

GARANT Steel solid carbide roughing end mill with chip breakers HPC, TiAlN, Ø f8 DC: 10mm



Order data

Order number	203049 10
GTIN	4069515028561
Item class	11Z

Description

Version:

For **roughing and finishing. Chip breakers for controlled chip breaking.** For reliable working in automated production environments thanks to reliable chip evacuation from the component. Up to 1.5×D into solid material **at very high feed rates** with smooth cutting action.

Advantage:

Optimised flute form, eccentric relief ground, wide chip space.

Technical description

Shank Ø D _s	10 mm	
Overall length L	72 mm	
Number of chip separators	1	
Corner chamfer width at 45°	0.2 mm	
rner chamfer angle 45 degrees		
Recess Ø D ₁	9.8 mm	
Flute length L _c	22 mm	
Helix angle	38 degrees	
Tolerance nominal Ø	f8	
Feed f_z for side milling in steel < 900 N/mm ²	0.08 mm	
Direction of infeed	horizontal, oblique and vertical	

Data sheet

Shank	DIN 6535 HB	
Feed f_z for slot milling in steel < 900 N/mm ²	0.06 mm	
Cutting edge Ø D _C	10 mm	
No. of teeth Z	4	
Overhang length L₁ incl. recess	30 mm	
Series	Master Steel	
Coating	TiAIN	
Tool material	Solid carbide	
Standard	DIN 6527	
Туре	N	
Helix angle characteristic	unequal spacing	
Spacing of the cutters	unequal spacing	
Cutting width a _e for milling operation	Full slot cutting depth 1×D	
Cutting width a _e for milling operation	0.3×D for side milling	
Through-coolant	no	
Machining strategy	HPC	
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	Р
Steel < 750 N/mm ²	suitable	200 m/min	Р
Steel < 900 N/mm ²	suitable	180 m/min	Р
Steel < 1100 N/mm ²	suitable	160 m/min	Р
INOX < 900 N/mm ²	suitable	70 m/min	М
$INOX > 900 \text{ N/mm}^2$	suitable	50 m/min	М
GG(G)	suitable	120 m/min	K
Uni	suitable		

Data sheet

wet maximum	suitable	
wet minimum	suitable only under restricted conditions	
dry	suitable	
Air	suitable	