

Garant
GARANT Master TM plain shank thread mill, AlTiN, G: G1/2

Order data

Order number	139706 G1/2
GTIN	4067263128922
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

Series	Master TM
Shank $\varnothing D_s$	16 mm
Flute length L_c	42.63 mm
Threads per inch	14

Nominal $\varnothing D_c$	15.95 mm
Thread pitch	1.814 mm
No. of teeth Z	6
Overall length L	106 mm
Shank length L_s	48.1 mm
Thread depth	42.63 mm
For use with external threads	up to 2xD for bolt threads
Application for type of drilling	up to 2xD for blind holes
Application for type of drilling	up to 2xD for through holes
Thread size	G1/2
Number of clamping slots	6
Feed f_z in steel < 750 N/mm ²	0.13 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	P
Steel < 750 N/mm ²	suitable	130 m/min	P
Steel < 900 N/mm ²	suitable	120 m/min	P
Steel < 1100 N/mm ²	suitable	90 m/min	P
Steel < 1400 N/mm ²	suitable	80 m/min	P
Steel < 50 HRC	suitable only under restricted conditions	45 m/min	H
TOOLOX 33	suitable	85 m/min	H
TOOLOX 44	suitable	50 m/min	H
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