

**Garant**
**End mill HSS-PM, TiAlN, Ø k10 DC: 12M mm**

**Order data**

Order number	191520 12M
GTIN	4045197103222
Item class	11W

**Description**
**Version:**

Multi-flute end mill. **Eccentric relief ground.**

For the highest demands in respect to material removal rates.

**Excellent results** when **milling dry.**

Size 6M–25M **MID mills:**

Dimensions to **manufacturer's standard**, which lies **between** DIN 844 **short** and DIN 844 **long**.

**Particularly suitable** for **mould** and **tool making**, as the **medium length** provides higher **rigidity** than long series mills to DIN 844.

Through-coolant: no

Tolerance nominal Ø: k10

No. of teeth Z: 4

Helix angle: 30-40 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 4

Flute length  $L_c$ : 40 mm

Overall length L: 97 mm

Shank Ø  $D_s$ : 12 mm

Feed  $f_z$  for slot milling in steel < 750 N/mm<sup>2</sup>: 0.028 mm

**Technical description**

No. of teeth Z	4
Cutting edge Ø $D_c$	12 mm
Feed $f_z$ for slot milling in steel < 750 N/mm <sup>2</sup>	0.028 mm

Shank $\varnothing D_s$	12 mm
Overall length L	97 mm
Flute length $L_c$	40 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal $\varnothing$	k10
Helix angle	30-40 degrees
Corner chamfer angle	90 degrees
Coating	TiAlN
Tool material	HSS PM
Standard	DIN 844 B
Type	N
Through-coolant	no
Colour ring	without
Type of product	End mill