

GARANT Master TM plain shank thread mill with countersink 2.5×D, TiAIN, MF: 12X1



Order data

| Order number | 139683 12X1 |
|--------------|---------------|
| GTIN | 4045197958051 |
| 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:

HB and HE shanks are available at the same price as HA.

Order **HB** shank: with **No. 139683 + 129100 HB** Order **HE** shank: with **No. 139683 + 129100 HE**

Through-coolant: yes
No. of teeth Z: 6
Thread pitch: 1 mm
Nominal Ø D_c: 10.4 mm
Shank length L_s: 45 mm
Overall length L: 94 mm
Shank Ø D_s: 14 mm

maximum countersink Ø D₁: 12.5 mm

Technical description

| Feed f_z in steel < 750 N/mm ² | 0.09 mm |
|--|---|
| maximum countersink Ø D ₁ | 12.5 mm |
| No. of teeth Z | 6 |
| Overall length L | 94 mm |
| Shank Ø D _s | 14 mm |
| Through-coolant | yes |
| Shank length L₅ | 45 mm |
| Thread depth | 24 mm |
| Thread pitch | 1 mm |
| Number of clamping slots | 6 |
| Programming value for countersink I ₁ | 31.55 mm |
| Thread size | M12×1 |
| Nominal Ø D _c | 10.4 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 2.5×D 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 |



Services

| Shank grinding Type HB | 129100 HB |
|------------------------|-----------|
| Shank grinding Type HE | 129100 HE |