Garant

End cutting thread mill 2.5×D, TiAIN, M: M4



Order data

| Order number | 139521 M4 |
|--------------|---------------|
| GTIN | 4062406565664 |
| Item class | 11J |

Description

Version:

Tool for **combined production** of bore, chamfer and thread **in a single operation.** No more pre-drilling required. The innovative centre cutting edge geometry makes this tool a specialist in thread production in **hardened and hard-to-machine materials.** The **TiAIN high-performance coating** achieves a top **tool life**, especially in hardened steels **up to 67 HRC**. All tools are left-hand cutting and suitable for **right-hand and left-hand threads**.

Note:

Always use with cooling lubricant emulsion. (Fat content minimum 8%). In the case of steels >45 HRC: can only be used with compressed air!

Through-coolant: yes Thread pitch: 0.7 mm Cutting edge \emptyset D_c: 3.1 mm Cutter length l_c: 2.2 mm Overhang L₁: 11.2 mm Shank length L_s: 41.5 mm Overall length L: 57 mm

Technical description

| Thread size | M4 |
|--------------------------|--------|
| Overall length L | 57 mm |
| Shank Ø D _s | 6 mm |
| Thread pitch | 0.7 mm |
| Number of clamping slots | 4 |

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| Thread depth | 10 | |
|----------------------------------|---------------------------------|--|
| Shank length L _s | 41.5 mm | |
| Feed f_z in steel < 65 HRC | 0.01 mm | |
| Cutter length I _c | 2.2 mm | |
| Programming radius | 1.53 mm | |
| Overhang L ₁ | 11.2 mm | |
| Cutting edge Ø D _c | 3.1 mm | |
| Neck Ø D1 | 2.18 mm | |
| Through-coolant | yes | |
| Coating | TiAIN | |
| Thread type | М | |
| Thread type | M-LH | |
| Flank angle | 60 ° | |
| Tool material | Solid carbide | |
| Thread standard | DIN 13 | |
| Shank | DIN 6535 HA with h6 | |
| Number of cutting edges Z | 4 | |
| Application for type of drilling | up to 2×D for blind holes | |
| Application for type of drilling | up to 2.5×D for through holes | |
| Countersink angle | 90 ° | |
| Cutting direction | right-hand | |
| Shank tolerance | h6 | |
| Colour ring | without | |
| Internal/external application | Internal | |
| Type of product | Combination drill / thread mill | |
| | | |

User data

| | Suitability | Vc | ISO code |
|--------------------------------|-------------|----------|----------|
| Steel < 1100 N/mm ² | suitable | 90 m/min | Р |
| | | | |

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| Steel < 1400 N/mm ² | suitable | 90 m/min | Р |
|--------------------------------|----------|----------|---|
| Steel < 55 HRC | suitable | 45 m/min | Н |
| Steel < 60 HRC | suitable | 40 m/min | Н |
| Steel < 65 HRC | suitable | 35 m/min | Н |
| Steel < 67 HRC | suitable | 30 m/min | Н |
| INOX < 900 N/mm ² | suitable | 60 m/min | М |
| INOX > 900 N/mm ² | suitable | 60 m/min | М |
| Ti > 850 N/mm ² | suitable | 45 m/min | S |
| wet maximum | suitable | | |
| Air Services | suitable | | |

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