

Technical Data

Standard Shapes

The shaped holes below are UniPunch standards and are available for most hole punching units. When ordering, specify dimensions as required. Refer to individual Unit specifications for size limitations. Intermediate and metric sizes are available at no additional cost.

<p>ROUND</p> <p>$S = A$ $P = 3.14XA$</p>	<p>OBOUND</p> <p>$S = A$ $P = 2A + 1.14B$</p>	<p>RECTANGLE</p> <p>$S = \sqrt{A^2 + B^2}$ $P = 2A + 2B$</p>	<p>SINGLE "D"</p> <p>$S = A$ $P(\text{est}) = 1.57A + 2B$</p>	<p>DOUBLE "D"</p> <p>$S = A$ $P(\text{est}) = 2A + 2B$</p>	<p>SQUARE</p> <p>$S = 1.414B$ $P = 4B$</p>
<p>SQ. / DIA. CORNERS</p> <p>$S = A$ $P(\text{est}) = 3.14A$</p>	<p>LONG "D"</p> <p>$S = [A^2/(4B)] + B$ $P = 2B + 1.57A$</p>	<p>HEXAGON</p> <p>$S = 1.155A$ $P = 3.46A$</p>	<p>OCTAGON</p> <p>$S = 1.082A$ $P = 8B + 3.313A$</p>	<p>EQUIL. TRIANGLE*</p> <p>$S = 1.334B$ $P = 3A$</p>	<p>DIAMOND*</p> <p>$S = A$ $P = 2\sqrt{A^2 + B^2}$</p>

Point 'X' refers to 0 degree position as operator faces front of holder.

S=Diameter, P=Perimeter

*Sketch required

Required Dimensioning Specifications

Common shaped hole configurations shown here require specific dimensions when ordering. Point 'X' refers to 0 degree position as operator faces front of holder. For non-standard angular settings, contact the UniPunch Quotations Department.

<p>KEYHOLE 1200</p>	<p>BUTTERFLY 1201</p>	<p>1204</p>	<p>LONG "D" 1205</p>	<p>1206</p>	<p>SQUARE 45° 1209</p>
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Heeled Punches

Recommended for notching the edge of the sheet for medium or low production runs. The Heel of the Punch projects into the die to stabilize the Punch. When ordering, specify either obround or rectangle shape. Two variations are available as shown below.

<p>"A" SERIES H = 3/8" "B" SERIES H = 1/4"</p>	<p>HEELED OBR. 1230</p>	<p>OBR. END & HEEL 1231</p>	<p>HEELED RECT. 1235</p>	<p>RECT. END & HEEL 1236</p>
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Note: Use edge notch units for high production and heavy material applications or when notch is beyond the range of Heeled Punches.

Front of Unit Orientation Information

Most shaped Punches and Dies can be used in two positions at 90 degrees to each other. To locate position of Standard Heeled Punches, standard and special non-symmetrical shapes, see diagram.

The keyhole shape as shown in the drawing, when ordered would specify point 'X' at 180 and 270 degrees.

