

**Garant**
**Semi-roughing end mill, uncoated, Ø k10 DC: 20 mm**

**Order data**

Order number	191640 20
GTIN	4045197104397
Item class	11W

**Description**
**Version:**
**Universal end mill with relief ground semi-roughing profile.**

Centre cutting teeth for plunging.

**Eccentric relief ground.**

Universal cutting edge geometry.

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  $L_c$ : 38 mm

Overall length L: 104 mm

Shank Ø  $D_s$ : 20 mm

Corner chamfer width at 45°: 0.5 mm

Feed  $f_z$  for slot milling in steel < 750 N/mm<sup>2</sup>: 0.07 mm

**Technical description**

Corner chamfer width at 45°	0.5 mm
Feed $f_z$ for slot milling in steel < 750 N/mm <sup>2</sup>	0.07 mm
Cutting edge Ø $D_c$	20 mm
No. of teeth Z	3
Shank Ø $D_s$	20 mm

Overall length L	104 mm
Flute length L <sub>c</sub>	38 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal Ø	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