

HAIMER MILL end mill SAFE-LOCK, AlTiN, Ø f9 DC: 20mm



Order data

Order number	220294 20		
GTIN	4034221167354		
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 side milling in steel < 900 N/mm ²	0.13 mm	
Flute length L _c	60 mm	
Corner chamfer angle	45 degrees	
Shank Ø D _s	20 mm	
Overall length L	133 mm	
Corner chamfer width at 45°	0.4 mm	
elix angle 38 degrees		
utting edge Ø D _c 20 mm		
Shank	Safe-Lock h6	
Tolerance nominal Ø	f8	

No. of teeth Z	4		
Direction of infeed	horizontal, oblique and vertical		
Feed f_z for slot milling in steel < 900 N/mm ²	0.11 mm		
Recess Ø D ₁	19 mm		
Overhang length L ₁ incl. recess	80 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	0.05×D for side milling		
Cutting width a _e 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 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		