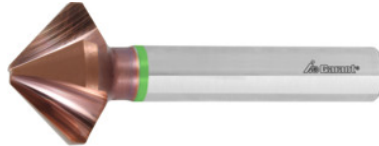


## Garant

**High-precision countersink with unequal spacing and 3 drive flats 90°, TiAlN, External Ø Dc: 16,5 mm**



### Order data

Order number	150132 16,5
GTIN	4045197700773
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 TiAlN coating** for long service life.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-C. Three **drive flats on the shank** for use in a 3-jaw chuck.

#### 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.

Through-coolant: no

Number of cutting edges Z: 3

Number of cutting edges Z: 3

smallest countersink Ø for holes from: 3.2 mm

Overall length L: 60 mm

Shank Ø D<sub>s</sub>: 10 mm

for countersunk screws DIN 7991: M8

Feed f in steel < 500 N/mm<sup>2</sup>: 0.18 mm/rev.

### Technical description

Feed f in steel < 500 N/mm <sup>2</sup>	0.18 mm/rev.
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Shank tolerance	h9
for countersunk screws DIN 7991	M8
smallest countersink $\varnothing$ for holes from	3.2 mm
External $\varnothing$	16.5 mm
Shank $\varnothing D_s$	10 mm
Overall length L	60 mm
Number of cutting edges Z	3
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	DIN 335 C
Shank	Shank with h9 and three drive flats
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink