

Garant
Solid carbide torus cutter, DLC, Ø e8 DC / R1: 12/4,0mm

Order data

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|--------------|---------------|
| Order number | 206065 12/4,0 |
| GTIN | 4045197766335 |
| Item class | 11X |

Description
Version:

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

With the latest generation of **DLC coating sp²**.

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

High strength due to **strengthened core**.

Technical description

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|---|-------------------|
| Shank Ø D_s | 12 mm |
| No. of teeth Z | 2 |
| Flute length L_c | 12 mm |
| Corner radius R_1 | 4 mm |
| Cutting edge Ø D_c | 12 mm |
| Overall length L | 83 mm |
| Recess Ø D_1 | 11 mm |
| Feed f_z for side milling in short-chipping aluminium | 0.07 mm |
| Feed f_z for copy milling in short-chipping aluminium | 0.079 mm |
| Overhang length L_1 incl. recess | 38 mm |
| Shank | DIN 6535 HA to h6 |
| Helix angle | 30 degrees |
| Coating | DLC |

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|---|----------------------------------|
| 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 |

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|-----------------------------------|---|-----------|---|
| 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 | | |
| Air Services | Suitable | | |
| Shank grinding Type HB | | 129100 HB | |