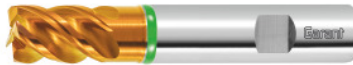


**Garant**
**GARANT Master UNI solid carbide milling cutter HPC, TiSiN, Ø e8 DC: 16mm**

**Order data**

Order number	203062 16
GTIN	4062406569594
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.**

**Technical description**

Tolerance nominal Ø	e8
Helix angle	42 degrees
Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>	0.06 mm
Cutting edge Ø $D_c$	16 mm
Recess Ø $D_1$	15.5 mm
No. of teeth Z	4
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Shank	DIN 6535 HB to h6
Feed $f_z$ for slot milling in stainless steel > 900 N/mm <sup>2</sup>	0.05 mm

Corner rounding $r_v$	0.3 mm
Flute length $L_c$	22 mm
Overhang length $L_1$ incl. recess	32 mm
Shank $\varnothing D_s$	16 mm
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.08 mm
Overall length $L$	82 mm
Direction of infeed	horizontal, oblique and vertical
Series	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 / face mill

## User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	280 m/min	N
Steel $< 500 \text{ N/mm}^2$	suitable	260 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	240 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	190 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	180 m/min	P

Steel < 1400 N/mm <sup>2</sup>	suitable	150 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	90 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	80 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	40 m/min	S
GG(G)	suitable	250 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		