

Garant
GARANT Master Alu solid carbide slot drill HPC, uncoated, Ø e8 DC: 5Mmm

Order data

Order number	201070 5M
GTIN	4062406186258
Item class	11Z

Description
Version:

Precision balanced tools, ideally suited for use on **high-speed spindles**. Special geometry for optimum chip evacuation thanks to **newly developed balancing process**.

Very smooth cutting action for **outstanding surface quality**.

Technical description

Helix angle	30 degrees
Feed f_z for side milling in short-chipping aluminium	0.07 mm
Balance quality with shank	G 1.8 with HA
Overhang length L_1 incl. recess	21 mm
Overall length L	55 mm
Feed f_z for slot milling in short-chipping aluminium	0.05 mm
No. of teeth Z	1
Shank	Plain shank
Direction of infeed	horizontal, oblique and vertical
Shank $\varnothing D_s$	6 mm
Cutting edge $\varnothing D_c$	5 mm
Recess $\varnothing D_1$	4.8 mm
Flute length L_c	16 mm

Tolerance nominal \varnothing	e8
Corner chamfer angle	90 degrees
Series	Master Alu
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	180 m/min	N
Aluminium (short chipping)	suitable	140 m/min	N
Alu > 10% Si	Suitable	105 m/min	N
PMMA acrylic	Suitable	180 m/min	N
PE-HD	Suitable	130 m/min	N
PA 66	Suitable	150 m/min	N
PEEK	Suitable	130 m/min	N
PF 31	Suitable	110 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	180 m/min	N
Cu	Suitable	140 m/min	N
CuZn	Suitable	180 m/min	N

wet maximum	suitable
wet minimum	suitable only under restricted conditions
dry	suitable only under restricted conditions
Air	suitable only under restricted conditions
Services	
Shank grinding Type HB	129100 HB