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 |