

Garant
Solid carbide milling cutter TPC, TiAlN, Ø f8 DC: 4mm

Order data

Order number	203088 4
GTIN	4045197814241
Item class	11X

Description
Version:

High-performance milling cutter specially designed for general-purpose TPC applications. Strengthened core.

Optimised bending strength due to the use of ultra-fine grain substrates.

Note:

$a_{e\max} = 0.1 \times D$ for TPC machining.

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

Technical description

Shank Ø D_s	6 mm
Overall length L	57 mm
Flute length L_c	11 mm
Direction of infeed	horizontal and oblique
Corner chamfer width at 45°	0.08 mm
No. of teeth Z	5
Balance quality with shank	G 2.5 with HB
Cutting edge Ø D_c	4 mm
Average chip thickness h_{\max} for TPC milling in Toolox 44 HRC	0.02 mm
Shank	DIN 6535 HB to h6

Tolerance nominal \varnothing	f8
Helix angle	40 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	$0.1 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	green
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
Steel < 1400 N/mm ²	suitable	150 m/min	P
TOOLOX 33	suitable	60 m/min	H
TOOLOX 44	suitable	40 m/min	H
HARDOX 500 < 1600 N/mm ²	suitable	25 m/min	H
INOX < 900 N/mm ²	suitable	220 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	150 m/min	M

Uni	suitable
wet maximum	Suitable
dry	Suitable only under restricted conditions
Air	suitable