

## Garant

### GARANT Master Alu SlotMachine solid carbide roughing end mill with through-coolant HPC, DLC, Ø e8 DC: 18 mm



#### Order data

Order number	205255 18
GTIN	4062406122416
Item class	11X

#### Description

##### Version:

For roughing.

Special profile for machining non-ferrous metals.

Improved chip evacuation due to central through-coolant. Due to the patented geometry also suitable for boring.

##### Advantage:

**Optimised flute form, eccentric relief ground, generous chip spaces.**

Up to  $2 \times D$  into solid material at very high feed rates and smooth cutting action.

Ramping capability up to  $45^\circ$ .

Very high feed rates when plunging vertically, thanks to **special plunging geometry**.

Tolerance nominal Ø: e8

No. of teeth Z: 4

Helix angle: 35 degrees

Direction of infeed: horizontal, oblique and vertical

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: 42 mm

Recess Ø  $D_1$ : 17 mm

Overall length L: 92 mm

Shank Ø  $D_s$ : 18 mm

#### Technical description

Feed $f_z$ for side milling in short-chipping aluminium	0.25 mm
Balance quality with shank	G 2.5 with HA
Tolerance nominal $\varnothing$	e8
Overall length L	92 mm
Flute length $L_c$	31 mm
Recess $\varnothing D_1$	17 mm
Direction of infeed	horizontal, oblique and vertical
No. of teeth Z	4
Helix angle	35 degrees
Overhang length $L_1$ incl. recess	42 mm
Shank	DIN 6535 HA to h6
Feed $f_z$ for slot milling in short-chipping aluminium	0.22 mm
Cutting edge $\varnothing D_c$	18 mm
Shank $\varnothing D_s$	18 mm
Corner rounding $r_v$	0.32 mm
Series	GARANT Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	WR
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	yes
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

## Services

Shank grinding Type HB

129100 HB