

Garant**GARANT Diabolo solid carbide torus cutter HRC 62 HPC, TiSiN, Ø e8 DC / R1: 16/2,0mm****Order data**

Order number	206421 16/2,0
GTIN	4069515030724
Item class	11Z

Description**Version:****GARANT Diabolo:**

Special geometry, coating and carbide for hard machining.

Tolerance: Corner radius $R_1 = \pm 0.005 \text{ mm}$.

Specialist for steels up to 62 HRC. Reliable process and longer service life thanks to optimised cutter geometry and state-of-the-art high-performance coating.

Without dynamic helical pitch.

Technical description

Recess Ø D_1	15 mm
Overhang length L_1 incl. recess	44 mm
Overall length L	92 mm
Flute length L_c	16 mm
Cutting edge Ø D_c	16 mm
Feed f_z for copy milling in steel < 65 HRC	0.09 mm
No. of teeth Z	6
Corner radius R_1	2 mm
Helix angle	50 degrees
Shank	DIN 6535 HA to h6

Data sheet

Shank Ø D _s	16 mm
Feed f _z for copy milling in steel < 60 HRC	0.085 mm
Feed f _z for side milling in steel < 60 HRC	0.06 mm
Series	Diabolo
Coating	TiSiN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal Ø	h7
Direction of infeed	horizontal, oblique and vertical
Cutting width a _e for milling operation	0.05×D for side milling
Cutting width a _e for milling operation	0.05×D for copy milling
Through-coolant	no
Machining strategy	HPC
Shank tolerance	h6
Colour ring	red
Type of product	Torus cutter

User data

	Suitability	V _c	ISO code
Steel < 1400 N/mm ²	suitable only under restricted conditions	170 m/min	P
Steel < 50 HRC	suitable only under restricted conditions	150 m/min	H
Steel < 55 HRC	suitable	130 m/min	H
Steel < 60 HRC	suitable	100 m/min	H
Steel < 65 HRC	suitable	80 m/min	H
Steel < 67 HRC	suitable only under restricted conditions	65 m/min	H

wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable
Suitable products	

<https://www.hoffmann-group.com/GB/en/hom/p/206421-16/2,0>