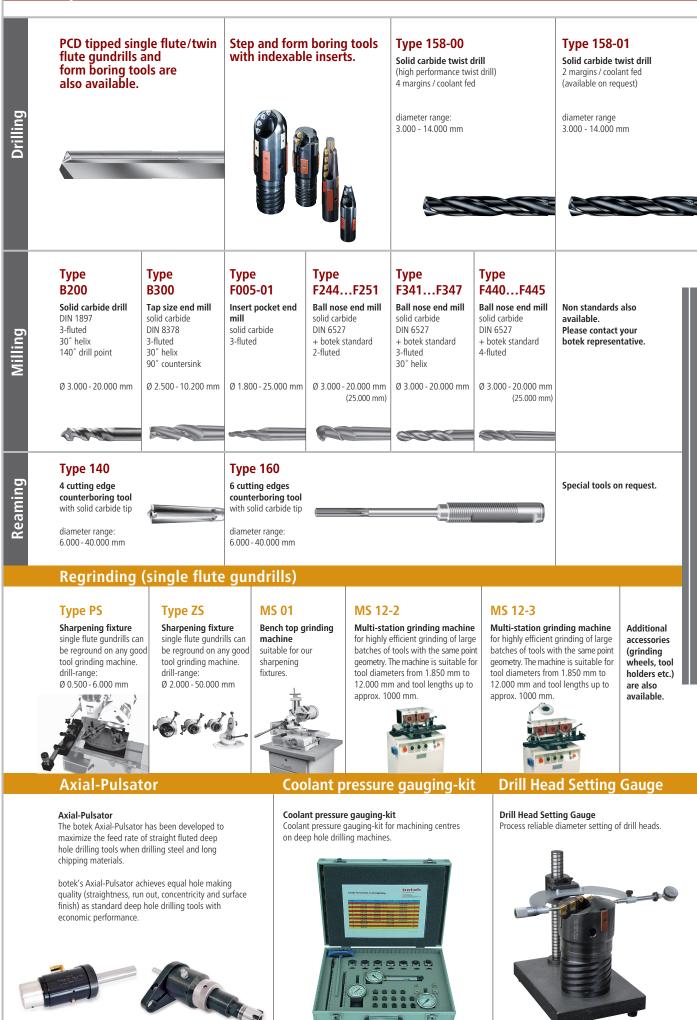
# Special tools



## **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
- Type 113 Single flute gundrills in solid carbide design
- 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
- Type 113-HP Single flute gundrills in solid carbide design
- Type 01 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 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.

### 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.
- © botek Präzisionsbohrtechnik GmbH





DEEP HOLE DRILLING SYSTEMS SOLID CARBIDE TOOLS

botek Präzisionsbohrtechnik GmbH

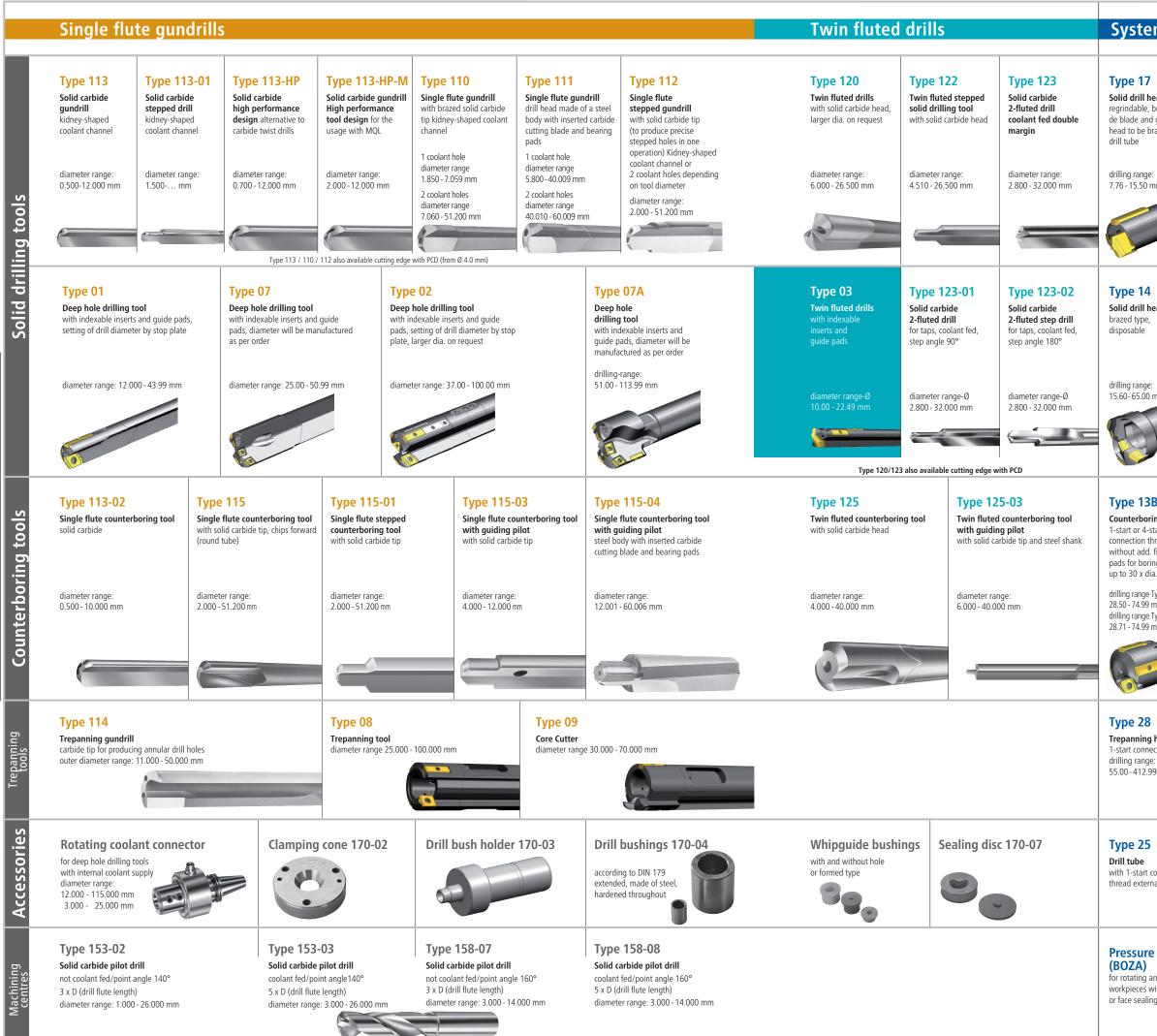
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E-Mail Info@botek.de www.botek.de







