

Garant
GARANT Master Tap machine tap HSS-E-PM, ALTiX, MF: 4,5X0,5

Order data

Order number	132905 4,5X0,5
GTIN	4062406208431
Item class	11I

Description
Version:

GARANT Master Tap Universal taps, designed for use in a wide spectrum of materials with high process reliability.

- **HSS-E-PM tool material for maximum wear resistance.**
- **Reduced coefficient of friction due to the new high-performance coating.**
- **Special geometry for optimum swarf evacuation.**

Thread type: MF

Tool material: HSS E PM

Standard: DIN 374

Tolerance class: ISO 2X 6HX

Thread pitch: 0.5 mm

Overall length L: 70 mm

Shank \varnothing D_s: 3.5 mm

Shank square □: 2.7 mm

Tapping hole \varnothing : 4 mm

Technical description

Thread pitch	0.5 mm
Thread depth	13.5 mm
Tapping hole \varnothing	4 mm
Standard	DIN 374
Number of clamping slots	3
Tool material	HSS E PM

Thread type	MF
Thread \varnothing	4.5 mm
Shank $\varnothing D_s$	3.5 mm
Shank square \square	2.7 mm
Overall length L	70 mm
Number of cutting edges Z	3
Tolerance class	ISO 2X 6HX
Thread size	M4.5×0.5
Coating	AlTiX
Flank angle	60°
Thread standard	DIN 13
Taper lead form	B
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	green
Series	Master Tap
Type of product	Tap

User data

	Suitability	V_c	ISO code
Alu plastics	suitable	30 m/min	N
Aluminium (short chipping)	suitable	35 m/min	N
Alu > 10% Si	suitable	20 m/min	N
Steel < 500 N/mm ²	suitable	30 m/min	P
Steel < 750 N/mm ²	suitable	30 m/min	P

Steel < 900 N/mm ²	suitable	25 m/min	P
Steel < 1100 N/mm ²	suitable	12 m/min	P
Steel < 1400 N/mm ²	suitable	8 m/min	P
INOX < 900 N/mm ²	suitable	10 m/min	M
INOX > 900 N/mm ²	suitable	8 m/min	M
GG(G)	suitable	20 m/min	K
CuZn	suitable	20 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		