

Garant

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



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 Ø: f8

No. of teeth Z: 7

Helix angle: 40°

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 Ø D_s : 12 mm

Corner chamfer width at 45°: 0.24 mm

Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm²: 0.044 mm

Technical description

Shank Ø D_s	12 mm
Tolerance nominal Ø	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°
Average chip thickness h_{max} for TPC milling in INOX < 900 N/mm ²	0.044 mm
Corner chamfer angle	45°
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 / face mill

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	270 m/min	P
Steel < 750 N/mm ²	suitable	240 m/min	P
Steel < 900 N/mm ²	suitable	210 m/min	P
Steel < 1100 N/mm ²	suitable	160 m/min	P

INOX < 900 N/mm ²	suitable	200 m/min	M
INOX > 900 N/mm ²	suitable	140 m/min	M
wet maximum	Suitable		
wet minimum	Suitable only under restricted conditions		
Air	suitable		

Services

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

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