



Express Production Line – Delivery within 24 h

(if all components are in stock or by arrangement)

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 High performance tool design alternative to carbide twist drills

diameter range: 0.700 - 12.000 mm



Type 113-HP-M

Solid carbide gundrill 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

1 coolant hole kidney-shaped coolant channel diameter range 1.850 - 7.059 mm

2 coolant holes diameter range 7.060 - 51.200 mm



Type 113/110/112 also available with PCD cutting edge (from Ø 4.0 mm)

Type 01

Deep hole drilling tool

with indexable inserts and guide pads, setting of drill diameter by stop plate

drilling range: 9.90 - 43.99 mm



Type 07

Deep hole drilling tool

with indexable inserts and guide pads, diameter will be manufactured as per order

drilling 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

drilling range: 37.00 - 74.99 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 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 114

Trepanning gundrill

carbide tip for producing annular drill holes

outer diameter range: 11.000 - 50.000 mm



Rotating coolant connector

for deep hole drilling tools with internal coolant supply

diameter range: 9.900 - 115.000 mm 2.500 - 25.000 mm



Clamping cone 170-02



Drill bush holder 170-03



Type 153-02

Solid carbide pilot drill

not coolant fed / point angle 140° 3 x D (drill flute length)

diameter range: 0.800 - 26.000 mm



Type 153-03

Solid carbide pilot drill

coolant fed /
point angle140°
3 x D (drill flute length)
5 x D on request

diameter range: 2.000 - 26.000 mm



Type 158-07

Solid carbide pilot drill

not coolant fed/ point angle 145° 3 x D (drill flute length)

diameter range: 3.000 - 14.000 mm



Type 158-08

Solid carbide pilot drill

coolant fed / point angle 145° 3 x D (drill flute length) 5 x D on request

diameter range: 3.000 - 14.000 mm



Single flute gundrills / Twin fluted drills

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

diameter range: 2.000 - 51.200 mm



Type 120

Twin fluted drills

with solid carbide head, larger dia. on request

diameter range: 6.000 - 43.009 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 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 120/123 also available cutting edge with PCD

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 08

Trepanning tool

drilling range: 25.00 - 100.00 mm



Type 09

Core Cutter

drilling range: 37.00 - 70.00 mm



Sealing disc 170-07



Drill bushings 170-04

according to DIN 179 A extended, made of steel, hardened throughout. Special design on request.



Whipquide bushings

with and without hole or



PCD tipped Single flute / Twin flute gundrills and form boring tools are also available.



diameter range: 3.000 - 20.000 mm



Type B300

Tap size end mill

solid carbide, DIN 8378, 3-fluted 30° helix, 90° countersink

diameter range: 2.500 - 10.200 mm



Type B301

Tap size end mill

solid carbide, DIN 8378, 3-fluted 30° helix, 180° countersink

diameter range: 0.700 - 32.000 mm



Type 158-00

Solid carbide twist drill

(high performance twist drill) 4 margins / coolant fed Point angle 140°

diameter range: 3.000 - 14.000 mm



Type 158-01

Solid carbide twist drill

2 margins / coolant fed (available on request) Point angle 140°

diameter range: 3.000 - 14.000 mm



Type P300

Insert pocket and end mill

solid carbide, 3-fluted

diameter range: 0.800 - 32.000 mm



Type F244...F251

Ball nose end mill

solid carbide, DIN 6527 + botek standard, 2-fluted

diameter range: 1.500 - 32.000 mm



Type F341...F347

Ball nose end mill

solid carbide, DIN 6527 + botek standard, 3-fluted 30° helix

diameter range: 1.500 - 32.000 mm



Type F440...F445

Ball nose end mill

solid carbide, DIN 6527

+ botek standard 4-fluted

diameter range: 1.500 - 32.000 mm



Type F20

Solid carbide cutter DIN 6527 +

botek standard 2-fluted

diameter range: 1.500 - 32.000 mm

Type F30

Solid carbide cutter DIN 6527 +

botek standard 3-fluted

diameter range: 1.500 - 32.000 mm

Type F40

Solid carbide cutter

DIN 6527 + botek standard 4-fluted

diameter range: 1.500 - 32.000 mm

F005-01

Insert pocket and end mill

solid carbide, 3-fluted

diameter range: 1.800 - 25.000 mm



Non standards also available.

Please contact your botek representative.

Technical hotline: Single flute gundrills / Twin fluted drills P: +49 7123 3808-300

Type 140

4 cutting edges 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.

