

Garant
GARANT Master Alu solid carbide slot drill HPC, DLC, Ø e8 DC: 2Mmm

Order data

Order number	201075 2M
GTIN	4062406186449
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

Flute length L_c	5 mm
Shank	Plain shank
Cutting edge $\varnothing D_c$	2 mm
Shank $\varnothing D_s$	6 mm
Tolerance nominal \varnothing	e8
Overall length L	50 mm
Feed f_z for slot milling in short-chipping aluminium	0.02 mm
Balance quality with shank	G 1.8 with HA
No. of teeth Z	1
Feed f_z for side milling in short-chipping aluminium	0.04 mm
Helix angle	30 degrees
Direction of infeed	horizontal, oblique and vertical
Corner chamfer angle	90 degrees

Series	Master Alu
Coating	DLC
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	480 m/min	N
Aluminium (short chipping)	suitable	440 m/min	N
Alu > 10% Si	suitable	400 m/min	N
PMMA acrylic	Suitable	200 m/min	N
PE-HD	Suitable	160 m/min	N
PA 66	Suitable	200 m/min	N
PEEK	Suitable	150 m/min	N
PF 31	Suitable	130 m/min	N
PVDF GF20	Suitable	180 m/min	N
POM GF25	Suitable	160 m/min	N
PA 66 GF30	Suitable	150 m/min	N
PEEK GF30	Suitable	130 m/min	N
PTFE CF25	Suitable	160 m/min	N

Honeycomb sandwich	suitable only under restricted conditions	300 m/min	N
Cu	Suitable	160 m/min	N
CuZn	Suitable	200 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	Suitable		
Services			
Shank grinding Type HB		129100 HB	