

## Garant

### Solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 2/0,2 mm



## Order data

Order number	206323 2/0,2
GTIN	4045197640819
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  $\alpha = 15^\circ$** .

Tolerances:

- **Corner radius:  $R_1 = \pm 0.01$  mm.**

### Application:

Due to the **special hard geometry** ideal for use on hardened materials from 60 HRC to 70 HRC.

No. of teeth Z: 4

Helix angle: 30 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length  $L_c$ : 2 mm

Corner radius  $R_1$ : 0.2 mm

Overhang length  $L_1$  incl. recess: 10 mm

Recess  $\varnothing D_1$ : 1.9 mm

Overall length L: 58 mm

## Technical description

Feed $f_z$ for side milling in steel < 70 HRC	0.005 mm
Overhang length $L_1$ incl. recess	10 mm
Corner radius $R_1$	0.2 mm

Recess $\varnothing D_1$	1.9 mm
Cutting edge $\varnothing D_c$	2 mm
Feed $f_z$ for copy milling in steel < 70 HRC	0.005 mm
No. of teeth Z	4
Shank $\varnothing D_s$	6 mm
Flute length $L_c$	2 mm
Overall length L	58 mm
Shank	DIN 6535 HA to h6
Helix angle	30 degrees
Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal $\varnothing$	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	End mill

## Services

Shank grinding Type HB	129100 HB
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