

## Garant

### **GARANT Master Alu PickPocket solid carbide roughing end mill with through-coolant HPC, DLC, Ø e8 DC: 20 mm**



#### Order data

Order number	202015 20
GTIN	4062406380991
Item class	11X

#### Description

##### Version:

For roughing and finishing.

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

Very high feed rates when plunging vertically.

Ramping capability up to 45°.

Improved chip evacuation due to central through-coolant.

With the latest generation of DLC coating sp<sup>2</sup>.

##### Advantage:

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

##### Note:

A minimum oversize of 0.1×D must be maintained for subsequent finishing operations.

Tolerance nominal Ø: e8

No. of teeth Z: 3

Helix angle: 42 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: 3

Flute length L<sub>c</sub>: 41 mm

Overhang length L<sub>1</sub> incl. recess: 74 mm

Recess Ø D<sub>1</sub>: 19.8 mm

Overall length L: 126 mm

Shank Ø D<sub>s</sub>: 20 mm

#### Technical description

Overall length L	126 mm
Feed $f_z$ for slot milling in short-chipping aluminium	0.2 mm
Shank	DIN 6535 HA to h6
Direction of infeed	horizontal, oblique and vertical
Shank $\varnothing D_s$	20 mm
Balance quality with shank	G 2.5 with HA
Feed $f_z$ for side milling in short-chipping aluminium	0.22 mm
Overhang length $L_1$ incl. recess	74 mm
Flute length $L_c$	41 mm
Cutting edge $\varnothing D_c$	20 mm
Helix angle	42 degrees
Tolerance nominal $\varnothing$	e8
No. of teeth Z	3
Corner rounding $r_v$	0.5 mm
Recess $\varnothing D_1$	19.8 mm
Series	GARANT Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
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