#### HAME

## HAIMER MILL solid carbide torus cutter, AlTiN, Ø f9 DC / R1: 12/3,0mm



## **Order data**

Order number	220296 12/3,0
GTIN	4034221143211
Item class	26X

## Description

#### Version:

For **general-purpose use** in steel materials and high-alloy steels, especially stainless steel. With **cylindrical core** for optimum tool stiffness when milling slots. Reliable processes guaranteed when ramping and during circular interpolation milling thanks to **special end face geometry. Note:** 

#### For **HB** use order **No. 220297**.

Tool arbor with the SAFE-LOCK pull-out protection can be found under clamping technology.

## **Technical description**

Corner radius R <sub>1</sub>	3 mm	
Flute length L <sub>c</sub>	26 mm	
Recess Ø D <sub>1</sub>	11.4 mm	
Shank	DIN 6535 HA to h6	
No. of teeth Z	4	
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.078 mm	
Cutting edge $Ø D_c$	12 mm	
Overhang length L <sub>1</sub> incl. recess	36.5 mm	
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.066 mm	
Shank Ø D <sub>s</sub>	12 mm	
Helix angle	32 degrees	

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Overall length L	84 mm	
Coating	AlTiN	
Tool material	Solid carbide	
Standard	DIN 6527	
Туре	Ν	
Tolerance nominal Ø	f9	
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	Full slot cutting depth 1×D	
Cutting width $a_e$ for milling operation	0.5×D for side milling	
Through-coolant	no	
Machining strategy	y HPC	
Type of product	Torus cutter	

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions		
Aluminium (short chipping)	suitable only under restricted conditions	480 m/min	Ν
Alu > 10% Si	suitable only under restricted conditions	375 m/min	Ν
Steel < 500 N/mm <sup>2</sup>	Suitable		
Steel < 750 N/mm <sup>2</sup>	Suitable		
Steel < 900 N/mm <sup>2</sup>	Suitable		
Steel < 1100 N/mm <sup>2</sup>	Suitable		
INOX < 900 N/mm <sup>2</sup>	Suitable		
INOX > 900 N/mm <sup>2</sup>	Suitable		

# Data sheet

Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	
GG(G)	suitable only under restricted conditions	
Uni	Suitable	
Oil	Suitable	
wet maximum	suitable	
wet minimum	Suitable	
dry	Suitable	
Air	Suitable	