

Garant
Machine tap HSS-E-PM, TiN / vaporised, M: M4

Order data

| | |
|--------------|---------------|
| Order number | 135375 M4 |
| GTIN | 4045197197917 |
| Item class | 11H |

Description
Version:

For use with **emulsion** (fat content minimum 8%).

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Recommendation:

For **TOOLOX** and **HARDOX materials** we recommend **deviating from the DIN data** (see table) by drilling the tapping hole \varnothing **0.05** to **0.3 mm** larger.

Thread type: M

Tool material: HSS E PM

Standard: DIN 371

Tolerance class: ISO 2 6H

Thread pitch: 0.7 mm

Overall length L: 63 mm

Shank \varnothing D_s: 4.5 mm

Shank square □: 3.4 mm

Tapping hole \varnothing : 3.3 mm

Technical description

| | |
|------------------------------------|---------|
| Thread pitch | 0.7 mm |
| Number of cutting edges Z | 3 |
| Number of clamping slots | 3 |
| Tapping hole \varnothing | 3.3 mm |
| Thread \varnothing | 4 mm |
| Standard | DIN 371 |
| Shank \varnothing D _s | 4.5 mm |

| | |
|----------------------------------|-----------------------------------|
| Overall length L | 63 mm |
| Shank square □ | 3.4 mm |
| Tolerance class | ISO 2 6H |
| Tool material | HSS E PM |
| Thread depth | 12 mm |
| Thread type | M |
| Thread size | M4 |
| Coating | TiN / vaporised |
| Flank angle | 60° |
| Thread standard | DIN 13 |
| Taper lead form | C |
| Helix angle | 40° |
| Shank | Plain shank with h9 |
| Through-coolant | no |
| Application for type of drilling | up to 3×D for blind holes |
| Cutting direction | right-hand |
| Type of threading tool | Machine tap for dynamic machining |
| Colour ring | red |
| Type of product | Tap |

User data

| | Suitability | V _c | ISO code |
|--------------------------------|-------------|----------------|----------|
| Steel < 500 N/mm ² | suitable | 27 m/min | P |
| Steel < 750 N/mm ² | suitable | 23 m/min | P |
| Steel < 900 N/mm ² | suitable | 23 m/min | P |
| Steel < 1100 N/mm ² | suitable | 13 m/min | P |
| Steel < 1400 N/mm ² | suitable | 10 m/min | P |
| TOOLOX 33 | suitable | 12 m/min | H |
| Ti > 850 N/mm ² | suitable | 5 m/min | S |

| | |
|-------------|----------|
| Oil | suitable |
| wet maximum | suitable |