

## Garant

### GARANT Master Alu solid carbide milling cutter with more chip separators TPC, DLC, Ø h6 DC: 6 mm



#### Order data

Order number	203115 6
GTIN	4062406249700
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.

$ae_{max} = 0.1 \times D$  for TPC machining.

##### Successor product for No. 202283, 202284.

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  $L_c$ : 31 mm

Overhang length  $L_1$  incl. recess: 36 mm

Recess Ø  $D_1$ : 5.5 mm

Overall length L: 75 mm

Shank Ø  $D_s$ : 6 mm

#### Technical description

Shank Ø $D_s$	6 mm
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Cutting edge $\varnothing D_c$	6 mm
Average chip thickness $h_{max}$ for TPC milling in short-chipping aluminium	0.036 mm
Balance quality with shank	G 2.5 with HA
Overhang length $L_1$ incl. recess	36 mm
Tolerance nominal $\varnothing$	h6
Shank form	HA
Recess $\varnothing D_1$	5.5 mm
Flute length $L_c$	31 mm
Overall length $L$	75 mm
Helix angle	38 degrees
Direction of infeed	horizontal and oblique
No. of teeth $Z$	4
Shank	DIN 6535 HA to h6
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	$0.1 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	yellow
Type of product	End mill