

**Garant**
**Solid carbide milling cutter, AlCrN, Ø e8 DC: 12mm**

**Order data**

Order number	202293 12
GTIN	4045197931313
Item class	11X

**Description**
**Version:**

Dimensions similar to **DIN 6527**.

Improved coating for general-purpose applications in steel and cast iron.

**Note:**

**Successor product to No. 202320.**

**Technical description**

Cutting edge Ø D <sub>c</sub>	12 mm
Shank	DIN 6535 HB to h6
Feed f <sub>z</sub> for side milling in steel < 750 N/mm <sup>2</sup>	0.1 mm
Feed f <sub>z</sub> for slot milling in steel < 750 N/mm <sup>2</sup>	0.07 mm
Overall length L	83 mm
Overhang length L <sub>1</sub> incl. recess	38 mm
Helix angle	45 degrees
Tolerance nominal Ø	e8
Direction of infeed	horizontal, oblique and vertical
Shank Ø D <sub>s</sub>	12 mm
Flute length L <sub>c</sub>	26 mm
Recess Ø D <sub>1</sub>	11.8 mm
No. of teeth Z	3

Corner chamfer width at 45°	0.1 mm
Shank form	HB
Corner chamfer angle	45 degrees
Coating	AlCrN
Tool material	Solid carbide
Standard	DIN 6527
Type	N
Cutting width $a_e$ for milling operation	0.5×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Colour ring	without
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	280 m/min	N
Alu > 10% Si	suitable only under restricted conditions	200 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	120 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	110 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	100 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	70 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable only under restricted conditions	60 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	70 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	50 m/min	M
GG(G)	suitable	90 m/min	K
Uni	suitable		

wet maximum	suitable
wet minimum	suitable
dry	suitable only under restricted conditions
Air	suitable