

**Garant**
**Machine tap extra long HSS-E-PM, vaporised, M: M16**

**Order data**

Order number	131765 M16
GTIN	4045197532060
Item class	11H

**Description**
**Version:**
**Spiral point with oil grooves.**
**Guide section with oil grooves**, but without chip flutes.

**With extra long shank..**
**All sizes: Shank to DIN 376 (= shank Ø relieved);** means it is highly suitable for use at great depths as a **universal tap**.

**Advantage:**

Designed for tapping threads where access is difficult.

Thread type: M

Tool material: HSS E PM

Standard: Manufacturer's standard

Tolerance class: ISO 2 6H

Thread pitch: 2 mm

Overall length L: 220 mm

 Shank Ø D<sub>s</sub>: 12 mm

Shank square □: 9 mm

Tapping hole Ø: 14 mm

**Technical description**

Number of cutting edges Z	4
Thread pitch	2 mm
Number of clamping slots	4
Thread Ø	16 mm
Tapping hole Ø	14 mm

Standard	Manufacturer's standard
Shank $\varnothing D_s$	12 mm
Overall length L	220 mm
Shank square $\square$	9 mm
Tolerance class	ISO 2 6H
Tool material	HSS E PM
Thread depth	48 mm
Thread type	M
Thread size	M16
Coating	vaporised
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
Type of product	Tap

## User data

	Suitability	$V_c$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	24 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	21 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	21 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	21 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	9 m/min	P

INOX < 900 N/mm <sup>2</sup>	suitable	8 m/min	M
CuZn	suitable only under restricted conditions	18 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable only under restricted conditions		