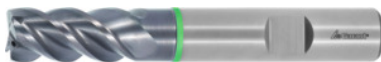


Garant
Solid carbide roughing end mill MTC with through-coolant, AlCrN, Ø e8 DC: 20 mm

Order data

Order number	203076 20
GTIN	4045197776419
Item class	11X

Description
Version:

For **roughing and finishing** up to 1.5×D into solid material **at very high feed rates** with smooth cutting action.

For cutting force reduction and better surface quality due to **45° helix**.

Improved coating for a further reduction in cutting force combined with increased tool life.

Application:

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 45 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 4

Flute length L_c : 41 mm

Overall length L: 104 mm

Shank Ø D_s : 20 mm

Corner chamfer width at 45°: 0.3 mm

Feed f_z for side milling in steel < 900 N/mm²: 0.155 mm

Technical description

Flute length L_c	41 mm
Corner chamfer width at 45°	0.3 mm
Shank	DIN 6535 HB to h6

Shank Ø D _s	20 mm
Overall length L	104 mm
Balance quality with shank	G 2.5 with HB
No. of teeth Z	4
Cutting edge Ø D _c	20 mm
Tolerance nominal Ø	e8
Feed f _z for side milling in steel < 900 N/mm ²	0.155 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	AlCrN
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	0.3×D for side milling
Cutting width a _e for milling operation	Full slot cutting depth 1×D
Through-coolant	yes
Machining strategy	MTC
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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