

Garant

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



Order data

Order number	203113 12
GTIN	4062406245788
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.

$ae_{max} = 0.15 \times D$ for TPC machining.

Tolerance nominal \varnothing : 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 : 36 mm

Overhang length L_1 incl. recess: 45 mm

Recess $\varnothing D_1$: 11 mm

Overall length L: 93 mm

Shank $\varnothing D_s$: 12 mm

Technical description

Cutting edge $\varnothing D_c$	12 mm
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Balance quality with shank	G 2.5 with HB
Average chip thickness h_{\max} for TPC milling in short-chipping aluminium	0.086 mm
Overhang length L_1 incl. recess	45 mm
Flute length L_c	36 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HB to h6
Helix angle	38 degrees
Overall length L	93 mm
Recess $\varnothing D_1$	11 mm
Shank form	HB
No. of teeth Z	4
Shank $\varnothing D_s$	12 mm
Tolerance nominal \varnothing	h6
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	0.15xD
Through-coolant	no
Machining strategy	TPC
Colour ring	yellow
Type of product	End mill