

## Garant

### Solid carbide milling cutter TPC, TiAlN, Ø f8 DC: 4 mm



#### Order data

Order number	203102 4
GTIN	4045197814456
Item class	11X

#### Description

##### Version:

High-performance milling cutter with **irregular cutter spacing** and **irregular helical pitch**.  
Optimised bending strength due to the use of ultra-fine grain substrates.  
Offset chip separators.

##### 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: f8

No. of teeth Z: 7

Helix angle: 40 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 7

Flute length  $L_c$ : 11 mm

Overall length L: 57 mm

Shank Ø  $D_s$ : 6 mm

Corner chamfer width at 45°: 0.08 mm

Average chip thickness  $h_{\max}$  for TPC milling in INOX < 900 N/mm<sup>2</sup>: 0.02 mm

#### Technical description

Flute length $L_c$	11 mm
Overall length L	57 mm
Balance quality with shank	G 2.5 with HB

Cutting edge $\varnothing D_c$	4 mm
No. of teeth Z	7
Corner chamfer width at 45°	0.08 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HB to h6
Shank $\varnothing D_s$	6 mm
Tolerance nominal $\varnothing$	f8
Helix angle	40 degrees
Average chip thickness $h_{max}$ for TPC milling in INOX < 900 N/mm <sup>2</sup>	0.02 mm
Corner chamfer angle	45 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.1×D
Through-coolant	no
Machining strategy	TPC
Colour ring	blue
Type of product	End mill