

## GARANT Master TM plain shank thread mill 2×D, AlTiN, UNF: 1/4-28



### Order data

Order number	139737 1/4-28
GTIN	4067263129158
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 running 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.
- The latest generation of AlTiN-based HiPIMS coating.
- · Corrected thread profile for avoidance of profile distortions.
- · increased number of cutting edges.
- · new coating for optimum wear resistance.

### **Application:**

For **UNF unified fine threads** ASME-B1.1.

#### Note:

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

Order **HB** shank: with **No. 139737 + 129100 HB** Order **HE** shank: with **No. 139737 + 129100 HE** 

# **Technical description**

Shank length L <sub>s</sub>	40.8 mm
Nominal Ø D <sub>c</sub>	5.1 mm
Number of clamping slots	4
Threads per inch	28

Thread size	1/4-28 UNF		
Overall length L	64 mm		
Thread Ø	6.35 mm		
Shank Ø D <sub>s</sub>	6 mm		
Thread type	UNF-LH		
Thread type	UNF		
Feed $f_z$ in steel < 750 N/mm <sup>2</sup>	0.05 mm		
Flute length L <sub>c</sub>	13.12 mm		
No. of teeth Z	4		
Thread pitch	0.907 mm		
Series	Master TM		
Coating	AlTiN		
Flank angle	60 degrees		
Tool material	Solid carbide		
Shank	DIN 6535 HA to h6		
Through-coolant	yes		
Cutting direction	right-hand		
Application for type of drilling	up to 2×D for through holes		
Application for type of drilling	up to 2×D for blind holes		
Spacing of the cutters	unequal spacing		
Shank tolerance	h6		
Colour ring	green		
Internal/external application	Internal		
Type of product	thread milling cutter		

# **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Alu plastics	suitable	220 m/min	N

129100 HB

129100 HE

Shank grinding Type HB

Shank grinding Type HE

Aluminium (short chipping)	suitable	220 m/min	N
Alu > 10% Si	suitable	180 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	140 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	130 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	120 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	80 m/min	Р
Steel < 50 HRC	suitable only under restricted conditions	45 m/min	н
TOOLOX 33	suitable	85 m/min	Н
TOOLOX 44	suitable	50 m/min	Н
INOX < 900 N/mm <sup>2</sup>	suitable	82 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	75 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	50 m/min	S
GG(G)	suitable	120 m/min	K
CuZn	suitable	200 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air Services	<del>suitable</del>		

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