

Solid carbide milling cutter HPC, TiAlN, Ø DC: 20mm



Order data

Order number	203212 20		
GTIN	4045197641045		
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 2 - 5: Recess angle $\alpha = 15^{\circ}$.

Tolerance:

- · Size nominal Ø: $D_c \le$ 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

No. of teeth Z	6	
Feed f_z for side milling in steel < 70 HRC	0.045 mm	
Cutting edge Ø D _c	20 mm	
Shank Ø D _s	20 mm	
Overall length L	105 mm	

Flute length L _c	38 mm		
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	0.05×D for side milling		
Through-coolant	no		
Machining strategy	HPC		
Colour ring	red		
Type of product	End / face mill		

User data

	Suitability	\mathbf{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

