

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



### **Order data**

Order number	220290 12
GTIN	4034221136978
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**

ed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup> 0.066 mm		
Shank Ø D <sub>s</sub>	12 mm	
Recess Ø D <sub>1</sub>	11.4 mm	
Cutting edge Ø D <sub>c</sub>	12 mm	
Flute length L <sub>c</sub>	26 mm	
Overall length L	84 mm	
Corner chamfer angle	90 degrees	
Shank	Safe-Lock h6	
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.078 mm	
Tolerance nominal Ø	f8	



No. of teeth Z	4		
Overhang length L <sub>1</sub> incl. recess	36.5 mm		
Helix angle	32 degrees		
Direction of infeed	horizontal, oblique and vertical		
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 <sub>e</sub> for milling operation	ling operation 0.5×D for side milling		
Cutting width a <sub>e</sub> for milling operation	Full slot cutting depth 1×D		
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 <sup>2</sup>	suitable	275 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	255 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	210 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	190 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	95 m/min	M

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