#### Special tools Туре PCD tipped Step and form boring tools with Туре Type **B200** B300 B301 single flute/ indexable inserts. twin flute gundrills Solid carbide drill Tap size end mill Tap size end mill DIN 1897 solid carbide solid carbide and form boring DIN 8378 3-fluted DIN 8378 tools are also 30° helix 3-fluted 3-fluted Drillin available. 140° drill point 30° helix 30° helix 90° countersink 180° countersink Ø 2.500 - 10.200 mm Ø 0.700 - 32.000 mm Ø 3.000 - 20.000 mm 4 AN A MARK Type F20 Туре Type Туре Τνρ Type P300 F244...F251 F341...F347 F440...F445 Solid carbide cutter F005-01 Non standards DIN 6527 + botek stan Ball nose end mill Ball nose end mill Insert pocket Ball nose end mill Insert pocket also available. 2-fluted and end mill solid carbide solid carbide solid carbide and end mill Please contact Type F30 Milling solid carbide DIN 6527 DIN 6527 DIN 6527 solid carbide your botek 3-fluted + botek standard + botek standard + botek standard 8-fluted 3-fluted representative 2-fluted 4-fluted 3-fluted Type F40 30° helix Ø 0.800 - 32.000 mm Ø 1.500 - 32.000 mm Ø 1.800 - 25.000 mm 1996 100-**Type 140** Type 160 4 cutting edges counterboring tool 6 cutting edges counterboring tool Special tools with solid carbide tip with solid carbide tip on request. diameter range diameter range 6.000 - 40.000 mm 6.000 - 40.000 mm Solid carbide twist drills Type 158-00 Type 158-01 Solid carbide twist drill Solid carbide twist drill (high performance twist drill) 2 margins / coolant fed (available on request) 4 margins / coolant fed Point angle 140° 1000 Point angle 140° diameter range: diameter range: 3.000 - 14.000 mm 3.000 - 14.000 mm Regrinding (single flute gundrills) MS 01 MS 12-2 MS 12-3 Type PS Type ZS Bench top grinding Multi-station grinding machine Sharpening fixture Sharpening fixture Multi-station grinding machine Additional single flute gundrills can single flute gundrills can machine for highly efficient grinding of for highly efficient grinding of accessories be reground on any good be reground on any good suitable for our large batches of tools with the large batches of tools with the (grinding tool grinding machine. tool grinding machine. same point geometry. The same point geometry. The wheels, tool harpening machine is suitable for tool machine is suitable for tool drill-range: holders etc.) drill-range fixtures Ø 0 500 - 6 000 mm Ø 2 000 - 50 000 mm diameters from 1 850 mm to diameters from 1 850 mm to are also 12.000 mm and tool lengths 12,000 mm and tool lengths available. up to approx. 1000 mm. up to approx, 1000 mm. ..... ..... **Axial-Pulsator Coolant pressure gauging-kit** Drill Head Setting Gauge Drill Head Setting Gauge Axial-Pulsator Coolant pressure gauging-kit The botek Axial-Pulsator has been developed to Coolant pressure gauging-kit for machining centres Process reliable diameter setting of drill and deep hole drilling machines. maximize the feed rate of straight fluted deep heads 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 1

#### Express production line / Stock program 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 / 70E - Twist 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 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 website 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.
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# Production Line elivery within 24 h

Entra



SOLID CARBIDE TOOLS

botek Präzisionsbohrtechnik GmbH

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

tem BTA							System Ejector	System Ejector		
e 17 frill head lable, brazed carbi- de and guide pads, b be brazed onto be	Type 18 Solid drill head regrindable, brazed carbide blade and guide pads, 1-start connection thread external	id drill head Solid drill head Solid drill head   indable, brazed carbide regrindable, brazed carbide setting of drill   de and guide pads, art connection thread blade and guide pads diameter by stop plate			Type 12 Solid drill head setting of drill diameter by stop plate	Type 15 Solid drill head   brazed type, disposable Solid drill head   setting of drill diameter by stop plate		Type 70E Solid drill head diameter will be manufactured as per order		
range: 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	
	Contraction of the second		-start connection thread interna				4-start connection thread external		al	
e 14 Irill head type, able	Type 61 Solid drill head setting of drill diameter by stop plate	Type 70A Solid drill head diameter will be manufactured as per order	Type 64 Solid drill head setting of drill diameter by stop plate			Type 43A/B/F Solid drill head 1-start or 4-start connection thread or flange mounting setting of drill diameter by stop plate	Type 62 Solid drill head setting of drill diameter by stop	Type 43E Solid drill head setting of drill diameter by stop plate		
range: 65.00 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:     drilling range:       28.71 - 74.99 mm     60.00 - 188.99 mm		e: 19 mm	
			4-start connection thread extern	al			4-start connection thread external		al	
e <b>13A/B</b> erboring head or 4-start tion thread, ng depth 0 x dia.	Type 34/Type 54 Counterboring head 1-start or 4-start connection thread or flange mounting	Type 35A/B/F Counterboring head 1-start or 4-start connection thread or flange mounting, large adjustment range	Type 36 / Type 56 Counterboring head multi-cutter 1-start or 4-start connection thread or flange mounting	Type 33A/B/F Counterboring head multi-cutter 1-start or 4-start connection thread or flange mounting, large adjustment range		Type 38 / Type 58 Pull boring head 1-start or 4-start connection thread	Type 13E Type 35E   Counterboring head Counterboring head   setting of drill diameter by stop plate large adjustment range		ing head	
range: 74.99 mm	drilling range: 44.00 - 353.99 mm	drilling range: 61.00 - 498.99 mm	drilling range: 60.00 - 250.00 mm	drilling range: 159.00 - 498.99 mm		drilling range: 20.00 - 222.99 mm	drilling range:     drilling range:       28.71 - 74.99 mm     61.00 - 198.99 mm			
•			with add fibre quide pa	pads for boring depth up to 100 x dia.		a sum	4-start connection thread external			
e 28 / Type 48 nning head or 4-start connection range: 412.99 mm	thread or flange mounting			Type 29 / Type Core cutter for cores up to max. 1-start or 4-start connect	<b>49</b> Ø 60.00 mm					
25 De tart connection xternal		Type 45 Drill tube with 4-start connection thread internal Drill tube (split style)		Collet style)		Vibration dampers	Type 55 Drill tube (outer tube) with 4-start connection thread	internal Type Inner tu for all typ		
sure heads (A) ting and non-rotating eces with clamping co sealing	ines			Drill tube ad	aptor	- Drill bushings - Wear pieces for drill tubes - Guide pieces - Drill head setting gauges - Grinding arbors	Rotating connector   Non-rotating     • Drill bushings   • Drill head setting gauges     • Guide pieces   • Grinding arbors			
	Tools	for Drilling System BTA are <b>not</b> recomm	mended for the use on machining ce	intres.			- Vibration dampers	r are highly suitable for drilling on r		