

GARANT Master TM plain shank thread mill with countersink 2×D, AlTiN, MF: 5X0,5



Order data

Order number	139686 5X0,5
GTIN	4067263128731
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.

Advantage:

Incorporating a countersink profile for a 90° countersink and thread milling in a single operation.

Note:

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

Order **HB** shank: with **No. 139686 + 129100 HB** Order **HE** shank: with **No. 139686 + 129100 HE**

Technical description

Thread depth	10.25 mm
Thread size	M5×0.5
Shank length L _s	37.1 mm
Through-coolant	yes

Neck Ø D₁	5.75 mm	
No. of teeth Z	4	
Flute length L _c	10.25 mm	
Overall length L	58 mm	
Number of clamping slots	4	
Nominal Ø D _c	4.1 mm	
Shank Ø D _s	6 mm	
Thread pitch	0.5 mm	
Feed f_z in steel < 750 N/mm ²	0.035 mm	
Programming value for countersink L ₁	10.95 mm	
Coating	AlTiN	
Thread type	MF-LH	
Thread type	MF	
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	
Countersink angle	90 degrees	
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

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 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 < 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 ²	suitable	82 m/min	M
INOX > 900 N/mm ²	suitable	75 m/min	M
Ti > 850 N/mm ²	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	suitable		

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