

Garant

GARANT Master Tap machine tap HSS-E-PM extra long Form C 6HX DIN 376, AlTiX, M: M5



Order data

| | |
|--------------|---------------|
| Order number | 136168 M5 |
| GTIN | 4062406719067 |
| 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.**

With extra long shank.

All sizes with shank to DIN 376 (= **shank Ø tapered**). Therefore suitable for greater operating depths.

Advantage:

Designed for tapping threads where access is difficult.

Thread type: M

Tool material: HSS E PM

Standard: Manufacturer's standard

Tolerance class: ISO 2X 6HX

Thread pitch: 0.8 mm

Overall length L: 160 mm

Shank Ø D_s: 3.5 mm

Shank square □: 2.7 mm

Tapping hole Ø: 4.2 mm

Technical description

| | |
|------------------------|------------|
| Shank Ø D _s | 3.5 mm |
| Tolerance class | ISO 2X 6HX |
| Overall length L | 160 mm |

| | |
|----------------------------------|-----------------------------------|
| Number of clamping slots | 3 |
| Tapping hole Ø | 4.2 mm |
| Shank square □ | 2.7 mm |
| Thread type | M |
| Thread depth | 12.5 mm |
| Number of cutting edges Z | 3 |
| Thread pitch | 0.8 mm |
| Thread size | M5 |
| Standard | Manufacturer's standard |
| Tool material | HSS E PM |
| Thread Ø | 5 mm |
| Coating | AlTiX |
| Flank angle | 60° |
| Thread standard | DIN 13 |
| Helix angle | 40° |
| Shank | Plain shank with h9 |
| Through-coolant | no |
| Application for type of drilling | up to 2.5×D for blind 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 | 24 m/min | N |
| Aluminium (short chipping) | suitable | 28 m/min | N |

| | | | |
|--------------------------------|----------|----------|---|
| Alu > 10% Si | suitable | 16 m/min | N |
| Steel < 500 N/mm ² | suitable | 24 m/min | P |
| Steel < 750 N/mm ² | suitable | 24 m/min | P |
| Steel < 900 N/mm ² | suitable | 20 m/min | P |
| Steel < 1100 N/mm ² | suitable | 10 m/min | P |
| Steel < 1400 N/mm ² | suitable | 6 m/min | P |
| INOX < 900 N/mm ² | suitable | 8 m/min | M |
| INOX > 900 N/mm ² | suitable | 6 m/min | M |
| GG(G) | suitable | 16 m/min | K |
| CuZn | suitable | 16 m/min | N |
| Uni | suitable | | |
| Oil | suitable | | |
| wet maximum | suitable | | |