

Garant
Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 20 mm

Order data

Order number	203089 20
GTIN	4045197640970
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 degrees

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 : 60 mm

Overhang length L_1 incl. recess: 70 mm

Recess Ø D_1 : 19.8 mm

Overall length L: 126 mm

Shank Ø D_s : 20 mm

Technical description

Recess Ø D_1	19.8 mm
Corner chamfer width at 45°	0.4 mm
Cutting edge Ø D_c	20 mm
Overhang length L_1 incl. recess	70 mm

No. of teeth Z	5
Average chip thickness h_{max} for TPC milling in Toolox 44 HRC	0.097 mm
Shank $\varnothing D_s$	20 mm
Overall length L	126 mm
Flute length L_c	60 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 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	$0.07 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	green
Type of product	End mill

Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 20 mm	SZ2025 20