

GARANT Steel solid carbide milling cutter HPC, TiAIN, Ø f8 DC: 12mm



Order data

Order number	203053 12
GTIN	4069515028394
Item class	11Z

Description

Version:

For **roughing and finishing.** For use in unstable machining processes and for machining complex components.

Up to 1×D into solid material **at very high feed rates** with smooth cutting action.

At maximum machining depths, ensure compliance with the ratio dimension L_c (cutting length) / \emptyset D_c (cutting \emptyset)!

Advantage:

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

Note:

Successor product to No. 203031.

Technical description

Overall length L	73 mm	
Cutting edge Ø D _C	12 mm	
Feed f_z for slot milling in steel < 900 N/mm ²	0.07 mm	
Tolerance nominal Ø	f8	
Direction of infeed	horizontal, oblique and vertical	
Feed f_z for side milling in steel < 900 N/mm ²	0.09 mm	
Shank	DIN 6535 HB	
Flute length L _c	16 mm	
Helix angle	38 degrees	

Data sheet

No. of teeth Z	4	
Corner chamfer width at 45°	0.24 mm	
Shank Ø D _s	12 mm	
Corner chamfer angle	45 degrees	
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	0.5×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 N/mm ²	suitable	50 m/min	М
GG(G)	suitable	120 m/min	K
Uni	suitable		
wet maximum	suitable		

Data sheet

wet minimum	suitable only under restricted conditions	
dry	suitable	
Air	suitable	