

Garant
GARANT Master Alu SlotMachine solid carbide roughing end mill HPC, DLC, Ø e8 DC: 6mm

Order data

Order number	205275 6
GTIN	4062406381318
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**.

Problem-solver for TPC machining. Ideal for automated production as the risk of chip accumulations in the machine is largely prevented.

Note:

Please use tools with HB drive flats for particularly demanding roughing machining tasks. Can be ordered in the Hoffmann Group's e-shop.

For **HB shanks** use order **no. 205277**.

HB shanks are available at the same price as HA.

h_{max} : The values stated in the table are maximum values.

ae_{max} is $0.1 \times D$ for TPC machining.

Tolerance nominal Ø: e8

No. of teeth Z: 3

Helix angle: 35°

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 3

Flute length L_c : 31 mm

Overhang length L_1 incl. recess: 36 mm

Recess Ø D_1 : 5.7 mm

Overall length L: 75 mm

Shank Ø D_s : 6 mm

Technical description

Shank	DIN 6535 HA to h6
Cutting edge $\varnothing D_c$	6 mm
Overhang length L_1 incl. recess	36 mm
Balance quality with shank	G 2.5 with HA
Average chip thickness h_{max} for TPC milling in short-chipping aluminium	0.036 mm
Recess $\varnothing D_1$	5.7 mm
Shank $\varnothing D_s$	6 mm
Helix angle	35°
Overall length L	75 mm
No. of teeth Z	3
Corner rounding r_v	0.2 mm
Flute length L_c	31 mm
Direction of infeed	horizontal, oblique and vertical
Tolerance nominal \varnothing	e8
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	0.1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Aluminium	Suitable	360 m/min	N
Aluminium (short chipping)	suitable	320 m/min	N
Alu > 10% Si	Suitable	300 m/min	N
PA 66	suitable only under restricted conditions	100 m/min	N
PEEK	suitable only under restricted conditions	80 m/min	N
Cu	Suitable	130 m/min	N
CuZn	Suitable	160 m/min	N
wet maximum	Suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	Suitable		