

GARANT Master TM plain shank thread mill with countersink 2×D, AlTiN, MF: 4X0,5



Order data

Order number	139686 4X0,5
GTIN	4067263126782
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 pitch	0.5 mm
Thread depth	8.25 mm
Shank Ø D _s	6 mm
Nominal Ø D _c	3.29 mm

Overall length L	58 mm		
Shank length L _s	38.1 mm		
Programming value for countersink L₁	8.86 mm		
Feed f _z in steel < 750 N/mm ²	0.02 mm		
Neck Ø D ₁	5 mm		
Number of clamping slots	4		
Flute length L _c	8.25 mm		
No. of teeth Z	4		
Thread size	M4×0.5		
Through-coolant	yes		
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	\mathbf{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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