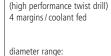
### Special tools

PCD tipped single flute/twin flute gundrills and form boring tools are also available.

### Step and form boring tools with indexable inserts.



Solid carbide twist drill

Type 158-00

Solid carbide twist drill 2 margins / coolant fed (available on request)

Ball nose end mill

+ botek standard

solid carbide

DIN 6527

4-fluted

3 000 - 14 000 mm

diameter range 3 000 - 14 000 mm

Type 158-01



Rall nose end mill

+ botek standard

Ø 2.500 - 10.200 mm | Ø 1.800 - 25.000 mm | Ø 3.000 - 20.000 mm | Ø 3.000 - 20.000 mm | Ø 3.000 - 20.000 mm

solid carbide

DIN 6527

2-fluted

F244...F251 F341...F347 F440...F445

+ botek standard

solid carbide

DIN 6527

30° helix

Ball nose end mill





# **B200**

Solid carbide drill DIN 1897 3-fluted 30° helix 140° drill point

Ø 3.000 - 20.000 mm



counterboring too with solid carbide tin

diameter range: 6 000 - 40 000 mm



## **Type 160**

F005-01

solid carbide

3-fluted

B300

Tap size end mill

solid carbide

90° countersink

DIN 8378

3-fluted

30° helix



6 cutting edges counterboring tool with solid carbide tip

diameter range: 6.000 - 40.000 mm

Special tools on request.

holders etc.)

Please contact your

botek representative.

### Regrinding (single flute gundrills)

Type ZS

### Type PS

Sharpening fixture single flute gundrills can be reground on any good tool grinding machine. Ø 0.500 - 6.000 mm

### Sharpening fixture single flute gundrills can be reground on any good tool grinding machine.



MS 01

# Bench top grinding

# machine suitable for our







MS 12-2



### MS 12-3

Multi-station grinding machine

for highly efficient grinding of large accessories 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

Multi-station grinding machine



### **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 for machining centres on deep hole drilling machines.



### Coolant pressure gauging-kit 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

Single flute gundrills in solid carbide design - Type 113 - 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

Single flute gundrills in solid carbide design

- Type 113-HP Single flute gundrills in solid carbide design

Single flute gundrills with indexable inserts and guide pads

More information regarding our stock program please see our new homepage, www.botek.de.

### Service

**Customer testing** 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 is our goal.

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

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

botek offers prompt and cost effective in house regrinding service.

botek offers prompt and cost effective in house coating service.

### You can download our catalogues on our homepage www.botek.de

- Please see our application notes, 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.
- Subject to change. The manufacturer accepts no responsibility for misprints and other errors.

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# botek

DEEP HOLE DRILLING SYSTEMS SOLID CARBIDE TOOLS

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Tools for drilling system BTA are not recommended for use on machining centres

Single flute and twin fluted gundrills are highly suitable for drilling on modern CNC machining centres.

Tools for drilling system Ejector are highly suitable for drilling on modern CNC machining centres.