Economical machining with Phoenix

Sphinx Tools Ltd. is the right partner for innovative machining solutions. We provide the perfect tool for every application, along with excellent after-sales service. All Sphinx products are developed and produced entirely in Switzerland.

The new Phoenix high performance drill is a fine addition to the range of Sphinx Tools Ltd. This drill, with internal coolant, is perfect for machining hard-to-cut materials.

Sphinx developed a special heavy-duty solid carbide drill to cut these types of materials. You can be up to 10 times more productive with it than with its conventional solid carbide counterpart. Moreover, you can increase your drilling speed and feed many times over.

All this is made possible by a completely new geometry and the most modern in coating techniques. Of course, Sphinx will, if necessary, re-sharpen and re-coat this tool.

The perfect drill with integrated coolant!

Your partner
Economical machining with Phoenix

**Product advantages:**

- Maximum productivity thanks to ultra-fast speed and feed.
- Special flute and tip geometry assures low cutting forces and optimum chip break.
- Solid carbide material (ultra-fine grain carbide) delivers increased wear resistance plus a high degree of toughness.
- A smooth Balzers coating assures high wear resistance and optimum chip evacuation.
- Special dimensions available on request.

**Useable on:**

- Steel
- Stainless steel
- Cast iron (gray cast, nodular cast, vermicular cast)
- Non-ferrous metals

## Working examples: Phoenix Art. 50940  Ø 1.00 mm to 12.70 mm

<table>
<thead>
<tr>
<th>Tool description</th>
<th>Catalog article</th>
<th>Diameter (mm)</th>
<th>Hole depth (mm)</th>
<th>Material group</th>
<th>Material number</th>
<th>Machine type</th>
<th>Coolant</th>
<th>vc (m/min)</th>
<th>f (mm/rev)</th>
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<tbody>
<tr>
<td>Coating</td>
<td>Futura Nano Top</td>
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