Screw Extractors & Sets, Tool Sharpeners

Screw Extractors Cont.
Type 421-AG Screw, Stud
and Pipe Extractors

The square shape of these extractors give the tools the ability to remove broken bolts, screws and pipes with minimum deformation of the broken part. To remove the broken thread part, drill a hole in the end of the broken part, insert extractor and turn counter clockwise using a wrench on the exposed end of the extractor. The broken part should unscrew without damage to the threads. These forged extractors will not chew up or expand the object being removed.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Drill Size</th>
<th>Material</th>
<th>Screw Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0312173</td>
<td>3/32&quot;</td>
<td>Carbon Steel</td>
<td>3/32&quot; - 3/16&quot;</td>
</tr>
<tr>
<td>0312174</td>
<td>3/16&quot;</td>
<td>Carbon Steel</td>
<td>3/32&quot; - 1/16&quot;</td>
</tr>
<tr>
<td>0312175</td>
<td>1/4&quot;</td>
<td>Carbon Steel</td>
<td>3/16&quot; - 1/16&quot;</td>
</tr>
<tr>
<td>0312177</td>
<td>3/32&quot;</td>
<td>Carbon Steel</td>
<td>3/16&quot; - 1/32&quot;</td>
</tr>
<tr>
<td>0312178</td>
<td>1/8&quot;</td>
<td>Carbon Steel</td>
<td>3/16&quot; - 1/32&quot;</td>
</tr>
<tr>
<td>0312179</td>
<td>5/32&quot;</td>
<td>Carbon Steel</td>
<td>1/8&quot; - 1/16&quot;</td>
</tr>
<tr>
<td>0312180</td>
<td>3/16&quot;</td>
<td>Carbon Steel</td>
<td>1/8&quot; - 1/32&quot;</td>
</tr>
<tr>
<td>0312181</td>
<td>1/4&quot;</td>
<td>Carbon Steel</td>
<td>1/8&quot; - 3/32&quot;</td>
</tr>
</tbody>
</table>

Screw Extractor Sets
Sets

316546 53490 7007278 7007279 7007309 7012745

Screw Extractors Cont.

Drill Doctor DD500X
The DD500X shop model is designed for durability and has the flexibility required to sharpen the most popular sizes of dull or broken bits-including split points and masonry bits. Increase capacity with optional 3/4” chuck accessory.

Specifications
• Sharpens twist bit diameters from 3/32” up to 1/2”.
• Sharpens TiN-coated, high-speed steel, Cobalt, and carbide bits.
• Variable point angle from 115 to 140 degrees.
• Creates self-centering split points.
• Variable alignment of chisel points and relief angles.
• Adjustable material take-off.
• Easy-change standard 180 grit diamond sharpening wheel.
• Packaged in rigid plastic storage case.
• 3/4” chuck available separately; item #0323463.
• Course 100 grit diamond sharpening wheel available separately; item #0323461.
• Reverse-twist (left-hand) chuck available separately; item #0323465.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Capacity</th>
<th>Model No.</th>
<th>Amps</th>
<th>Voltage</th>
<th>Speed</th>
<th>Horsepower</th>
<th>Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323464</td>
<td>3/32” - 1/2”</td>
<td>03681</td>
<td>1.75</td>
<td>110</td>
<td>2000 rpm</td>
<td>1/7</td>
<td>Drill Bit Sharpener</td>
<td>2.9 lb</td>
</tr>
</tbody>
</table>

Drill Doctor DD750X
3/32” - 1/2 Chuck
1/2 - 3/4 Chuck
The DD750X shop model is designed for durability and has the flexibility required to sharpen the largest range of dull or broken bits-including split points and masonry bits. The DD750X also adds increased capacity, sharpening 3/32” to 3/4” bits.

Specifications
• Sharpens twist bit diameters from 3/32” up to 3/4”.
• Sharpens TiN-coated, high-speed steel, Cobalt, and carbide bits.
• Variable point angle from 115 to 140 degrees.
• Creates self-centering split points.
• Variable alignment of chisel points and relief angles.
• Adjustable material take-off.
• Easy-change standard 180 grit diamond sharpening wheel.
• Packaged in rigid plastic storage case.
• Course 100 grit diamond sharpening wheel available separately; item #0323461.
• Reverse-twist (left-hand) chuck available separately; item #0323465.

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<th>Type</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323467</td>
<td>3/32” - 1/2”</td>
<td>03682</td>
<td>1.75</td>
<td>110</td>
<td>2000 rpm</td>
<td>1/7</td>
<td>Drill Bit Sharpener</td>
<td>2.9 lb</td>
</tr>
</tbody>
</table>

Tool Sharpeners

Drill Doctor DD350X
The DD350X is ideal for the home workshop. It provides the homeowner, weekend craftsman, or hobbyist with the sharpening power needed to restore dull bits power needed to restore dull bits from 3/32” to 1/2” in diameter to factory spec. The new DD350X adds simplicity, stability and accuracy for the end-user.

Specifications
• Sharpens twist bit diameters from 3/32” up to 1/2”.
• Sharpens TiN-coated, high-speed steel, and Cobalt bits.
• V-Block chuck jaws prevent twisting on small bits.
• On-chuck alignment for simplified sharpening process.
• Easy-change standard 180 grit diamond sharpening wheel.
• Course 100 grit diamond sharpening wheel available separately; item #0323461.

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<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0323461</td>
<td>3/32” - 1/2”</td>
<td>03679</td>
<td>1.75</td>
<td>110</td>
<td>2000 rpm</td>
<td>1/7</td>
<td>Drill Bit Sharpener</td>
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</tbody>
</table>

For pricing and availability, contact your local Fastenal store or visit fastenal.com

If you can’t find it on our shelves or in our catalog, we’ll make it for you at one of our manufacturing locations.