

## Garant

### Solid carbide forward / reverse deburring tool with helix angle, TiSiN, Ø DC: 11,8mm



#### Order data

Order number	208181 11,8
GTIN	4067263107514
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). Flat 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

Corner chamfer angle	45 degrees
Cutting edge Ø D <sub>c</sub>	11.8 mm
Shank Ø D <sub>s</sub>	6 mm
Ø D <sub>1</sub> +0.05	6 mm
No. of teeth Z	5
Shape	Flat
Overall length L	100 mm

Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.055 mm
$L_4 + 0.5$	94 mm
$L_2 + 0.5$	6 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×L2 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 <b>Services</b>	suitable		
Shank grinding Type HB		129100 HB	