

GARANT Master TM plain shank thread mill, TiAIN, NPT: 1/16-27



Order data

Order number	139729 1/16-27
GTIN	4062406058142
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.

Application:

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

Note

Form HB and HE supplied at the same price as HA.

Form **HB**: order with **No. 139729 + 129100 HB**

Form **HE**: order with **No. 139729 + 129100 HE**

Technical description

Thread pitch	0.941 mm
Overall length L	58 mm
Shank length L₅	36 mm
Thread Ø	7.9 mm
Shank Ø D _s	6 mm

Number of clamping slots	4	
Threads per inch	27	
No. of teeth Z	4	
Feed f _z in steel < 750 N/mm ²	0.08 mm	
Flute length L _c	8.93 mm	
Thread size	1/16-27 NPT	
Nominal Ø D _c	5.39 mm	
Series	Master TM	
Coating	TiAIN	
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 with 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	N

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	Suitable		
Services			

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