Garant

GARANT Master Tap SteelHT machine tap HSS-E-PM Form B 6HX, TiCN, M: M24



Order data

| Order number | 131940 M24 |
|--------------|---------------|
| GTIN | 4062406236243 |
| Item class | 111 |

Description

Version:

High-performance tap, specially developed for use in **steels with high tensile strength** and for **difficult-to-machine materials. Strong spiral point,** for process stability at high cutting forces.

- HSS-E-PM tool material for very high cutting edge stability.
- · Optimised honed cutting edges.
- TiCN coating for maximum wear protection.

Recommendation:

For **TOOLOX and HARDOX materials we recommend deviating from the DIN data** (see table) by **selecting a larger tapping hole** \emptyset **.**

Thread type: M Tool material: HSS E PM Standard: DIN 376 Tolerance class: ISO 2X 6HX Thread pitch: 3 mm Overall length L: 160 mm Shank \emptyset D_s: 18 mm Shank square \Box : 14.5 mm Tapping hole \emptyset : 21 mm

Technical description

| Overall length L | 160 mm |
|------------------|------------|
| Tolerance class | ISO 2X 6HX |
| Standard | DIN 376 |

| Number of clamping slots | 4 | |
|----------------------------------|-----------------------------------|--|
| Thread pitch | 3 mm | |
| Thread size | M24 | |
| Shank Ø D _s | 18 mm | |
| Number of cutting edges Z | 4 | |
| Thread depth | 72 mm | |
| Thread type | М | |
| Tapping hole Ø | 21 mm | |
| Tool material | HSS E PM | |
| Thread Ø | 24 mm | |
| Shank square 🗆 | 14.5 mm | |
| Coating | TiCN | |
| Flank angle | 60 ° | |
| Thread standard | DIN 13 | |
| Taper lead form | В | |
| Shank | Plain shank with h9 | |
| Through-coolant | no | |
| Application for type of drilling | up to 3×D for through holes | |
| Cutting direction | right-hand | |
| Type of threading tool | Machine tap for dynamic machining | |
| Colour ring | red | |
| Series | Master Tap | |
| Type of product | Тар | |

User data

| | Suitability | V _c | ISO code |
|-------------------------------|---|----------------|----------|
| Steel < 750 N/mm ² | suitable only under restricted conditions | 30 m/min | Р |
| Steel < 900 N/mm ² | suitable | 20 m/min | Р |

| Steel < 1100 N/mm ² | suitable | 15 m/min | Р |
|---|---|----------|---|
| Steel < 1400 N/mm ² | suitable | | |
| Steel < 50 HRC | suitable only under restricted conditions | | |
| TOOLOX 33 | suitable | 15 m/min | Н |
| TOOLOX 44 | suitable | | |
| HARDOX 500 < 1600 N/ mm ² | suitable only under restricted conditions | | |
| INOX > 900 N/mm ² | suitable | | |
| Ti > 850 N/mm ² | suitable only under restricted conditions | | |
| Oil | suitable | | |
| wet maximum | suitable | | |