

## Garant

### GARANT Master Alu solid carbide milling cutter with more chip separators TPC, DLC, Ø h6 DC: 16 mm



#### Order data

Order number	203114 16
GTIN	4062406249670
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  $L_c$ : 65 mm

Overhang length  $L_1$  incl. recess: 80 mm

Recess Ø  $D_1$ : 15 mm

Overall length L: 130 mm

Shank Ø  $D_s$ : 16 mm

#### Technical description

Cutting edge Ø $D_c$	16 mm
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Average chip thickness $h_{\max}$ for TPC milling in short-chipping aluminium	0.104 mm
Balance quality with shank	G 2.5 with HB
Direction of infeed	horizontal and oblique
Flute length $L_c$	65 mm
Shank form	HB
Recess $\varnothing D_1$	15 mm
Shank	DIN 6535 HB to h6
Tolerance nominal $\varnothing$	h6
No. of teeth Z	5
Helix angle	38 degrees
Overhang length $L_1$ incl. recess	80 mm
Shank $\varnothing D_s$	16 mm
Overall length L	130 mm
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	0.12xD
Through-coolant	no
Machining strategy	TPC
Colour ring	yellow
Type of product	End mill