

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

Order number	205282 16
GTIN	4069515036542
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:

For **HB shanks**: use order **No. 205283**.

HB shanks are available at the same price as HA.

Cutting data for TPC machining in the ToolScout.

Technical description

Shank	DIN 6535 HA to h6
Overall length L	110 mm
No. of teeth Z	5
Corner chamfer width at 45°	0.32 mm
Flute length L _c	52 mm
Balance quality with shank	G 2.5 with HA
Overhang length L ₁ incl. recess	58 mm
Helix angle	35 degrees
Direction of infeed	horizontal, oblique and vertical

Data sheet

Recess $\varnothing D_1$	15 mm
Corner chamfer angle	45 degrees
Cutting edge $\varnothing D_c$	16 mm
Feed f_z for side milling in short-chipping aluminium	0.2 mm
Shank $\varnothing D_s$	16 mm
Tolerance nominal $\varnothing$	h7
Series	Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	WR
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	$0.4 \times D$ for side milling
Cutting width a_e for milling operation	$0.25 \times D$
Through-coolant	no
Machining strategy	HPC
Machining strategy	TPC
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
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		

Suitable products

<https://www.hoffmann-group.com/GB/en/hom/p/205282-16>