# Garant

High-precision countersink with unequal spacing 60°, TiAlN, External Ø Dc: 6,3mm



### Order data

Order number	150815 6,3
GTIN	4045197868053
Item class	11M

### Description

#### Version:

#### High-precision 60° countersink with unequal spacing.

**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.

#### 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 60° countersunk surfaces.

### **Technical description**

smallest countersink Ø for holes from	1.6 mm	
Shank Ø Ds	5 mm	
Feed f in steel < 500 N/mm <sup>2</sup>	0.1 mm/rev.	
Overall length L 45 mm		
External Ø 6.3 mm		
Number of cutting edges Z	3	
Coating	TiAIN	
Countersink tip angle	60 degrees	

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Tool material	HSS	
Spacing of the countersink cutting edges	unequal spacing	
Standard	DIN 334	
Shank	Parallel shank to h9	
Through-coolant	no	
Colour ring	green	
Type of product	Stepped drill and countersink	

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	75 m/min	Ν
Aluminium (short chipping)	suitable	75 m/min	Ν
Alu > 10% Si	suitable	50 m/min	Ν
Steel < 500 N/mm <sup>2</sup>	suitable	65 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	50 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	30 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	18 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	8 m/min	Р
Steel < 55 HRC	suitable only under restricted conditions	8 m/min	н
INOX < 900 N/mm <sup>2</sup>	suitable	16 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	10 m/min	М
Ti > 850 N/mm²	suitable only under restricted conditions	12 m/min	S
GG(G)	suitable	25 m/min	К
CuZn	suitable	60 m/min	Ν
Graphite, GRP, CRP	suitable only under restricted conditions		
Uni	suitable		

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wet maximum	suitable	
dry	suitable only under restricted conditions	