

Machine tap for synchronised spindles HSS-E-PM Form E, TiAIN, M: M2,5



Order data

Order number	136173 M2,5
GTIN	4045197705242
Item class	11H

Description

Version:

Sturdy design with right-hand chip flutes and shank to DIN 1835-B.

Special geometry for universal applications on machines with synchronised spindle drive.

The tap is guided by the synchronised spindle on the machine. Special **TiAIN-S coating** for optimum tool life.

For use with **emulsion** (fat content minimum 8%).

Form E (lead chamfer: 1.5 - 2 turns) for the deepest possible thread depths.

Note:

For use on synchronised spindles, the GARANT quick-change tapping chuck No. 338100 – 338121 with minimum length adjustment (MLA) ensures very high process reliability.

Thread type: M

Tool material: HSS E PM

Standard: Manufacturer's standard

Tolerance class: ISO 2X 6HX Thread pitch: 0.45 mm Overall length L: 70 mm Shank Ø D_s: 6 mm

Shank square □: 4.9 mm Tapping hole Ø: 2.05 mm

Technical description

Thread pitch	0.45 mm
Number of cutting edges Z	3
Tapping hole Ø	2.05 mm
Thread Ø	2.5 mm

Number of clamping slots	3		
Standard	Manufacturer's standard		
Shank Ø D _s	6 mm		
Overall length L	70 mm		
Shank square □	4.9 mm		
Tolerance class	ISO 2X 6HX		
Tool material	HSS E PM		
Thread depth	7.5 mm		
Thread type	M		
Thread size	M2.5		
Coating	TiAIN		
Flank angle	60 °		
Thread standard	DIN 13		
Taper lead form	E		
Helix angle	40 °		
Shank	DIN 1835 B to h6		
Through-coolant	no		
Application for type of drilling	up to 3×D for blind holes		
Cutting direction	right-hand		
Shank tolerance	h6		
Type of threading tool	Machine tap for synchronous machining		
Colour ring	green		
Type of product	Тар		

User data

	Suitability	V _c	ISO code
Alu plastics	suitable only under restricted conditions	32 m/min	N

Aluminium (short chipping)	suitable	32 m/min	N
Steel < 500 N/mm ²	suitable	33 m/min	Р
Steel < 750 N/mm ²	suitable	32 m/min	Р
Steel < 900 N/mm ²	suitable	20 m/min	Р
Steel < 1100 N/mm ²	suitable	12 m/min	Р
Steel < 1400 N/mm ²	suitable	7 m/min	Р
INOX < 900 N/mm ²	suitable	11 m/min	M
INOX > 900 N/mm ²	suitable	9 m/min	M
CuZn	suitable only under restricted conditions	30 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		