

Garant
GARANT Master Alu solid carbide milling cutter HPC, DLC, Ø e8 DC: 16mm

Order data

Order number	203205 16
GTIN	4062406120016
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. 203209**.

Tolerance nominal Ø: e8

No. of teeth Z: 5

Helix angle: 38°

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 : 80 mm

Overhang length L_1 incl. recess: 88 mm

Recess Ø D_1 : 15.5 mm

Overall length L: 134 mm

Shank Ø D_s : 16 mm

Technical description

Overhang length L_1 incl. recess	88 mm
Balance quality with shank	G 2.5 with HA
No. of teeth Z	5

Tolerance nominal \varnothing	e8
Overall length L	134 mm
Cutting edge $\varnothing D_c$	16 mm
Recess $\varnothing D_1$	15.5 mm
Shank $\varnothing D_s$	16 mm
Flute length L_c	80 mm
Direction of infeed	horizontal
Shank	DIN 6535 HA to h6
Feed f_z for side milling in short-chipping aluminium	0.06 mm
Helix angle	38°
Corner chamfer angle	90°
Series	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	0.05×D for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Aluminium	Suitable	500 m/min	N
Aluminium (short chipping)	suitable	450 m/min	N
Alu > 10% Si	suitable	400 m/min	N

PMMA acrylic	Suitable	180 m/min	N
PE-HD	Suitable	140 m/min	N
PA 66	Suitable	180 m/min	N
PEEK	Suitable	130 m/min	N
PF 31	Suitable	110 m/min	N
PVDF GF20	Suitable	160 m/min	N
POM GF25	Suitable	140 m/min	N
PA 66 GF30	Suitable	140 m/min	N
PEEK GF30	Suitable	120 m/min	N
PTFE CF25	Suitable	140 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	260 m/min	N
Cu	Suitable	140 m/min	N
CuZn	suitable	120 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air	suitable		

Services

Shank grinding Type HB

129100 HB