

Garant

GARANT Master Alu solid carbide milling cutter with more chip separators TPC, DLC, Ø h6 DC: 20 mm



Order data

Order number	203114 20
GTIN	4062406249687
Item class	11X

Description

Version:

Specially designed for TPC high-performance milling. **Optimised bending strength** due to the use of ultra-fine grain substrates. **1xD** chip separator for controlled chip breaking.

Balanced for very high process reliability and protecting the machine at high speeds.

Application:

Especially for milling **aluminium and non-ferrous metals**.

Note:

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

$ae_{max} = 0.12 \times D$ for TPC machining.

Successor product for No. 202281, 202282.

Tolerance nominal Ø: h6

No. of teeth Z: 5

Helix angle: 38 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 : 82 mm

Overhang length L_1 incl. recess: 100 mm

Recess Ø D_1 : 19 mm

Overall length L: 150 mm

Shank Ø D_s : 20 mm

Technical description

Helix angle	38 degrees
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No. of teeth Z	5
Direction of infeed	horizontal and oblique
Tolerance nominal \varnothing	h6
Average chip thickness h_{\max} for TPC milling in short-chipping aluminium	0.13 mm
Flute length L_c	82 mm
Shank form	HB
Overhang length L_1 incl. recess	100 mm
Shank $\varnothing D_s$	20 mm
Recess $\varnothing D_1$	19 mm
Overall length L	150 mm
Cutting edge $\varnothing D_c$	20 mm
Shank	DIN 6535 HB to h6
Balance quality with shank	G 2.5 with HB
Corner rounding r_v	0.2 mm
Series	GARANT Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	$0.12 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	yellow
Type of product	End mill