

## Garant

### GARANT Master Alu PickPocket solid carbide roughing end mill HPC, uncoated, Ø e8 DC: 20 mm



#### Order data

Order number	202012 20
GTIN	4062406126339
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°.

##### 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  $L_c$ : 41 mm

Overhang length  $L_1$  incl. recess: 74 mm

Recess Ø  $D_1$ : 19.8 mm

Overall length L: 126 mm

Shank Ø  $D_s$ : 20 mm

#### Technical description

Overhang length $L_1$ incl. recess	74 mm
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Flute length $L_c$	41 mm
Balance quality with shank	G 2.5 with HA
Shank $\varnothing D_s$	20 mm
Tolerance nominal $\varnothing$	e8
Direction of infeed	horizontal, oblique and vertical
Feed $f_z$ for slot milling in short-chipping aluminium	0.2 mm
No. of teeth Z	3
Helix angle	42 degrees
Overall length L	126 mm
Shank	DIN 6535 HA to h6
Feed $f_z$ for side milling in short-chipping aluminium	0.22 mm
Recess $\varnothing D_1$	19.8 mm
Cutting edge $\varnothing D_c$	20 mm
Corner chamfer angle	90 degrees
Series	GARANT Master Alu
Coating	uncoated
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	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

## Services

Shank grinding Type HB

129100 HB