

**Garant**
**Roughing end mill HSS-PM, TiAlN, Ø DC: 16/4 mm**

**Order data**

Order number	192860 16/4
GTIN	4045197108548
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  $\varnothing$ :  $\pm 0.12$

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  $L_c$ : 32 mm

Overhang length  $L_1$  incl. recess: 43 mm

Recess  $\varnothing D_1$ : 15.5 mm

Overall length L: 92 mm

Shank  $\varnothing D_s$ : 16 mm

**Technical description**

Overhang length $L_1$ incl. recess	43 mm
Recess $\varnothing D_1$	15.5 mm
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.041 mm
Corner chamfer width at $45^\circ$	0.3 mm
No. of teeth Z	4

Cutting edge $\varnothing D_c$	16 mm
Shank $\varnothing D_s$	16 mm
Overall length L	92 mm
Flute length $L_c$	32 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal $\varnothing$	$\pm 0.12$
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