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



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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

setting of drill diameter by stop plate

drilling range: 14.55 - 36.99 mm



Type 70B

Solid drill head

diameter will be manufactured as per order

drilling range: 25.00 - 65.00 mm



Type 12

Solid drill head

setting of drill diameter by stop plate

drilling range: 28.50 - 74.99 mm



1-start connection thread internal

Type 14 Solid drill head

brazed type, disposable

drilling range: 15.60-65.00 mm



Type 61

Solid drill head

setting of drill diameter by stop plate

drilling range: 15.65 - 36.20 mm



Type 70A

Solid drill head

diameter will be manufactured as per order

drilling range: 25.00 - 65.00 mm



Type 64

Solid drill head setting of drill diameter by stop plate

drilling range: 28.71 - 74.99 mm



Type 43A/B/F

Solid drill head

1-start or 4-start connection thread or flange mounting setting of drill diameter by stop plate

drilling range: 60.00 - 368.99 mm



Type 13A/B

Counterboring head

1-start or 4-start connection thread, for boring depth up to 30 x dia.

drilling range: 28.50 - 74.99 mm



Type 34 / Type 54

Counterboring head

1-start or 4-start connection thread or flange mounting

drilling range: 44.00 - 353.99 mm



Type 35A/B/F

Counterboring head

1-start or 4-start connection thread or flange mounting, large adjustment range

4-start connection thread external

drilling range: 61.00 - 498.99 mm



Type 36/Type 56

Counterboring head multi-cutter

1-start or 4-start connection thread or flange mounting

drilling range: 60.00 - 250.00 mm



Type 33A/B/F

Counterboring head multi-cutter

1-start or 4-start connection thread or flange mounting, large adjustment range drilling range: 159.00 - 498.99 mm



Type 38 / Type 58

Pull boring head

1-start or 4-start connection thread

drilling range: 20.00 - 222.99 mm



with add. fibre guide pads for boring depth up to 100 x dia.

Type 28 / Type 48

Trepanning head

1-start or 4-start connection thread or flange mounting

drilling range: 55.00-412.99 mm



Type 29 / Type 49

Core cutter for cores up to max. Ø 60.00 mm 1-start or 4-start connection thread



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



Pressure heads (BOZA)

for rotating and non-rotating workpieces with clamping cones or face sealing





Drill tube adaptor



- Drill bushings
- Wear pieces for drill tubes
- Guide pieces - Drill head setting gauges
- Grinding arbors

Tools for Drilling System BTA are **not** recommended for the use on machining centres.

Type 15

Solid drill head brazed type, disposable

drilling range: 18.40 - 65.00 mm



Type 60

Solid drill head

setting of drill diameter by stop plate

drilling range: 18.40-36.20 mm



4-start connection thread external

Type 70E

Solid drill head

diameter will be manufactured as per order

drilling range: 25.00 - 65.00 mm



Type 62

Solid drill head

setting of drill diameter by stop plate

drilling range: 28.71 - 74.99 mm



Type 43E

Solid drill head

setting of drill diameter by stop plate

drilling range: 60.00 - 188.99 mm



4-start connection thread external

Type 13E

Counterboring head

setting of drill diameter by stop plate

drilling range: 28.71 - 74.99 mm



Type 35E

Counterboring head

large adjustment range

drilling range: 61.00 - 198.99 mm



4-start connection thread external

Type 55

Drill tube (outer tube)

with 4-start connection thread internal



Type 55

Inner tube

for all types of coolant connectors



Rotating connector



Non-rotating connector



- Drill bushings Guide pieces
- Vibration dampers
- Drill head setting gauges
- Grinding arbors

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

oressure gauging-kit / Drill Head Setting

Turnkey-Projects / Regrinding (Single flute gundrills) Axial-Pulsator / Coolant pressure gauging-kit / Drill Head Setting Gauge Step and form boring tools

Step and form boring tools with indexable inserts.



Whether individual bores or the complete machining of an entire component – we show you innovative machining concepts and design the appropriate process including tools in close coordination with you.

Type PS

Sharpening fixture

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

diameter range: Ø 0.500 - 6.000 mm



Type ZS

Sharpening fixture

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

diameter 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.

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.

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

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 and deep hole drilling machines.



Drill Head Setting Gauge

Process reliable diameter setting of drill heads.



Express production line / Stock program / Service

Express production line: The product range contains the following tools:

Single flute gundrills: Type 110/112/113/115/01/07
 Twin fluted drills: Type 120/122/123/123-01
 Twist drills: Type 158-00/158-01

Special tools: Type B200/B300/B301/P300/F24/F34/F44/F20/F30/F40
 Pilot drills: Type 153-02/153-03/158-07/158-08/154-02/154-03

Contact: Stephan Falk (e-Mail: Eilfertigung@botek.de, T: +49 7123 3808-121)

Stock program:

- Single flute gundrills: Type 110/113/113-HP/01

BTA / Ejector: Type 70A / 70ETwist drills: Type 158

- Pilot drills: Type 153-02 / 153-03 / 158-08

For more information regarding our stock and express program please refer to our online-shop on www.botek.de

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.

Technical hotline: Drill heads with exchangeable inserts, **P: +49 7123 3808-200**

Single flute gundrills / Twin fluted drills, Carbide twist drills, Solid carbide drills, Milling tools, Reamers, P: +49 7123 3808-300

You can download our catalogues on our website www.botek.de

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 Such modifications cannot, in principle, be accepted as justifiable grounds for complaint.
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DEEP HOLE DRILLING SYSTEMS SOLID CARBIDE TOOLS

botek Präzisionsbohrtechnik GmbH

Längenfeldstraße 4 72585 Riederich · GERMANY

P +49 7123 3808-0 **E-Mail** Info @ botek.de **www**.botek.de