

GARANT Master UNI solid carbide torus cutter, TiSiN, Ø DC / R1: 8/1,0mm



Order data

Order number	206367 8/1,0
GTIN	4067263046936
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 $\mathbf{R}_1 = \pm \mathbf{0.005}$ 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

Shank Ø D _s	8 mm	
No. of teeth Z	4	
Cutting edge Ø D _c	8 mm	
Shank	DIN 6535 HB to h6	
Overhang length L ₁ incl. recess	27 mm	
Helix angle	42 degrees	
Corner radius R ₁	1 mm	
Feed f_z for copy milling in steel < 900 N/mm ²	0.07 mm	

Recess Ø D ₁	7.7 mm	
Feed f_z for copy milling in stainless steel > 900 N/mm ²	illing in stainless steel > 900 N/mm ² 0.045 mm	
Feed f_z for side milling in INOX > 900 N/mm ²	0.04 mm	
Feed f _z for side milling in steel < 900 N/mm ²	0.06 mm	
Flute length L _c	21 mm	
Overall length L	63 mm	
Series	Master Uni	
Coating	TiSiN	
Tool material	Solid carbide	
Standard	Works standard	
Туре	N	
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	N
Steel < 500 N/mm ²	suitable	260 m/min	Р
Steel < 750 N/mm ²	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
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/mm ²	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		