

Garant

GARANT Master Alu solid carbide high-performance reamer HPC through hole, DLC, Nominal Ø DC: 12mm



Order data

Order number	164400 12
GTIN	4062406283780
Item class	10P

Description

Version:

Special HPC reamers of the latest generation, **for machining aluminium**, with improved tooth geometry and further developed carbide substrate. Extra-short teeth for increased cutting performance values. Optimised cooling strategy with radially arranged coolant outlets aligned directly to the teeth. **Version suitable for NC** with straight shank Ø for standard arbors especially in **hydraulic chucks** or **high precision collet chucks**. Very high concentricity and process reliability due to unequal spacing of the teeth and special profile of the round chamfer width.

Version with DLC sp² coating.

Tolerance specifications:

Configurable: Reamers finish ground to match your specification.

H7: Version to DIN1420 for H7 bore tolerance.

Application:

Special version for through holes.

Technical description

Flute length L _c	12 mm
Overhang L ₁	75 mm
Series	Master Alu
Overall length L	120 mm
Number of cutting edges Z	6
Tolerance	configurable

Ø range	11.701 - 12.2 mm
Shank Ø D _s	12 mm
Feed f in cast alu	2.1 mm/rev.
Nominal Ø D _c	12 mm
Reaming oversize in diameter	0.2 mm
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Through-coolant	yes, with 25 bar
Shank	DIN 6535 HA with h6
Machining strategy	HPC
Application for type of drilling	for through holes
Colour ring	yellow
Type of product	Phillips bit

User data

	Suitability	V _c	ISO code
Aluminium	suitable	250 m/min	N
Aluminium (short chipping)	suitable	250 m/min	N
Alu > 10% Si	suitable	250 m/min	N
wet maximum	suitable		
wet minimum	suitable		