

## Garant

### GARANT Master Alu solid carbide milling cutter, HPC HPC, DLC, Ø e8 DC: 20 mm



#### Order data

Order number	203203 20
GTIN	4062406119911
Item class	11X

#### Description

##### Version:

For finishing operations.  
 Special geometry for optimum chip evacuation.  
 Unequal spacing gives high intrinsic stability and smooth cutting action.  
 For profile milling as a finishing operation.

##### Note:

Order the **uncoated version** using **No. 203207**.

Tolerance nominal Ø: e8

No. of teeth Z: 5

Helix angle: 38 degrees

Direction of infeed: horizontal

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 5

Flute length  $L_c$ : 60 mm

Overhang length  $L_1$  incl. recess: 70 mm

Recess Ø  $D_1$ : 19.5 mm

Overall length L: 125 mm

Shank Ø  $D_s$ : 20 mm

#### Technical description

Feed $f_z$ for side milling in short-chipping aluminium	0.09 mm
Overhang length $L_1$ incl. recess	70 mm

Shank $\varnothing D_s$	20 mm
Cutting edge $\varnothing D_c$	20 mm
Flute length $L_c$	60 mm
Balance quality with shank	G 2.5 with HA
Helix angle	38 degrees
Recess $\varnothing D_1$	19.5 mm
Direction of infeed	horizontal
Tolerance nominal $\varnothing$	e8
Shank	DIN 6535 HA to h6
Overall length L	125 mm
No. of teeth Z	5
Corner chamfer angle	90 degrees
Series	GARANT Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	$0.1 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

## Services

Shank grinding Type HB	129100 HB
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