


















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









Type: Short twist drill

| d1 | d2 | l1 | l2 |
|-------|-------|-----|-------|
| 14,50 | 11,30 | 107 | 56,00 |

| Coolant holes | Cut | Point angle | Spiral angle | Cutting edges Z |
|---------------|-------|-------------|--------------|-----------------|
| No | Right | 118° | 25° | 2 |

| Coated | Coating type | Material | Material type | Norm |
|--------|--------------|----------|---------------|----------|
| No | - | MD | SMG 10 | DIN 6539 |

| Machinable Materials | | | | |
|----------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------|
| Cod. | Material type | Machinability | Cutting speed Vc | Advancement per revolution fn |
| | | Recommended Part. recommended Not recommended | (m/min) | (mm/rev) |
| P01 | Unalloyed steels up to 800 N/mm ² |  | 40 : 60 | 0,08 - 0,12 |
| P02 | Low alloy steels from 800 N/mm ² to 1100 N/mm ² |  | 30 : 50 | 0,06 - 0,08 |
| P03 | Highly alloyed steels from 1100 N/mm ² to 1400 N/mm ² |  | 20 : 40 | 0,06 - 0,08 |
| M01 | Ferritic stainless steels |  | 15 : 30 | 0,06 - 0,10 |
| M02 | Martensitic stainless steels |  | 15 : 30 | 0,06 - 0,10 |
| M03 | Martensitic stainless steels - PH |  | 15 : 30 | 0,06 - 0,10 |
| M04 | Austenitic stainless steels |  | 15 : 30 | 0,06 - 0,10 |
| K01 | Gray/lamellar cast iron |  | 30 : 50 | 0,09 - 0,14 |
| K02 | Nodular/nodular cast iron |  | 30 : 50 | 0,09 - 0,14 |
| N01 | Drawn aluminum alloys |  | 60 : 100 | 0,13 - 0,16 |
| N02 | Die-cast aluminum alloys |  | 50 : 80 | 0,09 - 0,12 |
| N03 | Copper |  | 30 : 60 | 0,13 - 0,16 |
| N04 | Brass - Bronze |  | 40 : 70 | 0,13 - 0,16 |
| N05 | Lead-free brass |  | 30 : 60 | 0,13 - 0,16 |
| S01 | Super alloys (Inconel - Hastelloy - Nimonic) |  | - | - |
| S02 | Pure titanium (Grade 2 - Grade 4) |  | - | - |
| S03 | Titanium alloys (Grade 5) |  | - | - |
| 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 Part. recommended Not recommended | (m/min) | (mm/rev) |
| P01 | Unalloyed steels up to 800 N/mm2 |  | 40 : 60 | 0,08 - 0,12 |
| P02 | Low alloy steels from 800 N/mm2 to 1100 N/mm2 |  | 30 : 50 | 0,06 - 0,08 |
| P03 | Highly alloyed steels from 1100 N/mm2 to 1400 N/mm2 |  | 20 : 40 | 0,06 - 0,08 |
| M01 | Ferritic stainless steels |  | 15 : 30 | 0,06 - 0,10 |
| M02 | Martensitic stainless steels |  | 15 : 30 | 0,06 - 0,10 |
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| S01 | Super alloys (Inconel - Hastelloy - Nimonic) |  | - | - |
| S02 | Pure titanium (Grade 2 - Grade 4) |  | - | - |
| S03 | Titanium alloys (Grade 5) |  | - | - |
| S04 | Cobalt Chrome Alloys |  | - | - |
| H01 | Hardened steels up to 55 HRC |  | - | - |
| H02 | Hardened steels from 55 HRC |  | - | - |