

Garant
Solid carbide milling cutter MTC, AlCrN, Ø f8 DC: 4,5mm

Order data

Order number	202396 4,5
GTIN	4045197857491
Item class	11X

Description
Version:

Special flute profile. Strengthened core.

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

Eccentric relief ground.

Lengths similar to **DIN 6527 long**.

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

Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.048 mm
Corner chamfer width at 45°	0.1 mm
Cutting edge $\varnothing D_c$	4.5 mm
Tolerance nominal \varnothing	f8
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Flute length L_c	13 mm
Overall length L	57 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.04 mm
No. of teeth Z	3
Shank $\varnothing D_s$	6 mm

Overhang length L_1 incl. recess	19 mm
Recess $\varnothing D_1$	4.4 mm
Balance quality with shank	G 2.5 with HB
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	AlCrN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	$0.5 \times D$ for side milling
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 ²	suitable	250 m/min	P
Steel < 750 N/mm ²	suitable	220 m/min	P
Steel < 900 N/mm ²	suitable	200 m/min	P
Steel < 1100 N/mm ²	suitable	190 m/min	P
Steel < 1400 N/mm ²	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 ²	suitable	130 m/min	M
INOX > 900 N/mm ²	suitable	100 m/min	M

Ti > 850 N/mm ²	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		