

Solid carbide slot drill HPC, TiAIN, Ø DC: 3mm



Order data

Order number	201648 3
GTIN	4045197641465
Item class	11X

Description

Version:

GARANT Diabolo 70:

Special solid carbide substrate with extremely high tensile strength combined with outstanding wear resistance for optimum process reliability. Newly developed nanocrystalline high-tech coating for hard milling up to 70 HRC. Very suitable for continuous use in tool and mould making.

Sizes 0.5 - 5: Recess angle $\alpha = 15^{\circ}$.

Application:

Due to the **special hard geometry** ideal for use on hardened materials from 60 HRC to 70 HRC.

Note:

 f_z for $a_p = 0.05 \times D$.

Technical description

Feed f_z for slot milling in steel < 70 HRC	0.006 mm	
Feed f_z for side milling in steel < 70 HRC	0.008 mm	
Cutting edge \varnothing D_c	3 mm	
No. of teeth Z	2	
Shank Ø D _s	6 mm	
Overall length L	50 mm	
Flute length L _c	7.5 mm	
Direction of infeed	horizontal, oblique and vertical	
Shank	DIN 6535 HA to h6	

Tolerance nominal Ø	0 / -0.02	
Helix angle	35 degrees	
Corner chamfer angle	90 degrees	
Coating	TiAIN	
Tool material	Solid carbide	
Standard	Manufacturer's standard	
Туре	Н	
Helix angle characteristic	unequal spacing	
Cutting width a _e for milling operation	nilling operation 0.05×D for side milling	
Cutting width a_e for milling operation	Full slot cutting depth 1×D	
Through-coolant	no	
Machining strategy	HPC	
Colour ring	red	
Type of product	End / face mill	

User data

	Suitability	V _c	ISO code
Steel < 60 HRC	suitable only under restricted conditions	60 m/min	Н
Steel < 65 HRC	suitable	50 m/min	Н
Steel < 67 HRC	suitable	40 m/min	Н
Steel < 70 HRC	suitable	35 m/min	Н
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		

Services

Shank grinding Type HB	129100 HB
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