

GARANT Master Tap SteelHT machine tap HSS-E-PM Form B 6GX, TiCN, M: M12



Order data

Order number	131946 M12
GTIN	4062406236311
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 .

Technical description

Thread Ø	12 mm	
Thread type	M	
Tapping hole Ø	10.2 mm	
Standard	DIN 376	
Number of clamping slots	3	
Shank square □	7 mm	
Overall length L	110 mm	

Thread pitch	1.75 mm		
Tolerance class	ISO 3X 6GX		
Shank Ø D _s	9 mm		
Tool material	HSS E PM		
Number of cutting edges Z	3		
Thread size	M12		
Thread depth	36 mm		
Coating	TiCN		
Flank angle	60 degrees		
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	\mathbf{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		
INOX > 900 N/mm ²	suitable		
Ti > 850 N/mm ²	suitable only under restricted conditions		
Oil	suitable		
wet maximum	suitable		