

HAIMER MILL end mill SAFE-LOCK, AlTiN, Ø f9 DC: 12mm



Order data

Order number	220288 12		
GTIN	4034221104311		
Item class	26X		

Description

Version:

With SAFE-LOCK pull-out protection to provide an additional form fit for the tool. In conjunction with SAFE-LOCK tool holders, it secures the tool to prevent it being pulled out.

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

Note:

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

Technical description

Feed f_z for slot milling in steel < 900 N/mm ²	0.066 mm		
Flute length L _c	26 mm		
Direction of infeed	horizontal, oblique and vertical		
Overhang length L₁ incl. recess	36.5 mm		
Feed f_z for side milling in steel < 900 N/mm ²	0.078 mm		
Helix angle	32 degrees		
Overall length L	84 mm		
No. of teeth Z	4		
Shank Ø D₅	12 mm		
Shank	Safe-Lock h6		

Tolerance nominal Ø	f8		
Corner chamfer width at 45°	0.24 mm		
Corner chamfer angle	45 degrees		
Cutting edge Ø D _c	12 mm		
Recess Ø D ₁	11.4 mm		
Coating	AlTiN		
Tool material	Solid carbide		
Standard	DIN 6527		
Туре	N		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
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	HPC		
Colour ring	without		
Type of product	End / face mill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Alu plastics	suitable only under restricted conditions	480 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	480 m/min	N
Alu > 10% Si	suitable only under restricted conditions	350 m/min	N
Steel < 500 N/mm ²	suitable	275 m/min	Р
Steel < 750 N/mm ²	suitable	255 m/min	Р
Steel < 900 N/mm ²	suitable	210 m/min	Р
Steel < 1100 N/mm ²	suitable	190 m/min	Р

INOX < 900 N/mm ²	suitable	95 m/min	M
INOX > 900 N/mm ²	suitable	75 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	35 m/min	S
GG(G)	suitable only under restricted conditions	155 m/min	K
Uni	suitable		
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		
dry	suitable		
Air	suitable		