

# High-precision countersink with unequal spacing 60°, TiAlN, External $\varnothing$ Dc: 10mm



### **Order data**

Order number	150815 10
GTIN	4045197868077
Item class	11M

## **Description**

#### **Version:**

High-precision 60° countersink with unequal spacing.

**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.

#### **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 60° countersunk surfaces.

## **Technical description**

External Ø	10 mm	
Feed f in steel < 500 N/mm <sup>2</sup>	0.13 mm/rev.	
Overall length L 50 mm		
smallest countersink Ø for holes from 2.5 mm		
hank Ø D₅ 6 mm		
Number of cutting edges Z	3	
Coating	TiAIN	
Countersink tip angle	60 degrees	

Tool material	HSS	
Spacing of the countersink cutting edges	unequal spacing	
Standard DIN 334		
Shank	Parallel shank to h9	
Through-coolant	no	
Colour ring	green	
Type of product	Stepped drill and countersink	

## **User data**

	Suitability	$\mathbf{V}_{c}$	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 <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