Garant

GARANT Master UNI solid carbide milling cutter HPC, TiSiN, Ø e8 DC: 20mm



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.

Technical description

Direction of infeed	horizontal, oblique and vertical		
Flute length L_c	26 mm		
Recess Ø D ₁	19.5 mm		
Overall length L	92 mm		
Cutting edge Ø D_c	20 mm		
Shank Ø D _s	20 mm		
Feed f_z for side milling in steel < 900 N/mm ²	0.13 mm		
Corner rounding r _v	0.3 mm		
Overhang length L ₁ incl. recess	40 mm		

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Feed f_z for side milling in INOX > 900 N/mm ²	0.08 mm		
Shank	DIN 6535 HB to h6		
Tolerance nominal Ø	e8		
Feed f_z for slot milling in steel < 900 N/mm ²	0.1 mm		
Feed f_z for slot milling in stainless steel > 900 N/mm ²	0.07 mm		
Helix angle	42 degrees		
No. of teeth Z	4		
Series	Master Uni		
Coating	TiSiN		
Tool material	solid carbide		
Standard	Manufacturer's standard		
Туре	Ν		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
Cutting width a_e for milling operation	Full slot cutting depth 1×D		
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	Vc	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	280 m/min	Ν
Steel < 500 N/mm ²	suitable	260 m/min	Р
Steel < 750 N/mm²	suitable	240 m/min	Р
Steel < 900 N/mm ²	suitable	190 m/min	Р
Steel < 1100 N/mm ²	suitable	180 m/min	Р

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Steel < 1400 N/mm ²	suitable	150 m/min	Р
INOX < 900 N/mm ²	suitable	90 m/min	Μ
INOX > 900 N/mm ²	suitable	80 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	40 m/min	S
GG(G)	suitable	250 m/min	К
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		