Garant

GARANT Master TM plain shank thread mill, AlTiN, NPT: 3/8-18



Order data

Order number	139739 3/8-18
GTIN	4067263129356
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 AITiN-based HiPIMS coating.

· Corrected thread profile for avoidance of profile distortions.

Application:

Tapered pipe threads (NPT) to ANSI B1.20.1, for threads with sealants.

Note:

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

Order **HB** shank: with **No. 139739 + 129100 HB**.

Order HE shank: with No. 139739 + 129100 HE.

Technical description

Thread pitch	1.411 mm
Overall length L	82 mm
Nominal Ø D _c	11.11 mm
No. of teeth Z	б
Number of clamping slots	б

Threads per inch	18	
Thread size	3/8-18 NPT	
Feed f _z in steel < 750 N/mm ²	0.11 mm	
Shank length L_s	55 mm	
Thread Ø	17.06 mm	
Shank Ø D _s	12 mm	
Flute length L _c	13.38 mm	
Series	Master TM	
Coating	AlTiN	
Thread type	NPT	
Flank angle	60 degrees	
Tool material	Solid carbide	
Standard	ANSI B 1.20.1	
Taper ratio	1:16	
Shank	DIN 6535 HA to h6	
Through-coolant	yes	
Application for type of drilling	Blind hole	
Application for type of drilling	Through hole	
Spacing of the cutters	unequal spacing	
Cutting direction	right-hand	
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	Ν

Aluminium (short chipping)	suitable	220 m/min	Ν
Alu > 10% Si	suitable	180 m/min	Ν
Steel < 500 N/mm²	suitable	140 m/min	Р
Steel < 750 N/mm²	suitable	130 m/min	Р
Steel < 900 N/mm²	suitable	120 m/min	Р
Steel < 1100 N/mm²	suitable	90 m/min	Р
Steel < 1400 N/mm²	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	М
INOX > 900 N/mm ²	suitable	75 m/min	М
Ti > 850 N/mm²	suitable	50 m/min	S
GG(G)	suitable	120 m/min	К
CuZn	suitable	200 m/min	Ν
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air Services	suitable		

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