

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



Order data

Order number	135374 M20		
GTIN	4062406237080		
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.

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 .

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 3X 6GX Thread pitch: 2.5 mm Overall length L: 140 mm Shank Ø D_s: 16 mm

Shank square □: 12 mm Tapping hole Ø: 17.5 mm

Technical description

Tolerance class	ISO 3X 6GX		
Thread pitch	2.5 mm		
Standard	DIN 376		
Overall length L	140 mm		
Shank Ø D _s	16 mm		
Thread Ø	20 mm		
Tool material	HSS E PM		
Thread size	M20		
Thread type	M		
Number of clamping slots	4		
Thread depth	50 mm		
Number of cutting edges Z	4		
Shank square □	12 mm		
Tapping hole ∅	17.5 mm		
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×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	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	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		