

**Garant**
**Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 12 mm**

**Order data**

Order number	203105 12
GTIN	4045197814739
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:**

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

$a_{e,max} = 0.03 \times D$  for TPC machining.

Tolerance nominal  $\varnothing$ : 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  $L_c$ : 60 mm

Overall length L: 112 mm

Shank  $\varnothing D_s$ : 12 mm

Corner chamfer width at 45°: 0.24 mm

Average chip thickness  $h_{max}$  for TPC milling in INOX < 900 N/mm<sup>2</sup>: 0.044 mm

**Technical description**

Shank $\varnothing D_s$	12 mm
Tolerance nominal $\varnothing$	f8
Direction of infeed	horizontal and oblique
Cutting edge $\varnothing D_c$	12 mm

Corner chamfer width at 45°	0.24 mm
Balance quality with shank	G 2.5 with HB
No. of teeth Z	7
Overall length L	112 mm
Shank	DIN 6535 HB to h6
Flute length $L_c$	60 mm
Helix angle	40 degrees
Average chip thickness $h_{max}$ for TPC milling in INOX < 900 N/mm <sup>2</sup>	0.044 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	0.03×D
Through-coolant	no
Machining strategy	TPC
Colour ring	blue
Type of product	End mill

## Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 12 mm

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