

## Garant

### Solid carbide torus cutter R1 0.05, DLC, Ø DC × L1: 0,6X8 mm



#### Order data

Order number	206041 0,6X8
GTIN	4045197913685
Item class	11X

#### Description

##### Version:

With **advanced DLC sp<sup>2</sup> coating**. For the **highest demands regarding performance and precision in aluminium materials**. **Extremely tight tolerances** ensure maximum accuracy. Double-relief ground with 2 chamfers hollow ground.

**Recess angle  $\alpha = 16^\circ$ .**

Tolerances:

- **Corner radius:  $R_1 = \pm 0.0025$  mm.**
- **Neck Ø:  $D_1 = 0 / -0.01$  mm.**

##### Description:

At greater tool overhang lengths, use a reduced value for  $a_p$ !

Values for:

ts\_fraes-kopieren fz for  $a_p = 0.25 \times D$

ts\_fraes-besaeumen fz for  $a_n = 0.50 \times D$

ap max ts\_fraes-kopieren :  $a_p \text{ korr} \times 0.25 \times D$  [mm]

ap max ts\_fraes-besaeumen :  $a_p \text{ korr} \times 0.50 \times D$  [mm]

**To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)!**

e.g:  $vf = 18000$  [rpm]  $\times$  fz [mm/Z]  $\times$  z

##### Note:

At greater tool overhang lengths, use a reduced value for  $a_p$ !

Values for:

slots milled from solid:  $a_p = 0.25 \times D \times a_{p \text{ korr}}$

side milling:  $a_p = 0.50 \times D \times a_{p \text{ korr}}$

copying:  $a_p = 0.25 \times D \times a_{p \text{ korr}}$

**To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)!**

e.g:  $vf = 18000$  [rpm]  $\times$  fz [mm/Z]  $\times$  z

No. of teeth Z: 2

Helix angle: 25 degrees  
 Shank: DIN 6535 HA to h5  
 No. of teeth Z: 2  
 Flute length  $L_c$ : 0.6 mm  
 Corner radius  $R_1$ : 0.05 mm  
 Overhang length  $L_1$  incl. recess: 8 mm  
 Recess  $\varnothing D_1$ : 0.58 mm  
 Overall length L: 50 mm

## Technical description

Overall length L	50 mm
Flute length $L_c$	0.6 mm
Cutting edge $\varnothing D_c$	0.6 mm
Shank	DIN 6535 HA to h5
Feed $f_z$ for side milling in cast aluminium	0.016 mm
Corner radius $R_1$	0.05 mm
No. of teeth Z	2
Recess $\varnothing D_1$	0.58 mm
Overhang length $L_1$ incl. recess	8 mm
Feed $f_z$ for copy milling in cast aluminium	0.016 mm
Shank $\varnothing D_s$	4 mm
Helix angle	25 degrees
Correction factor $a_{p,corr}$	0.35
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal $\varnothing$	0 / -0.005
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.5×D for side milling
Cutting width $a_e$ for milling operation	0.05×D for copy milling
Through-coolant	no

Colour ring	yellow
Type of product	End mill