Garant

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



Order data

Order number	139705 G1
GTIN	4045197957740
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:

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. 139705 + 129100 HB**. Order **HE** shank: with **No. 139705 + 129100 HE**.

Technical description

Thread pitch	2.309 mm
Overall length L	120 mm
Flute length L_c	51.95 mm
Feed f _z in steel < 750 N/mm ²	0.17 mm

Shank Ø D _s	20 mm	
Thread depth	51.95 mm	
Thread size	G1	
Number of clamping slots	6	
Shank length L _s	50 mm	
Threads per inch	11	
No. of teeth Z	6	
Series	Master TM	
Nominal Ø D _c	19.95 mm	
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	
For use with external threads	up to 1.5×D for bolt threads	
Coating	TiAIN	
Thread type	G	
Thread type	G-LH	
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	Ν
Aluminium (short chipping)	suitable	220 m/min	Ν

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Alu > 10% Si	suitable	180 m/min	Ν
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/mm²	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	М
Ti > 850 N/mm ²	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	suitable		
Services			
Chamber with alter a True a LID		120100 UD	

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