

Garant
GARANT Master TM plain shank thread mill with countersink 1.5×D, TiAlN, M:
M16

Order data

Order number	139656 M16
GTIN	4062406240998
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**

Form **HB**: order with **No. 139653 + 129100 HB**

Form **HE**: order with **No. 139653 + 129100 HE**

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Form **HE**: order with **No. 139654 + 129100 HE**.

Through-coolant: yes

No. of teeth Z: 6

Thread pitch: 2 mm

Nominal Ø D_C: 13.4 mm

Shank length L_S: 48 mm

Overall length L: 108 mm

Shank $\varnothing D_s$: 18 mm
 maximum countersink $\varnothing D_1$: 16.5 mm

Technical description

Thread size	M16
No. of teeth Z	6
Thread depth	32 mm
maximum countersink $\varnothing D_1$	16.5 mm
Number of clamping slots	6
Feed f_z in steel < 750 N/mm ²	0.11 mm
Shank length L_s	48 mm
Overall length L	108 mm
Thread $\varnothing$	16 mm
Shank $\varnothing D_s$	18 mm
Through-coolant	yes
Thread pitch	2 mm
Programming value for countersink l_1	26.5 mm
Nominal $\varnothing D_c$	13.4 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 1.5×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	Internal
Series	GARANT Master TM
Type of product	thread milling cutter

Services

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