

GARANT Master TM plain shank thread mill, AlTiN, G: G1



Order data

Order number	139706 G1
GTIN	4067263128946
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.

Application:

For **Whitworth parallel pipe threads** DIN-ISO 228/1 (threads that do not form a seal within the connections). **Suitable for internal and external threads.**

Note

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

Order HB shank: with No. 139706 + 129100 HB.

Order **HE** shank: with **No. 139706 + 129100 HE**.

Technical description

For use with external threads	up to 1.5 \times D for bolt threads
Thread pitch	2.309 mm
Feed f_z in steel < 750 N/mm ²	0.17 mm
Threads per inch	11

Shank length L₅	50.9 mm	
Number of clamping slots	6	
Application for type of drilling	up to 1.5×D for through holes	
Application for type of drilling	up to 1.5×D for blind holes	
Flute length L _c	51.95 mm	
Thread size	G1	
No. of teeth Z	6	
Series	Master TM	
Shank Ø D _s	20 mm	
Thread depth	51.95 mm	
Nominal Ø D _c	19.95 mm	
Overall length L	120 mm	
Coating	AlTiN	
Thread type	BSP	
Thread type	G	
Flank angle	55 degrees	
Tool material	Solid carbide	
Shank	DIN 6535 HA to h6	
Through-coolant	yes	
Spacing of the cutters	unequal spacing	
Colour ring	green	
Internal/external application	Internal and external	
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	М
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		

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