

## Garant

### GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 4 mm



#### Order data

Order number	203034 4
GTIN	4045197718532
Item class	11X

#### Description

##### Version:

For **roughing and finishing**.

Up to  $1 \times D$  into solid material **at very high feed rates** with smooth cutting action.

At maximum machining depths, ensure compliance with the ratio dimension  $L_c$  (cutting length) /  $\varnothing$  (nominal size)!

##### Advantage:

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

Tolerance nominal  $\varnothing$ : f8

No. of teeth Z: 4

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 8 mm

Overall length L: 54 mm

Shank  $\varnothing D_s$ : 6 mm

Corner chamfer width at  $45^\circ$ : 0.08 mm

Feed  $f_z$  for slot milling in steel  $< 900 \text{ N/mm}^2$ : 0.02 mm

#### Technical description

Corner chamfer width at $45^\circ$	0.08 mm
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.025 mm
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.02 mm

Cutting edge $\varnothing D_c$	4 mm
No. of teeth Z	4
Shank $\varnothing D_s$	6 mm
Overall length L	54 mm
Flute length $L_c$	8 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	f8
Helix angle	38 degrees
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.5×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill