

GARANT Master TM plain shank thread mill 2×D, TiAlN, UNF: 5/8-18



Order data

Order number	139727 5/8-18
GTIN	4062406058098
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.
- · Corrected thread profile for avoidance of profile distortions.
- · increased number of cutting edges.
- · new coating for optimum wear resistance.

Application:

For **UNF unified fine threads** ASME-B1.1.

Note:

Form HB and HE supplied at the same price as HA. Form HB: order with No. 139727 + 129100 HB Form HE: order with No. 139727 + 129100 HE

Thread type: UNF
Thread type: UNF-LH
No. of teeth Z: 6
Threads per inch: 18
Nominal Ø D_c: 11.95 mm
Flute length L_c: 33.09 mm
Shank length L_s: 45 mm
Overall length L: 92 mm
Shank Ø D_s: 12 mm

Technical description

Shank length L _s	45 mm	
Number of clamping slots	6	
Thread type	UNF	
Thread type	UNF-LH	
Threads per inch	18	
Shank Ø D _s	12 mm	
Thread pitch	1.411 mm	
No. of teeth Z	6	
Thread Ø	15.86 mm	
Overall length L	92 mm	
Flute length L _c	33.09 mm	
Feed f_z in steel < 750 N/mm ²	0.11 mm	
Thread size	5/8-18 UNF	
Nominal Ø D _c	11.95 mm	
Series	Master TM	
Coating	TiAIN	
Flank angle	60 °	
Tool material	solid carbide	
Shank	DIN 6535 HA with h6	
Through-coolant	yes	
Cutting direction	right-hand	
Application for type of drilling	up to 2×D for blind holes	
Application for type of drilling	up to 2×D for through holes	
Spacing of the cutters	unequal spacing	
Shank tolerance	h6	
Colour ring	green	
Internal/external application	Internal	
Type of product	thread milling cutter	

User data

	Suitability	\mathbf{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	М
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

