



Express Production Line – Delivery within 24 h

(if all components are in stock or by arrangement)

botek Assistant





Google Play

App Store

Type 113

Solid carbide gundrill

kidney-shaped coolant channel

diameter range: 0.0197-0.4724" [0.500 - 12.000 mm]



Type 113-01

Solid carbide stepped drill

kidney-shaped coolant channel

diameter range: 0.0591- ... [1.500 - ... mm]



Type 113-HP

Solid carbide gundrill **High performance** tool design alternative to carbide twist drills

diameter range: 0.0276 - 0.4724" [0.700 - 12.000 mm]



Type 113-HP-M

Solid carbide gundrill High performance tool design for the usage with MQL

diameter range: 0.0787 - 0.4724" [2.000 - 12.000 mm]



Type 110

Single flute gundrill with

brazed solid carbide tip 1 coolant hole kidney-shaped coolant channel

diameter range 0.0728 - 0.2779" [1.850 - 7.059 mm]

2 coolant holes

diameter range 0.2780 - 2.0157" [7.060 - 51.200 mm]



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

Type 01T

Deep hole drilling tool

with indexable insert and guide pads, with adjustment range

diameter range: 0.4724-0.7082 [12.00 - 17.99 mm]



Type 01

Deep hole drilling tool

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

drilling range: 0.7086-1.7319" [18.00 - 43.99 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: 1.4567-2.9524" [37.00 - 74.99 mm] 2.9527-4.3303" [75.00 - 109.99 mm]



Type 07

Deep hole drilling tool with indexable inserts and

guide pads, diameter will be manufactured as per order

drilling range: 0.9842-2.0075" [25.00 - 50.99 mm]



Type 07A

Deep hole drilling tool

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

drilling range: 2.0079 - 4.4878" [51.00 - 113.99 mm]



Type 113-02

Single flute counterboring tool solid carbide

diameter range: 0.0197-0.4724" [0.500 - 12.000 mm]



Type 115

Single flute counterboring tool

with solid carbide tip, chips forward

diameter range: 0.0728-2.0157" [1.850-51.200 mm]



Type 115-01

Single flute stepped counterboring tool with solid carbide tip

diameter range: 0.0728-2.0157" [1.850 - 51.200 mm]



Type 115-03

Single flute counterboring tool with guiding pilot

with solid carbide tip

diameter range: 0.0728-2.0157" [1.850 - 51.200 mm]



Type 114

Trepanning gundrill

carbide tip for producing annular drill holes

outer diameter range: 0.4331 - 1.9685" [11.000 - 50.000 mm]



Rotating coolant connector

for deep hole drilling tools with internal coolant supply

diameter range: 0.3898-4.5276 [9.900 - 115.000 mm] 0.0984-0.9843" [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: 0.0315-1.0236" [0.800 - 26.000 mm]

Type 153-03

Solid carbide pilot drill

coolant fed/ point angle 140° 3 x D (drill flute length) 5 x D on request

diameter range: 0.0787 - 1.0236" [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: 0.1181-0.5512" [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: 0.1181-0.5512" [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 diameter range:

diameter range: 0.2283 - 1.2598" [5.800 - 32.000 mm]



Type 112

Single flute stepped gundrill

with solid carbide tip (to produce precise stepped holes in one operation) Kidneyshaped coolant channel or 2 coolant holes depending on tool diameter diameter range: 0.0787 - 2.0157" [2.000 - 51.200 mm]



Type 120

Twin fluted drills

with solid carbide head, larger dia. on request

diameter range: 0.1772 - 1.6933" [4.500 - 43.009 mm]



Type 120-HP

Twin fluted drills

with brazed carbide head High performance tool design

diameter range: 0.1772 - 1.0433" [4.500 - 26.500 mm]



Type 122

Twin fluted stepped solid drilling tool with solid carbide head

diameter range: 0.1772 - 1.6933" [4.500 - 43.009 mm]



Type 123

Solid carbide 2-fluted drill coolant fed double margin

diameter range: 0.1102 - 1.2598" [2.800 - 32.000 mm]



Type 123-01

Solid carbide 2-fluted drill

for taps, coolant fed, step angle 90°

diameter range: 0.0787-1.2598" [2.000-32.000 mm]



Type 123-02

Solid carbide 2-fluted step drill for taps, coolant fed,

step angle 180°

diameter range: 0.0787-1.2598" [2.000-32.000 mm]



Type 123-04

Twin fluted drills solid carbide design for stainless steel

diameter range: 0.2362-0.629921" [6.000-16.000 mm]



