

**Garant**
**Solid carbide milling cutter MTC, AlCrN, Ø f8 DC: 20mm**

**Order data**

Order number	202399 20
GTIN	4045197858313
Item class	11X

**Description**
**Version:**

**Special flute profile. Strengthened core.**

**MTC rough milling up to 1.5×D in solid material.**

**Eccentric relief ground.**

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**

Cutting edge Ø D <sub>c</sub>	20 mm
Flute length L <sub>c</sub>	60 mm
No. of teeth Z	3
Recess Ø D <sub>1</sub>	19.5 mm
Corner chamfer width at 45°	0.2 mm
Direction of infeed	horizontal, oblique and vertical
Shank Ø D <sub>s</sub>	20 mm
Feed f <sub>z</sub> for slot milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.12 mm
Shank	DIN 6535 HB to h6
Overhang length L <sub>1</sub> incl. recess	74 mm

Balance quality with shank	G 2.5 with HB
Tolerance nominal $\varnothing$	f8
Overall length L	126 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×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 / 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	220 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	190 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	170 m/min	P
Steel < 55 HRC	suitable	90 m/min	H
Steel < 60 HRC	suitable	60 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	130 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	100 m/min	M

Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	50 m/min	S
GG(G)	suitable	160 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	Suitable		
Air	Suitable		