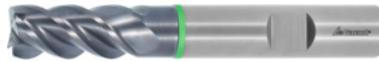


**Garant**
**Solid carbide roughing end mill MTC, AlCrN, Ø e8 DC: 12 mm**

**Order data**

Order number	203061 12
GTIN	4045197775931
Item class	11X

**Description**
**Version:**

For **roughing and finishing** up to  $1.5 \times D$  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 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  $L_c$ : 26 mm

Overhang length  $L_1$  incl. recess: 36 mm

Recess Ø  $D_1$ : 11.6 mm

Overall length L: 83 mm

Shank Ø  $D_s$ : 12 mm

**Technical description**

Cutting edge Ø $D_c$	12 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Flute length $L_c$	26 mm

Corner chamfer width at 45°	0.3 mm
Recess $\varnothing D_1$	11.6 mm
No. of teeth Z	4
Balance quality with shank	G 2.5 with HB
Overhang length $L_1$ incl. recess	36 mm
Overall length L	83 mm
Shank	DIN 6535 HB to h6
Shank $\varnothing D_s$	12 mm
Tolerance nominal $\varnothing$	e8
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	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 12 mm

SZ2025 12

