

**Garant**
**High-precision countersink 90°, uncoated, External Ø Dc: 23 mm**

**Order data**

Order number	150150 23
GTIN	4045197085566
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: 3.8 mm

Overall length L: 67 mm

Shank Ø D<sub>s</sub>: 10 mm

for countersunk screws ISO 2009, 2010, 7046, 7047: M12

Feed f in steel < 500 N/mm<sup>2</sup>: 0.16 mm/rev.

**Technical description**

for countersunk screws ISO 2009, 2010, 7046, 7047	M12
smallest countersink Ø for holes from	3.8 mm
Shank tolerance	h9
Feed f in steel < 500 N/mm <sup>2</sup>	0.16 mm/rev.
External Ø	23 mm

Shank $\varnothing D_s$	10 mm
Overall length L	67 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
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