Garant

GARANT Master Tap SteelHT machine tap HSS-E-PM Form C 6HX, TiAIN, M: M6

Order data

Order number	135371 M6
GTIN	4062406236816
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** \emptyset **.**

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 371 Tolerance class: ISO 2X 6HX Thread pitch: 1 mm Overall length L: 80 mm Shank \emptyset D_s: 6 mm Shank square \Box : 4.9 mm Tapping hole \emptyset : 5 mm

Technical description

Shank Ø D _s	6 mm
Thread type	М

Standard	DIN 371		
Shank square 🗆	4.9 mm		
Thread Ø	6 mm		
Thread depth	15 mm		
Tolerance class	ISO 2X 6HX		
Thread size	M6		
Number of cutting edges Z	3		
Tool material	HSS E PM		
Thread pitch	1 mm		
Tapping hole Ø	5 mm		
Number of clamping slots	3		
Overall length L	80 mm		
Coating	TiAIN		
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	V _c	ISO code
Steel < 750 N/mm²	suitable only under restricted conditions	30 m/min	Ρ

Steel < 900 N/mm ²	suitable	20 m/min	Р
Steel < 1100 N/mm²	suitable	15 m/min	Р
Steel < 1400 N/mm²	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/mm²	suitable only under restricted conditions		
Oil	suitable		
wet maximum	suitable		