

**Garant**
**Roughing end mill HSS-PM, TiAlN, Ø js14 DC: 14 mm**

**Order data**

Order number	192541 14
GTIN	4045197547552
Item class	11W

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

Centre cutting teeth for plunging.

- **Wide, precision ground chip flutes.**
- **Special chip angle for aluminium and non-ferrous metals.**

For the most demanding metal removal rates.

**Advantage:**

Suitable **for high machining volumes** due to the large flutes.

Through-coolant: no

Tolerance nominal Ø: js14

No. of teeth Z: 3

Helix angle: 36 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 3

Flute length  $L_c$ : 53 mm

Overall length L: 110 mm

Shank Ø  $D_s$ : 12 mm

Corner chamfer width at 45°: 0.7 mm

Feed  $f_z$  for slot milling in short-chipping aluminium: 0.055 mm

**Technical description**

Corner chamfer width at 45°	0.7 mm
Feed $f_z$ for slot milling in short-chipping aluminium	0.055 mm
Cutting edge Ø $D_c$	14 mm

No. of teeth Z	3
Shank $\varnothing D_s$	12 mm
Overall length L	110 mm
Flute length $L_c$	53 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal $\varnothing$	js14
Helix angle	36 degrees
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844 B
Milling profile	WR
Through-coolant	no
Colour ring	yellow
Type of product	End mill