

Garant
Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 5mm

Order data

Order number	203019 5
GTIN	4045197779007
Item class	11X

Description
Version:

High-performance mills for machining stainless steels, **specially designed for TPC applications**. Strengthened core.

Note:

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

$a_{e max} = 0.08 \times D$ for TPC machining.

NEW GENERATION AVAILABLE!

Recommended successor product is No. 203103

Technical description

Cutting edge Ø D_c	5 mm
Direction of infeed	horizontal and oblique
Balance quality with shank	G 2.5 with HB
Tolerance nominal Ø	f8
Recess Ø D_1	4.8 mm
Corner chamfer width at 45°	0.1 mm
Overhang length L_1 incl. recess	24 mm
Shank	DIN 6535 HB to h6
Flute length L_c	17 mm
No. of teeth Z	5
Shank Ø D_s	6 mm

Overall length L	62 mm
Average chip thickness h_{\max} for TPC milling in INOX < 900 N/mm ²	0.03 mm
Average chip thickness h_{\max} for TPC milling in INOX > 900 N/mm ²	0.025 mm
Helix angle	45 degrees
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	0.08×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	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