

GARANT Master TM plain shank thread mill with countersink 2.5 \times D, TiAlN, M: M10



Order data

Order number	139654 M10
GTIN	4045197957856
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. 139654 + 129100 HB.

Order HE shank: with No. 139654 + 129100 HE.

Technical description

Number of clamping slots	6
Through-coolant	yes
Thread pitch	1.5 mm
Shank Ø D _s	12 mm

Overall length L	92 mm		
No. of teeth Z	6		
Feed f _z in steel < 750 N/mm ²	0.075 mm		
Thread depth	26.25 mm		
Shank length L₅	45 mm		
Thread size	M10		
Nominal Ø D _c	8.1 mm		
Flute length L _c	26.25 mm		
Programming value for countersink L₁	27.45 mm		
Neck Ø D ₁	10.5 mm		
Coating	TiAlN		
Thread type	M		
Thread type	M-LH		
Flank angle	60 degrees		
Tool material	Solid carbide		
Thread standard	DIN 13		
Shank	DIN 6535 HA to h6		
Application for type of drilling	up to 2×D for blind holes		
Application for type of drilling	up to 2.5×D for through holes		
Spacing of the cutters	unequal spacing		
Countersink angle	90 degrees		
Shank tolerance	h6		
Colour ring	green		
Internal/external application	Indvendig		
Series	Master TM		
Type of product	thread milling cutter		

User data

Citabilit.	V	ICO codo
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
INOX < 900 N/mm ²	suitable	75 m/min	М
INOX > 900 N/mm ²	suitable	70 m/min	М
Ti > 850 N/mm ²	suitable	45 m/min	S
GG(G)	suitable	105 m/min	K
CuZn	suitable	175 m/min	N
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air Services	<u>suitable</u>		

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