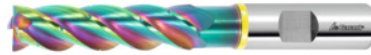


Garant
GARANT Master Alu solid carbide milling cutter with more chip separators
TPC, DLC, Ø h6 DC: 5 mm

Order data

Order number	203114 5
GTIN	4062406249625
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: 4

Helix angle: 38 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 4

Flute length L_c : 21 mm

Overhang length L_1 incl. recess: 30 mm

Recess Ø D_1 : 4.5 mm

Overall length L: 70 mm

Shank Ø D_s : 6 mm

Technical description

Helix angle	38 degrees
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Balance quality with shank	G 2.5 with HA
Overhang length L_1 incl. recess	30 mm
Recess $\varnothing D_1$	4.5 mm
Tolerance nominal \varnothing	h6
Flute length L_c	21 mm
Direction of infeed	horizontal and oblique
Shank form	HA
Shank	DIN 6535 HA to h6
Shank $\varnothing D_s$	6 mm
Cutting edge $\varnothing D_c$	5 mm
No. of teeth Z	4
Overall length L	70 mm
Average chip thickness h_{\max} for TPC milling in short-chipping aluminium	0.032 mm
Corner rounding r_v	0.05 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