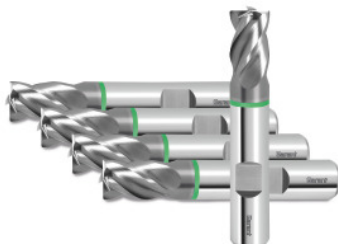


**Garant****GARANT Master Steel solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 14mm****Order data**

Order number	GG1034 14
GTIN	4067263134299
Item class	GGN

**Description****Version:**

Same as No. 203034.

For **roughing and finishing**.

Up to 1xD 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) /  $\varnothing$  (nominal size)!

**Advantage:**

Optimised flute form, eccentric relief ground, generous chip spaces.

**Technical description**

No. of teeth Z	4
Shank	DIN 6535 HB to h6
Helix angle	38 degrees
Cutting edge $\varnothing D_c$	14 mm
Corner chamfer width at 45°	0.28 mm
Tolerance nominal $\varnothing$	f8

Shank $\varnothing D_s$	14 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Direction of infeed	horizontal, oblique and vertical
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Corner chamfer angle	45 degrees
Overall length L	73 mm
Flute length $L_c$	16 mm
Series	Master Steel
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	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 <sup>2</sup>	suitable	260 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	240 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	190 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	150 m/min	P

INOX < 900 N/mm <sup>2</sup>	suitable	80 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	70 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		

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## Accessories

GARANT Master Steel solid carbide roughing end millHPC  
Ø f8 DC 14 mm

203034 14