

Garant

High-precision countersink set with 3 drive flats No. 150132 in a case 90°, TiAlN, Number of countersinks: 5

**Order data**

Order number	150307 5
GTIN	4045197700803
Item class	11M

Description**Version:**

Precision countersink 150132. All countersinks **also have 3 drive flats** on the shank for use in a 3-jaw chuck.

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 **precise, round 90° countersunk surfaces**.

Content:

1 pc. each countersink: Sizes 6.3; 10.4; 16.5; 20.5; 25

Supplied with:

5-piece precision countersink set in a **case**.

Technical description

Number of countersinks	5
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
Colour ring	green
Type of product	Stepped drill and countersink

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	75 m/min	N
Aluminium (short chipping)	suitable	75 m/min	N
Alu > 10% Si	suitable	50 m/min	N
Steel < 500 N/mm ²	suitable	65 m/min	P
Steel < 750 N/mm ²	suitable	50 m/min	P
Steel < 900 N/mm ²	suitable	30 m/min	P
Steel < 1100 N/mm ²	suitable	18 m/min	P
Steel < 1400 N/mm ²	suitable	8 m/min	P
Steel < 55 HRC	suitable only under restricted conditions	8 m/min	H
INOX < 900 N/mm ²	suitable	16 m/min	M
INOX > 900 N/mm ²	suitable	10 m/min	M
Ti > 850 N/mm ²	suitable only under restricted conditions	12 m/min	S
GG(G)	suitable	25 m/min	K

CuZn	suitable	60 m/min	N
Graphite, GRP, CRP	suitable only under restricted conditions		
Uni	suitable		
wet maximum	suitable		
dry	suitable only under restricted conditions		

Accessories

High-precision countersink with unequal spacing and 3 drive flats 90° External Ø Dc 6,3 mm	150132 6,3
High-precision countersink with unequal spacing and 3 drive flats 90° External Ø Dc 16,5 mm	150132 16,5
High-precision countersink with unequal spacing and 3 drive flats 90° External Ø Dc 25 mm	150132 25
High-precision countersink with unequal spacing and 3 drive flats 90° External Ø Dc 10,4 mm	150132 10,4
High-precision countersink with unequal spacing and 3 drive flats 90° External Ø Dc 20,5 mm	150132 20,5