

High-precision countersink with unequal spacing 90°, AlTiCN, External Ø Dc: 19mm



Order data

Order number	150389 19
GTIN	4062406073329
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. Special geometry with **unequal spacing** and matching cutting edge preparation.

Newly developed AlTiCN coating especially for stainless steels.

Application:

High-precision countersinks for chatter-free production of **precise**, **round 90° countersunk surfaces**.

Technical description

External Ø	19 mm	
smallest countersink Ø for holes from	3.5 mm	
Feed f in stainless steel < 900 N/mm ²	0.12 mm/rev.	
ank tolerance h9		
Pre-drill Ø 3.5 mm		
Number of cutting edges Z	3	
Shank Ø D _s	10 mm	
for countersunk screws ISO 2009, 2010, 7046, 7047	M10	

Overall length L	63 mm		
Coating	AlTiCN		
Countersink tip angle	90 degrees		
Tool material	HSS E		
Spacing of the countersink cutting edges	unequal spacing		
Standard	DIN 335 C		
Shank	Parallel shank to h9		
Through-coolant	no		
Colour ring	blue		
Type of product	Stepped drill and countersink		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Alu plastics	suitable only under restricted conditions	53 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	40 m/min	N
Alu > 10% Si	suitable only under restricted conditions	35 m/min	N
Steel < 500 N/mm ²	suitable	55 m/min	Р
Steel < 750 N/mm ²	suitable	30 m/min	Р
Steel < 900 N/mm ²	suitable	25 m/min	Р
Steel < 1100 N/mm ²	suitable	15 m/min	Р
Steel < 1400 N/mm ²	suitable	12 m/min	Р
INOX < 900 N/mm ²	suitable	18 m/min	M
INOX > 900 N/mm ²	suitable	13 m/min	M
Ti > 850 N/mm ²	suitable	13 m/min	S
GG(G)	suitable only under restricted conditions	30 m/min	К

CuZn	suitable only under restricted conditions	42 m/min	N
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		