

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



Order data

Order number	139664 M10
GTIN	4067263128496
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

Overall length L	92 mm
No. of teeth Z	6
Through-coolant	yes
Programming value for countersink L₁	27.45 mm

Thread pitch	1.5 mm
Shank Ø D _s	12 mm
Number of clamping slots	6
Feed f _z in steel < 750 N/mm ²	0.075 mm
Thread depth	26.25 mm
Thread size	M10
Neck Ø D ₁	11 mm
Flute length L _c	26.25 mm
Nominal Ø D _c	8.1 mm
Shank length L _s	49.4 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