

# Solid carbide milling cutter HPC, TiAlN, Ø DC: 3mm



## **Order data**

Order number	2032123		
GTIN	4045197640765		
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<sub>c</sub> 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 $\emptyset$ $D_{c}$	3 mm	
No. of teeth Z	6	
Feed $f_z$ for side milling in steel < 70 HRC	0.018 mm	
Shank Ø D <sub>s</sub>	6 mm	
Overall length L	58 mm	

Flute length L <sub>c</sub>	8 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	$\mathbf{V}_{c}$	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**

Shank grinding Type HB 129100 HB

