# Garant

High-precision solid carbide countersink with unequal spacing 90°, TiAlN, External Ø Dc: 31mm



## Order data

Order number	150388 31
GTIN	4045197745620
Item class	11M

### Description

#### Version:

All countersinks have 3 cutting edges. Special geometry with extremely unequal spacing and matching cutting edge preparation. Radially relief ground. Flutes ground from solid. Newly developed **special TiAIN coating** for long service life.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-C. **Advantage:** 

Very smooth cutting throughout the entire countersinking operation. Chatter-free running for perfect results and **optimum tool service life.** 

### **Application:**

High-precision countersinks for production of exactly round 90° countersunk surfaces. Very well suited to virtually all materials. Advantage in comparison to HSS countersinks especially in the field of high-tensile steels and because the working life is several times longer. **Shank tolerance h6** - suitable for mounting in hydraulic chucks or shrink-fit chucks.

## **Technical description**

Number of cutting edges Z	3
External Ø	31 mm
for countersunk screws DIN 7991	M16
Overall length L	71 mm
smallest countersink Ø for holes from	4.2 mm

Shank Ø D <sub>s</sub>	12 mm	
Feed f in steel < 1100 N/mm <sup>2</sup>	0.24 mm/rev.	
Coating	TiAIN	
Countersink tip angle	90 degrees	
Tool material	Solid carbide	
Spacing of the countersink cutting edges	unequal spacing	
Standard	DIN 335 C	
Shank	Plain shank with h6	
Through-coolant	no	
Colour ring	green	
Type of product	Stepped drill and countersink	

# User data

Suitability	V <sub>c</sub>	ISO code
suitable	80 m/min	Ν
suitable	80 m/min	Ν
suitable	60 m/min	Ν
suitable	65 m/min	Р
suitable	60 m/min	Р
suitable	50 m/min	Р
suitable	40 m/min	Р
suitable	10 m/min	Р
suitable	12 m/min	Н
suitable	25 m/min	М
suitable	20 m/min	М
suitable	15 m/min	S
suitable	35 m/min	К
suitable	70 m/min	Ν
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Uni	suitable	
wet maximum	suitable	
wet minimum	suitable	
Air	suitable only under restricted conditions	