

## GARANT Master TM solid carbide three-profile thread mill 3×D, AlTiN, M: M6



### **Order data**

Order number	139630 M6		
GTIN	4067263140061		
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.

#### Note

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

**HB shank:** order with No. **139630** + **129100 HB**. **HE shank:** order with No. **139630** + **129100 HE**.

## **Technical description**

No. of teeth Z	6		
Thread size	M6		
Feed f <sub>z</sub> in steel < 1400 N/mm <sup>2</sup>	0.04 mm		
Shank Ø D <sub>s</sub>	6 mm		
Nominal Ø D <sub>c</sub>	4.7 mm		

# Data sheet

Feed $f_z$ in CRP	0.05 mm		
Shank length L₅	36.9 mm		
Flute length L <sub>c</sub>	3 mm		
Overall length L	58 mm		
Thread pitch	1 mm		
Number of clamping slots	6		
Through-coolant	yes		
Overhang L <sub>1</sub>	18.5 mm		
Thread depth	18 mm		
Thread profile	Full profile		
Coating	AlTiN		
Thread type	M		
Thread type	M-LH		
Thread type	EG-M		
Thread type	EG-M-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 blind holes		
Application for type of drilling	up to 3×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**

# Data sheet

	Suitability	<b>V</b> <sub>c</sub>	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 <sup>2</sup>	suitable	125 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	115 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	110 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	80 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	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 <sup>2</sup>	suitable	75 m/min	М
INOX > 900 N/mm <sup>2</sup>	suitable	70 m/min	М
Ti > 850 N/mm <sup>2</sup>	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		