

Garant
Solid carbide roughing end mill HPC, AlCrN, Ø e8 DC: 16mm

Order data

Order number	203072 16
GTIN	4062406565206
Item class	11X

Description
Version:

For **roughing and finishing**. Up to 1.5xD into solid material **at very high feed rates** with smooth cutting action. Optimised end face geometry.

Application:

- **Optimised flute form, eccentric relief ground.**
- **Large flute profiles.**
- **Improved chip evacuation due to optimised end face geometry.**
- **Minimal wear due to sturdy cutting edges.**

Technical description

Corner chamfer width at 45°	0.4 mm
Cutting edge Ø D _c	16 mm
Helix angle	38 degrees
Overhang length L ₁ incl. recess	42 mm
Feed f _z for side milling in steel < 900 N/mm ²	0.1 mm
Corner chamfer angle	45 degrees
Recess Ø D ₁	15.7 mm
Shank Ø D _s	16 mm
No. of teeth Z	4
Overall length L	92 mm

Feed f_z for slot milling in steel < 900 N/mm ²	0.065 mm
Flute length L_c	36 mm
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	e8
Direction of infeed	horizontal, oblique and vertical
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	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 ²	suitable	265 m/min	P
Steel < 750 N/mm ²	suitable	250 m/min	P
Steel < 900 N/mm ²	suitable	200 m/min	P
Steel < 1100 N/mm ²	suitable	180 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	160 m/min	P
INOX < 900 N/mm ²	suitable only under restricted conditions	100 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	90 m/min	M

GG(G)	suitable	250 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		