

GARANT Master TM plain shank thread mill 2×D, AlTiN, UNF: 3/4-16



Order data

Order number	139737 3/4-16
GTIN	4067263129226
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

Thread pitch	1.588 mm
Thread size	3/4-16 UNF
Shank length L _s	49 mm
Flute length L _c	38.83 mm

Thread type	UNF-LH	
Thread type	UNF	
Overall length L	102 mm	
Nominal Ø D _c	13.95 mm	
Threads per inch	16	
No. of teeth Z	6	
Feed f_z in steel < 750 N/mm ²	0.13 mm	
Thread Ø	19.05 mm	
Shank Ø D _s	14 mm	
Number of clamping slots	6	
Thread profile	Full profile	
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	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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