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

									1		
tem BTA									System Ejector		
<b>17</b> <b>rill head</b> able, brazed carbi- e and guide pads, be brazed onto e	Type 18 Solid drill head regrindable, brazed carbio blade and guide pads, 1-start connection thread external	blade and guide pads	Type 11 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate	Type 70B Solid drill head with indexable inserts and guide pads, diameter will be manufactured as per order			Type 12 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate		Type 15 Solid drill head brazed type, disposable	Type 60 Solid drill head with indexable inserts guide pads, setting of drill diamete stop plate	guide pads,
ange: 5.50 mm	drilling range: 12.21 - 15.50 mm	drilling range: 14.51 - 36.99 mm	drilling range: 14.55 - 36.99 mm	drilling range: 25.00 - 65.00 mm			drilling range: 28.50 - 74.99 mm		drilling range: 18.40 - 65.00 mm	drilling range: 18.40 - 36.20 mm	drilling range: 25.00 - 65.00 mm
			1-start connection thread internal						4-start connection thread external		ernal
<b>14</b> rill head ype, ble	Type 61 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate	Type 70A Solid drill head with indexable inserts and guide pads, diameter will be manufactured as per order	Type 64 Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate				Type 43B/A/F Solid drill head with indexable inserts and guide pads, setting of drill diameter by stop plate		Type 62Type 43ESolid drill headSolid drill headwith indexable inserts and guide pads, setting of drill diameter by stop plateSolid drill he with indexabl setting of drill		
ange: 5.00 mm	drilling range: 15.65 - 36.20 mm	drilling range: 25.00 - 65.00 mm	drilling range: 28.71 - 74.99 mm				drilling range: 60.00 - 368.99 mm		drilling range: 28.71 - 74.99 mm 60.00 - 188.99		
<b>13B/A</b> <b>rboring head</b> or 4-start ion thread, add. fibre guide boring depth 0 x dia.	Type 34/Type 54 Counterboring head 1-start or 4-start connection thread		4-start connection thread external Type 36/Type 56 Counterboring head multi-cutter 1-start or 4-start connection thread with indexable inserts and guide pads	6/Type 56 oring head ter L-start thread with inserts and brack inserts		Type 38 Pull boring head 1-start connection the internal		Type 58 Pull boring head 4-start connection thread external	4-start connection thread external Type 13E Counterboring head 4-start connection thread external, setting of drill diameter by stop plate Type 35E Counterboring head 4-start connection thread external, large adjustment range		• <b>35E</b> rboring head connection thread
ange Type 13B: 4.99 mm ange Type 13A: 4.99 mm	drilling range Type 34: 44.00-353.99 mm drilling range Type 54: 47.00-353.99 mm	ange Type 34: 53.99 mm 61.00 - 498.99 mm 60.00 - 250.00 mm 159.00 - 498.99 mm ange Type 54:		n	drilling range: 20.00 - 222.99 mm drilling range: 20.00 - 222.99 mm			drilling range: 28.71 - 74.99 mm	drilling 61.00-	range: 198.99 mm	
28 ning head connection thread int range: 112.99 mm	ernal	Type 48 Trepanning he 4-start connecti		n thread external 00 - 197.99 mm drilling range:		Core cutter for cores up to max. Ø 60.00 mm		without ad	l d. fibre guide pads for boring de	pth up to 30 x dia.	
25 e art connection ternal		Type 45 Drill tube with 4-start connection thread internal		Collet style)		Vil		ration dampers	Type 55 Drill tube (outer tube) with 4-start connection thread	Inne	De 55 Fr tube II types of coolant connectors
ure heads A) ng and non-rotating res with clamping cones ealing			Drill		ube adaptor		- Drill bushings - Wear pieces for drill tubes - Guide pieces - Drill head setting gauges - Grinding arbors		Rotating connecto Orill bushings Guide nieres	- Drill head	n-rotating connector
		ols for Drilling System BTA are <b>not</b> recommended for use on machining centres.						Guide pieces Grinding arbors Vibration dampers Tools for Drilling System Ejector are highly suitable for drilling on modern CNC machining centres.			