

GARANT Master Tap SteelHT machine tap HSS-E-PM Form C 6HX, TiAlN, M: M16



Order data

Order number	135371 M16
GTIN	4062406236861
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: 2 mm Overall length L: 110 mm Shank Ø D_s: 12 mm Shank square □: 9 mm Tapping hole Ø: 14 mm

Technical description

Tool material	HSS E PM

Number of cutting edges Z	3		
Thread size	M16		
Overall length L	110 mm		
Shank Ø D _s	12 mm		
Standard	DIN 376		
Tolerance class	ISO 2X 6HX		
Number of clamping slots	3		
Thread depth	40 mm		
Thread Ø	16 mm		
Shank square □	9 mm		
Thread pitch	2 mm		
Thread type	M		
Tapping hole ∅	14 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 2.5×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		