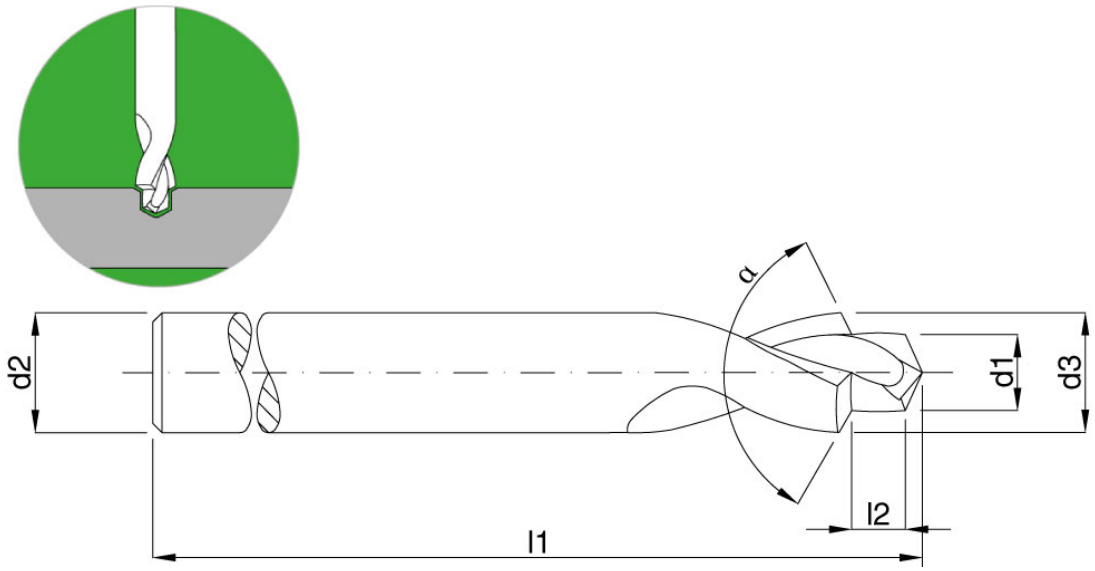


# TWP0000120

**Type:** Torx pilot drill

| d1 | d2 | d3 | l1 | l2 |
|---|---|---|---|---|
| 1,20 | 3,00 | 2,30 | 39 | 0,84 |

| Coolant holes | Cut | Point angle | Spiral angle | Cutting edges Z |
|---|---|---|---|---|
| No | Right | 140° | 20° | 2 |

| Coated | Coating type | Material | Material type | Norm |
|---|---|---|---|---|
| Yes | TISINOS | MD | SMG 10 | TUSA |

| Machinable Materials | | | | |
|---|---|---|---|---|
| Cod. | Material type | Machinability | Cutting speed Vc | Advancement per revolution fn |
| | | Recommended<br>Part. recommended<br>Not recommended | (m/min) | (mm/rev) |
| P01 | Unalloyed steels up to 800 N/mm2 | 🔴 | - | - |
| P02 | Low alloy steels from 800 N/mm2 to 1100 N/mm2 | 🔴 | - | - |
| P03 | Highly alloyed steels from 1100 N/mm2 to 1400 N/mm2 | 🔴 | - | - |
| M01 | Ferritic stainless steels | 🟢 | 20 : 30 | 0.020 - 0.035 |
| M02 | Martensitic stainless steels | 🟢 | 20 : 30 | 0.020 - 0.035 |
| M03 | Martensitic stainless steels - PH | 🟢 | 20 : 30 | 0.020 - 0.035 |
| M04 | Austenitic stainless steels | 🔴 | - | - |
| K01 | Gray/lamellar cast iron | 🔴 | - | - |
| K02 | Nodular/nodular cast iron | 🔴 | - | - |
| N01 | Drawn aluminum alloys | 🔴 | - | - |
| N02 | Die-cast aluminum alloys | 🔴 | - | - |
| N03 | Copper | 🔴 | - | - |
| N04 | Brass - Bronze | 🔴 | - | - |
| N05 | Lead-free brass | 🔴 | - | - |
| S01 | Super alloys (Inconel - Hastelloy - Nimonic) | 🟢 | 20 : 30 | 0.010 - 0.020 |
| S02 | Pure titanium (Grade 2 - Grade 4) | 🟢 | 20 : 30 | 0.010 - 0.020 |
| S03 | Titanium alloys (Grade 5) | 🟢 | 20 : 30 | 0.010 - 0.020 |
| S04 | Cobalt Chrome Alloys | 🔴 | - | - |
| H01 | Hardened steels up to 55 HRC | 🔴 | - | - |

| Machinable Materials | | | | |
|---|---|---|---|---|
| Cod. | Material type | Machinability | Cutting speed Vc | Advancement per revolution fn |
| | | Recommended<br>Part. recommended<br>Not recommended | (m/min) | (mm/rev) |
| P01 | Unalloyed steels up to 800 N/mm2 | 🔴 | - | - |
| P02 | Low alloy steels from 800 N/mm2 to 1100 N/mm2 | 🔴 | - | - |
| P03 | Highly alloyed steels from 1100 N/mm2 to 1400 N/mm2 | 🔴 | - | - |
| M01 | Ferritic stainless steels | 🟢 | 20 : 30 | 0.020 - 0.035 |
| M02 | Martensitic stainless steels | 🟢 | 20 : 30 | 0.020 - 0.035 |
| M03 | Martensitic stainless steels - PH | 🟢 | 20 : 30 | 0.020 - 0.035 |
| M04 | Austenitic stainless steels | 🔴 | - | - |
| K01 | Gray/lamellar cast iron | 🔴 | - | - |
| K02 | Nodular/nodular cast iron | 🔴 | - | - |
| N01 | Drawn aluminum alloys | 🔴 | - | - |
| N02 | Die-cast aluminum alloys | 🔴 | - | - |
| N03 | Copper | 🔴 | - | - |
| N04 | Brass - Bronze | 🔴 | - | - |
| N05 | Lead-free brass | 🔴 | - | - |
| S01 | Super alloys (Inconel - Hastelloy - Nimonic) | 🟢 | 20 : 30 | 0.010 - 0.020 |
| S02 | Pure titanium (Grade 2 - Grade 4) | 🟢 | 20 : 30 | 0.010 - 0.020 |
| S03 | Titanium alloys (Grade 5) | 🟢 | 20 : 30 | 0.010 - 0.020 |
| S04 | Cobalt Chrome Alloys | 🔴 | - | - |
| H01 | Hardened steels up to 55 HRC | 🔴 | - | - |
| H02 | Hardened steels from 55 HRC | 🔴 | - | - |