

**Garant**
**Solid carbide torus cutter, DLC, Ø e8 DC / R1: 16/1,0mm**

**Order data**

Order number	206065 16/1,0
GTIN	4062406074760
Item class	11X

**Description**
**Version:**

Tolerance:  $R_1 = \pm 0.01 \text{ mm}$ .

With the latest generation of **DLC coating sp<sup>2</sup>**.

With **double relief ground side clearance angle and corner radius**.

**High strength** due to **strengthened core**.

**Technical description**

Shank Ø D <sub>s</sub>	16 mm
No. of teeth Z	2
Flute length L <sub>c</sub>	16 mm
Helix angle	30 degrees
Feed f <sub>z</sub> for copy milling in short-chipping aluminium	0.1 mm
Feed f <sub>z</sub> for side milling in short-chipping aluminium	0.09 mm
Overall length L	92 mm
Cutting edge Ø D <sub>c</sub>	16 mm
Recess Ø D <sub>1</sub>	15 mm
Overhang length L <sub>1</sub> incl. recess	44 mm
Corner radius R <sub>1</sub>	1 mm
Shank	DIN 6535 HA to h6
Coating	DLC

Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal $\varnothing$	e8
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.05×D for copy milling
Cutting width $a_e$ for milling operation	0.5×D for side milling
Through-coolant	no
Shank tolerance	h6
Colour ring	yellow
Type of product	Torus cutter

## User data

	Suitability	$V_c$	ISO code
Aluminium	Suitable	330 m/min	N
Aluminium (short chipping)	suitable	300 m/min	N
Alu > 10% Si	suitable	230 m/min	N
PMMA acrylic	Suitable	200 m/min	N
PE-HD	Suitable	160 m/min	N
PA 66	Suitable	200 m/min	N
PEEK	Suitable	150 m/min	N
PF 31	Suitable	130 m/min	N
PVDF GF20	Suitable	180 m/min	N
POM GF25	Suitable	160 m/min	N
PA 66 GF30	Suitable	150 m/min	N
PEEK GF30	Suitable	130 m/min	N
PTFE CF25	Suitable	160 m/min	N

Honeycomb sandwich	suitable only under restricted conditions	300 m/min	N
Cu	Suitable	100 m/min	N
CuZn	Suitable	120 m/min	N
wet maximum	suitable		
wet minimum	Suitable		
dry	suitable only under restricted conditions		
<del>Air</del> <b>Services</b>	Suitable		
Shank grinding Type HB		129100 HB	