

Garant

GARANT Master Steel solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 2/0,5 mm



Order data

Order number	206333 2/0,5
GTIN	4062406276171
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: 4

Helix angle: 30 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length L_c : 2.5 mm

Corner radius R_1 : 0.5 mm

Overhang length L_1 incl. recess: 12 mm

minimum shank recess dia. D_5 : 1.8 mm

maximum shank recess dia. D_6 : 1.95 mm

Technical description

Feed f_z for side milling in steel < 1100 N/mm ²	0.008 mm
---	----------

Cutting edge $\varnothing D_c$	2 mm
Shank $\varnothing D_s$	3 mm
Overhang length L_1 incl. recess	12 mm
Feed f_z for copy milling in steel $< 1100 \text{ N/mm}^2$	0.01 mm
No. of teeth Z	4
Flute length L_c	2.5 mm
Overall length L	50 mm
Helix angle	30 degrees
Corner radius R_1	0.5 mm
Shank	DIN 6535 HA to h6
minimum shank recess dia. D_5	1.8 mm
maximum shank recess dia. D_6	1.95 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	0.03xD for copy milling
Cutting width a_e for milling operation	0.2xD for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill