

**Garant**
**Roughing end mill, TiAlN, Ø DC: 11 mm**

**Order data**

Order number	192840 11
GTIN	4045197108074
Item class	11W

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

Centre cutting teeth for plunging.

Through-coolant: no

Tolerance nominal Ø:  $\pm 0.12$

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  $L_c$ : 22 mm

Overall length L: 79 mm

Shank Ø  $D_s$ : 12 mm

Corner chamfer width at 45°: 0.3 mm

Feed  $f_z$  for slot milling in steel < 900 N/mm<sup>2</sup>: 0.018 mm

**Technical description**

Corner chamfer width at 45°	0.3 mm
No. of teeth Z	4
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.018 mm
Cutting edge Ø $D_c$	11 mm
Shank Ø $D_s$	12 mm
Overall length L	79 mm

Flute length L <sub>c</sub>	22 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