

## Garant

### Solid carbide torus cutter, DLC, Ø e8 DC / R1: 12/1,5mm



#### Order data

Order number	206071 12/1,5
GTIN	4045197766489
Item class	11X

#### Description

##### Version:

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

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

**High stability** due to **strengthened core**.

Tolerance: **R<sub>1</sub> = ±0.01 mm**.

#### Technical description

Flute length L <sub>c</sub>	12 mm
Overhang length L <sub>1</sub> incl. recess	75 mm
Recess Ø D <sub>1</sub>	11 mm
Feed f <sub>z</sub> for copy milling in short-chipping aluminium	0.079 mm
Overall length L	120 mm
Corner radius R <sub>1</sub>	1.5 mm
Shank Ø D <sub>s</sub>	12 mm
Feed f <sub>z</sub> for side milling in short-chipping aluminium	0.07 mm
Cutting edge Ø D <sub>c</sub>	12 mm
No. of teeth Z	2
Shank	DIN 6535 HA to h6
Helix angle	30 degrees
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	0.1×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	Torus cutter

## User data

	Suitability	$V_c$	ISO code
Aluminium	Suitable	200 m/min	N
Aluminium (short chipping)	suitable	160 m/min	N
Alu > 10% Si	suitable	120 m/min	N
PMMA acrylic	Suitable	150 m/min	N
PE-HD	Suitable	100 m/min	N
PA 66	Suitable	120 m/min	N
PEEK	Suitable	100 m/min	N
PF 31	Suitable	90 m/min	N
PVDF GF20	Suitable	110 m/min	N
POM GF25	Suitable	100 m/min	N
PA 66 GF30	Suitable	90 m/min	N
PEEK GF30	Suitable	90 m/min	N
PTFE CF25	Suitable	100 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