

GARANT Master Tap INOX machine tap HSS-E-PM IC / Form C 6HX, TiAIN, M: M12



Order data

Order number	135734 M12
GTIN	4062406081515
Item class	111

Description

Version:

High-performance tap, specially developed for **good process reliability in stainless and acid-resistant steels** and **duplex materials.**

The 45° helix angle of the flutes facilitates chip formation especially in ductile austenitic CrNi steels.

- · HSS-E-PM tool material for a high degree of wear resistance
- The latest generation of TiALN multi-layer coating
- · Parameterised flute geometry for optimum chip formation and torsional rigidity

With internal coolant supply

Thread type: M

Tool material: HSS E PM Standard: DIN 376

Tolerance class: ISO 2X 6HX Thread pitch: 1.75 mm Overall length L: 110 mm

Shank Ø D₅: 9 mm Shank square □: 7 mm Tapping hole Ø: 10.2 mm

Technical description

Overall length L	110 mm
Thread type	М
Number of cutting edges Z	4

Thread pitch Tapping hole Ø Thread depth Thread depth Tool material Number of clamping slots Thread Ø Thread Size Toating Thread size Thread standard Tolin 13 Taper lead form C Helix angle Through-coolant Yes Shank Plain shank with h9 Through-coolant Type of threading tool Machine tap for dynamic machining Colour ring Series Master Tap Type of product	Tolerance class	ISO 2X 6HX		
Tapping hole Ø Thread depth Standard DIN 376 Tool material Number of clamping slots Shank Ø D, Shank Square □ Thread Size Coating Thread standard Thread stan	Thread pitch			
Standard Tool material Number of clamping slots Shank Ø D, 9 mm Thread Ø 12 mm Shank square □ 7 mm Thread size M12 Coating TiAlN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle Shank Plain shank with h9 Through-coolant Application for type of drilling Cutting direction Type of threading tool Machine tap for dynamic machining Colour ring Series Master Tap	Tapping hole Ø	10.2 mm		
Tool material HSS E PM Number of clamping slots 4 Shank Ø D, 9 mm Thread Ø 12 mm Shank square □ 7 mm Thread size M12 Coating TiAIN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Thread depth	30 mm		
Number of clamping slots 4 Shank Ø Ds 9 mm Thread Ø 12 mm Shank square □ 7 mm Thread size M12 Coating TiAIN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Standard	DIN 376		
Shank Ø D₃ 9 mm Thread Ø 12 mm Shank square □ 7 mm Thread size M12 Coating TiAIN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Tool material	HSS E PM		
Thread Ø 12 mm Shank square □ 7 mm Thread size M12 Coating TiAIN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Number of clamping slots	4		
Shank square □ 7 mm Thread size M12 Coating TiAIN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Shank Ø D _s	9 mm		
Thread size Coating TiAIN Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes Application for type of drilling Cutting direction Type of threading tool Colour ring Master Tap	Thread Ø	12 mm		
Coating Flank angle Flank angl	Shank square □	7 mm		
Flank angle 60 ° Thread standard DIN 13 Taper lead form C Helix angle 45 ° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Thread size	M12		
Thread standard DIN 13 Taper lead form C Helix angle 45° Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Coating	TiAlN		
Taper lead form C Helix angle Shank Plain shank with h9 Through-coolant yes Application for type of drilling Cutting direction Type of threading tool Colour ring Series C C C Helix angle Application Plain shank with h9 yes up to 2.5×D for blind holes right-hand Machine tap for dynamic machining blue Master Tap	Flank angle	60 °		
Helix angle Shank Plain shank with h9 Through-coolant Application for type of drilling Cutting direction Type of threading tool Colour ring Machine tap for dynamic machining blue Series Master Tap	Thread standard	DIN 13		
Shank Plain shank with h9 Through-coolant yes 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 Colour ring blue Series Master Tap	Taper lead form	С		
Through-coolant yes 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 Colour ring blue Series Master Tap	Helix angle	45 °		
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 Colour ring blue Series Master Tap	Shank	Plain shank with h9		
Cutting direction right-hand Type of threading tool Machine tap for dynamic machining Colour ring blue Series Master Tap	Through-coolant	yes		
Type of threading tool Colour ring Beries Machine tap for dynamic machining blue Master Tap	Application for type of drilling	up to 2.5×D for blind holes		
Colour ring blue Series Master Tap	Cutting direction	right-hand		
Series Master Tap	Type of threading tool	Machine tap for dynamic machining		
	Colour ring	blue		
Type of product Tap	Series	Master Tap		
	Type of product	Тар		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	28 m/min	N

Steel < 750 N/mm ²	suitable only under restricted conditions	23 m/min	Р
Steel < 900 N/mm ²	suitable only under restricted conditions	23 m/min	Р
Steel < 1100 N/mm ²	suitable	12 m/min	Р
INOX < 900 N/mm ²	suitable	11 m/min	М
INOX > 900 N/mm ²	suitable	9 m/min	М
Oil	suitable		
wet maximum	suitable		