

Garant

GARANT Master TM plain shank thread mill with countersink 2×D, TiAlN, M: M5



Order data

Order number	139653 M5
GTIN	4045197957757
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:

Form HB and HE supplied at the same price as HA.

Form **HB**: order with **No. 139656 + 129100 HB**

Form **HE**: order with **No. 139656 + 129100 HE**

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Through-coolant: yes

No. of teeth Z: 4

Thread pitch: 0.8 mm

Nominal $\varnothing D_c$: 3.9 mm

Shank length L_s : 36 mm

Overall length L: 58 mm

Shank $\varnothing D_s$: 6 mm

maximum countersink $\varnothing D_1$: 5.5 mm

Technical description

Overall length L	58 mm
Thread pitch	0.8 mm
Thread depth	10 mm
Programming value for countersink l_1	11.6 mm
Number of clamping slots	4
maximum countersink $\varnothing D_1$	5.5 mm
Shank $\varnothing D_s$	6 mm
Feed f_z in steel $< 750 \text{ N/mm}^2$	0.035 mm
Shank length L_s	36 mm
No. of teeth Z	4
Through-coolant	yes
Thread size	M5
Nominal $\varnothing D_c$	3.9 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 $2 \times D$ for blind holes and through holes
Spacing of the cutters	unequal spacing
Countersink angle	90 degrees
Shank tolerance	h6
Colour ring	green
Internal/external application	Indvendig

Series	GARANT Master TM
Type of product	thread milling cutter

Services

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