

**Garant**
**Roughing end mill HSS-PM, TiAlN, Ø DC: 9 mm**

**Order data**

Order number	192645 9
GTIN	4045197107237
Item class	11W

**Description**
**Version:**
**With relief ground knuckle form profile.**

Up to size 20 with end cutting teeth profile for plunging.

The wide teeth lands permit multiple re-grinding without losing the profile.

**HSS-PM** – For highest demands on metal removal rates.

Sizes 6M to 25M – **MID mills:** dimensions to **factory standard, which is between DIN 844 stub and DIN 844 long.**

Through-coolant: no

Tolerance nominal Ø: js12

No. of teeth Z: 4

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 4

Flute length  $L_c$ : 19 mm

Overall length L: 69 mm

Shank Ø  $D_s$ : 10 mm

Corner chamfer width at 45°: 0.4 mm

Feed  $f_z$  for slot milling in steel < 750 N/mm<sup>2</sup>: 0.025 mm

**Technical description**

Feed $f_z$ for slot milling in steel < 750 N/mm <sup>2</sup>	0.025 mm
Cutting edge Ø $D_c$	9 mm
No. of teeth Z	4

Corner chamfer width at 45°	0.4 mm
Shank Ø D <sub>s</sub>	10 mm
Overall length L	69 mm
Flute length L <sub>c</sub>	19 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal Ø	js12
Helix angle	30 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844 B
Milling profile	NR
Through-coolant	no
Colour ring	without
Type of product	End mill