

**Garant****GARANT Master TM plain shank thread mill with countersink 2×D, AlTiN, MF: 8X0,75****Order data**

Order number	139686 8X0,75
GTIN	4067263128755
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.**
- **The latest generation of 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. 139686 + 129100 HB**

Order **HE** shank: with **No. 139686 + 129100 HE**

**Technical description**

Shank length L <sub>s</sub>	43 mm
Thread pitch	0.75 mm
Shank Ø D <sub>s</sub>	10 mm
Number of clamping slots	4

Thread depth	16.13 mm
Flute length $L_c$	16.13 mm
Through-coolant	yes
Neck $\varnothing D_1$	9 mm
Overall length $L$	75 mm
No. of teeth $Z$	4
Programming value for countersink $L_1$	16.98 mm
Feed $f_z$ in steel $< 750 \text{ N/mm}^2$	0.06 mm
Nominal $\varnothing D_c$	6.8 mm
Thread size	M8x0.75
Thread profile	Full profile
Coating	AlTiN
Thread type	MF-LH
Thread type	MF
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 2xD for blind holes
Application for type of drilling	up to 2xD for through holes
Spacing of the cutters	unequal spacing
Countersink angle	90 degrees
Colour ring	green
Internal/external application	Internal
Series	Master TM
Type of product	thread milling cutter

## User data

	Suitability	$V_c$	ISO code
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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 <sup>2</sup>	suitable	140 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	130 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	120 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	90 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	80 m/min	P
Steel < 50 HRC	suitable only under restricted conditions	45 m/min	H
TOOLOX 33	suitable	85 m/min	H
TOOLOX 44	suitable	50 m/min	H
INOX < 900 N/mm <sup>2</sup>	suitable	82 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	75 m/min	M
Ti > 850 N/mm <sup>2</sup>	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
Shank grinding Type HE	129100 HE