

Garant
GARANT Master UNI solid carbide roughing end mill HPC, TiSiN, Ø e8 DC: 20 mm

Order data

Order number	203062 20
GTIN	4062406569600
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: 26 mm

Overhang length L₁ incl. recess: 40 mm

Recess Ø D₁: 19.5 mm

Overall length L: 92 mm

Shank Ø D_s: 20 mm

Technical description

Direction of infeed	horizontal, oblique and vertical
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Flute length L_c	26 mm
Recess $\varnothing D_1$	19.5 mm
Overall length L	92 mm
Cutting edge $\varnothing D_c$	20 mm
Shank $\varnothing D_s$	20 mm
Feed f_z for side milling in steel $< 900 \text{ N/mm}^2$	0.13 mm
Corner rounding r_v	0.3 mm
Overhang length L_1 incl. recess	40 mm
Feed f_z for side milling in INOX $> 900 \text{ N/mm}^2$	0.08 mm
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	e8
Feed f_z for slot milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Feed f_z for slot milling in stainless steel $> 900 \text{ N/mm}^2$	0.07 mm
Helix angle	42 degrees
No. of teeth Z	4
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

