

Garant
Solid carbide milling cutter with chip separators TPC, TiAlN, Ø f8 DC: 12 mm

Order data

Order number	203083 12
GTIN	4045197609922
Item class	11X

Description
Version:

High-performance miller for machining superalloys, **especially designed for TPC applications.**
Strengthened core.

Note:

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

$a_{e \max} = 0.06 \times D$ for TPC machining.

Tolerance nominal Ø: f8

No. of teeth Z: 5

Helix angle: 45 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 : 36 mm

Overhang length L_1 incl. recess: 45 mm

Recess Ø D_1 : 11.8 mm

Overall length L: 93 mm

Shank Ø D_s : 12 mm

Technical description

Overhang length L_1 incl. recess	45 mm
Cutting edge Ø D_c	12 mm
Average chip thickness h_{\max} for TPC milling in Inconel®	0.06 mm
No. of teeth Z	5

Average chip thickness h_{\max} for TPC milling in titanium > 850 N/mm ²	0.07 mm
Recess $\varnothing D_1$	11.8 mm
Shank $\varnothing D_s$	12 mm
Overall length L	93 mm
Flute length L_c	36 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	45 degrees
Corner rounding r_v	0.3 mm
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	0.06×D
Through-coolant	no
Machining strategy	TPC
Colour ring	pink
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 12 mm	SZ2025 12