

GARANT Master UNI solid carbide torus cutter, TiSiN, Ø DC / R1: 12/2,0mm



Order data Order number 206367 12/2,0 GTIN 4067263047063

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	12 mm	
Shank	DIN 6535 HB to h6	
Overall length L	83 mm	
Flute length L _c	26 mm	
Feed f_z for copy milling in steel < 900 N/mm ²	0.11 mm	
Corner radius R ₁	2 mm	
Feed f_z for side milling in steel < 900 N/mm ²	0.09 mm	
Overhang length L ₁ incl. recess	38 mm	

No. of teeth Z	4		
Cutting edge Ø D _C	12 mm		
Feed f_z for copy milling in stainless steel > 900 N/mm ² 0.067 mm			
Helix angle	42 degrees		
Recess Ø D ₁	11.6 mm		
Feed f_z for side milling in INOX > 900 N/mm ²	0.055 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	M
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		