

Garant
Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 6mm

Order data

Order number	203089 6
GTIN	4045197640925
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:

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

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

Tolerance nominal Ø: f8

No. of teeth Z: 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 : 18 mm

Overhang length L_1 incl. recess: 25 mm

Recess Ø D_1 : 5.8 mm

Overall length L: 62 mm

Shank Ø D_s : 6 mm

Technical description

Recess Ø D_1	5.8 mm
Corner chamfer width at 45°	0.12 mm
Overhang length L_1 incl. recess	25 mm

No. of teeth Z	5
Cutting edge $\varnothing D_c$	6 mm
Average chip thickness h_{max} for TPC milling in Toolox 44 HRC	0.032 mm
Shank $\varnothing D_s$	6 mm
Overall length L	62 mm
Flute length L_c	18 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	f8
Balance quality with shank	G 2.5 with HB
Helix angle	40°
Corner chamfer angle	45°
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	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 Services	suitable		

Shank recess Type FRST

209900 FRST