

**Garant**
**Roughing end mill HSS-Co8, uncoated, Ø js14 DC: 20 mm**

**Order data**

Order number	192520 20
GTIN	4045197106711
Item class	11W

**Description**
**Version:**
**Relief ground knuckle form profile.**

Centre cutting teeth for plunging.

- **Wide, precision ground chip flutes.**
- **Special chip angle for aluminium and non-ferrous metals.**

**Advantage:**

Suitable **for high machining volumes** due to the large flutes.

Through-coolant: no

Tolerance nominal Ø: js14

No. of teeth Z: 3

Helix angle: 36 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 1835 B to h6

No. of teeth Z: 3

Flute length  $L_c$ : 75 mm

Overall length L: 141 mm

Shank Ø  $D_s$ : 20 mm

Corner chamfer width at 45°: 0.5 mm

Feed  $f_z$  for slot milling in short-chipping aluminium: 0.08 mm

**Technical description**

Corner chamfer width at 45°	0.5 mm
No. of teeth Z	3
Feed $f_z$ for slot milling in short-chipping aluminium	0.08 mm
Cutting edge Ø $D_c$	20 mm

Shank $\varnothing D_s$	20 mm
Overall length L	141 mm
Flute length $L_c$	75 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal $\varnothing$	js14
Helix angle	36 degrees
Corner chamfer angle	45 degrees
Coating	uncoated
Tool material	HSS Co 8
Standard	DIN 844 B
Milling profile	WR
Through-coolant	no
Colour ring	yellow
Type of product	End mill