

# INNOVATION



Twin fluted drills Type 03  
Dia. 10.00 - 22.49 mm

## botek Type 03

an innovative concept for exchanging inserts and guide pads of twin fluted drills

An addition to single flute drill concepts

### Advantages:

- Exchangeable guide pads allow for a minimal drill hole deviation similar to single-edged tool concepts.
- Process reliable drilling across cross holes.
- Combines the process reliability of single flute drills optimally with the advantages of a twin fluted tool.
- Flexible tool concept regarding the cutting edge geometry.
- Various wear protection layers possible, edges are always fully coated.
- Economic cutting process of materials containing chrome, also with water soluble cooling lubricants.
- No regrinding necessary, therefore reduced WIP inventory.
- User-friendly concept by changeable wear parts.
- Inserts are ground on diameter.
- Drill diameter range 10.00-22.49 mm.



Various coatings for the inserts to match the specific application

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## botek Type 03 – the advantages

- High quality
- High productivity
- Easy exchange system
- Cost effective
- Diameter 10.00-22.49 mm
- Large drilling depths possible

### Application for drilling depth > 7 x Dia.

(Factory picture: botek Präzisionsbohrtechnik GmbH, Riederich)

#### Application example mould production

Material	40CrMnNiMo8-6-4/1.2738
Strength	1100 N/mm <sup>2</sup>
Application	Mould production
Type of tool	Type 03
Drill-ø	15 mm
Drilling depth	500 mm
Cutting speed $V_c$	70 m/min
Feed $f$	0.20 mm
Coolant	Emulsion

#### Initial situation:

- Problems when passing cross holes
- Long chips
- Very long machine operating time

#### Solution:

Twin fluted tool Type 03  
with exchangeable inserts and guide pads

#### Result:

- Short and compact chips
- Passing cross holes very possible
- Feed rate significantly higher

Further information: [www.botek.de](http://www.botek.de)

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