

GARANT Master TM plain shank thread mill with countersink 2.5×D, TiAIN, M: M5



Order data

Order number	139654 M5
GTIN	4045197957825
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	4
Thread depth	13.2 mm
Feed f_z in steel < 750 N/mm ²	0.035 mm
Shank length L _s	36 mm

Through-coolant	yes	
Shank Ø D _s	6 mm	
No. of teeth Z	4	
Overall length L	64 mm	
Thread pitch	0.8 mm	
Thread size	M5	
Nominal Ø D _c	3.9 mm	
Flute length L _c	13.2 mm	
Programming value for countersink L ₁	14 mm	
Neck Ø D₁	5.5 mm	
Coating	TiAIN	
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

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	suitable		

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