

GARANT Master TM plain shank thread mill with countersink 2×D, TiAIN, UNC: 3/8-16



Order data

Order number	139723 3/8-16
GTIN	4062406058227
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.

Advantage:

Incorporating a countersink profile for a 90° countersink and thread milling in a single operation.

Application:

For **UNC unified coarse threads** ASME-B1.1.

Note:

Form HB and HE supplied at the same price as HA. Form **HB**: order with **No. 139723 + 129100 HB**

Form **HE**: order with **No. 139723 + 129100 HE**

Thread type: UNC
Thread type: UNC-LH
No. of teeth Z: 4
Threads per inch: 16
Nominal \emptyset D_c: 7.5 mm
Flute length L_c: 19.8 mm
Shank length L_s: 45 mm

Overall length L: 82 mm

Shank Ø D_s: 12 mm

Technical description

Number of clamping slots	4	
Threads per inch	16	
Thread pitch	1.587 mm	
Thread Ø	9.53 mm	
Shank length L _s	45 mm	
No. of teeth Z	4	
Shank Ø D _s	12 mm	
Thread type	UNC	
Thread type	UNC-LH	
Overall length L	82 mm	
Flute length L _c	19.8 mm	
Feed f _z in steel < 750 N/mm ²	0.07 mm	
Thread size	3/8-16 UNC	
Nominal Ø D _c	7.5 mm	
Programming value for countersink L₁	21.06 mm	
Neck Ø D ₁	10.1 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	



Countersink angle	90 °	
Shank tolerance	h6	
Colour ring	green	
ternal/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/mm²	Suitable	130 m/min	Р
Steel < 900 N/mm²	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	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 Services	<u>Suitable</u>	
Jei vices		
Shank grinding Type HB		129100 HB
Shank grinding Type HE		129100 HE