

Garant
GARANT Master Steel solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 4/0,5 mm

Order data

Order number	206333 4/0,5
GTIN	4062406276225
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_f : 5 mm

Corner radius R_1 : 0.5 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

Helix angle	30 degrees
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Shank	DIN 6535 HA to h6
Shank Ø D _s	4 mm
Feed f _z for copy milling in steel < 1100 N/mm ²	0.018 mm
No. of teeth Z	5
Flute length L _c	5 mm
Feed f _z for side milling in steel < 1100 N/mm ²	0.015 mm
Cutting edge Ø D _c	4 mm
Corner radius R ₁	0.5 mm
Overall length L	50 mm
Overhang length L ₁ incl. recess	16 mm
maximum shank recess dia. D ₆	3.9 mm
minimum shank recess dia. D ₅	3.7 mm
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal Ø	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