

Garant
GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 12 mm

Order data

Order number	203034 12
GTIN	4045197718587
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 : 16 mm

Overall length L: 73 mm

Shank $\varnothing D_s$: 12 mm

Corner chamfer width at 45° : 0.24 mm

Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$: 0.07 mm

Technical description

Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.09 mm
No. of teeth Z	4
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.07 mm

Corner chamfer width at 45°	0.24 mm
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Overall length L	73 mm
Flute length L_c	16 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

Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 12 mm

SZ2025 12