

Garant
Precision countersinks with unequal spacing 90°, TiAlN, External Ø Dc: 23 mm

Order data

Order number	150130 23
GTIN	4045197741882
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.

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

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smallest countersink Ø for holes from: 3.8 mm

Overall length L: 67 mm

Shank Ø D_s: 10 mm

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

Feed f in steel < 500 N/mm²: 0.22 mm/rev.

Technical description

Shank tolerance	h9
Feed f in steel < 500 N/mm ²	0.22 mm/rev.
External Ø	23 mm

smallest countersink \varnothing for holes from	3.8 mm
for countersunk screws ISO 2009, 2010, 7046, 7047	M12
Shank $\varnothing D_s$	10 mm
Overall length L	67 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	Plain shank with h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink