

**Garant****GARANT Steel solid carbide milling cutter HPC, TiAlN, Ø f8 DC: 16mm****Order data**

Order number	203057 16
GTIN	4069515028509
Item class	11Z

**Description****Version:**

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

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:**

**Successor product to No. 203041.**

**Technical description**

Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Tolerance nominal Ø	f8
Overhang length $L_1$ incl. recess	42 mm
No. of teeth Z	4
Recess Ø $D_1$	15.8 mm
Flute length $L_c$	36 mm
Corner chamfer angle	45 degrees
Cutting edge Ø $D_c$	16 mm
Overall length L	92 mm
Shank Ø $D_s$	16 mm
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.08 mm

## Data sheet

Helix angle	38 degrees
Corner chamfer width at 45°	0.32 mm
Shank	DIN 6535 HB
Direction of infeed	horizontal, oblique and vertical
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 $1 \times D$
Cutting width $a_e$ for milling operation	$0.3 \times D$ 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	250 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	160 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	70 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	50 m/min	M
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