

GARANT Master TM solid carbide three-profile thread mill 2×D, AlTiN, G: G1



Order data

Order number	139631 G1		
GTIN	4069515023702		
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 cutting action 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.
- Latest-generation AlTiN-based HIPIMS coating.
- · Corrected thread profile for avoidance of profile distortions.

Advantage:

Significantly less radial pressure than with multi-tooth thread mills. Axial cooling grooves on the shank for optimum chip evacuation.

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.

HB shank: order with No. 139631 + 129100 HB.

HE shank: order with No. **139631** + **129100 HE**. Can also be used for thread size up to \leq G2

Technical description

Thread depth	59.2 mm
Shank Ø D _s	16 mm
Feed f _z in CRP	0.14 mm

Data sheet

F 161	0.10		
Feed f_z in steel < 1400 N/mm ²	0.12 mm		
Thread profile	Full profile		
Overall length L	112 mm		
Nominal Ø D _c	15.95 mm		
No. of teeth Z	6		
Through-coolant	yes		
Shank length L₅	49.6 mm		
Number of clamping slots	6		
Thread size	G1		
Thread pitch	2.309 mm		
Series	Master TM		
Threads per inch	11		
For use with external threads	up to 2×D for bolt threads		
Application for type of drilling	up to 2×D for blind holes		
Application for type of drilling	up to 2×D for through holes		
Flute length L _c	6.93 mm		
Overhang L ₁	59.2 mm		
Coating	AlTiN		
Thread type	BSP		
Thread type	G		
Thread type	EG-G		
Thread type	EG-G-LH		
Flank angle	55 degrees		
Tool material	Solid carbide		
Shank	DIN 6535 HA to h6		
Spacing of the cutters	unequal spacing		
Shank tolerance	h6		
Colour ring	green		
Internal/external application	Internal and external		

Data sheet

Type of product Thread mill

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	200 m/min	N
Aluminium (short chipping)	suitable	190 m/min	N
Alu > 10% Si	suitable	160 m/min	N
Steel < 500 N/mm ²	suitable	125 m/min	Р
Steel < 750 N/mm ²	suitable	115 m/min	Р
Steel < 900 N/mm ²	suitable	110 m/min	Р
Steel < 1100 N/mm ²	suitable	80 m/min	Р
Steel < 1400 N/mm ²	suitable	70 m/min	Р
Steel < 55 HRC	suitable	45 m/min	Н
Steel < 60 HRC	suitable only under restricted conditions	35 m/min	Н
INOX < 900 N/mm ²	suitable	75 m/min	M
INOX > 900 N/mm ²	suitable	70 m/min	M
Ti > 850 N/mm ²	suitable	45 m/min	S
CuZn	suitable	175 m/min	N
GRP	suitable	100 m/min	N
CRP	suitable	100 m/min	N
Graphite	suitable	150 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		

Suitable products

https://www.hoffmann-group.com/GB/en/hom/p/139631-G1

Data sheet