

Garant

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



Order data

Order number	203103 12
GTIN	4045197814593
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 : 36 mm

Overhang length L_1 incl. recess: 45 mm

Recess Ø D_1 : 11.8 mm

Overall length L: 93 mm

Shank Ø D_s : 12 mm

Technical description

Flute length L_c	36 mm
Overhang length L_1 incl. recess	45 mm
Shank	DIN 6535 HB to h6
Recess Ø D_1	11.8 mm

Tolerance nominal \varnothing	f8
Cutting edge $\varnothing D_c$	12 mm
Balance quality with shank	G 2.5 with HB
Corner chamfer width at 45°	0.24 mm
Overall length L	93 mm
Shank $\varnothing D_s$	12 mm
No. of teeth Z	7
Direction of infeed	horizontal and oblique
Helix angle	40 degrees
Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm ²	0.06 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

Services

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

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