

Product line botek

New:
- Type 43 B/A/F/E
from Ø 60.00 mm
- Tool logistics system
„ToolBox“



Express production line/Stock program

Express production line:

specialized in manufacturing **certain tools quickly**.

Product range:

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

You can order by fax: +49 7123 3808-192 or E-Mail (lehmann@botek.de)

Stock program:

- **Worldwide first stock program for gundrills** with indexable inserts and guide pads Type 01
- **Single flute gundrills** Type 110 with brazed carbide tip – **extended size range**
- **Single flute gundrills** Type 113 in solid carbide design

More information regarding the Express order line and our stock program please see our new homepage, www.botek.de

New – Tool logistics system ToolBox

With the IT-supported tool logistics system by botek tools can be stored and managed optimally.

It provides large storage capacity on a small floor area (per drawer up to 113 secure compartments).



Service

- **Coating:** botek has its own coating facility. Depending on the processed material, coolant and drilling conditions, we offer the matching coating to suit your application.
- **Regrinding:** We offer a prompt and cost effective in house regrinding service.
- **Process layout/process optimization:** Deep and precise drilling with high process reliability – we support you.
- **Test department:** We recreate your application and develop tailored tooling solutions that perfectly match your process conditions.

- 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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Special tools

Drilling

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



Step and form boring tools with indexable inserts.



Type 158-00
Solid carbide twist drill
(high performance twist drill)
4 margins / coolant fed

diameter range:
3.000 - 14.000 mm



Type 158-01
Solid carbide twist drill
2 margins / coolant fed
(available on request)

diameter range
3.000 - 14.000 mm



Milling

Type B200

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

Ø 3.000 - 20.000 mm



Type B300

Tap size end mill
solid carbide
DIN 8378
3-fluted
30° helix
90° countersink

Ø 2.500 - 10.200 mm



Type F005-01

Insert pocket end mill
solid carbide
3-fluted

Ø 1.800 - 25.000 mm



Type F244...F251

Ball nose end mill
solid carbide
DIN 6527
+ botek standard
2-fluted

Ø 3.000 - 20.000 mm
(25.000 mm)



Type F341...F347

Ball nose end mill
solid carbide
DIN 6527
+ botek standard
3-fluted
30° helix

Ø 3.000 - 20.000 mm



Type F440...F445

Ball nose end mill
solid carbide
DIN 6527
+ botek standard
4-fluted

Ø 3.000 - 20.000 mm
(25.000 mm)



Non standards also available.
Please contact your botek representative.

Reaming

Type 140

4 cutting edge counterboring tool
with solid carbide tip

diameter range:
6.000 - 40.000 mm



Type 160

6 cutting edges counterboring tool
with solid carbide tip

diameter range:
6.000 - 40.000 mm

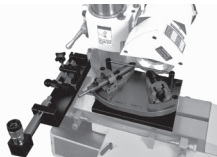


Special tools on request.

Regrinding (single flute gundrills)

Type PS

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



Type ZS

Sharpening fixture
single flute gundrills can be reground on any good tool grinding machine.
drill-range:
Ø 2.000 - 50.000 mm



MS 01

Bench top grinding machine
suitable for our sharpening fixtures.



MS 12-2

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.



MS 12-3

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.



Additional accessories (grinding wheels, tool holders etc.) are also available.

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.



