

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

**Order data**

Order number	150150 16,5
GTIN	4045197085535
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.

**Application:**

High precision countersinks for chatter-free countersinking.

Through-coolant: no

Number of cutting edges Z: 3

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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**

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

Overall length L	60 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 °
Tool material	HSS
Standard	DIN 335 C
Shank	Plain shank with h9
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	70 m/min	N
Aluminium (short chipping)	suitable	33 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	28 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	27 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	27 m/min	P
wet maximum	suitable		
dry	suitable only under restricted conditions		