

Synchronised fluteless machine tap with oil grooves HSS-E-PM Form C, TiN, M: M4



Order data

| Order number | 139210 M4 | | |
|--------------|---------------|--|--|
| GTIN | 4045197446909 | | |
| Item class | 11H | | |

Description

Version:

Special polygon geometry and shank to DIN 1835-B for machines with synchronised spindle drive. With oil grooves; optimal lubrication effect even in deeper threads.

The **innovative polygon form** permits a wide application spectrum. The **multi-function layered coating** achieves **maximum service life** even in **high-tensile materials** in **fixed** applications.

Note:

For use on synchronised spindles, the GARANT quick-change tapping chuck No. 338100 – 338121 with minimum length adjustment (MLA) ensures the highest process reliability.

Tolerance class: ISO 2X 6HX

Thread pitch: 0.7 mm Overall length L: 70 mm Shank Ø D_s: 6 mm

Shank square □: 4.9 mm

Tapping hole Ø guide value: 3.7 mm

Technical description

| Thread Ø | 4 mm |
|---------------------------|--------|
| Number of clamping slots | 4 |
| Thread pitch | 0.7 mm |
| Number of cutting edges Z | 4 |
| Shank Ø D _s | 6 mm |
| Shank square □ | 4.9 mm |

| Overall length L | 70 mm | | |
|----------------------------------|-------------------------------|--|--|
| Tapping hole Ø guide value | 3.7 mm | | |
| Tolerance class | ISO 2X 6HX | | |
| Thread depth | 10 mm | | |
| Thread size | M4 | | |
| Coating | TiN | | |
| Thread type | M | | |
| Flank angle | 60 ° | | |
| Tool material | HSS E PM | | |
| Standard | Manufacturer's standard | | |
| Thread standard | DIN 13 | | |
| Taper lead form | С | | |
| Shank | DIN 1835 B with h6 | | |
| Through-coolant | no | | |
| Application for type of drilling | up to 2×D for blind holes | | |
| Application for type of drilling | up to 2.5×D for through holes | | |
| Cutting direction | right-hand | | |
| Shank tolerance | h6 | | |
| Colour ring | green | | |
| Type of product | Fluteless tap | | |

User data

| | Suitability | \mathbf{V}_{c} | ISO code |
|-------------------------------|---|------------------|----------|
| Alu plastics | suitable | 45 m/min | N |
| Aluminium (short chipping) | suitable | 45 m/min | N |
| Alu > 10% Si | suitable only under restricted conditions | 40 m/min | N |
| Steel < 500 N/mm ² | suitable | 45 m/min | Р |

| Steel < 750 N/mm ² | suitable | 37 m/min | Р |
|--------------------------------|---|----------|---|
| Steel < 900 N/mm ² | suitable | 35 m/min | Р |
| Steel < 1100 N/mm ² | suitable | 32 m/min | Р |
| Steel < 1400 N/mm ² | suitable only under restricted conditions | 22 m/min | Р |
| INOX < 900 N/mm ² | suitable | 10 m/min | М |
| CuZn | suitable only under restricted conditions | 35 m/min | N |
| Uni | suitable | | |
| Oil | suitable | | |
| wet maximum | suitable | | |