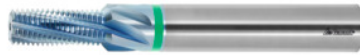


**Garant**
**GARANT Master TM plain shank thread mill with countersink 2×D, TiAlN, UNC: 9/16-12**

**Order data**

Order number	139723 9/16-12
GTIN	4062406058258
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.

**Application:**

For **UNC unified coarse threads** ASME-B1.1.

**Note:**

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

Form **HB**: order with **No. 139723 + 129100 HB**

Form **HE**: order with **No. 139723 + 129100 HE**

Thread type: UNC

Thread type: UNC-LH

No. of teeth Z: 6

Threads per inch: 12

Nominal  $\varnothing D_c$ : 11.6 mm

Flute length  $L_f$ : 30.63 mm

Shank length  $L_s$ : 48 mm

Overall length L: 106 mm

Shank  $\varnothing D_s$ : 16 mm

## Technical description

Overall length L	106 mm
Thread $\varnothing$	14.29 mm
Programming value for countersink $l_1$	32.23 mm
Thread type	UNC
Thread type	UNC-LH
Shank $\varnothing D_s$	16 mm
Number of clamping slots	6
maximum countersink $\varnothing D_1$	14.8 mm
Threads per inch	12
Full profile	yes
Shank length $L_s$	48 mm
Thread pitch	2.117 mm
No. of teeth Z	6
Flute length $L_c$	30.63 mm
Feed $f_z$ in steel $< 750 \text{ N/mm}^2$	0.1
Thread size	9/16-12 UNC
Nominal $\varnothing D_c$	11.6 mm
Series	GARANT Master TM
Coating	TiAlN
Flank angle	60 degrees
Tool material	solid carbide
Shank	DIN 6535 HA with h6
Through-coolant	yes
Cutting direction	right-hand
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	Internal
Type of product	thread milling cutter