

## Garant

### Solid carbide stepped drill for tapping holes 90°, TiAlN, for threads: M4



#### Order data

Order number	125100 M4
GTIN	4045197064950
Item class	11E

#### Description

##### Version:

**Drill and counterbore each with its own chip flutes and guide chamfers.** This special design permits frequent regrinding without losing the stepped drill profile. Countersink angle 90°.

##### Advantage:

Precisely aligned **tapping drill hole and countersink** produced **in a single operation**. For tapping drill holes.

No. of teeth Z: 2

Through-coolant: no

Ø D<sub>1</sub> 1st step with chamfer h7: 3.3 mm

Ø D<sub>2</sub> 2nd step with chamfer h7: 6 mm

Step height L<sub>1</sub> 1st step: 11.4 mm

Flute length L<sub>c</sub>: 28 mm

Overall length L: 66 mm

Shank Ø D<sub>s</sub>: 6 mm

#### Technical description

Feed f in steel < 1100 N/mm <sup>2</sup>	0.08 mm/rev.
Ø D <sub>2</sub> 2nd step with chamfer h7	6 mm
Ø D <sub>1</sub> 1st step with chamfer h7	3.3 mm
Flute length L <sub>c</sub>	28 mm
for threads	M4
Shank Ø D <sub>s</sub>	6 mm
Overall length L	66 mm

Through-coolant	no
No. of teeth Z	2
Step height L <sub>1</sub> 1st step	11.4 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	h7
Point angle	140 °
Shank	DIN 6535 HA to h6
Countersink angle	90 °
Shank tolerance	h6
Colour ring	without
Application for type of drilling	for blind hole and through hole
Type of product	Stepped drill

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions	260 m/min	N
Aluminium (short chipping)	suitable	180 m/min	N
Alu > 10% Si	suitable	180 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	90 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	90 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	90 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	60 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	35 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	35 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	30 m/min	M

Ti > 850 N/mm <sup>2</sup>	suitable	25 m/min	S
GG(G)	suitable	110 m/min	K
CuZn	suitable	180 m/min	N
Uni	suitable		
wet maximum	suitable		
dry	suitable only under restricted conditions		