Garant

GARANT Master Alu solid carbide slot drill HPC, DLC, ∅ e8 DC: 6Emm

Order data

Order number	201075 6E
GTIN	4062406186524
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

Cutting edge ∅ D_C	6 mm
Recess ∅ D_1	5.5 mm
Shank ∅ D_s	6 mm
Shank	Plain shank
Feed f_z for slot milling in short-chipping aluminium	0.06 mm
No. of teeth Z	1
Balance quality with shank	G 1.8 with HA
Tolerance nominal ∅	e8
Overall length L	50 mm
Flute length L_c	11 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	30 degrees
Feed f_z for side milling in short-chipping aluminium	0.08 mm

Overhang length L_1 incl. recess	17 mm
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×D
Cutting width a_e for milling operation	Full slot cutting depth 1×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