

## Garant

### Solid carbide milling cutter TPC, uncoated, Ø h6 DC: 12 mm



#### Order data

Order number	202283 12
GTIN	4045197977250
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.

##### Note:

$a_{e\ max} = 0.1 \times D$  for TPC machining.

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

Tolerance nominal Ø: h6

No. of teeth Z: 3

Helix angle: 45 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 3

Flute length  $L_c$ : 61 mm

Overhang length  $L_1$  incl. recess: 72 mm

Recess Ø  $D_1$ : 11 mm

Overall length L: 121 mm

Shank Ø  $D_s$ : 12 mm

#### Technical description

Average chip thickness $h_{max}$ for TPC milling in short-chipping aluminium	0.063 mm
Overall length L	121 mm
Flute length $L_c$	61 mm

Shank	DIN 6535 HA to h6
Balance quality with shank	G 2.5 with HA
Helix angle	45 degrees
Shank form	HA
Tolerance nominal $\varnothing$	h6
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Overhang length $L_1$ incl. recess	72 mm
Direction of infeed	horizontal, oblique and vertical
Recess $\varnothing D_1$	11 mm
No. of teeth Z	3
Corner chamfer width at 45°	0.2 mm
Corner chamfer angle	45 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Helix angle characteristic	unequal spacing
Cutting width $a_e$ for milling operation	0.1×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

