

Garant
GARANT Master UNI solid carbide roughing end mill HPC, TiSiN, Ø e8 DC: 12 mm

Order data

Order number	203062 12
GTIN	4062406569587
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:

- **Particularly low vibration running.**
- **Special flute profile, large flutes.**
- **Specially matched edge honing.**
- **Optimised substrate for hardness and toughness.**

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: 16 mm

Overhang length L₁ incl. recess: 26 mm

Recess Ø D₁: 11.5 mm

Overall length L: 73 mm

Shank Ø D_s: 12 mm

Technical description

Shank	DIN 6535 HB to h6
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Flute length L_c	16 mm
No. of teeth Z	4
Direction of infeed	horizontal, oblique and vertical
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.04 mm
Helix angle	42 degrees
Recess $\varnothing D_1$	11.5 mm
Feed f_z for side milling in INOX $> 900 \text{ N/mm}^2$	0.05 mm
Overall length L	73 mm
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.09 mm
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.07 mm
Overhang length L_1 incl. recess	26 mm
Corner rounding r_v	0.3 mm
Tolerance nominal $\varnothing$	e8
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	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill

