

**Garant**
**Solid carbide NC precision spotting drill 90°, uncoated, Ø DC h6: 12mm**

**Order data**

Order number	121019 12
GTIN	4045197647696
Item class	11E

**Description**
**Version:**

**Self-centring** with **1-cutter geometry**, achieves **very high alignment accuracy**.

**Application:**

Point angle **90°** for spot drilling and countersinking in one operation when a drill of smaller Ø is used afterwards.

**Note:**

Use the speed for the actual hole Ø (not generally the speed for the drill outer Ø).

**Maintain a feed rate  $f = 0.015$  mm/rev!**

**Technical description**

Feed $f$ in steel $< 1100$ N/mm <sup>2</sup>	0.015 mm/rev.
Flute length $L_c$	12 mm
Nominal Ø $D_c$	12 mm
Shank tolerance	h6
Shank Ø $D_s$	12 mm
Overall length $L$	70 mm
Shank	DIN 6535 HA to h6
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Tolerance nominal Ø	h6

Point angle	90 degrees
Number of cutting edges Z	1
Through-coolant	no
Colour ring	without
Type of product	Spotting drill

### User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	200 m/min	N
Aluminium (short chipping)	suitable	180 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	80 m/min	P
Oil	suitable		
wet maximum	suitable		
dry	suitable only under restricted conditions		