

**Garant**
**Solid carbide torus cutter R1 0.3, Diamond, Ø DC × L1: 1,2X15 mm**

**Order data**

Order number	209726 1,2X15
GTIN	4045197919038
Item class	11Y

**Description**
**Version:**

With **crystalline diamond sp<sup>3</sup> coating**. For the **highest demands regarding performance and precision** in fibre-reinforced composites, CRP, GRP, and graphite. **Extremely tight tolerances** ensure maximum accuracy. Double relief ground with 2 hollow-ground chamfers. **Recess angle  $\alpha = 16^\circ$** .

Tolerances:

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

**Note:**

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

Values for:

copying:  $a_p = 0.10 \times D \times a_{p, \text{korr}}$

side milling:  $a_p = 0.20 \times D \times a_{p, \text{korr}}$

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

e.g.  $vf = 18000$  [rpm] ×  $fz$  [mm/Z] ×  $z$

No. of teeth  $Z$ : 2

Helix angle: 30 degrees

Shank: DIN 6535 HA to h5

No. of teeth  $Z$ : 2

Flute length  $L_c$ : 1.2 mm

Corner radius  $R_1$ : 0.3 mm

Overhang length  $L_1$  incl. recess: 15 mm

Recess Ø  $D_1$ : 1.14 mm

Overall length  $L$ : 60 mm

**Technical description**

Feed $f_z$ for side milling in graphite	0.025 mm
Corner radius $R_1$	0.3 mm
Cutting edge $\varnothing D_c$	1.2 mm
Feed $f_z$ for copy milling in graphite	0.025 mm
Overall length L	60 mm
Overhang length $L_1$ incl. recess	15 mm
No. of teeth Z	2
Shank $\varnothing D_s$	4 mm
Recess $\varnothing D_1$	1.14 mm
Flute length $L_c$	1.2 mm
Shank	DIN 6535 HA to h5
Helix angle	30 degrees
Correction factor $a_{p\text{ corr}}$	0.35
Coating	Diamond
Tool material	Solid carbide
Standard	Manufacturer's standard
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	black
Type of product	End mill