

**Garant**
**Semi-roughing end mill, uncoated, Ø k10 DC: 12 mm**

**Order data**

Order number	191700 12
GTIN	4045197104618
Item class	11W

**Description**
**Version:**
**Relief ground truncated-type roughing profile.**

Centre cutting teeth for plunging.

The wide tooth lands can be re-ground frequently without losing the profile.

Universal cutter for profile milling or for plunging.

**Advantage:**

Compared to multi-flute cutters, **better chip evacuation due to larger flutes.**

Through-coolant: no

Tolerance nominal Ø: k10

No. of teeth Z: 3

Helix angle: 25 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°: 0.5 mm

Feed  $f_z$  for slot milling in steel < 750 N/mm<sup>2</sup>: 0.04 mm

**Technical description**

Feed $f_z$ for slot milling in steel < 750 N/mm <sup>2</sup>	0.04 mm
No. of teeth Z	3
Corner chamfer width at 45°	0.5 mm
Cutting edge Ø $D_c$	12 mm

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 $\varnothing$	k10
Helix angle	25 degrees
Corner chamfer angle	45 degrees
Coating	uncoated
Tool material	HSS Co 8
Standard	DIN 844 B
Milling profile	NF
Through-coolant	no
Colour ring	without
Type of product	End mill