Single flute gundrills							Twin fluted drills			System BTA								System Ejector																
Solid drilling tools	Type 113 Solid carbide gundrill kidney-shaped coolant channel diameter range: 0.500-12.000 mm 	Type 113-01 Solid carbide stepped drill kidney-shaped coolant channel diameter range: 1.500-... mm 	Type 113-HP Solid carbide gundrill New: High performance tool design alternative to carbide twist drills diameter range: 0.700 - 12.000 mm 	Type 113-HP-M Solid carbide gundrill New: High performance tool design for the usage with MQL diameter range: 2.000 - 12.000 mm 	Type 110 Single flute gundrill with brazed solid carbide tip kidney-shaped coolant channel 1 coolant hole diameter range 1.850 - 7.059 mm 2 coolant holes diameter range 7.060 - 51.200 mm 	Type 111 Single flute gundrill drill head made of a steel body with inserted carbide cutting blade and bearing pads 1 coolant hole diameter range 5.800 - 40.009 mm 2 coolant holes diameter range 40.010 - 60.009 mm 	Type 112 Single flute stepped gundrill with solid carbide tip (to produce precise stepped holes in one operation) Kidney-shaped coolant channel or 2 coolant holes depending on tool diameter diameter range: 2.000 - 51.200 mm 	Type 120 Twin fluted drills with solid carbide head diameter range: 6.000 - 26.500 mm 	Type 122 Twin fluted stepped solid drilling tool with solid carbide head diameter range: 4.510 - 26.500 mm 	Type 123 Solid carbide 2-fluted drill coolant fed double margin diameter range: 2.800 - 32.000 mm 	Type 17 Solid drill head regrindable, brazed carbide blade and guide pads, head to be brazed onto drill tube drilling range: 7.76 - 15.50 mm 	Type 18 Solid drill head regrindable, brazed carbide blade and guide pads, 1-start connection thread external drilling range: 12.21 - 15.50 mm 	Type 20 Solid drill head regrindable, brazed carbide blade and guide pads drilling range: 14.51 - 36.99 mm 	Type 11 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 14.55 - 36.99 mm 	Type 70B Solid drill head with indexable inserts and guide pads, diameter will be manufactured as per order drilling range: 25.00 - 64.99 mm 	Type 12 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 28.50 - 74.99 mm 	Type 22 Solid drill head with indexable inserts and guide pads drilling range: 75.00 - 149.99 mm 	Type 15 Solid drill head brazed type, disposable drilling range: 18.40 - 65.00 mm 	Type 60 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 18.40 - 36.20 mm 	Type 70E Solid drill head with indexable inserts and guide pads, diameter will be manufactured as per order drilling range: 25.00 - 64.99 mm 	Type 113 / 110 / 112 also available cutting edge with PCD (from Ø 4.0 mm) 													
	Type 01 Deep hole drilling tool with indexable inserts and guide pads, setting of drill diameter by stop plate diameter range: 12.000 - 43.99 mm 		Type 07 Deep hole drilling tool with indexable inserts and guide pads, diameter will be manufactured as per order, larger dia. on request diameter range: 25.00 - 50.99 mm 		Type 02 Deep hole drilling tool with indexable inserts and guide pads, setting of drill diameter by stop plate, larger dia. on request diameter range: 37.00 - 100.00 mm 		Type 07A Deep hole drilling tool with indexable inserts and guide pads, diameter will be manufactured as per order drilling-range: 51.00 - 113.99 mm 	Type 123-01 Solid carbide 2-fluted drill for taps, coolant fed, step angle 90° diameter range: 2.800 - 32.000 mm 		Type 123-02 Solid carbide 2-fluted step drill for taps, coolant fed, step angle 180° diameter range: 2.800 - 32.000 mm 		Type 14 Solid drill head brazed type, disposable drilling range: 15.61 - 65.00 mm 		Type 61 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 15.65 - 36.20 mm 		Type 70A Solid drill head with indexable inserts and guide pads, diameter will be manufactured as per order drilling range: 25.00 - 64.99 mm 		Type 64 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 28.71 - 74.99 mm 		Type 42 Solid drill head with indexable inserts and guide pads drilling range: 75.00 - 149.99 mm 		Type 43B/A/F Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 60.00 - 350.00 mm 		Type 62 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 28.71 - 74.99 mm 		Type 42 Solid drill head with indexable inserts and guide pads drilling range: 75.00 - 149.99 mm 		Type 43E Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate drilling range: 60.00 - 188.99 mm 		Type 120/ 123 also available cutting edge with PCD 				
