

High-precision countersink with unequal spacing and 3 drive flats 90°, AlTiCN, External Ø Dc: 20,5mm



Order data

Order number	150393 20,5		
GTIN	4062406277239		
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.

Three **drive flats on the shank** for use in a 3-jaw chuck.

Application:

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

Technical description

smallest countersink Ø for holes from	3.5 mm	
Shank tolerance	h9	
External Ø 20.5 mm		
Shank Ø D _s	10 mm	
Feed f in stainless steel < 900 N/mm ²	0.14 mm/rev.	
Number of cutting edges Z 3		
for countersunk screws DIN 7991	M10	

Overall length L	63 mm		
Pre-drill Ø	3.5 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	Shank with h9 and three drive flats		
Through-coolant	no		
Colour ring	blue		
Type of product	Stepped drill and countersink		

User data

	Suitability	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/mm²	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		