

GARANT Master TM solid carbide three-profile thread mill 2×D, AlTiN, G: G1/2



Order data

| Order number | 139631 G1/2 | | |
|--------------|---------------|--|--|
| GTIN | 4069515023696 | | |
| 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 cutting action 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.
- Latest-generation AlTiN-based HIPIMS coating.
- · Corrected thread profile for avoidance of profile distortions.

Advantage:

Significantly less radial pressure than with multi-tooth thread mills. Axial cooling grooves on the shank for optimum chip evacuation.

Application:

For **Whitworth parallel pipe threads** DIN-ISO 228/1 (threads that do not form a seal within the connections). **Suitable for internal and external threads.**

Note:

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

HB shank: order with No. **139631** + **129100 HB**.

HE shank: order with No. 139631 + 129100 HE. Can also be used for thread size G5/8 - G7/8

Technical description

| Shank Ø D _s | 14 mm |
|--------------------------|----------|
| Nominal Ø D _c | 13.95 mm |
| Thread size | G1/2 |

Data sheet

| No. of teeth Z | 6 | | |
|---|-----------------------------|--|--|
| Feed f _z in steel < 1400 N/mm ² | 0.1 mm | | |
| Shank length L _s | 45.9 mm | | |
| Feed f _z in CRP | 0.12 mm | | |
| Thread depth | 46.4 mm | | |
| Number of clamping slots | 6 | | |
| Through-coolant | yes | | |
| Thread pitch | 1.814 mm | | |
| Overall length L | 95 mm | | |
| Thread profile | Full profile | | |
| Threads per inch | 14 | | |
| Application for type of drilling | up to 2×D for blind holes | | |
| Application for type of drilling | up to 2×D for through holes | | |
| Flute length L _c | 5.44 mm | | |
| Series | Master TM | | |
| Overhang L ₁ | 46.4 mm | | |
| Coating | AlTiN | | |
| Thread type | BSP | | |
| Thread type | G | | |
| Thread type | EG-G | | |
| Thread type | EG-G-LH | | |
| Flank angle | 55 degrees | | |
| Tool material | Solid carbide | | |
| Shank | DIN 6535 HA to h6 | | |
| Spacing of the cutters | unequal spacing | | |
| Shank tolerance | h6 | | |
| Colour ring | green | | |
| Internal/external application | Internal and external | | |
| Type of product | Thread mill | | |

User data

| | Suitability | V _c | ISO code |
|--------------------------------|---|-----------------------|----------|
| Alu plastics | suitable | 200 m/min | N |
| Aluminium (short chipping) | suitable | 190 m/min | N |
| Alu > 10% Si | suitable | 160 m/min | N |
| Steel < 500 N/mm ² | suitable | 125 m/min | Р |
| Steel < 750 N/mm ² | suitable | 115 m/min | Р |
| Steel < 900 N/mm ² | suitable | 110 m/min | Р |
| Steel < 1100 N/mm² | suitable | 80 m/min | Р |
| Steel < 1400 N/mm ² | suitable | 70 m/min | Р |
| Steel < 55 HRC | suitable | 45 m/min | Н |
| Steel < 60 HRC | suitable only under restricted conditions | 35 m/min | Н |
| INOX < 900 N/mm ² | suitable | 75 m/min | M |
| INOX > 900 N/mm ² | suitable | 70 m/min | M |
| Ti > 850 N/mm ² | suitable | 45 m/min | S |
| CuZn | suitable | 175 m/min | N |
| GRP | suitable | 100 m/min | N |
| CRP | suitable | 100 m/min | N |
| Graphite | suitable | 150 m/min | N |
| Uni | suitable | | |
| wet maximum | suitable | | |
| wet minimum | suitable | | |
| Air | suitable | | |

Suitable products

https://www.hoffmann-group.com/GB/en/hom/p/139631-G1/2