

# GARANT Master TM plain shank thread mill 2.5×D, AlTiN, M: M3



## **Order data**

Order number	139643 M3
GTIN	4067263126737
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.

### Through-coolant feed ≥ M4

#### Note:

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

Order **HB** shank: with **No. 139643 + 129100 HB**.

Order HE shank: with No. 139643 + 129100 HE.

# **Technical description**

No. of teeth Z	4
Shank Ø D <sub>s</sub>	6 mm
Nominal Ø D <sub>c</sub>	2.33 mm
Thread pitch	0.5 mm
Feed $f_z$ in steel < 750 N/mm <sup>2</sup>	0.01 mm
Number of clamping slots	4

Through-coolant	yes	
Flute length L <sub>c</sub>	7.73 mm	
Shank length L <sub>s</sub>	40.25 mm	
Thread depth	6.25 mm	
Thread Ø	3 mm	
Overall length L	58 mm	
Thread size	M3	
Coating	AlTiN	
Thread type	M-LH	
Thread type	M	
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 2.5×D for blind holes	
Application for type of drilling	up to 2.5×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	$\mathbf{V}_{c}$	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 <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
INOX < 900 N/mm <sup>2</sup>	suitable	75 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	70 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	45 m/min	S
GG(G)	suitable	105 m/min	K
CuZn	suitable	175 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air Services	<del>suitable</del>		

Shank grinding Type HB	129100 HB
Shank grinding Type HE	129100 HE