# Garant

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



## Order data

Order number	139641 M3
GTIN	4062406240813
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.
- New coating for optimum wear resistance.
- · 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. 136941 + 129100 HB**. Order **HE** shank: with **No. 136941 + 129100 HE**.

## **Technical description**

Thread Ø	3 mm
Thread size	M3
Thread pitch	0.5 mm
Number of clamping slots	4
Feed f <sub>z</sub> in steel < 750 N/mm <sup>2</sup>	0.01 mm
Thread depth	7.73 mm

Shank length L <sub>s</sub>	36 mm		
No. of teeth Z	4		
Through-coolant	no		
Overall length L	58 mm		
Shank Ø D <sub>s</sub>	6 mm		
Nominal Ø D <sub>c</sub>	2.33 mm		
Flute length L <sub>c</sub>	7.73 mm		
Coating	TiAIN		
Thread type	М		
Thread type	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 2×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	V <sub>c</sub>	ISO code
Alu plastics	suitable	200 m/min	Ν
Aluminium (short chipping)	suitable	190 m/min	Ν
Alu > 10% Si	suitable	160 m/min	Ν

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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/mm²	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	М
INOX > 900 N/mm <sup>2</sup>	suitable	70 m/min	М
Ti > 850 N/mm²	suitable	45 m/min	S
GG(G)	suitable	105 m/min	К
CuZn	suitable	175 m/min	Ν
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air Services	Suitable		

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