

## Garant

### Solid carbide torus cutter TPC, uncoated, Ø h6 DC / R1: 12/2,0 mm



#### Order data

|              |               |
|--------------|---------------|
| Order number | 206210 12/2,0 |
| GTIN         | 4045197811929 |
| Item class   | 11X           |

#### Description

##### Version:

**Eccentric relief ground**, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium workpieces.

With double chip-breaker for exemplary chip formation.

##### Application:

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

##### Note:

$a_{e\max} = 0.12 \times D$  for TPC machining.

$h_{\max}$ : The values stated in the table are maximum values.

No. of teeth Z: 3

Helix angle: 45 degrees

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 3

Flute length  $L_c$ : 49 mm

Corner radius  $R_1$ : 2 mm

Overhang length  $L_1$  incl. recess: 60 mm

Recess Ø  $D_1$ : 11 mm

Overall length L: 109 mm

#### Technical description

|                                    |       |
|------------------------------------|-------|
| Flute length $L_c$                 | 49 mm |
| Cutting edge Ø $D_c$               | 12 mm |
| Overhang length $L_1$ incl. recess | 60 mm |
| Recess Ø $D_1$                     | 11 mm |

|  |                                  |
|--|----------------------------------|
| No. of teeth Z   | 3                                |
| Shank $\varnothing D_s$  | 12 mm                            |
| Shank form   | HA                               |
| Overall length L   | 109 mm                           |
| Corner radius $R_1$  | 2 mm                             |
| Average chip thickness $h_{max}$ for TPC milling in short-chipping aluminium | 0.08 mm                          |
| Balance quality with shank   | G 2.5 with HA                    |
| Shank  | DIN 6535 HA to h6                |
| Helix angle  | 45 degrees                       |
| Coating  | uncoated                         |
| Tool material  | Solid carbide                    |
| Standard   | Manufacturer's standard          |
| Type   | W                                |
| Tolerance nominal $\varnothing$  | h6                               |
| Helix angle characteristic   | unequal spacing                  |
| Direction of infeed  | horizontal, oblique and vertical |
| Cutting width $a_e$ for milling operation                                    | $0.12 \times D$                  |
| Through-coolant  | no                               |
| Machining strategy   | TPC                              |
| Colour ring  | yellow                           |
| Type of product  | End mill                         |

## Services

|   |           |
|---|-----------|
| Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 12 mm | SZ2025 12 |
| Shank grinding Type HB  | 129100 HB |