

Garant

GARANT Master Steel solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 4/1,0 mm



Order data

Order number	206333 4/1,0
GTIN	4062406276249
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 : 5 mm

Corner radius R_1 : 1 mm

Overhang length L_1 incl. recess: 16 mm

minimum shank recess dia. D_5 : 3.7 mm

maximum shank recess dia. D_6 : 3.9 mm

Technical description

Overall length L	50 mm
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No. of teeth Z	5
Helix angle	30 degrees
Shank	DIN 6535 HA to h6
Flute length L_c	5 mm
Cutting edge $\varnothing D_c$	4 mm
Corner radius R_1	1 mm
Shank $\varnothing D_s$	4 mm
Feed f_z for side milling in steel < 1100 N/mm ²	0.015 mm
Feed f_z for copy milling in steel < 1100 N/mm ²	0.018 mm
Overhang length L_1 incl. recess	16 mm
minimum shank recess dia. D_5	3.7 mm
maximum shank recess dia. D_6	3.9 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