

Garant

GARANT Master TM plain shank thread mill with countersink 2×D, TiAlN, MF: 16X1,5



Order data

Order number	139682 16X1,5
GTIN	4045197957986
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. 139682 + 129100 HB**

Form **HE**: order with **No. 139682 + 129100 HE**

Form **HB**: order with **No. 139683 + 129100 HB**

Form **HE**: order with **No. 139683 + 129100 HE**

Order **HB** shank: with **No. 139682 + 129100 HB**

Order **HE** shank: with **No. 139682 + 129100 HE**

Through-coolant: yes

No. of teeth Z: 6

Thread pitch: 1.5 mm

Nominal $\varnothing D_C$: 13.9 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

Shank $\varnothing D_s$	18 mm
Number of clamping slots	6
Shank length L_s	48 mm
Overall length L	108 mm
Programming value for countersink l_1	33.55 mm
maximum countersink $\varnothing D_1$	16.5 mm
Through-coolant	yes
Thread depth	32 mm
Feed f_z in steel $< 750 \text{ N/mm}^2$	0.11 mm
Thread pitch	1.5 mm
No. of teeth Z	6
Thread size	M16x1.5
Nominal $\varnothing D_c$	13.9 mm
Coating	TiAlN
Thread type	MF
Thread type	MF-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 2xD for blind holes and through holes
Spacing of the cutters	unequal spacing
Countersink angle	90 degrees
Colour ring	green
Internal/external application	Internal
Series	GARANT Master TM

Type of product	thread milling cutter
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Services

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