

Garant

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



Order data

Order number	131946 M24
GTIN	4062406236359
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.**

Tolerance class: ISO 3X/6GX.

Application:

For components which are galvanised or shrink slightly when hardened.

Recommendation:

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

Thread type: M

Tool material: HSS E PM

Standard: DIN 376

Tolerance class: ISO 3X 6GX

Thread pitch: 3 mm

Overall length L: 160 mm

Shank \varnothing D_s: 18 mm

Shank square \square : 14.5 mm

Tapping hole \varnothing : 21 mm

Technical description

Thread depth	72 mm
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Thread size	M24
Tapping hole \varnothing	21 mm
Thread \varnothing	24 mm
Number of clamping slots	4
Tool material	HSS E PM
Standard	DIN 376
Shank $\varnothing D_s$	18 mm
Overall length L	160 mm
Thread type	M
Tolerance class	ISO 3X 6GX
Shank square \square	14.5 mm
Thread pitch	3 mm
Number of cutting edges Z	4
Coating	TiCN
Flank angle	60°
Thread standard	DIN 13
Taper lead form	B
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3xD 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	Tap

User data

	Suitability	V _c	ISO code
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Steel < 750 N/mm ²	suitable only under restricted conditions	30 m/min	P
Steel < 900 N/mm ²	suitable	20 m/min	P
Steel < 1100 N/mm ²	suitable	15 m/min	P
Steel < 1400 N/mm ²	suitable		
Steel < 50 HRC	suitable only under restricted conditions		
TOOLOX 33	suitable	15 m/min	H
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		