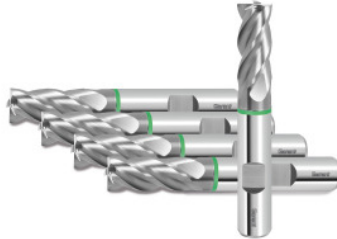


**Garant**
**Value pack GARANT Master Steel solid carbide roughing end mill HPC, 5 pieces**

**Order data**

Order number	GG1035 12
GTIN	4067263134718
Item class	GGN

**Description**
**Version:**

Same as No. 203035.

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, generous chip spaces.

**Technical description**

Shank $\varnothing D_s$	12 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Corner chamfer width at 45°	0.24 mm
Flute length $L_c$	26 mm
No. of teeth Z	4
Recess $\varnothing D_1$	11.8 mm
Cutting edge $\varnothing D_c$	12 mm
Corner chamfer angle	45 degrees

Tolerance nominal $\varnothing$	f8
Overhang length $L_1$ incl. recess	36 mm
Helix angle	38 degrees
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
Direction of infeed	horizontal, oblique and vertical
Overall length L	83 mm
Shank	DIN 6535 HB to h6
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	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 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 12 mm

203035 12