

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

**Order data**

Order number	192860 11
GTIN	4045197108456
Item class	11W

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

Centre cutting teeth for plunging.

Size 6M to 25M – **MID mills:** Dimensions to **manufacturer's standard**, which is **between** DIN 844 **stub** and DIN 844 **long**.

Through-coolant: no

Tolerance nominal Ø: ±0.12

No. of teeth Z: 5

Helix angle: 30 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 5

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>: 0.024 mm

**Technical description**

No. of teeth Z	5
Cutting edge Ø $D_c$	11 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.024 mm
Corner chamfer width at 45°	0.3 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 PM
Standard	DIN 844
Milling profile	HR
Through-coolant	no
Colour ring	green
Type of product	End mill