

GARANT Master TM plain shank thread mill, TiAIN, NPT: 3/8-18



Order data

| Order number | 139729 3/8-18 |
|--------------|---------------|
| GTIN | 4062406058173 |
| 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.

Application:

Tapered pipe threads **(NPT)** to ANSI B1.20.1, for threads with sealants.

Note

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

Form **HB**: order with **No. 139729 + 129100 HB**

Form **HE**: order with **No. 139729 + 129100 HE**

Technical description

| Threads per inch | 18 |
|-----------------------------|----------|
| Thread pitch | 1.411 mm |
| Shank length L _s | 45 mm |
| Thread Ø | 17.06 mm |
| Number of clamping slots | 6 |

| Shank Ø D _s | 12 mm | |
|---|-----------------------|--|
| Overall length L | 82 mm | |
| No. of teeth Z | 6 | |
| Feed f_z in steel < 750 N/mm ² | 0.11 mm | |
| Flute length L _c | 13.38 mm | |
| Thread size | 3/8-18 NPT | |
| Nominal Ø D _c | 11.11 mm | |
| Series | Master TM | |
| Coating | TiAIN | |
| Thread type | NPT | |
| Flank angle | 60 degrees | |
| Tool material | solid carbide | |
| Standard | ANSI B 1.20.1 | |
| Taper ratio | 1:16 | |
| Shank | DIN 6535 HA with h6 | |
| Through-coolant | yes | |
| Application for type of drilling | Blind hole | |
| Application for type of drilling | Through hole | |
| Spacing of the cutters | unequal spacing | |
| Cutting direction | right-hand | |
| Shank tolerance | h6 | |
| Colour ring | green | |
| Internal/external application | Internal | |
| Type of product | thread milling cutter | |

User data

| | Suitability | V _c | ISO code |
|--------------|-------------|-----------------------|----------|
| Alu plastics | Suitable | 220 m/min | N |

| Aluminium (short chipping) | suitable | 220 m/min | N |
|--------------------------------|---|-----------|---|
| Alu > 10% Si | Suitable | 180 m/min | N |
| Steel < 500 N/mm ² | Suitable | 140 m/min | Р |
| Steel < 750 N/mm ² | Suitable | 130 m/min | Р |
| Steel < 900 N/mm ² | Suitable | 120 m/min | Р |
| Steel < 1100 N/mm ² | Suitable | 90 m/min | Р |
| Steel < 1400 N/mm ² | Suitable | 80 m/min | Р |
| Steel < 50 HRC | suitable only under restricted conditions | 45 m/min | н |
| TOOLOX 33 | Suitable | 85 m/min | Н |
| TOOLOX 44 | Suitable | 50 m/min | Н |
| INOX < 900 N/mm ² | Suitable | 82 m/min | M |
| INOX > 900 N/mm ² | Suitable | 75 m/min | M |
| Ti > 850 N/mm ² | Suitable | 50 m/min | S |
| GG(G) | Suitable | 120 m/min | K |
| CuZn | Suitable | 200 m/min | N |
| Uni | Suitable | | |
| wet maximum | Suitable | | |
| wet minimum | Suitable | | |
| Air | Suitable | | |
| Services | | | |

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