

GARANT Master TM end cutting thread mill 2.5×D, AlCrN, M: M5



Order data

| Order number | 139526 M5 |
|--------------|---------------|
| GTIN | 4067263290636 |
| Item class | 11D |

Description

Version:

- · Significantly reduced vibrations due to irregular cutting edge spacing.
- · New coating for optimum wear resistance.
- · Cooling grooves on the shank for targeted coolant feed.
- · Corrected thread profile for avoidance of profile distortions.

The special front cutter geometry with unequal spacing permits process-reliable circular thread milling across a wide spectrum of materials. The side cooling grooves on the shank ensure outstanding coolant feed without weakening the tool core and thus offer maximum process reliability even in unstable conditions. All tools have left-hand cutting and are suitable for right-hand and left-hand threads.

Note:

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

HB shank: order with No. **139526** + **129100 HB**. **HE shank:** order with No. **139526** + **129100 HE**.

Technical description

| Thread pitch | 0.8 mm |
|--------------------------------|-----------|
| Series | Master TM |
| Shank length L _s | 36 mm |
| Thread depth | 12.5 |
| Cutting edge \emptyset D_c | 3.9 mm |
| Programming radius | 1.913 mm |
| Cutter length I _c | 1.6 mm |

| Number of clamping slots | 4 | |
|---|-------------------------------|--|
| Shank Ø D _s | 6 mm | |
| Overall length L | 58 mm | |
| Overhang L ₁ | 13.3 mm | |
| Neck Ø D ₁ | 2.8 mm | |
| Thread size | M5 | |
| Feed f_z in steel < 750 N/mm ² | 0.025 mm | |
| Through-coolant | yes | |
| Coating | AlCrN | |
| Thread type | M | |
| Thread type | M-LH | |
| Flank angle | 60 degrees | |
| Tool material | Solid carbide | |
| Thread standard | DIN 13 | |
| Shank | DIN 6535 HA to h6 | |
| Number of cutting edges Z | 4 | |
| Application for type of drilling | up to 2.5×D for blind holes | |
| Application for type of drilling | up to 2.5×D for through holes | |
| Cutting direction | left-hand | |
| Spacing of the cutters | unequal spacing | |
| Shank tolerance | h6 | |
| Colour ring | green | |
| Internal/external application | Internal | |
| Type of product | Drill thread milling cutters | |

User data

| | Suitability | \mathbf{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/mm² | 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 |
| TOOLOX 33 | suitable | 85 m/min | Н |
| TOOLOX 44 | suitable | 50 m/min | Н |
| INOX < 900 N/mm ² | suitable | 82 m/min | М |
| INOX > 900 N/mm ² | suitable | 75 m/min | М |
| 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 | | |
| Air Services | suitable | | |

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