

## Garant

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



#### Order data

Order number	203094 20
GTIN	4045197954046
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.

**Chip separator for controlled chip breaking.**

##### Note:

$a_{e\max} = 0.03 \times D$  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  $L_c$ : 100 mm

Overall length L: 160 mm

Shank Ø  $D_s$ : 20 mm

Corner chamfer width at 45°: 0.4 mm

Average chip thickness  $h_{\max}$  for TPC milling in Toolox 44 HRC: 0.07 mm

#### Technical description

Corner chamfer width at 45°	0.4 mm
Tolerance nominal Ø	f8

Average chip thickness $h_{\max}$ for TPC milling in Toolox 44 HRC	0.07 mm
Cutting edge $\varnothing D_c$	20 mm
Shank $\varnothing D_s$	20 mm
Flute length $L_c$	100 mm
Helix angle	40 degrees
Balance quality with shank	G 2.5 with HB
No. of teeth Z	5
Shank	DIN 6535 HB to h6
Direction of infeed	horizontal and oblique
Overall length L	160 mm
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	$0.03 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	green
Type of product	End mill