

## Garant

### GARANT Master Steel solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 5/0,5 mm



#### Order data

Order number	206333 5/0,5
GTIN	4062406276256
Item class	11X

#### Description

##### Version:

HPC milling cutter with **newly developed high-performance coating**. For **outstanding tool life** and **optimum metal removal rates** in a range of materials.

With **double relief ground side clearance angle**.

Tolerance: Corner radius  $R_1$

Radius size 0.1 mm – 1 mm:  $R_1 = \pm 0.003$  mm.

Radius size > 1.0 mm – 1 mm :  $R_1 = \pm 0.005$  mm.

##### Advantage:

Optimised flute form, eccentric relief ground, wide chip space.

##### Application:

Especially for **high speed machining** in **mould and tool making** for **copy milling**. Excellent results for **dry milling**.

No. of teeth Z: 5

Helix angle: 30 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 5

Flute length  $L_c$ : 6 mm

Corner radius  $R_1$ : 0.5 mm

Overhang length  $L_1$  incl. recess: 18 mm

minimum shank recess dia.  $D_5$ : 4.6 mm

maximum shank recess dia.  $D_6$ : 4.9 mm

#### Technical description

Helix angle	30 degrees
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Shank	DIN 6535 HA to h6
Shank $\varnothing D_s$	5 mm
Cutting edge $\varnothing D_c$	5 mm
Feed $f_z$ for side milling in steel < 1100 N/mm <sup>2</sup>	0.018 mm
Overall length L	54 mm
Corner radius $R_1$	0.5 mm
Flute length $L_c$	6 mm
Feed $f_z$ for copy milling in steel < 1100 N/mm <sup>2</sup>	0.02 mm
Overhang length $L_1$ incl. recess	18 mm
No. of teeth Z	5
minimum shank recess dia. $D_5$	4.6 mm
maximum shank recess dia. $D_6$	4.9 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal $\varnothing$	e8
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.03×D for copy milling
Cutting width $a_e$ for milling operation	0.2×D for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill