

Garant**GARANT Master Alu SlotMachine solid carbide roughing end mill HPC / TPC, DLC, Ø h7 DC: 16mm****Order data**

Order number	205283 16
GTIN	4069515040020
Item class	11X

Description**Version:**

For roughing.

Special profile for machining non-ferrous metals. Significant reduction in the chip volume due to targeted chip fragmentation using the **special cutter geometry**.

As a result of the 5 teeth, even higher feed rates are possible. The end face is supported by an additional **stabilising chamfer**, which leads to **smoother operation during helical plunging**.

Note:

Cutting data for TPC machining in the ToolScout.

Technical description

Shank	DIN 6535 HB to h6
Flute length L_c	52 mm
Recess Ø D_1	15 mm
Shank Ø D_s	16 mm
Overall length L	110 mm
Direction of infeed	horizontal, oblique and vertical
Cutting edge Ø D_c	16 mm
Tolerance nominal Ø	h7
Feed f_z for side milling in short-chipping aluminium	0.2 mm
Helix angle	35 degrees

Data sheet

Balance quality with shank	G 2.5 with HB
Corner chamfer width at 45°	0.32 mm
No. of teeth Z	5
Overhang length L ₁ incl. recess	58 mm
Corner chamfer angle	45 degrees
Series	Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Works standard
Milling profile	WR
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a _e for milling operation	0.25×D
Cutting width a _e for milling operation	0.4×D for side milling
Through-coolant	no
Machining strategy	TPC
Machining strategy	HPC
Colour ring	yellow
Type of product	Indexable end mill

User data

	Suitability	V _c	ISO code
Aluminium	suitable	500 m/min	N
Aluminium (short chipping)	suitable	480 m/min	N
Alu > 10% Si	suitable	450 m/min	N
PA 66	suitable only under restricted conditions	120 m/min	N
PEEK	suitable only under restricted conditions	100 m/min	N

Data sheet

Cu	suitable only under restricted conditions	160 m/min	N
CuZn	suitable only under restricted conditions	200 m/min	N
wet maximum	suitable		
Air	suitable		