Type 123-HP

Twin fluted drills

solid carbide design High performance tool design

diameter range: 0.1102 - 1.2598" [2.800 - 32.000 mm]



Type 115-04

Single flute counterboring tool with guiding pilot steel body with inserted carbide cutting blade and bearing pads

diameter range: 0.4725 - 2.3624" [12.001 - 60.006 mm]



Type 125

Twin fluted counterboring tool

with solid carbide head

diameter range: 0.1575 - 1.5748" [4.000 - 40.000 mm]



Type 125-03

Twin fluted counterboring tool with guiding pilot

with solid carbide tip and steel shank

diameter range: 0.1968-1.5748" [5.000-40.000 mm]



Trepanning tool drilling range:

0.9843 - 3.9370" [25.00 - 100.00 mm]



Type 09

Core Cutter

drilling range: 1.4567 - 2.7559" [37.00 - 70.00 mm]



Drill bushings 170-04

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



Whipguide bushings

with and without hole or



Sealing disc 170-07



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



System BTA

1-start connection

Solid drilling tools

4-start connection / flange mounting

1-start connection



4-start connection / flange mounting





Machining centres

Type 20

drilling range: 0.571-1.456" [14.51 - 36.99 mm] brazed type, disposable



Type 11

drilling range: 0.573 - 1.456" [14.55 - 36.99 mm]



drilling range: 1.122-2.952" [28.50 - 74.99 mm]

Type 12



Type 43B

drilling range: 2.362-5.905" [60.00 - 149.99 mm]



Type 43B

drilling range: 5.866-6.653" [149.00 - 168.99 mm]



Type 14

drilling range: 0.614-2.559" [15.60 - 65.00 mm] brazed type, disposable



Type 61

drilling range: 0.616-1.425" [15.65 - 36.20 mm]



Type 64

drilling range: 1.130-2.952" [28.71 - 74.99 mm]



Type 43A

drilling range: 2.362-5.905" [60.00 - 149.99 mm]



Type 43A/F

drilling range: 43A: 5.866 - 7.834" [43A: 149.00 - 198.99 mm] 43F: 7.835 - 14.527" with flange mounting [43F: 199.00 - 368.99 mm]



Type 13B

drilling range: 1.122 - 2.952" [28.50 - 74.99 mm]



Type 35B

drilling range: 2.402 - 19.645" [61.00 - 498.99 mm]



Type 34

drilling range: 1.732-13.937" [44.00 - 353.99 mm]



Type 38

drilling range: 0.787 - 8.779" [20.00 - 222.99 mm]



Type 13A

drilling range: 1.122 - 2.952" [28.50 - 74.99 mm]



Type 35A

drilling range: 2.402 - 8.819" [61.00 - 223.99 mm]



Type 35F

drilling range: 8.819-19.645"



Type 54

drilling range: 1.850-13.937" [47.00 - 353.99 mm]



Type 58

drilling range: 0.787 - 8.779" [20.00 - 222.99 mm]



Type 99

Drilling ground 90°



Type 99

Cone Cone with or without guide pin



Type 99

Full radius Partial radius



Type 99

Counterboring head multi-cutter Chips forward

drilling range: 2.362-9.843" [60.00 - 250.00 mm]



Type 25

Drill tube with 1-start connection thread external



Type 45

Drill tube with 4-start connection thread internal



Type 45

Drill tube flange mounting from 7.480"



Type 29

Adapter



Type 29 Guide adapter



Type 91

Boza Clamping cone up to 23.622" [up to 600 mm]



Type 91

Boza Face sealing up to 23.622" [up to 600 mm]



Type 91

Drill tube drivers Collet style drilling diameter 0.472 - 2.205"



Type 91

Drill tube drivers Split bush style from 2.441"



Type 91

Vibration dampers for rotating tools drilling diameter 0.472 - 8.898" [12-226 mm]



Detailed information can be found in the catalogue Deep hole drilling tools System BTA

drilling range: 2.559 - 7.441" [65.00 - 188.99 mm]

Type 70B

drilling range: 0.984-2.559" [25.00 - 65.00 mm]



Type 70A

drilling range: 0.984 - 2.559" [25.00 - 65.00 mm]



Type 28

drilling range: 2.165-16.259" [55.00-412.99 mm]



Type 48

drilling range: 2.165-7.795" [55.00 - 197.99 mm] 7.795 - 16.259" [198.00 - 412.99 mm with flange mounting



Type 99

Core cutter up to 2.362" [up to 60.00 mm]



Type 91

Measuring device up to 19.685" [up to 500.00 mm]



