


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

Order data

Order number	220286 20
GTIN	4034221102867
Item class	26X

Description
Version:

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. For **HB** use order **No. 220287**.

Technical description

Corner chamfer angle	45 degrees
Recess Ø D ₁	19 mm
Direction of infeed	horizontal, oblique and vertical
Flute length L _c	38 mm
Shank	DIN 6535 HA to h6
Helix angle	32 degrees
Feed f _z for slot milling in steel < 900 N/mm ²	0.11 mm
No. of teeth Z	4
Overall length L	105 mm
Tolerance nominal Ø	f8
Overhang length L ₁ incl. recess	52 mm

Corner chamfer width at 45°	0.4 mm
Feed f_z for side milling in steel < 900 N/mm ²	0.13 mm
Shank $\varnothing D_s$	20 mm
Cutting edge $\varnothing D_c$	20 mm
Coating	AlTiN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.5×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	V_c	ISO code
Alu plastics	suitable only under restricted conditions		
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	P
Steel < 750 N/mm ²	suitable	255 m/min	P
Steel < 900 N/mm ²	suitable	210 m/min	P
Steel < 1100 N/mm ²	suitable	190 m/min	P
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		
GG(G)	suitable only under restricted conditions		
Uni	suitable		
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		
dry	suitable		
Air	suitable		