

Garant
Solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 14mm

Order data

Order number	203041 14
GTIN	4045197510600
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.

Advantage:

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

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 203035.

Tolerance nominal Ø: f8

No. of teeth Z: 4

Helix angle: 38°

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length L_c : 26 mm

Overhang length L_1 incl. recess: 36 mm

Recess Ø D_1 : 13.8 mm

Overall length L: 83 mm

Shank Ø D_s : 14 mm

Technical description

Recess Ø D_1	13.8 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.1 mm
Corner chamfer width at 45°	0.28 mm

Cutting edge $\varnothing D_c$	14 mm
Overhang length L_1 incl. recess	36 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.08 mm
No. of teeth Z	4
Shank $\varnothing D_s$	14 mm
Overall length L	83 mm
Flute length L_c	26 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	f8
Helix angle	38 °
Corner chamfer angle	45 °
Coating	TiAlN
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	HPC
Colour ring	green
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Steel $< 500 \text{ N/mm}^2$	suitable	250 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	200 m/min	P

Steel < 900 N/mm ²	suitable	180 m/min	P
Steel < 1100 N/mm ²	suitable	160 m/min	P
INOX < 900 N/mm ²	suitable	70 m/min	M
INOX > 900 N/mm ²	suitable	50 m/min	M
GG(G)	suitable	120 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		
Services			

Shank recess Type FRST

209900 FRST