

## Garant

### Solid carbide forward / reverse deburring tool with helix angle, TiSiN, Ø DC: 5mm



#### Order data

Order number	208181 5
GTIN	4067263107446
Item class	11X

#### Description

##### Version:

##### Extra-long shank.

Double ground head with **45° angle**.

The **helix angle ground into the head on both sides** produces a **much softer cut** and thus an **excellent surface quality**. For **universal application** in virtually all materials. The newly developed coating **effectively prevents the formation of built-up edges** – even in aluminium and corrosion-resistant steels (INOX). Pointed version

##### Application:

For **forward** and **reverse deburring** and **chamfering** even where access is difficult.

Particularly suitable for **contouring applications**.

##### Note:

**Successor product to No. 208180.**

#### Technical description

Ø D <sub>1</sub> +0.05	3.9 mm
L <sub>4</sub> +0.5	15 mm
Corner chamfer angle	45 degrees
No. of teeth Z	5
Overall length L	75 mm
Shape	Pointed
Cutting edge Ø D <sub>c</sub>	5 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.035 mm

Shank $\varnothing D_s$	5 mm
$L_2 +0.5$	3 mm
Chamfer mill	backwards and forwards 45
Helix angle	5 degrees
Coating	TiSiN
Tool material	Solid carbide
Standard	Works standard
Type	N
Tolerance nominal $\varnothing$	$\pm 0.05$
Countersink tip angle	90 degrees
Cutting width $a_e$ for milling operation	$0.25 \times L_2$ for side milling
Shank	DIN 6535 HA to h6
Through-coolant	no
Shank tolerance	h6
Colour ring	without
Type of product	Deburrers

## User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable	130 m/min	N
Alu > 10% Si	suitable	80 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	75 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	75 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	50 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	45 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	40 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	30 m/min	M

Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	20 m/min	S
GG(G)	suitable	50 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		