

Garant
GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 14 mm

Order data

Order number	203036 14
GTIN	4045197779014
Item class	11X

Description
Version:

For **roughing and finishing** up to $0.7 \times D$ into solid material **at very high feed rates** with smooth cutting action.

Advantage:

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

Tolerance nominal \varnothing : f8

No. of teeth Z: 4

Helix angle: 38 degrees

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: 52 mm

Recess $\varnothing D_1$: 13.6 mm

Overall length L: 99 mm

Shank $\varnothing D_s$: 14 mm

Technical description

Shank	DIN 6535 HB to h6
Direction of infeed	horizontal, oblique and vertical
Corner chamfer width at 45°	0.28 mm
Tolerance nominal \varnothing	f8
Overall length L	99 mm

Flute length L_c	26 mm
No. of teeth Z	4
Overhang length L_1 incl. recess	52 mm
Cutting edge $\varnothing D_c$	14 mm
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.08 mm
Recess $\varnothing D_1$	13.6 mm
Shank $\varnothing D_s$	14 mm
Helix angle	38 degrees
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	$0.25 \times D$ for side milling
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill