

Garant
Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 4 mm

Order data

Order number	203103 4
GTIN	4045197814548
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:

$a_{e\ max} = 0.07 \times D$ 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 : 16 mm

Overhang length L_1 incl. recess: 23 mm

Recess Ø D_1 : 3.9 mm

Overall length L: 62 mm

Shank Ø D_s : 6 mm

Technical description

Recess Ø D_1	3.9 mm
Overhang length L_1 incl. recess	23 mm
Shank	DIN 6535 HB to h6
Shank Ø D_s	6 mm

Overall length L	62 mm
Cutting edge $\varnothing D_c$	4 mm
Direction of infeed	horizontal and oblique
Balance quality with shank	G 2.5 with HB
Flute length L_c	16 mm
Tolerance nominal \varnothing	f8
Corner chamfer width at 45°	0.08 mm
No. of teeth Z	7
Helix angle	40 degrees
Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm ²	0.018 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	0.07×D
Through-coolant	no
Machining strategy	TPC
Colour ring	blue
Type of product	End mill