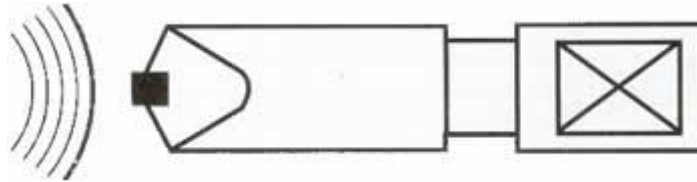


SHAPING TOOLS:



Details: Profiling and copy dressing of grinding wheels makes high demands on profile retention capability and thus on wear resistance of the diamond tool. Wherever diamond blade type tools can not meet these requirements due to the specific grinding wheel geometry. Precision ground shaping tools are the solution. Shaping tools feature the unique "structure-cut" to ensure optimum tool life, they are manufactured only from the highest grade of natural diamonds and undergo stringent quality control during manufacturing.

Important Points to consider:

- Choose a diamond with the largest included angle and toughest geometric shape allowed by the profile requirements
- Use a drag angle, where possible to maximize cutting edge life.
- Make sure that the tool is rigidly mounted.
- Follow machine manufacturer's instructions and recommendations.

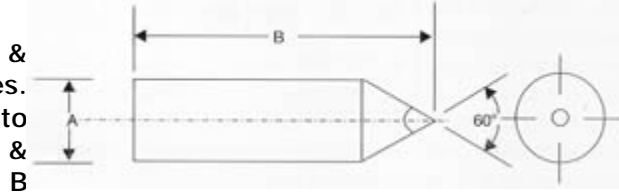
Type	CAT No.	Radius in Inches	Dimensions
Diaform	SF 4125 SF 4250 SF 4500	0.125 0.250 0.500	<p>Technical drawing of a Diaform tool. The top view shows a diamond tip with a 40-degree angle. Dimensions include 17/32" and 9/32" for the top section, 1/16" and 11/32" for the middle section, and .3747" for the height. The bottom view shows a square mounting hole with an 'X' and a dimension of 11/32". The overall length is 13/4".</p>
Diaform	SF 4125 SF 4250 SF 4500	0.125 0.250 0.500	<p>Technical drawing of a Diaform tool, similar to the one above but with a different overall length. The top view shows a diamond tip with a 40-degree angle. Dimensions include 17/32" and 9/32" for the top section, 1/16" and 11/32" for the middle section, and .3747" for the height. The bottom view shows a square mounting hole with an 'X' and a dimension of 11/32". The overall length is 1 3/8".</p>

<p>Diaform</p>	<p>SF 6125 SF 6250 SF 6500</p>	<p>0.125 0.250 0.500</p>	
<p>Diaform</p>	<p>SF 6125 SF 6250 SF 6500</p>	<p>0.125 0.250 0.500</p>	
<p>60° Chisel</p>	<p>SF 6632 SF 6633 SF 6672 SF 6673</p>	<p>SHANK SIZE 3/8" x 2.1/2" 3/8" x 3" 7/16" x 2.1/2" 7/16" x 3"</p>	

<p>Copying</p>	<p>Fortuna</p>		<p>Technical drawing of a tool bit for 'Fortuna'. It includes a side view and a top view. Dimensions include diameters $\text{Ø}10$ and $\text{Ø}12.238$, lengths of 5, 8, 18, 14, and 42, a chamfer of 1.5, a diameter of 24, and a thread of M6. A surface finish of MT#1 is indicated.</p>
<p>Copying</p>	<p>Schaut</p>		<p>Technical drawing of a tool bit for 'Schaut'. It includes a side view and a top view. Dimensions include diameters $\text{Ø}5$ and $\text{Ø}14$, lengths of 18, 15, 4, 44, and 30, a chamfer of 0.5x45, a diameter of 12.0650, a diameter of 10.7120, and a chamfer of 3. A surface finish of MT#1 is indicated.</p>

**60° Lapped
Dressing
Tool**

Diamonds are ground &
lapped to precise angles.
Tolerance: Center set to
T.I.R. $\pm .002$. Specify \varnothing A &
B



Note: Grinding wheels with grain size coarser than 60 mesh produce especially heavy wear on shaping tools.