

Garant

GARANT Master Titan solid carbide milling cutter with more chip separators TPC, TiAlN, Ø e8 DC: 20mm



Order data

Order number	203123 20
GTIN	4062406120191
Item class	11Z

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.

Application:

Especially for milling **titanium and titanium alloys**.

Note:

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

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

Technical description

Recess Ø D_1	19.8 mm
Shank	DIN 1835 B to h5
Balance quality with shank	G 2.5 with HB
Cutting edge Ø D_c	20 mm
Overall length L	125 mm
Average chip thickness h_{max} for TPC milling in titanium > 850 N/mm ²	0.11 mm
Direction of infeed	horizontal and oblique
Overhang length L_1 incl. recess	70 mm

Flute length L_c	60 mm
No. of teeth Z	6
Tolerance nominal \varnothing	e8
Shank $\varnothing D_s$	20 mm
Helix angle	40 degrees
Corner rounding r_v	0.3 mm
Series	Master Titan
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	$0.06 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	pink
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Ti > 850 N/mm ²	suitable	120 m/min	S
wet maximum	suitable		