

Garant

Solid carbide torus cutter TPC, DLC, Ø h6 DC / R1: 12/3,0 mm



Order data

Order number	206211 12/3,0
GTIN	4045197812124
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.

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

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 : 3 mm

Overhang length L_1 incl. recess: 60 mm

Recess Ø D_1 : 11 mm

Overall length L: 109 mm

Technical description

Overall length L	109 mm
No. of teeth Z	3
Overhang length L_1 incl. recess	60 mm

Recess $\varnothing D_1$	11 mm
Corner radius R_1	3 mm
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Shank form	HA
Flute length L_c	49 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	DLC
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