

**Garant**
**Solid carbide roughing end mill MTC, AlCrN, Ø e8 DC: 20 mm**

**Order data**

Order number	203071 20
GTIN	4045197776105
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.

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  $\varnothing$ : 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

Overhang length  $L_1$  incl. recess: 98 mm

Recess  $\varnothing D_1$ : 19.5 mm

Overall length L: 150 mm

Shank  $\varnothing D_s$ : 20 mm

**Technical description**

Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.08 mm
Overall length L	150 mm
Overhang length $L_1$ incl. recess	98 mm
Flute length $L_c$	41 mm

Shank $\varnothing D_s$	20 mm
Balance quality with shank	G 2.5 with HB
Cutting edge $\varnothing D_c$	20 mm
Direction of infeed	horizontal, oblique and vertical
Tolerance nominal $\varnothing$	e8
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.06 mm
Corner chamfer width at $45^\circ$	0.3 mm
Recess $\varnothing D_1$	19.5 mm
No. of teeth Z	4
Shank	DIN 6535 HB to h6
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	$0.1 \times D$ for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	MTC
Colour ring	green
Type of product	End mill

## Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank  $\varnothing$  tool 20 mm

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