

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

**Order data**

Order number	203035 4
GTIN	4045197718747
Item class	11X

**Description**
**Version:**

For **roughing and finishing**.

Up to 1.5×D into solid material **at very high feed rates** with smooth cutting action.

**Advantage:**

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

Tolerance nominal Ø: 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  $L_c$ : 11 mm

Overall length L: 57 mm

Shank Ø  $D_s$ : 6 mm

Corner chamfer width at 45°: 0.08 mm

Feed  $f_z$  for slot milling in steel < 900 N/mm<sup>2</sup>: 0.02 mm

**Technical description**

Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.02 mm
No. of teeth Z	4
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.025 mm
Corner chamfer width at 45°	0.08 mm
Cutting edge Ø $D_c$	4 mm

Shank $\varnothing D_s$	6 mm
Overall length L	57 mm
Flute length $L_c$	11 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	0.3×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