# Garant

# High-precision countersink with unequal spacing 90°, AlTiCN, External Ø Dc: 20,5mm



### Order data

Order number	150389 20,5
GTIN	4062406073336
Item class	11M

## Description

#### Version:

All countersinks have 3 cutting edges, radially relieved.

Flutes are ground from solid.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-C. Special geometry with **unequal spacing** and matching cutting edge preparation.

Newly developed AlTiCN coating especially for stainless steels.

#### Application:

High-precision countersinks for chatter-free production of **precise**, **round 90° countersunk surfaces**.

## **Technical description**

Pre-drill Ø	3.5 mm		
Shank tolerance	h9		
for countersunk screws DIN 7991	M10		
Shank Ø D <sub>s</sub>	10 mm		
External Ø	20.5 mm		
smallest countersink Ø for holes from	3.5 mm		
Overall length L	63 mm		
Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.14 mm/rev.		

Number of cutting edges Z	3		
Coating	Alticn		
Countersink tip angle	90 degrees		
ol material HSS E			
Spacing of the countersink cutting edges	unequal spacing		
Standard	DIN 335 C		
Shank	Parallel shank to h9		
Through-coolant	no		
Colour ring	blue		
Type of product	Stepped drill and countersink		

# User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions	53 m/min	Ν
Aluminium (short chipping)	suitable only under restricted conditions	40 m/min	Ν
Alu > 10% Si	suitable only under restricted conditions	35 m/min	Ν
Steel < 500 N/mm <sup>2</sup>	suitable	55 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	15 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	12 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	18 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	13 m/min	М
Ti > 850 N/mm²	suitable	13 m/min	S
GG(G)	suitable only under restricted conditions	30 m/min	к

CuZn	suitable only under restricted conditions	42 m/min	Ν
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		