

**Garant**
**GARANT Master UNI solid carbide roughing end mill HPC, TiSiN, Ø e8 DC: 16 mm**

**Order data**

Order number	203067 16
GTIN	4062406569686
Item class	11Z

**Description**
**Version:**

For **roughing and finishing at very high feed rates** with smooth cutting action. **Newly developed geometry and high-performance coating** for outstanding production results and very long tool life with a variety of materials. Unequal spacing gives **high intrinsic stability** and smooth cutting action.

**Advantage:**

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 42 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 4

Flute length  $L_c$ : 36 mm

Overhang length  $L_1$  incl. recess: 42 mm

Recess Ø  $D_1$ : 15.5 mm

Overall length L: 92 mm

Shank Ø  $D_s$ : 16 mm

**Technical description**

Shank	DIN 6535 HB to h6
Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>	0.06 mm
Tolerance nominal Ø	e8

Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Corner rounding $r_v$	0.3 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Overhang length $L_1$ incl. recess	42 mm
Cutting edge $\varnothing D_c$	16 mm
Helix angle	42 degrees
Recess $\varnothing D_1$	15.5 mm
Overall length $L$	92 mm
Flute length $L_c$	36 mm
Feed $f_z$ for slot milling in stainless steel > 900 N/mm <sup>2</sup>	0.05 mm
No. of teeth $Z$	4
Direction of infeed	horizontal, oblique and vertical
Shank $\varnothing D_s$	16 mm
Series	GARANT Master UNI
Coating	TiSiN
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	0.3×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	MTC
Colour ring	green
Type of product	End mill