

End cutting thread mill 2.5×D, TiAIN, M: M14



Order data

| Order number | 139521 M14 |
|--------------|---------------|
| GTIN | 4062406568924 |
| 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 **TiAlN 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: 2 mm
Cutting edge Ø D_c: 9 mm
Cutter length l_c: 6.3 mm
Overhang L₁: 38.2 mm
Shank length L_s: 39.9 mm
Overall length L: 83 mm

Technical description

| Shank length L₅ | 39.9 mm |
|------------------------|---------|
| Shank Ø D _s | 12 mm |
| Thread size | M14 |
| Overall length L | 83 mm |
| Thread pitch | 2 mm |

| Number of clamping slots | 4 | | |
|----------------------------------|---------------------------------|--|--|
| Thread depth | 35 | | |
| Feed f_z in steel < 65 HRC | 0.01 mm | | |
| Cutter length I _c | 6.3 mm | | |
| Programming radius | 4.43 mm | | |
| Overhang L ₁ | 38.2 mm | | |
| Cutting edge Ø D _c | 9 mm | | |
| Neck Ø D₁ | 6.62 mm | | |
| Through-coolant | yes | | |
| Coating | TiAlN | | |
| Thread type | M | | |
| 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 | V _c | ISO code |
|--------------------------------|-------------|-----------------------|----------|
| Steel < 1100 N/mm ² | suitable | 90 m/min | Р |



| 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 |