INNOVATION



High Performance Inserts
High Productivity and Wide Range of Application
New Chip Breaker **SP91**



Advantages:

- **Higher feedrate** and **higher cutting speed** compared to chip breakers SP1 and SP2
- Up to **400 % higher productivity** and more compared to conventional gundrills
- Higher lifetime per insert together with improved process reliability
- Positive chip breaker for good chip control also with long chipping steels
- Application for material groups ISO P and ISO M
- Available in **standard grades K30BX** (Ø 12.00 17.99 mm) and **P25BX** (Ø 18.00 43.99 mm)











Sample applications:

Material:	40CrMnNiMo8-6-4/1.2738	Material:	C60E/1.1221	Material:	X17CrNi16-2/1.4057
Strength:	1100 N/mm ²	Strength:	900 N/mm ²	Strength:	950 N/mm ²
Application:	Mold production	Application:	Automotive	Application:	Special machine
Type of tool:	Type 01 (Gundrill)	Type of tool:	Type 11 (BTA)	Type of tool:	Type 01 (Gundrill)
Drill-Ø:	15 mm	Drill-Ø:	23 mm	Drill-Ø:	13.5 mm
Drilling depth:	1100 mm	Drilling depth:	300 mm	Drilling depth:	260 mm
Cutting speed v _c :	60 m/min	Cutting speed v _c :	80 m/min	Cutting speed v _c :	90 m/min
Feed f:	0.11 mm/rev	Feed f:	0.12 mm/rev	Feed f:	0.125 mm/rev
Coolant:	Water soluble / Emulsion	Coolant:	Oil	Coolant:	Oil
40 f 0.0 20 0	200 % v _c 60 m/min f 0.11 mm 1 - SP1 321 - SP91	250 200 200 50 60 Parts 0 310 - SP1	325 % 195 Parts 310 - SP91	300 250 250 200 200 200 200 200 200 200 2	m

Available for the following types of tools:



Let us know your application – we develop your drilling process and accompany you from development stage to successful realization.

Further information: www.botek.de