Type 91

Vibration dampers for non-rotating tools drilling diameter 5.118-20.236" [130.00-514.00mm]



Type 15

drilling range: 0.724-2.559" [18.40 - 65.00 mm]



Type 60

drilling range: 0.724-1.425" [18.40 - 36.20 mm



Type 70E

drilling range: 0.984 - 2.559" [25.00 - 65.00 mr

Type 62

drilling range: 1.130-2.952" [28.71 - 74.99 mm]



Type 43E

drilling range: 2.362-5.905" [60.00 - 149.99 mm]



Type 43E

drilling range: 5.866-7.441" [149.00 - 188.99 mm]



Type 13E

Type 97

Rotating connector

drilling range: 1.130 - 2.952" [28.71 - 74.99 mm]



Type 35E

drilling range: 2.402-7.834" [61.00 - 198.99 mm]



Type 52

drilling range: 1.850-7.795"



[47.00 - 197.99 mm]



Type 97 Non-rotating connector



Type 97

Connecting sleeve Sealing sleeve



Type 55

with 4-start connection thread internal



Type 55



Type 97

Rotating connector



Type 97

Non-rotating connector



Type 97

Connecting sleeve Sealing sleeve



Type 55

Outer tube with 4-start connection thread internal



Type 55

Inner tube



Type 91

Vibration dampers for rotating tools drilling range 0.709-6.535" [18.00-166.00 mr



Type 91



Type 91

Measuring device up to 19.685" [up to 500 mm

generally

Detailed information can be found in the catalogue Deep hole drilling tools System Ejector

Type B200

Solid carbide drill

DIN 1897, 3-fluted 30° helix, 140° drill point

diameter range: 0.1181-0.7874" [3.000 - 20.000 mm]



Type B300

Tap size end mill

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

diameter range: 0.0984-0.4016" [2.500 - 10.200 mm]



Type B301

Tap size end mill

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

diameter range: 0.0276-1.2598" [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: 0.1181-0.5512" [3.000-14.000 mm]



Type 158-01

Solid carbide twist drill

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

diameter range: 0.1181-0.5512" [3.000-14.000 mm]



Type P300

Insert pocket and end drill

solid carbide, 3-fluted

diameter range: 0.0315-1.2598" [0.800 - 32.000 mm]



Type F244...F251

Ball nose end mill

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

diameter range: 0.0591 - 1.2598" [1.500 - 32.000 mm]



Type F341...F347

Ball nose end mill

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

diameter range: 0.0591-1.2598" [1.500 - 32.000 mm]



Type F440...F445

Ball nose end mill

solid carbide, DIN 6527

- + botek standard 4-fluted

diameter range: 0.0591-1.2598 [1.500 - 32.000 mm]



Type **F20**

Solid carbide cutter DIN 6527

- + botek standard 2-fluted

diameter range: 0.0591 - 1.2598" [1.500 - 32.000 mm]

Type F30

Solid carbide cutter

- DIN 6527 + botek standard
- 3-fluted

diameter range: 0.0591 - 1.2598" [1.500 - 32.000 mm]

Type F40

Solid carbide cutter

- DIN 6527 + botek standard
- 4-fluted

diameter range: 0.0591 - 1.2598' [1.500 - 32.000 mm]

Type F005-01

Insert pocket and end mill

solid carbide, 3-fluted

diameter range: 0.070 - 0.9843* [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: 0.2362 - 1.5748" [6.000 - 40.000 mm]



Type 160

6 cutting edges counterboring tool

with solid carbide tip

diameter range: 0.2362 - 1.5748" [6.000 - 40.000 mm]



Special tools on request.

Turnkey-Projects / Regrinding (Single flute gundrills) Axial-Pulsator / Coolant pressure gauging-kit

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: 0.0197 - 0.2362" [0.500 - 6.000 mm]



Type ZS

Sharpening fixture

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

diameter range Ø: 0.0787 - 1.9685" [2.000 - 50.000 mm]



MS 01

Bench top grinding machine suitable for our sharpening



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 0.0728" [1.850 mm] to 0.4724" [12.000 mm] and tool lengths up to approx. 39.370" [1.000 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 0.0728" [1.850 mm] to 0.4724" [12.000 mm] and tool lengths up to approx. 39.370" [1.000 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.



Coolant pressure gauging-kit machining centres

Coolant pressure gauging-kit for machining centres



Coolant pressure gauging-kit deep hole drilling machine

Coolant pressure gauging-kit for deep hole drilling machines



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/en/online-shop/

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/en/download/

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DEEP HOLE DRILLING SYSTEMS SOLID CARBIDE TOOLS

botek

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