



## HAIMER MILL solid carbide torus cutter, AlTiN, Ø f9 DC / R1: 10/2,0mm



### Order data

Order number	220297 10/2,0
GTIN	2050002068506
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 $R_1$	2 mm
Overall length L	73 mm
Shank	DIN 6535 HB to h6
Shank $\varnothing D_s$	10 mm
Flute length $L_c$	22 mm
Cutting edge $\varnothing D_c$	10 mm
No. of teeth Z	4
Overhang length $L_1$ incl. recess	30.5 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.055 mm
Recess $\varnothing D_1$	9.5 mm
Helix angle	32 degrees

Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.065 mm
Coating	AlTiN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Tolerance nominal $\varnothing$	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	0.05×D for side milling
Cutting width $a_e$ for milling operation	0.5×D for side milling
Through-coolant	no
Machining strategy	HPC
Type of product	Torus cutter

## User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable only under restricted conditions		
Aluminium (short chipping)	suitable only under restricted conditions		
Alu > 10% Si	suitable only under restricted conditions		
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		

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