

Garant

Solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 20 mm



Order data

Order number	203041 20
GTIN	4045197510631
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, wide chip space.

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 203035.

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 : 41 mm

Overhang length L_1 incl. recess: 54 mm

Recess Ø D_1 : 19.8 mm

Overall length L: 104 mm

Shank Ø D_s : 20 mm

Technical description

Feed f_z for slot milling in steel < 900 N/mm ²	0.1 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.13 mm
Recess Ø D_1	19.8 mm

Cutting edge $\varnothing D_c$	20 mm
Corner chamfer width at 45°	0.4 mm
No. of teeth Z	4
Overhang length L_1 incl. recess	54 mm
Shank $\varnothing D_s$	20 mm
Overall length L	104 mm
Flute length L_c	41 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	0.3×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

Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 20 mm	SZ2025 20

