

Garant
GARANT Master Tap machine tap HSS-E-PM Form B 6GX, AlTiX, M: M16

Order data

| | |
|--------------|---------------|
| Order number | 132724 M16 |
| GTIN | 4045197900562 |
| Item class | 111 |

Description
Version:

Universal taps, designed for use in a wide spectrum of materials with high process reliability.

- **HSS-E-PM tool material for a high degree of wear resistance.**
- **Reduced coefficient of friction due to the new high-performance coating.**
- **Special geometry for optimum swarf evacuation.**

Tolerance class: ISO 3X/6GX

For components which are galvanised or shrink slightly when hardened.

Application:

For components which are galvanised or shrink slightly when hardened.

Recommendation:

We recommend increasing the size of the tapping hole \varnothing by the tolerance allowance.

Thread type: M

Tool material: HSS E PM

Standard: DIN 376

Tolerance class: ISO 3X 6GX

Thread pitch: 2 mm

Overall length L: 110 mm

Shank $\varnothing D_s$: 12 mm

Shank square \square : 9 mm

Tapping hole \varnothing : 14 mm

Technical description

| | |
|---------------------------|-------|
| Number of cutting edges Z | 4 |
| Shank $\varnothing D_s$ | 12 mm |
| Thread \varnothing | 16 mm |

| | |
|---------------------------------------|-----------------------------------|
| Tool material | HSS E PM |
| Shank square <input type="checkbox"/> | 9 mm |
| Overall length L | 110 mm |
| Thread depth | 48 mm |
| Number of clamping slots | 4 |
| Tolerance class | ISO 3X 6GX |
| Thread pitch | 2 mm |
| Tapping hole Ø | 14 mm |
| Standard | DIN 376 |
| Thread type | M |
| Thread size | M16 |
| Coating | AlTiX |
| 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 |
| Series | Master Tap |
| Type of product | Tap |

User data

| | Suitability | V _c | ISO code |
|----------------------------|-------------|----------------|----------|
| Alu plastics | suitable | 30 m/min | N |
| Aluminium (short chipping) | suitable | 35 m/min | N |

| | | | |
|--------------------------------|----------|----------|---|
| Alu > 10% Si | suitable | 20 m/min | N |
| Steel < 500 N/mm ² | suitable | 30 m/min | P |
| Steel < 750 N/mm ² | suitable | 30 m/min | P |
| Steel < 900 N/mm ² | suitable | 25 m/min | P |
| Steel < 1100 N/mm ² | suitable | 12 m/min | P |
| Steel < 1400 N/mm ² | suitable | 8 m/min | P |
| INOX < 900 N/mm ² | suitable | 10 m/min | M |
| INOX > 900 N/mm ² | suitable | 8 m/min | M |
| GG(G) | suitable | 20 m/min | K |
| CuZn | suitable | 20 m/min | N |
| Uni | suitable | | |
| Oil | suitable | | |
| wet maximum | suitable | | |