

GARANT Master TM solid carbide single profile thread mill 3×D, AlTiN, M: M5



Order data

Order number	139625 M5		
GTIN	4067263139973		
Item class	11D		

Description

Version:

Solid carbide thread milling cutters with irregular cutting edge spacing and an increased number of cutting edges. Due to the irregular cutting edge spacing they achieve very smooth cutting action and long tool life. Newly developed universal geometry and high-performance coating for use across a wide spectrum of materials.

- · Significantly reduced vibration due to irregular cutting edge spacing.
- · Increased number of cutting edges.
- Latest-generation AlTiN-based HIPIMS coating.
- · Corrected thread profile for avoidance of profile distortions.

Axial cooling grooves on the shank.

Advantage:

Significantly **less radial pressure** than with multi-tooth thread mills. The tool can also be used for additional thread profiles (UN; UN-LH) **for various pitches and diameters**. See overview for possible threads.

Note:

HB and HE shanks are available at the same price as HA.

HB shank: order with No. 139625 + 129100 HB. HE shank: order with No. 139625 + 129100 HE.

Technical description

Through-coolant	yes	
Shank Ø D _s	6 mm	
Overall length L	58 mm	
No. of teeth Z	6	

Data sheet

Nominal Ø D _C	3.9 mm		
Shank length L _s	39.5 mm		
Thread pitch range	0.35 - 0.8 mm		
Flute length L _c	1.06 mm		
Overhang L ₁	15.4 mm		
Feed f _z in steel < 1400 N/mm ²	0.03 mm		
Thread depth	15 mm		
Thread size	M5		
Number of clamping slots	6		
Feed f _z in CRP	0.04 mm		
Thread profile	Partial profile		
Coating	AlTiN		
Thread type	M		
Thread type	UN		
Thread type	M-LH		
Thread type	UN-LH		
Flank angle	60 degrees		
Tool material	Solid carbide		
Thread standard	DIN 13		
Shank	DIN 6535 HA to h6		
Application for type of drilling	up to 3×D for through holes		
Application for type of drilling	up to 3×D for blind holes		
Spacing of the cutters	unequal spacing		
Shank tolerance	h6		
Colour ring	green		
Internal/external application	Internal		
Series	Master TM		
Type of product	thread milling cutter		

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	200 m/min	N
Aluminium (short chipping)	suitable	190 m/min	N
Alu > 10% Si	suitable	160 m/min	N
Steel < 500 N/mm ²	suitable	125 m/min	Р
Steel < 750 N/mm ²	suitable	115 m/min	Р
Steel < 900 N/mm²	suitable	110 m/min	Р
Steel < 1100 N/mm²	suitable	80 m/min	Р
Steel < 1400 N/mm ²	suitable	70 m/min	Р
Steel < 55 HRC	suitable	45 m/min	Н
Steel < 60 HRC	suitable only under restricted conditions	35 m/min	Н
INOX < 900 N/mm ²	suitable	75 m/min	М
INOX > 900 N/mm ²	suitable	70 m/min	М
Ti > 850 N/mm ²	suitable	45 m/min	S
CuZn	suitable	175 m/min	N
GRP	suitable	100 m/min	N
CRP	suitable	100 m/min	N
Graphite	suitable	150 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		