

**Garant**
**Solid carbide roughing end mill MTC with through-coolant, AlCrN, Ø e8 DC: 10mm**

**Order data**

Order number	203076 10
GTIN	4045197776334
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.

**Technical description**

Overall length L	72 mm
No. of teeth Z	4
Flute length L <sub>c</sub>	22 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Cutting edge Ø D <sub>c</sub>	10 mm
Shank Ø D <sub>s</sub>	10 mm
Tolerance nominal Ø	e8
Shank	DIN 6535 HB to h6
Balance quality with shank	G 2.5 with HB
Direction of infeed	horizontal, oblique and vertical
Corner chamfer width at 45°	0.2 mm

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	$0.3 \times D$ for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	yes
Machining strategy	MTC
Colour ring	green
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	250 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	230 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	150 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	60 m/min	M
GG(G)	suitable	170 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		

dry	suitable
Air	suitable