

**Garant**
**Machine tap for synchronised spindles HSS-E-PM Form B 6HX, TiAlN, M: M14**

**Order data**

Order number	132741 M14
GTIN	4045197867445
Item class	11H

**Description**
**Version:**

**Sturdy version** with lead-in taper and **shank to DIN 1835-B**. Special geometry for **general-purpose use** on machines with **synchronised spindle drive**. The tap is controlled by the synchronising spindle of the machine.

Special TiAlN coating for optimum tool life.

Can be used with **emulsion** (fat content minimum 8%).

**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: 2 mm

Overall length L: 110 mm

Shank  $\varnothing D_s$ : 12 mm

Shank square  $\square$ : 9 mm

Tapping hole  $\varnothing$ : 12 mm

**Technical description**

Standard	Manufacturer's standard
Shank square $\square$	9 mm
Tool material	HSS E PM
Shank $\varnothing D_s$	12 mm
Thread $\varnothing$	14 mm

Tolerance class	ISO 2X 6HX
Number of clamping slots	4
Tapping hole Ø	12 mm
Thread pitch	2 mm
Overall length L	110 mm
Number of cutting edges Z	4
Thread depth	42 mm
Thread type	M
Thread size	M14
Coating	TiAlN
Flank angle	60 °
Thread standard	DIN 13
Taper lead form	B
Shank	DIN 1835 B to h6
Through-coolant	no
Application for type of drilling	up to 3×D for through holes
Cutting direction	right-hand
Shank tolerance	h6
Type of threading tool	Maskinsnittapper til synkron bearbejdning
Colour ring	green
Type of product	Tap

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions	40 m/min	N
Aluminium (short chipping)	suitable	40 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	37 m/min	P

Steel < 750 N/mm <sup>2</sup>	suitable	35 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	22 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	12 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	7 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	12 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	10 m/min	M
CuZn	suitable only under restricted conditions	35 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		