

**Garant**
**Solid carbide roughing end mill HPC, TiAlN, Ø f8 DC: 16mm**

**Order data**

Order number	203031 16
GTIN	4045197510501
Item class	11X

**Description**
**Version:**

For **roughing and finishing**.

Up to 1xD into solid material **at very high feed rates** with smooth cutting action.

At maximum boring depths, ensure compliance with the ratio dimension  $L_c$  (cutting length) /  $\varnothing D_c$  (cutting  $\varnothing$ )!

**Advantage:**

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

**Note:**

**NEW GENERATION AVAILABLE!**

**Recommended successor product is No. 203034.**

**Technical description**

Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
No. of teeth Z	4
Corner chamfer width at 45°	0.32 mm
Cutting edge $\varnothing D_c$	16 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Shank $\varnothing D_s$	16 mm
Overall length L	82 mm
Flute length $L_c$	22 mm
Direction of infeed	horizontal, oblique and vertical

Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	f8
Helix angle	38 degrees
Corner chamfer angle	45 degrees
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	0.5×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	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		

wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable