

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

**Order data**

Order number	192840 9
GTIN	4045197108050
Item class	11W

**Description**
**Version:**
**Relief ground fine pitch knuckle form profile.**

Centre cutting teeth for plunging.

Through-coolant: no

Tolerance nominal Ø: ±0.12

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°: 0.3 mm

Feed  $f_z$  for slot milling in steel < 900 N/mm<sup>2</sup>: 0.014 mm

**Technical description**

Cutting edge Ø $D_c$	9 mm
No. of teeth Z	4
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.014 mm
Corner chamfer width at 45°	0.3 mm
Shank Ø $D_s$	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	±0.12
Helix angle	30 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS Co 8
Standard	DIN 844
Milling profile	HR
Through-coolant	no
Colour ring	green
Type of product	End mill