

## Garant

### Solid carbide torus cutter, uncoated, Ø h6 DC / R1: 12/1,0 mm



#### Order data

Order number	206192 12/1,0
GTIN	4045197591869
Item class	11X

#### Description

##### Version:

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

Tolerances:

##### · Corner radius

**$R_1 = 0.5$  tolerance  $\pm 0.02$ .**

**$R_1 > 0.5 - 1.5$  tolerance  $\pm 0.03$ .**

**$R_1 > 1.5$  tolerance  $\pm 0.05$ .**

Dimensions to manufacturer's standard.

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  $L_c$ : 19 mm

Corner radius  $R_1$ : 1 mm

Overhang length  $L_1$  incl. recess: 73 mm

Recess Ø  $D_1$ : 11 mm

Overall length L: 120 mm

#### Technical description

Cutting edge Ø $D_c$	12 mm
Feed $f_z$ for copy milling in short-chipping aluminium	0.08 mm
Overhang length $L_1$ incl. recess	73 mm
Feed $f_z$ for side milling in short-chipping aluminium	0.07 mm

Corner radius $R_1$	1 mm
Recess $\varnothing D_1$	11 mm
No. of teeth $Z$	3
Shank $\varnothing D_s$	12 mm
Flute length $L_c$	19 mm
Overall length $L$	120 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
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	0.3×D for side milling
Through-coolant	no
Shank tolerance	h6
Colour ring	yellow
Type of product	End mill

## Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 12 mm	SZ2025 12
Shank grinding Type HB	129100 HB