

Garant
GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 20 mm

Order data

Order number	203038 20
GTIN	4045197718969
Item class	11X

Description
Version:

For **roughing and finishing** up to $0.7 \times D$ 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 : 41 mm

Overhang length L_1 incl. recess: 98 mm

Recess Ø D_1 : 19.5 mm

Overall length L: 150 mm

Shank Ø D_s : 20 mm

Technical description

Overhang length L_1 incl. recess	98 mm
Cutting edge Ø D_c	20 mm
Feed f_z for slot milling in steel < 900 N/mm ²	0.1 mm
Corner chamfer width at 45°	0.4 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.13 mm

Recess Ø D ₁	19.5 mm
No. of teeth Z	4
Shank Ø D _s	20 mm
Overall length L	150 mm
Flute length L _c	41 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal Ø	f8
Helix angle	38 degrees
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a _e for milling operation	0.1×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 Ø tool 20 mm

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