

Garant

GARANT Master Tap machine tap for wire thread inserts HSS-E-PM, AlTiX, EG-M: EG-M20



Order data

| | |
|--------------|---------------|
| Order number | 138210 EG-M20 |
| GTIN | 4062406208950 |
| Item class | 111 |

Description

Version:

Tap to DIN 40435 (similar to DIN 371 / DIN 376).

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

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

Application:

For production of AC mounting thread to metric ISO threads **DIN 8140** for **STI** (Screw Thread Insert) wire thread inserts.

Note:

Please ensure without fail the correct **tapping drill Ø (see table)**!

Tool material: HSS E PM

Standard: DIN 40435

Tolerance class: 6HX mod.

Thread pitch: 2.5 mm

Overall length L: 160 mm

Shank Ø D_s: 18 mm

Shank square □: 14.5 mm

Tapping hole Ø: 20.75 mm

Technical description

| | |
|---------------------------|--------|
| Number of cutting edges Z | 4 |
| Thread pitch | 2.5 mm |

| | |
|----------------------------------|-----------------------------------|
| Thread depth | 50 mm |
| Tool material | HSS E PM |
| Shank $\varnothing D_s$ | 18 mm |
| Thread \varnothing | 20 mm |
| Standard | DIN 40435 |
| Shank square \square | 14.5 mm |
| Thread size | M20 |
| Overall length L | 160 mm |
| Number of clamping slots | 4 |
| Tapping hole \varnothing | 20.75 mm |
| Tolerance class | 6HX mod. |
| Coating | AlTiX |
| Thread type | EG-M |
| Flank angle | 60° |
| Taper lead form | E |
| 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 | 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 | | |