Garant

Solid carbide milling cutter HPC, TiAIN, Ø DC: 5mm



Order data

Order number	203212 5
GTIN	4045197640789
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 nano-crystalline high-tech coating for hard milling up to 70 HRC. Very suitable for continuous use in tool and mould making.

Sizes 2 - 5: **Recess angle** $\alpha = 15^{\circ}$.

Tolerance:

• Size nominal \emptyset : D_c \leq size 12: 0 / -0.02 mm;

• Size nominal Ø: D_c from size 16: 0 / -0.03 mm.

Application:

Due to the **special hard geometry** ideal for use on hardened materials from 60 HRC to 70 HRC. **For profile milling** as **finishing**.

(Plunge cutting only to shallow depths.) **Note:** For materials > 65 HRC: $a_e = 0.02 \times D$.

Technical description

Cutting edge $Ø D_c$	5 mm
No. of teeth Z	6
Feed f_z for side milling in steel < 70 HRC	0.018 mm
Shank Ø D _s	6 mm
Overall length L	58 mm

Flute length L _c	13 mm	
Direction of infeed	horizontal and oblique	
Shank	DIN 6535 HA to h6	
Tolerance nominal Ø	0 / -0.02	
Helix angle	45 degrees	
Corner chamfer angle	90 degrees	
Coating	TiAIN	
Tool material	Solid carbide	
Standard	Manufacturer's standard	
Туре	Н	
Cutting width a_e for milling operation	0.05×D for side milling	
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	145 m/min	Н
Steel < 65 HRC	suitable	100 m/min	Н
Steel < 67 HRC	suitable	80 m/min	Н
Steel < 70 HRC	suitable	75 m/min	Н
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		

Services

Shank	grinding	Type HB
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129100 HB

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