Garant

Solid carbide milling cutter HPC / TPC, TiAlN, Ø DC: 16mm



Order data

Order number	203373 16
GTIN	4045197641342
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;

 $\cdot\,$ 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 a **finishing operation**.

(Plunge milling only to shallow depths).

Note:

For materials > 65 HRC: $a_e = 0.02 \times D$.

Technical description

No. of teeth Z	б
Cutting edge $Ø D_c$	16 mm
Feed f_z for side milling in steel < 70 HRC	0.15 mm
Shank Ø D _s	16 mm
Overall length L 130 mm	
Flute length L_c	66 mm

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Direction of infeed	horizontal and oblique	
Shank	DIN 6535 HA to h6	
Tolerance nominal Ø	0 / -0.03	
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	0.02×D	
Through-coolant	no	
Machining strategy	TPC	
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	90 m/min	н
Steel < 65 HRC	suitable	60 m/min	Н
Steel < 67 HRC	suitable	50 m/min	Н
Steel < 70 HRC	suitable	45 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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