

GARANT Master Tap SteelHT machine tap HSS-E-PM Form C 6HX, TiAlN, M: M27



Order data

Order number	135371 M27
GTIN	4067263829669
Item class	111

Description

Version:

High-performance tap, specially developed for use in **steels with high tensile strength** and for **difficult-to-machine materials.** Sturdy design with **optimised guide thread to avoid chips jamming.**

- · HSS-E-PM tool material for very high cutting edge stability.
- · Optimised honed cutting edges.
- TiAlN 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 \varnothing .

Note:

For **TOOLOX** and **HARDOX materials:** do not exceed the maximum thread depth 2×D!

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 Ø D₅: 20 mm Shank square □: 16 mm Tapping hole Ø: 24 mm

Technical description

Tapping hole ∅	24 mm
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Thread type	M	
Number of clamping slots	4	
Number of cutting edges Z	4	
Tolerance class	ISO 2X 6HX	
Thread depth	67.5 mm	
Thread pitch	3 mm	
Shank Ø D _s	20 mm	
Standard	DIN 376	
Overall length L	160 mm	
Shank square □	16 mm	
Thread Ø	27 mm	
Thread size	M27	
Tool material	HSS E PM	
Coating	TiAlN	
Flank angle	60 °	
Thread standard	DIN 13	
Taper lead form	С	
Helix angle	40 °	
Shank	Plain shank with h9	
Through-coolant	no	
Application for type of drilling	up to 2.5×D for blind holes	
Cutting direction	right-hand	
Type of threading tool	Machine tap for dynamic machining	
Series	Master Tap	
Type of product	Тар	

User data

	Suitability	\mathbf{V}_{c}	ISO code
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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	12 m/min	Р
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		