

Garant
GARANT Master Alu SlotMachine solid carbide torus cutter HPC / TPC, DLC, Ø e8 DC / R1: 12/3,0mm

Order data

Order number	206258 12/3,0
GTIN	4062406398354
Item class	11X

Description
Version:

Eccentric relief ground, additionally polish ground in the flutes for outstanding chip evacuation in long-chipping non-ferrous materials.

With a new knurled profile, optimised for higher feed rates. Tremendous bending strength due to the use of an innovative micrograin substrate.

Technical description

Overhang length L_1 incl. recess	60 mm
Corner radius R_1	3 mm
Overall length L	100 mm
Shank Ø D_s	12 mm
No. of teeth Z	3
Flute length L_c	49 mm
Shank	DIN 6535 HA to h6
Recess Ø D_1	11 mm
Balance quality with shank	G 2.5 with HA
Feed f_z for side milling in short-chipping aluminium	0.15 mm
Cutting edge Ø D_c	12 mm
Feed f_z for slot milling in short-chipping aluminium	0.13 mm

Series	Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	WR
Tolerance nominal \varnothing	e8
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Direction of infeed	horizontal, oblique and vertical
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	$0.3 \times D$ for side milling
Through-coolant	no
Machining strategy	TPC
Machining strategy	HPC
Colour ring	yellow
Type of product	Torus cutter

User data

	Suitability	V_c	ISO code
Aluminium	Suitable	450 m/min	N
Aluminium (short chipping)	suitable	400 m/min	N
Alu > 10% Si	suitable	380 m/min	N
PA 66	suitable only under restricted conditions	120 m/min	N
PEEK	suitable only under restricted conditions	100 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