Garant

GARANT Master UNI solid carbide torus cutter, TiSiN, Ø DC / R1: 10/2,0mm



Order data

Order number	206367 10/2,0
GTIN	4067263047018
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. Tolerance: corner radius $\mathbf{R}_1 = \pm 0.005 \text{ mm}$. Dimensions similar to **DIN 6527**.

Advantage:

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

Technical description

Overhang length L ₁ incl. recess	32 mm	
Overall length L	72 mm	
Recess Ø D ₁	9.7 mm	
Helix angle	42 degrees	
o. of teeth Z 4		
Shank	DIN 6535 HB to h6	
Shank Ø D _s	10 mm	
Feed f _z for copy milling in steel < 900 N/mm ²	0.09 mm	

Data sheet

Feed f_z for copy milling in stainless steel > 900 N/mm ²	0.058 mm		
Feed f_z for side milling in steel < 900 N/mm ²	0.08 mm		
Flute length L _c	22 mm		
Feed f_z for side milling in INOX > 900 N/mm ²	0.05 mm		
Corner radius R ₁	2 mm		
Cutting edge Ø D _c	10 mm		
Series	Master Uni		
Coating	TiSiN		
Tool material	Solid carbide		
Standard	Works standard		
Туре	Ν		
Tolerance nominal Ø	e8		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
Direction of infeed	horizontal, oblique and vertical		
Cutting width a_{e} for milling operation	0.3×D for side milling		
Cutting width a_e for milling operation	0.3×D for side milling		
Cutting width a_e for milling operation	0.05×D for copy milling		
Through-coolant	no		
Machining strategy	HPC		
Type of product	Torus cutter		

User data

	Suitability	V _c	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

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Steel < 1100 N/mm ²	suitable	180 m/min	Р
Steel < 1400 N/mm ²	suitable	150 m/min	Р
INOX < 900 N/mm ²	suitable	90 m/min	М
INOX > 900 N/mm ²	suitable	80 m/min	М
Ti > 850 N/mm²	suitable	40 m/min	S
GG(G)	suitable only under restricted conditions	250 m/min	К
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		