

## Garant

### Solid carbide torus cutter, uncoated, Ø h6 DC / R1: 12/3,0 mm



#### Order data

Order number	206190 12/3,0
GTIN	4045197853042
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  $\pm 0.05$ .**

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  $L_c$ : 26 mm

Corner radius  $R_1$ : 3 mm

Overhang length  $L_1$  incl. recess: 36 mm

Recess  $\varnothing D_1$ : 11 mm

Overall length L: 83 mm

#### Technical description

Shank	DIN 6535 HA to h6
Corner radius $R_1$	3 mm
Overall length L	83 mm
Cutting edge $\varnothing D_c$	12 mm

Recess $\varnothing D_1$	11 mm
Flute length $L_c$	26 mm
Feed $f_z$ for copy milling in short-chipping aluminium	0.08 mm
No. of teeth $Z$	3
Feed $f_z$ for side milling in short-chipping aluminium	0.07 mm
Shank $\varnothing D_s$	12 mm
Balance quality with shank	G 2.5 with HA
Overhang length $L_1$ incl. recess	36 mm
Helix angle	45 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	DIN 6527
Type	W
Tolerance nominal $\varnothing$	h6
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	$0.05 \times D$ for copy milling
Cutting width $a_e$ for milling operation	$0.5 \times D$ for side milling
Through-coolant	no
Shank tolerance	h6
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