

## Precision countersink with unequal spacing 90°, TiAlN, External Ø Dc: 10mm



### **Order data**

Order number	150130 10
GTIN	4045197741837
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.

# **Technical description**

Feed f in steel < 500 N/mm <sup>2</sup>	0.13 mm/rev.	
for countersunk screws ISO 2009, 2010, 7046, 7047	M5	
External Ø	10 mm	
smallest countersink Ø for holes from	2.5 mm	
Shank tolerance	h9	
Shank Ø D <sub>s</sub>	6 mm	
Overall length L	50 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	<b>V</b> <sub>c</sub>	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 <sup>2</sup>	suitable	65 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	50 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	30 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	18 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	8 m/min	Р
Steel < 55 HRC	suitable only under restricted conditions	8 m/min	Н
INOX < 900 N/mm <sup>2</sup>	suitable	16 m/min	M
$INOX > 900 \text{ N/mm}^2$	suitable	10 m/min	M
Ti > 850 N/mm <sup>2</sup>	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	