

GARANT Master TM plain shank thread mill with countersink 1.5×D, TiAIN, M: M10



Order data

Order number	139656 M10	
GTIN	4062406240967	
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.

Note:

HB and HE shanks are available at the same price as HA.

Order **HB** shank: with **No. 139656 + 129100 HB**. Order **HE** shank: with **No. 139656 + 129100 HE**.

Through-coolant: yes No. of teeth Z: 6 Thread pitch: 1.5 mm Nominal Ø D_c: 8.1 mm Flute length L_c: 15.7 mm

Shank length L; 45 mm Overall length L: 82 mm Shank Ø D_s; 12 mm

Technical description

Thread Ø	10 mm		
Thread size	M10		
Thread pitch	1.5 mm		
Through-coolant	yes		
Overall length L	82 mm		
Feed f_z in steel < 750 N/mm ²	0.075 mm		
Number of clamping slots	6		
Shank Ø D _s	12 mm		
Thread depth	20 mm		
Shank length L _s	45 mm		
No. of teeth Z	6		
Nominal Ø D _c	8.1 mm		
Flute length L_c	15.7 mm		
Programming value for countersink L ₁	16.9 mm		
Neck Ø D ₁	10.5 mm		
Coating	TiAlN		
Thread type	M		
Thread type	M-LH		
Flank angle	60 °		
Tool material	Solid carbide		
Thread standard	DIN 13		
Shank	DIN 6535 HA to h6		
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		
Spacing of the cutters	unequal spacing		
Countersink angle	90°		
Shank tolerance	h6		
Colour ring	green		
Internal/external application	Internal		



Series	Master TM	
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 < 55 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

Data sheet

⚠ Hoffmann Group

Shank grinding Type HE

129100 HE