

**Garant**
**High-precision countersink 90°, TiAlN, External Ø Dc: 16,5 mm**

**Order data**

Order number	150170 16,5
GTIN	4045197085641
Item class	11M

**Description**
**Version:**

**All countersinks have 3 cutting edges**, radially relieved.

Flutes are ground from solid.

Precision countersink for considerable performance improvement.

**Application:**

High precision countersinks for chatter-free countersinking.

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>: 0.14 mm/rev.

**Technical description**

Shank tolerance	h9
Feed f in steel < 500 N/mm <sup>2</sup>	0.14 mm/rev.
for countersunk screws DIN 7991	M8
External Ø	16.5 mm
smallest countersink Ø for holes from	3.2 mm
Shank Ø D <sub>s</sub>	10 mm

Overall length L	60 mm
Number of cutting edges Z	3
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	HSS
Standard	DIN 335 C
Shank	Plain shank with h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink

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## Accessories

Countersink set No. 150170 in a case 90° Number of countersinks 17	150315 17
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