# Garant

Solid carbide short stepped drill 90°, TiAIN, for threads: M12



### **Order data**

Order number	125050 M12
GTIN	4045197064936
Item class	11E

## Description

#### Version:

**Very sturdy** – **step length to DIN 8378. Tight concentricity tolerances** between drill and counterbore Ø guarantee exact alignment.

#### **Application:**

**Particularly suitable for NC machines and automatic machines.** For drilling tapping holes to DIN 336 sheet 1 with 90° countersinking. In the following operation, the tap therefore does not have to cut into the sharp edge of the hole.

Sizes F: Tapping holes for the following fluteless taps.

### **Technical description**

for threads	M12	
Ø $D_2$ 2nd step with chamfer h8	13.5 mm	
Flute length L <sub>c</sub>	60 mm	
Ø D <sub>1</sub> 1st step with chamfer h8	10.2 mm	
Feed f in steel < 1100 N/mm <sup>2</sup>	0.18 mm/rev.	
Shank Ø D <sub>s</sub>	14 mm	
Overall length L	107 mm	
Through-coolant	no	
No. of teeth Z	2	
Step height L <sub>1</sub> 1st step	30 mm	
Coating	TiAIN	

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Tool material	Solid carbide	
Standard	DIN 8378	
Туре	Ν	
Tolerance nominal Ø	h8	
Point angle	140 degrees	
Shank	DIN 6535 HA to h6	
Countersink angle	90 degrees	
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	Ν
Aluminium (short chipping)	suitable	180 m/min	Ν
Alu > 10% Si	suitable	180 m/min	Ν
Steel < 500 N/mm²	suitable	90 m/min	Р
Steel < 750 N/mm²	suitable	90 m/min	Р
Steel < 900 N/mm²	suitable	90 m/min	Р
Steel < 1100 N/mm²	suitable	60 m/min	Р
Steel < 1400 N/mm²	suitable	35 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	35 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	30 m/min	М
Ti > 850 N/mm²	suitable	25 m/min	S
GG(G)	suitable only under restricted conditions	110 m/min	К
CuZn	suitable	180 m/min	Ν

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Uni	suitable	
wet maximum	suitable	
dry	suitable only under restricted conditions	