

## Garant

### GARANT Master Alu SlotMachine solid carbide roughing end mill TPC, DLC, Ø e8 DC: 16 mm



#### Order data

Order number	205276 16
GTIN	4062406581398
Item class	11X

#### Description

##### Version:

For roughing.

Special profile for machining non-ferrous metals. Significant reduction in the chip volume due to targeted chip fragmentation using the **special cutter geometry**.

**Problem-solver for TPC machining.** Ideal for automated production as the risk of chip accumulations in the machine is largely prevented.

##### Note:

Please use tools with HB drive flats for particularly demanding roughing machining tasks. Can be ordered in the Hoffmann Group's e-shop.

$h_{max}$ : The values stated in the table are maximum values.

$ae_{max}$  is  $0.12 \times D$  for TPC machining.

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 35 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 4

Flute length  $L_c$ : 65 mm

Overhang length  $L_1$  incl. recess: 80 mm

Recess Ø  $D_1$ : 19 mm

Overall length L: 130 mm

Shank Ø  $D_s$ : 16 mm

#### Technical description

Direction of infeed	horizontal, oblique and vertical
Recess $\varnothing D_1$	19 mm
Tolerance nominal $\varnothing$	e8
Balance quality with shank	G 2.5 with HB
Overall length L	130 mm
Overhang length $L_1$ incl. recess	80 mm
Shank	DIN 6535 HB to h6
Helix angle	35 degrees
Flute length $L_c$	65 mm
Corner rounding $r_v$	0.32 mm
Shank $\varnothing D_s$	16 mm
Cutting edge $\varnothing D_c$	16 mm
No. of teeth Z	4
Average chip thickness $h_{max}$ for TPC milling in short-chipping aluminium	0.104 mm
Series	GARANT Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	WR
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	$0.12 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

