

Garant
GARANT Master Alu solid carbide slot drill HPC, uncoated, Ø e8 DC: 12Lmm

Order data

Order number	201070 12L
GTIN	4062406186432
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 Ø D _c	12 mm
No. of teeth Z	1
Shank	Plain shank
Shank Ø D _s	12 mm
Flute length L _c	32 mm
Recess Ø D ₁	11 mm
Helix angle	30 degrees
Balance quality with shank	G 1.8 with HA
Feed f _z for side milling in short-chipping aluminium	0.12 mm
Feed f _z for slot milling in short-chipping aluminium	0.1 mm
Direction of infeed	horizontal, oblique and vertical
Overhang length L ₁ incl. recess	42 mm
Tolerance nominal Ø	e8

Overall length L	70 mm
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