

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



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 TiAIN 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.

Technical description

Shank tolerance	h9	
Feed f in steel < 500 N/mm ²	0.22 mm/rev.	
External Ø	23 mm	
smallest countersink Ø for holes from	3.8 mm	
for countersunk screws ISO 2009, 2010, 7046, 7047	M12	
Shank Ø D _s	10 mm	
Overall length L	67 mm	
Number of cutting edges Z	3	

Coating	TiAIN	
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	

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	Р
Steel < 750 N/mm ²	suitable	50 m/min	Р
Steel < 900 N/mm ²	suitable	30 m/min	Р
Steel < 1100 N/mm ²	suitable	18 m/min	Р
Steel < 1400 N/mm ²	suitable	8 m/min	Р
Steel < 55 HRC	suitable only under restricted conditions	8 m/min	Н
INOX < 900 N/mm ²	suitable	16 m/min	M
$INOX > 900 \text{ N/mm}^2$	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	