

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



Order data

Order number	139664 M5
GTIN	4067263128465
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.
- · Latest-generation AlTiN-based HiPIMS coating.
- · 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. 139664 + 129100 HB**.

Order **HE** shank: with **No. 139664** + **129100 HE**.

Technical description

Thread pitch	0.8 mm
Flute length L _c	13.2 mm
No. of teeth Z	4
Overall length L	64 mm

Thread depth	13.2 mm	
Feed f _z in steel < 750 N/mm ²	0.035 mm	
Number of clamping slots	4	
Nominal Ø D _c	3.9 mm	
Shank length L _s	39.7 mm	
Thread size	M5	
Neck Ø D ₁	5.75 mm	
Through-coolant	yes	
Shank Ø D _s	6 mm	
Programming value for countersink L₁	14 mm	
Thread profile	Full profile	
Coating	AlTiN	
Thread type	M-LH	
Thread type	M	
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	Internal	
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/mm²	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	suitable		

Services

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