

**Garant**
**Semi-roughing end mill, uncoated, Ø k12 DC: 22 mm**

**Order data**

Order number	191710 22
GTIN	4045197104830
Item class	11W

**Description**
**Version:**
**Relief ground fine pitch semi-roughing profile.**

Through-coolant: no

Tolerance nominal Ø: k12

No. of teeth Z: 5

Helix angle: 27-30 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 1835 B to h6

No. of teeth Z: 5

Flute length  $L_c$ : 38 mm

Overall length L: 104 mm

Shank Ø  $D_s$ : 20 mm

Feed  $f_z$  for slot milling in steel < 750 N/mm<sup>2</sup>: 0.06 mm

**Technical description**

Cutting edge Ø $D_c$	22 mm
Feed $f_z$ for slot milling in steel < 750 N/mm <sup>2</sup>	0.06 mm
No. of teeth Z	5
Shank Ø $D_s$	20 mm
Overall length L	104 mm
Flute length $L_c$	38 mm
Direction of infeed	horizontal and oblique

Shank	DIN 1835 B to h6
Tolerance nominal Ø	k12
Helix angle	27-30 degrees
Corner chamfer angle	90 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