Counterboring tools	Type 113-02 Single flute counterboring tool solid carbide diameter range: 0.500 - 10.000 mm 		Type 115 Single flute counterboring tool with solid carbide tip, chips forward (round tube) diameter range: 2.000 - 51.200 mm 		Type 115-01 Single flute stepped counterboring tool with solid carbide tip diameter range: 2.000 - 51.200 mm 		Type 115-03 Single flute counterboring tool with guiding pilot with solid carbide tip diameter range: 4.000 - 12.000 mm 		Type 115-04 Single flute counterboring tool with guiding pilot steel body with inserted carbide cutting blade and bearing pads diameter range: 12.001 - 60.006 mm 		Type 125 Twin fluted counterboring tool with solid carbide head diameter range: 4.000 - 40.000 mm 		Type 125-03 Twin fluted counterboring tool with guiding pilot with solid carbide tip and steel shank diameter range: 6.000 - 40.000 mm 		Type 138/A Counterboring head 1-start or 4-start connection thread, without add. fibre guide pads for boring depth up to 30 x dia. drilling range Type 138: 28.50 - 74.99 mm drilling range Type 13A: 28.71 - 74.99 mm 		Type 34/Type 54 Counterboring head 1-start or 4-start connection thread drilling range Type 34: 44.00 - 401.99 mm drilling range Type 54: 47.00 - 401.99 mm 		Type 35B/A/F Counterboring head 1-start or 4-start connection thread or flange mounting, large adjustment range drilling range: 61.00 - 500.00 mm 		Type 36/Type 56 Counterboring head multi-cutter 1-start or 4-start connection thread drilling range: 34.00 - 159.99 mm 		Type 33B/A/F Counterboring head multi-cutter 1-start or 4-start connection thread or flange mounting, large adjustment range drilling range: 160.00 - 500.00 mm 		Type 38 Pull boring head 1-start connection thread internal drilling range: 20.00 - 222.99 mm 		Type 58 Pull boring head 4-start connection thread external drilling range: 20.00 - 222.99 mm 		Type 13E Counterboring head 4-start connection thread external, setting of drill diameter by stop plate drilling range: 28.71 - 74.99 mm 		Type 35E Counterboring head 4-start connection thread external, large adjustment range drilling range: 61.00 - 198.99 mm 		without add. fibre guide pads for boring depth up to 30 x dia. 	
	Type 114 Trepanning gundrill carbide tip for producing annular drill holes diameter range: 11.000 - 50.000 mm 				Type 08 Trepanning tool diameter range 25.000 - 100.000 mm 		Type 09 Core Cutter diameter range 30.000 - 70.000 mm 				Type 28 Trepanning head 1-start connection thread internal drilling range: 55.00 - 197.99 mm 		Type 48 Trepanning head 4-start connection thread external drilling range: 55.00 - 197.99 mm flange mounting drilling range: 198.00 - 412.99 mm 		Core cutter for cores up to Ø 60.00 mm 																			
Accessories	Rotating coolant connector for deep hole drilling tools with internal coolant supply diameter range: 12.000 - 115.000 mm 3.000 - 25.000 mm 		Clamping cone 170-02 		Drill bush holder 170-03 		Drill bushings 170-04 according to DIN 179 extended, made of steel, hardened throughout 		Whipguide bushings with and without hole or formed type 		Sealing disc 170-07 		Type 25 Drill tube with 1-start connection thread external 		Type 45 Drill tube with 4-start connection thread internal 		Drill tube drivers (split style) 		Drill tube drivers (collet style) 		Vibration dampers 		Type 55 Drill tube (outer tube) with 4-start connection thread internal 		Type 55 Inner tube for all types of coolant connectors 									
	Type 153-02 Solid carbide pilot drill not coolant fed/point angle 140° 3 x D (drill flute length) diameter range: 1.000 - 26.000 mm 		Type 153-03 Solid carbide pilot drill coolant fed/point angle 140° 5 x D (drill flute length) diameter range: 3.000 - 26.000 mm 		Type 158-07 Solid carbide pilot drill not coolant fed/point angle 160° 3 x D (drill flute length) diameter range: 3.000 - 14.000 mm 		Type 158-08 Solid carbide pilot drill coolant fed/point angle 160° 5 x D (drill flute length) diameter range: 3.000 - 14.000 mm 		Single flute and twin fluted gundrills are highly suitable for drilling on modern CNC machining centres. 		Pressure heads (BOZA) for rotating and non-rotating workpieces with clamping cones or face sealing 				Drill tube adaptor 		Drill tube adaptor 		Drill tube adaptor 		<ul style="list-style-type: none">- Drill bushings- Wear pieces for drill tubes- Guide pieces- Drill head setting gauges- Grinding arbors		Rotating connector 		Non-rotating connector 									