Garant

GARANT Master TM plain shank thread mill with countersink 2×D, TiAIN, M: M16



Order data

Order number	139653 M16
GTIN	4045197957818
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.

- \cdot 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 Form HB: order with No. 139654 + 129100 HB Form HE: order with No. 139654 + 129100 HE. Through-coolant: yes No. of teeth Z: 6 Thread pitch: 2 mm Nominal \emptyset D_c: 13.4 mm Shank length L_s: 48 mm Overall length L: 108 mm

Data sheet

Shank Ø D_s: 18 mm maximum countersink Ø D₁: 16.5 mm

Technical description

No. of teeth Z	6
Shank Ø D _s	18 mm
Number of clamping slots	6
Thread pitch	2 mm
Overall length L	108 mm
Through-coolant	yes
Thread depth	32 mm
Feed f _z in steel < 750 N/mm ²	0.11 mm
Programming value for countersink I ₁	34.55 mm
Shank length L _s	48 mm
maximum countersink Ø D1	16.5 mm
Thread size	M16
Nominal Ø D _c	13.4 mm
Coating	TiAIN
Thread type	М
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×D for blind holes and through holes
Spacing of the cutters	unequal spacing
Countersink angle	90 degrees
Shank tolerance	h6
Colour ring	green

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Internal/external application	Indvendig
Series	GARANT Master TM
Type of product	thread milling cutter
Services	
Shank grinding Type HE	129100 HE
Shank grinding Type HB	129100 HB