

**Garant**
**Fluteless machine tap with oil grooves HSS-E-PM Form E 6HX, TiAlN, M: M20**

**Order data**

Order number	139198 M20
GTIN	4062406383466
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.**

**DIN 2174** ( $\approx$  DIN 371  $\leq$  M10;  $\approx$  DIN 376  $\geq$  M12).

**Tolerance class:** ISO 2X/6HX.

**Form E** (lead-in 1.5 – 2 turns) **for deep threads with short run-out.** The thread is tapped almost to the bottom of the hole.

Tolerance class: ISO 2X 6HX

Thread pitch: 2.5 mm

Overall length L: 140 mm

Shank  $\varnothing$  D<sub>s</sub>: 16 mm

Shank square □: 12 mm

Tapping hole  $\varnothing$  guide value: 18.9 mm

**Technical description**

Tapping hole $\varnothing$ guide value	18.9 mm
Shank square □	12 mm
Number of cutting edges Z	8
Thread depth	60 mm
Thread size	M20

Tolerance class	ISO 2X 6HX
Thread pitch	2.5 mm
Shank $\varnothing D_s$	16 mm
Thread $\varnothing$	20 mm
Overall length L	140 mm
Number of clamping slots	8
Series	GARANT Master Steel
Coating	TiAlN
Thread type	M
Flank angle	60 degrees
Tool material	HSS E PM
Standard	DIN 2174
Thread standard	DIN 13
Taper lead form	E
Shank	Plain shank with h9
Through-coolant	no
Application for type of drilling	up to 3xD for blind holes and through holes
Cutting direction	right-hand
Colour ring	without
Type of product	Fluteless tap