

**Garant**
**NC spotting drill HSS-E-PM 90° N, TiAlN, Ø DC h6: 12mm**

**Order data**

Order number	112060 12
GTIN	4045197741547
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.

**High-performance NC spotting drill.**

Tool substrate made of sintered powder metallurgy **for applications** demanding high standards of tool life and accurate centring. Very good wear resistance in stainless steels.

**Note:**

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

**Technical description**

Shank tolerance	h6
Shank Ø D <sub>s</sub>	12 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.06 mm/rev.
Nominal Ø D <sub>c</sub>	12 mm
Overall length L	102 mm
Flute length L <sub>c</sub>	30 mm
Shank	DIN 1835 B to h6
Coating	TiAlN
Tool material	HSS E PM
Standard	Manufacturer's standard

Type	N
Tolerance nominal $\varnothing$	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	$V_c$	ISO code
Alu plastics	suitable	96 m/min	N
Aluminium (short chipping)	suitable	62 m/min	N
Alu > 10% Si	suitable	55 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	55 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	42 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	35 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	14 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	12 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	18 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	13 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	8 m/min	S
GG(G)	suitable	35 m/min	K
CuZn	suitable	112 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		