

Garant
GARANT Master Steel solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 3/0,5 mm

Order data

Order number	206333 3/0,5
GTIN	4062406276195
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_f : 4 mm

Corner radius R_1 : 0.5 mm

Overhang length L_1 incl. recess: 14 mm

minimum shank recess dia. D_5 : 2.7 mm

maximum shank recess dia. D_6 : 2.9 mm

Technical description

Overhang length L_1 incl. recess	14 mm
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Corner radius R_1	0.5 mm
Shank	DIN 6535 HA to h6
Cutting edge $\varnothing D_c$	3 mm
Shank $\varnothing D_s$	3 mm
Feed f_z for copy milling in steel $< 1100 \text{ N/mm}^2$	0.012 mm
Overall length L	50 mm
No. of teeth Z	4
Flute length L_c	4 mm
Feed f_z for side milling in steel $< 1100 \text{ N/mm}^2$	0.01 mm
Helix angle	30 degrees
minimum shank recess dia. D_5	2.7 mm
maximum shank recess dia. D_6	2.9 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	$0.03 \times D$ for copy milling
Cutting width a_e for milling operation	$0.2 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill