

Garant
Solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 12 mm

Order data

Order number	203031 12
GTIN	4045197510488
Item class	11X

Description
Version:

For **roughing and finishing**.

Up to 1xD into solid material **at very high feed rates** with smooth cutting action.

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

Advantage:

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

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 203034.

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 N/mm²: 0.07 mm

Technical description

Feed f_z for side milling in steel < 900 N/mm ²	0.09 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.07 mm

Cutting edge $\varnothing D_c$	12 mm
Corner chamfer width at 45°	0.24 mm
No. of teeth Z	4
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
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 recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 12 mm	SZ2025 12

