

Garant**GARANT Master Alu solid carbide milling cutter, HPC HPC, DLC, Ø e8 DC: 12 mm****Order data**

Order number	203203 12
GTIN	4062406119393
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 : 36 mm

Overhang length L_1 incl. recess: 45 mm

Recess Ø D_1 : 11.5 mm

Overall length L: 93 mm

Shank Ø D_s : 12 mm

Technical description

Feed f_z for side milling in short-chipping aluminium	0.07 mm
Balance quality with shank	G 2.5 with HA
Overall length L	93 mm

Direction of infeed	horizontal
Flute length L_c	36 mm
Shank $\varnothing D_s$	12 mm
Cutting edge $\varnothing D_c$	12 mm
Recess $\varnothing D_1$	11.5 mm
Shank	DIN 6535 HA to h6
No. of teeth Z	5
Helix angle	38 degrees
Tolerance nominal \varnothing	e8
Overhang length L_1 incl. recess	45 mm
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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