









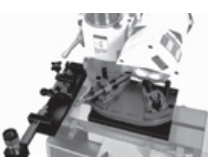

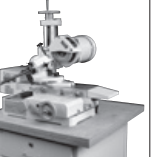


## Special tools

Drilling	<p><b>PCD tipped single flute/twin flute gundrills and form boring tools are also available.</b></p> 		<p><b>Step and form boring tools with indexable inserts.</b></p> 		<p><b>Type 158-00</b> Solid carbide twist drill (high performance twist drill) 4 margins / coolant fed</p> <p>diameter range: 3.000 - 14.000 mm</p> 	<p><b>Type 158-01</b> Solid carbide twist drill 2 margins / coolant fed (available on request)</p> <p>diameter range 3.000 - 14.000 mm</p> 
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Milling	<p><b>Type B200</b> Solid carbide drill DIN 1897 3-fluted 30° helix 140° drill point</p> <p>Ø 3.000 - 20.000 mm</p> 	<p><b>Type B300</b> Tap size end mill solid carbide DIN 8378 3-fluted 30° helix 90° countersink</p> <p>Ø 2.500 - 10.200 mm</p> 	<p><b>Type F005-01</b> Insert pocket end mill solid carbide 3-fluted</p> <p>Ø 1.800 - 25.000 mm</p> 	<p><b>Type F244...F251</b> Ball nose end mill solid carbide DIN 6527 + botek standard 2-fluted</p> <p>Ø 3.000 - 20.000 mm (25.000 mm)</p> 	<p><b>Type F341...F347</b> Ball nose end mill solid carbide DIN 6527 + botek standard 3-fluted 30° helix</p> <p>Ø 3.000 - 20.000 mm</p> 	<p><b>Type F440...F445</b> Ball nose end mill solid carbide DIN 6527 + botek standard 4-fluted</p> <p>Ø 3.000 - 20.000 mm (25.000 mm)</p> 	<p><b>Non standards also available. Please contact your botek representative.</b></p>
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Reaming	<p><b>Type 140</b> 4 cutting edge counterboring tool with solid carbide tip</p> <p>diameter range: 6.000 - 40.000 mm</p> 	<p><b>Type 160</b> 6 cutting edges counterboring tool with solid carbide tip</p> <p>diameter range: 6.000 - 40.000 mm</p> 	<p><b>Special tools on request.</b></p>
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## Regrinding (single flute gundrills)

<p><b>Type PS</b> Sharpening fixture single flute gundrills can be reground on any good tool grinding machine. drill-range: Ø 0.500 - 6.000 mm</p> 	<p><b>Type ZS</b> Sharpening fixture single flute gundrills can be reground on any good tool grinding machine. drill-range: Ø 2.000 - 50.000 mm</p> 	<p><b>MS 01</b> Bench top grinding machine suitable for our sharpening fixtures.</p> 	<p><b>MS 12-2</b> Multi-station grinding machine for highly efficient grinding of large batches of tools with the same point geometry. The machine is suitable for tool diameters from 1.850 mm to 12.000 mm and tool lengths up to approx. 1000 mm.</p> 	<p><b>MS 12-3</b> Multi-station grinding machine for highly efficient grinding of large batches of tools with the same point geometry. The machine is suitable for tool diameters from 1.850 mm to 12.000 mm and tool lengths up to approx. 1000 mm.</p> 	<p><b>Additional accessories (grinding wheels, tool holders etc.) are also available.</b></p>
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## Axial-Pulsator

**Axial-Pulsator**  
The botek Axial-Pulsator has been developed to maximize the feed rate of straight fluted deep hole drilling tools when drilling steel and long chipping materials.

botek's Axial-Pulsator achieves equal hole making quality (straightness, run out, concentricity and surface finish) as standard deep hole drilling tools with economic performance.



## Coolant pressure gauging-kit

**Coolant pressure gauging-kit**  
Coolant pressure gauging-kit for machining centres on deep hole drilling machines.



## Drill Head Setting Gauge

**Drill Head Setting Gauge**  
Process reliable diameter setting of drill heads.



## Express production line / Stock program

### Express production line

#### Product range:

- Type 110 Single flute gundrills with brazed carbide tip
- Type 120 Twin fluted drills with brazed carbide tip
- Type 113 Single flute gundrills in solid carbide design
- Type 01 Single flute gundrills with indexable inserts and guide pads

#### Contact:

Andreas Lehmann (Lehmann@botek.de; F: +49 7123 3808-192)

#### Stock program:

- Type 110 Single flute gundrills with brazed carbide tip
- Type 113 Single flute gundrills in solid carbide design
- Type 113-HP Single flute gundrills in solid carbide high performance design
- Type 01 Single flute gundrills with indexable inserts and guide pads

More information regarding our stock program please see our new homepage, [www.botek.de](http://www.botek.de).

## Service

### Customer trials

- in our research and development department:
- tool development specifically tailored to suit your application
  - supportive when introducing the latest technology
  - solving processing problems

**Process layout:** You submit us your drilling application and we will develop the whole process from engineering to finding the perfect tooling solution.

**Process optimization:** Our team of Application Engineers analyse and improve your process in your facility and coordinate all technical details.

Reduced manufacturing costs by:

- optimised cutting values
- improved tool life
- shortenend auxiliary process time
- maximized process capacity.

The botek trial department assists you in all stages of the process with:

- Feasibility tests
- Optimization
- Instruction and training for your technicians

### Regrinding:

botek offers prompt and cost effective in house regrinding service.

### Coating:

botek offers prompt and cost effective in house coating service.

You can download our catalogues on our homepage [www.botek.de](http://www.botek.de)

- Please see our application notes, [www.botek.de](http://www.botek.de)
  - Our General Standard Terms and Conditions, which we assume as known, apply.
  - We reserve the right to make modifications in the interests of technical improvement. Such modifications cannot, in principle, be accepted as justifiable grounds for complaint.
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DEEP HOLE DRILLING SYSTEMS  
SOLID CARBIDE TOOLS

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