

**Garant**
**Roughing end mill HSS-Co8, uncoated, Ø js14 DC: 12mm**

**Order data**

Order number	192520 12
GTIN	4045197106674
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.

**Technical description**

Cutting edge Ø D <sub>c</sub>	12 mm
Corner chamfer width at 45°	0.5 mm
Feed f <sub>z</sub> for slot milling in short-chipping aluminium	0.05 mm
No. of teeth Z	3
Shank Ø D <sub>s</sub>	12 mm
Overall length L	110 mm
Flute length L <sub>c</sub>	53 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal Ø	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 / face mill

### User data

	Suitability	$V_c$	ISO code
Alu plastics	suitable	138 m/min	N
Aluminium (short chipping)	suitable	83 m/min	N
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	9 m/min	M
wet maximum	suitable		
dry	suitable only under restricted conditions		