

## Garant

### Solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 6/0,5 mm



#### Order data

Order number	206324 6/0,5
GTIN	4045197641373
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).

No. of teeth Z: 6

Helix angle: 45 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 6

Flute length  $L_c$ : 6 mm

Corner radius  $R_1$ : 0.5 mm

Overhang length  $L_1$  incl. recess: 18 mm

Recess Ø  $D_1$ : 5.85 mm

Overall length L: 50 mm

#### Technical description

Overhang length $L_1$ incl. recess	18 mm
Feed $f_z$ for side milling in steel < 70 HRC	0.048 mm

No. of teeth Z	6
Feed $f_z$ for copy milling in steel < 70 HRC	0.048 mm
Recess $\varnothing D_1$	5.85 mm
Corner radius $R_1$	0.5 mm
Cutting edge $\varnothing D_c$	6 mm
Shank $\varnothing D_s$	6 mm
Flute length $L_c$	6 mm
Overall length L	50 mm
Shank	DIN 6535 HA to h6
Helix angle	45 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 recess Type FRST	209900 FRST
Shank grinding Type HB	129100 HB

