

Solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 10/1,0mm



Order data

Order number	206324 10/1,0		
GTIN	4045197641397		
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.

Tolerances:

· Corner radius: $R_1 = \pm 0.02$ 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).

Technical description

Corner radius R ₁	1 mm	
Feed f_z for side milling in steel < 70 HRC	0.07 mm	
Overhang length L ₁ incl. recess	30 mm	
Feed f_z for copy milling in steel < 70 HRC	0.07 mm	
No. of teeth Z	6	
Cutting edge \emptyset D_c	10 mm	
Recess Ø D ₁	9.7 mm	
Shank Ø D _s	10 mm	

Flute length L _c	10 mm		
Overall length L	70 mm		
Shank	DIN 6535 HA to h6		
Helix angle	45 degrees		
Coating	TiAlN		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Туре	Н		
Tolerance nominal Ø	0 / -0.02		
Direction of infeed	horizontal, oblique and vertical		
Cutting width a _e for milling operation	0.05×D for copy milling		
Cutting width a _e for milling operation	0.05×D for side milling		
Through-coolant	no		
Machining strategy	HPC		
Shank tolerance	h6		
Colour ring	red		
Type of product	Torus cutter		

User data

	Suitability	V _c	ISO code
Steel < 60 HRC	suitable only under restricted conditions	150 m/min	Н
Steel < 65 HRC	suitable	110 m/min	Н
Steel < 67 HRC	suitable	90 m/min	Н
Steel < 70 HRC	suitable	80 m/min	Н
dry	suitable		
Air	suitable		

Services

Shank grinding Type HB 129100 HB