MASTER TOOL, LLC
Subsidiary Sumitomo Electric Hardmetal Corp.
INNOVATORS OF SPECIAL DESIGN & BUILD TOOLING SYSTEMS
P.O. Box 189 * 210 River Street * Grand River, Ohio 44045
Phone (440) 354-0600 * Fax (440) 354-6372 * Email: master@mttools.com

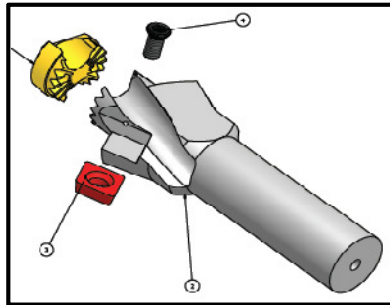


Fig. 1

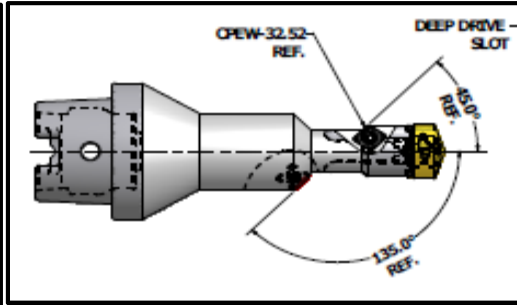


Fig. 2

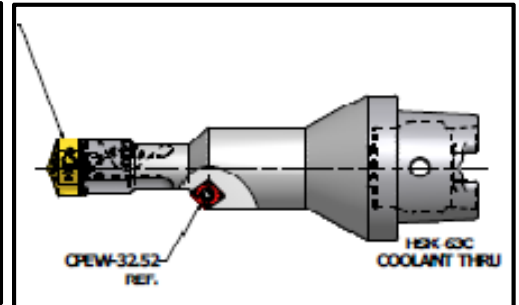


Fig. 3

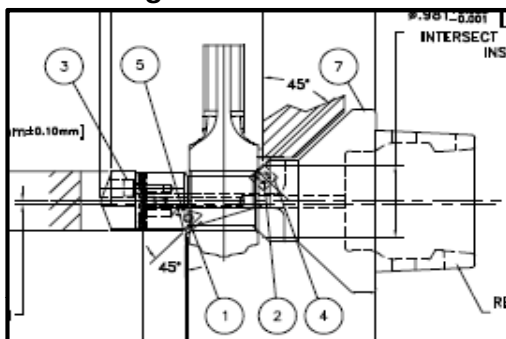


Fig. 4

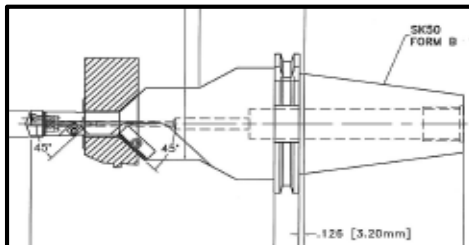


Fig. 5

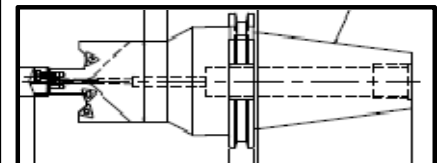


Fig. 6

For the past several months Master Tool has been approved to manufacture special SMD drill bodies here in the United States.

Since that time we have manufactured and quoted a number of different style and configurations.

Some typical examples of what can be done are shown in the figures above.

The simplest and most common style is shown in **Fig. 1**. This style simply drills and chamfers a hole. Obviously, most drilled holes require a chamfer and it is very cost effective to combine the drilling and chamfering operation. We generally can incorporate any style standard, screw down insert for the chamfer operation. The picture shown uses a CCMT style insert.

Figs. 2 thru **4** show a more complex drill and chamfer operation. In this case, the customer wanted to drill, front chamfer and back chamfer the hole. The tool design required placing the back chamfer insert below the diameter of the drill. By doing this the customer is able to move the spindle off-center after drilling through the part and circle interpolate the back chamfer. The front chamfer is accomplished in the normal way. **Figs. 2 & 3** show the tool in two different views. **Fig. 4** shows the tool in the work piece.

Fig. 5 reflects a tool requiring an extra long entry chamfer. In this particular case the work piece was aluminum and we incorporated a special, long edged PCD blade for the chamfer operation.

The drawing shown in **Fig. 6** is an example of a complex shape (face and multiple chamfers) on the entry of the drilled hole.