

Garant
Fluteless machine tap with oil grooves extra long HSS-E-PM Form C 6HX, TiAlN, M: M16

Order data

Order number	139208 M16
GTIN	4062406383749
Item class	11I

Description
Version:

The latest generation of **high-performance fluteless taps**, specially developed for **use in steel materials**.

- **Optimised polygon geometry for a lower torque.**
- **Multi-layer HIPIMS coating for high wear resistance.**
- **HSS-E-PM substrate for exceptional process reliability.**

Tolerance class: ISO 2X/6HX.

With extra long shank.

Advantage:

Ideal for thread forming where access is difficult.

Tolerance class: ISO 2X 6HX

Thread pitch: 2 mm

Overall length L: 220 mm

Shank \varnothing D_s: 12 mm

Shank square □: 9 mm

Tapping hole \varnothing guide value: 15.1 mm

Technical description

Number of clamping slots	8
Thread size	M16
Thread depth	48 mm
Tapping hole \varnothing guide value	15.1 mm
Overall length L	220 mm

Thread Ø	16 mm
Thread pitch	2 mm
Shank Ø D _s	12 mm
Tolerance class	ISO 2X 6HX
Number of cutting edges Z	8
Shank square □	9 mm
Series	GARANT Master
Coating	TiAlN
Thread type	M
Flank angle	60°
Tool material	HSS E PM
Standard	Manufacturer's standard
Thread standard	DIN 13
Taper lead form	C
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3×D for blind holes
Application for type of drilling	up to 3×D for through holes
Cutting direction	right-hand
Colour ring	without
Type of product	Fluteless tap

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable	34 m/min	N
Steel < 500 N/mm ²	suitable	33 m/min	P
Steel < 750 N/mm ²	suitable	32 m/min	P
Steel < 900 N/mm ²	suitable	24 m/min	P

Steel < 1100 N/mm ²	suitable	16 m/min	P
Steel < 1400 N/mm ²	suitable	10 m/min	P
INOX < 900 N/mm ²	suitable	10 m/min	M
CuZn	suitable	20 m/min	N
Oil	suitable		
wet maximum	suitable		
wet minimum	suitable		