

## Garant

### GARANT Master Alu SlotMachine solid carbide roughing end mill with through-coolant HPC, DLC, Ø e8 DC: 14 mm



#### Order data

Order number	205256 14
GTIN	4062406276980
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 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 4

Flute length  $L_c$ : 26 mm

Overhang length  $L_1$  incl. recess: 36 mm

Recess Ø  $D_1$ : 13 mm

Overall length L: 83 mm

Shank Ø  $D_s$ : 14 mm

#### Technical description

Cutting edge $\varnothing D_c$	14 mm
Flute length $L_c$	26 mm
Overhang length $L_1$ incl. recess	36 mm
Feed $f_z$ for slot milling in short-chipping aluminium	0.18 mm
Balance quality with shank	G 2.5 with HB
Feed $f_z$ for side milling in short-chipping aluminium	0.2 mm
Recess $\varnothing D_1$	13 mm
Helix angle	35 degrees
Overall length $L$	83 mm
Shank $\varnothing D_s$	14 mm
Tolerance nominal $\varnothing$	e8
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
No. of teeth $Z$	4
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