

Garant

End mill HSS-PM, TiAlN, Ø k10 DC: 20mm



Order data

Order number	191581 20
GTIN	4045197973825
Item class	11W

Description

Version:

Multi-flute end mill, for highest metal removal rate demands. Centre cutting edge geometry for plunging. **Eccentric relief ground**. For peripheral milling as a finishing operation, **producing very high surface finish quality**.

Advantage:

Excellent results when **milling dry**.

Technical description

Direction of infeed	horizontal, oblique and vertical
No. of teeth Z	4
Overall length L	104 mm
Corner chamfer width at 45°	0.3 mm
Flute length L _c	38 mm
Shank Ø D _s	20 mm
Helix angle	50 degrees
Cutting edge Ø D _c	20 mm
Overhang length L ₁ incl. recess	54 mm
Feed f _z for slot milling in steel < 750 N/mm ²	0.076 mm
Recess Ø D ₁	19.5 mm
Shank	DIN 1835 B to h6

Tolerance nominal Ø	k10
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844 B
Type	N
Through-coolant	no
Colour ring	without
Type of product	End / face mill

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	138 m/min	N
Alu > 10% Si	suitable only under restricted conditions	110 m/min	N
Steel < 500 N/mm ²	suitable	83 m/min	P
Steel < 750 N/mm ²	suitable	64 m/min	P
Steel < 900 N/mm ²	suitable	64 m/min	P
Steel < 1100 N/mm ²	suitable	37 m/min	P
Steel < 1400 N/mm ²	suitable only under restricted conditions	32 m/min	P
INOX < 900 N/mm ²	suitable	23 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	18 m/min	M
GG(G)	suitable only under restricted conditions	55 m/min	K
CuZn	suitable only under restricted conditions	110 m/min	N
Uni	suitable		
wet maximum	suitable		

dry	suitable
Air	suitable