

GARANT Master TM solid carbide single profile thread mill 2×D, AlTiN, M: M1,4



Order data

Order number	139620 M1,4	
GTIN	4067263139805	
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.

Parallel coolant channels.

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. **139620 + 129100 HB**. **HE shank:** order with No. **139620 + 129100 HE**.

Technical description

Feed f_z in steel $< 1400 \text{ N/mm}^2$	0.008 mm
Shank length L _s	42 mm
No. of teeth Z	4

Data sheet

Through-coolant	yes		
Thread depth	2.8 mm		
Overall length L	58 mm		
Flute length L _c	0.39 mm		
Feed f _z in CRP	0.004 mm		
Shank Ø D _s	6 mm		
Thread size	M1.4		
Nominal Ø D _c	1.03 mm		
Number of clamping slots	4		
Overhang L ₁	3 mm		
Thread pitch range	0.14 - 0.3 mm		
Thread profile	Partial profile		
Coating	AlTiN		
Thread type	M-LH		
Thread type	M		
Thread type	UN		
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 2×D for blind holes		
Application for type of drilling	up to 2×D for through 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	220 m/min	N
Aluminium (short chipping)	suitable	220 m/min	N
Alu > 10% Si	suitable	180 m/min	N
Steel < 500 N/mm ²	suitable	140 m/min	Р
Steel < 750 N/mm ²	suitable	130 m/min	Р
Steel < 900 N/mm ²	suitable	120 m/min	Р
Steel < 1100 N/mm ²	suitable	90 m/min	Р
Steel < 1400 N/mm ²	suitable	80 m/min	Р
Steel < 55 HRC	suitable	45 m/min	Н
Steel < 60 HRC	suitable	35 m/min	Н
INOX < 900 N/mm ²	suitable	82 m/min	М
INOX > 900 N/mm ²	suitable	75 m/min	М
Ti > 850 N/mm ²	suitable	50 m/min	S
CuZn	suitable	200 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		