



Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 10mm



Order data

Order number	203109 10
GTIN	4062406734954
Item class	12X

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 breakers for controlled chip breaking.**

Note:

h_{max} : The values stated in the table are maximum values. For finishing operations we recommend items No. 204012, 204014 and 204015.

$a_{e\ max} = 0.07 \times D$ for TPC machining.

Tolerance nominal \varnothing : e8

No. of teeth Z: 5

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: 5

Flute length L_c : 30 mm

Overhang length L_1 incl. recess: 35 mm

Recess $\varnothing D_1$: 9.8 mm

Overall length L: 80 mm

Shank $\varnothing D_s$: 10 mm

Technical description

Corner chamfer width at 45°	0.2 mm
Balance quality with shank	G 2.5 with HB

No. of teeth Z	5
Tolerance nominal \varnothing	e8
Helix angle	40°
Overall length L	80 mm
Corner chamfer angle	45°
Shank $\varnothing D_s$	10 mm
Average chip thickness h_{\max} for TPC milling in INOX < 900 N/mm ²	0.051 mm
Flute length L_c	30 mm
Cutting edge $\varnothing D_c$	10 mm
Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	9.8 mm
Overhang length L_1 incl. recess	35 mm
Direction of infeed	horizontal and oblique
Number of chip separators	1
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 / face mill

User data

	Suitability	V_c	ISO code
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Steel < 500 N/mm ²	suitable	380 m/min	P
Steel < 750 N/mm ²	suitable	340 m/min	P
Steel < 900 N/mm ²	suitable	300 m/min	P
Steel < 1100 N/mm ²	suitable	230 m/min	P
INOX < 900 N/mm ²	suitable	240 m/min	M
INOX > 900 N/mm ²	suitable	170 m/min	M
wet maximum	Suitable		
wet minimum	Suitable only under restricted conditions		
Air	suitable		