

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

Order data

Order number	203039 12
GTIN	4062406230937
Item class	11X

Description
Version:

For **roughing and finishing**.

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

Advantage:

Optimised flute form, eccentric relief ground, generous chip spaces.

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: 26 mm

Overhang length L₁ incl. recess: 36 mm

Recess Ø D₁: 11.8 mm

Overall length L: 83 mm

Shank Ø D_s: 12 mm

Technical description

Tolerance nominal Ø	f8
Direction of infeed	horizontal, oblique and vertical
Recess Ø D ₁	11.8 mm
Shank	DIN 6535 HB to h6
Overhang length L ₁ incl. recess	36 mm

Overall length L	83 mm
Corner chamfer width at 45°	0.1 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.09 mm
Shank Ø D_s	12 mm
Helix angle	38 degrees
Flute length L_c	26 mm
Cutting edge Ø D_c	12 mm
No. of teeth Z	4
Feed f_z for slot milling in steel < 900 N/mm ²	0.07 mm
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	Full slot cutting depth 1×D
Cutting width a_e for milling operation	0.03×D for copy milling
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 Ø tool 12 mm

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