

GARANT Master Tap SteelHT machine tap HSS-E-PM Form B 6GX, TiCN, M: M20



Order data

Order number	131946 M20
GTIN	4062406236342
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 \emptyset .

Thread type: M

Tool material: HSS E PM Standard: DIN 376

Tolerance class: ISO 3X 6GX

Thread pitch: 2.5 mm Overall length L: 140 mm Shank Ø D₃: 16 mm Shank square □: 12 mm Tapping hole Ø: 17.5 mm

Technical description

Standard	DIN 376
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Thread size	M20	
Number of clamping slots	4	
Thread depth	60 mm	
Overall length L	140 mm	
Tapping hole Ø	17.5 mm	
Tool material	HSS E PM	
Thread type	M	
Number of cutting edges Z	4	
Shank square □	12 mm	
Thread pitch	2.5 mm	
Thread Ø	20 mm	
Tolerance class	ISO 3X 6GX	
Shank Ø D _s	16 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	\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		
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		