

Garant

GARANT Master Alu solid carbide milling cutter with more chip separators TPC, DLC, Ø h6 DC: 12 mm



Order data

Order number	203114 12
GTIN	4062406249663
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 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 4

Flute length L_c : 49 mm

Overhang length L_1 incl. recess: 60 mm

Recess Ø D_1 : 11 mm

Overall length L: 110 mm

Shank Ø D_s : 12 mm

Technical description

Helix angle	38 degrees
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Balance quality with shank	G 2.5 with HB
Overall length L	110 mm
Flute length L_c	49 mm
Cutting edge $\varnothing D_c$	12 mm
Direction of infeed	horizontal and oblique
Average chip thickness h_{max} for TPC milling in short-chipping aluminium	0.078 mm
No. of teeth Z	4
Shank $\varnothing D_s$	12 mm
Overhang length L_1 incl. recess	60 mm
Shank	DIN 6535 HB to h6
Tolerance nominal \varnothing	h6
Recess $\varnothing D_1$	11 mm
Shank form	HB
Corner rounding r_v	0.1 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