

## Garant

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



#### 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**.

Through-coolant: no

Tolerance nominal Ø: k10

No. of teeth Z: 4

Helix angle: 50 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 4

Flute length  $L_c$ : 38 mm

Overhang length  $L_1$  incl. recess: 54 mm

Recess Ø  $D_1$ : 19.5 mm

Overall length L: 104 mm

Shank Ø  $D_s$ : 20 mm

#### 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 $\varnothing D_s$	20 mm
Helix angle	50 degrees
Cutting edge $\varnothing D_c$	20 mm
Overhang length $L_1$ incl. recess	54 mm
Feed $f_z$ for slot milling in steel $< 750 \text{ N/mm}^2$	0.076 mm
Recess $\varnothing D_1$	19.5 mm
Shank	DIN 1835 B to h6
Tolerance nominal $\varnothing$	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 mill