

**Garant****NC spotting drill HSS-E 90° N, TiAlN, Ø DC h6: 3mm****Order data**

Order number	112020 3
GTIN	4045197001115
Item class	11A

**Description****Version:**≥ Ø 6 mm with **drive flat to DIN 1835-B.**

Precision centred ground point with thin chisel edge - gives easy spot drilling and high accuracy of the centre hole form. Very sturdy due to short flutes.

**Note:**

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

**Technical description**

Nominal Ø D <sub>c</sub>	3 mm
Flute length L <sub>c</sub>	12 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.03 mm/rev.
Shank tolerance	h6
Shank Ø D <sub>s</sub>	3 mm
Overall length L	46 mm
Shank	DIN 1835 B to h6
Coating	TiAlN
Tool material	HSS E
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	h6

Point angle	90 degrees
Number of cutting edges Z	2
Through-coolant	no
Colour ring	without
Type of product	Spotting drill

### User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	87 m/min	N
Aluminium (short chipping)	suitable	56 m/min	N
Alu > 10% Si	suitable only under restricted conditions	50 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	50 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	37 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	31 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	12 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	10 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	15 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	10 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	6 m/min	S
GG(G)	suitable	31 m/min	K
CuZn	suitable	100 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		