



DUO-LOCK HAIMER MILL HPC, AlTiN, Ø f9 D1: 20mm



Order data

Order number	220316 20
GTIN	4034221103369
Item class	26Y

Description

Version:

DUO-LOCK HAIMER MILL: Can be used as a universal tool. Unique end face geometry for ramping and circular interpolation milling. First choice for applications with short overhangs.

DUO-LOCK HAIMER MILL Power Series: First choice for applications with long overhangs and unstable clamping conditions. For particularly smooth running on long overhangs it is preferable to use solid carbide extensions.

Note:

Standard application values for slots milled from solid at $a_{pmax} \leq 0.5 \times D$.

Technical description

Cutter Ø D	20 mm
DUO-LOCK interface	DL20
Tolerance nominal Ø	f8
Feed f_z for slot milling in steel < 900 N/mm ²	0.05 mm
Corner chamfer angle	45 degrees
recommended tightening torque	80 Nm
Ø D ₂	19.3 mm
Overhang L ₁	15 mm

Overall length L	25 mm
Width across flats AF	16 mm
Flute length L ₂	15 mm
Corner chamfer width at 45°	0.4 mm
Feed f _z for side milling in steel < 900 N/mm ²	0.09 mm
Number of cutting edges Z	4
Coating	AlTiN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Spacing of the cutters	unequal spacing
Helix angle	32 degrees
Helix angle characteristic	unequal spacing
Direction of infeed	horizontal, oblique and vertical
Cutting width a _e for milling operation	Full slot cutting depth 1×D
Cutting width a _e for milling operation	0.05×D for side milling
Machining strategy	HPC
Through-coolant	no
suitable arbor	with threaded shank
Type of product	Cutter insert for milling

User data

	Suitability	V _c	ISO code
Alu plastics	suitable only under restricted conditions	700 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	700 m/min	N
Alu > 10% Si	suitable only under restricted conditions	235 m/min	N
Steel < 500 N/mm ²	suitable	220 m/min	P

Steel < 750 N/mm ²	suitable	180 m/min	P
Steel < 900 N/mm ²	suitable	160 m/min	P
Steel < 1100 N/mm ²	suitable	120 m/min	P
INOX < 900 N/mm ²	suitable only under restricted conditions	80 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	60 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	30 m/min	S
GG(G)	suitable only under restricted conditions	130 m/min	K
Uni	suitable		
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		
dry	suitable		
Air	suitable		