

**Garant**
**High performance end mill, uncoated, Ø js12 DC: 11mm**

**Order data**

Order number	191870 11
GTIN	4045197105721
Item class	11W

**Description**
**Version:**

Multi-flute mills **with ground chip breaker on flutes.**

End cutting teeth for plunging.

Special surface treatment.

**Advantage:**

**Applicable as finishing cutter with particularly high cutting performance.**

**Technical description**

No. of teeth Z	4
Feed $f_z$ for slot milling in steel < 750 N/mm <sup>2</sup>	0.03 mm
Cutting edge Ø $D_c$	11 mm
Shank Ø $D_s$	12 mm
Overall length L	105 mm
Flute length $L_c$	55 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 1835 B to h6
Tolerance nominal Ø	js12
Helix angle	30 degrees
Corner chamfer angle	90 degrees
Coating	uncoated

Tool material	HSS Co 8
Standard	Manufacturer's standard
Milling profile	NF
Through-coolant	no
Colour ring	without
Type of product	End / face mill

### User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	83 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	28 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	23 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	23 m/min	P
GG(G)	suitable only under restricted conditions	23 m/min	K
CuZn	suitable only under restricted conditions	55 m/min	N
Uni	suitable		
wet maximum	suitable		