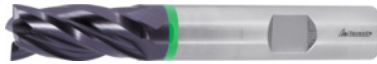


**Garant**
**End mill HSS-E-SPM HPC, TiAlN, Ø DC: 25 mm**

**Order data**

Order number	191635 25
GTIN	4045197547231
Item class	11W

**Description**
**Version:**

Special **SPM** substrate with very high cobalt content.

Combines the **hardness of solid carbide** and the **toughness of PM steel**.

Multi-flute end mill with universal geometry.

Can be used as a finishing end mill, semi-roughing or roughing end mill.

Tolerance nominal Ø: k12

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  $L_c$ : 45 mm

Overall length L: 121 mm

Shank Ø  $D_s$ : 25 mm

Feed  $f_z$  for side milling in steel < 1100 N/mm<sup>2</sup>: 0.08 mm

**Technical description**

No. of teeth Z	4
Feed $f_z$ for side milling in steel < 1100 N/mm <sup>2</sup>	0.08 mm
Cutting edge Ø $D_c$	25 mm
Shank Ø $D_s$	25 mm
Overall length L	121 mm
Flute length $L_c$	45 mm

Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal $\varnothing$	k12
Helix angle	30 degrees
Corner chamfer angle	90 degrees
Coating	TiAlN
Tool material	HSS E SPM
Standard	DIN 844 B
Type	N
Helix angle characteristic	unequal spacing
Cutting width $a_e$ for milling operation	0.5×D for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill