



### D109 -Heavy Duty Cobalt - Jobber Drills - Bulk - Sutton Tools -Heavy Duty Cobalt

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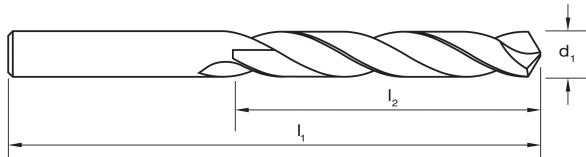
Sutton Tools Heavy Duty Cobalt Jobber Drills are industrial quality for drilling materials that have high hardness and tensile strength such as cast iron, bronze, hard steel & stainless steel. These drill bits feature a thick core for increased rigidity in hard materials.

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#### Features:

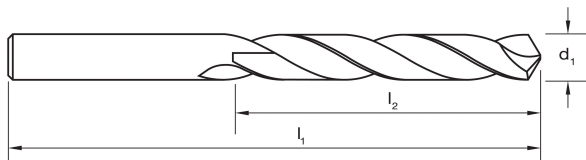
- 135° Split Point (drills > 2mm & 3/32) - Enables accurate positioning and less drilling pressure
- Thick Core - For increased rigidity in hard materials
- Precision Engineered Parallel Shank - For accurate hole size
- Made from HSS Cobalt - The 5% cobalt formula improves abrasive & heat resistance, for increased strength at higher cutting temperatures
- Colour Tempered Surface Finish - Enables identification of cobalt tool material

Range:



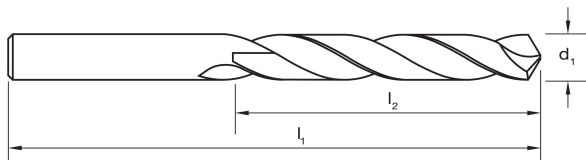
| Item #   | Diameter d1 (mm) | Diameter d1 (inch) | Length l1 (mm) | Length l2 (mm) |
|----------|------------------|--------------------|----------------|----------------|
| D1090100 | 1.00             | -                  | 34             | 12             |
| D1090110 | 1.10             | -                  | 36             | 14             |
| D1090120 | 1.20             | -                  | 38             | 16             |
| D1090130 | 1.30             | -                  | 38             | 16             |
| D1090140 | 1.40             | -                  | 40             | 18             |
| D1090150 | 1.50             | -                  | 40             | 18             |
| D1090159 | 1.59             | 1/16               | 43             | 20             |
| D1090160 | 1.60             | -                  | 43             | 20             |
| D1090170 | 1.70             | -                  | 43             | 20             |
| D1090180 | 1.80             | -                  | 46             | 22             |
| D1090190 | 1.90             | -                  | 46             | 22             |
| D1090198 | 1.98             | 5/64               | 49             | 24             |
| D1090200 | 2.00             | -                  | 49             | 24             |
| D1090205 | 2.05             | -                  | 49             | 24             |
| D1090210 | 2.10             | -                  | 49             | 24             |
| D1090220 | 2.20             | -                  | 53             | 27             |
| D1090230 | 2.30             | -                  | 53             | 27             |
| D1090238 | 2.38             | 3/32               | 57             | 30             |
| D1090240 | 2.40             | -                  | 57             | 30             |
| D1090250 | 2.50             | -                  | 57             | 30             |
| D1090260 | 2.60             | -                  | 57             | 30             |
| D1090270 | 2.70             | -                  | 61             | 33             |
| D1090278 | 2.78             | 7/64               | 61             | 33             |
| D1090280 | 2.80             | -                  | 61             | 33             |
| D1090290 | 2.90             | -                  | 61             | 33             |
| D1090300 | 3.00             | -                  | 61             | 33             |
| D1090310 | 3.10             | -                  | 65             | 36             |
| D1090318 | 3.18             | 1/8                | 65             | 36             |
| D1090320 | 3.20             | -                  | 65             | 36             |
| D1090330 | 3.30             | -                  | 65             | 36             |
| D1090340 | 3.40             | -                  | 70             | 39             |
| D1090350 | 3.50             | -                  | 70             | 39             |
| D1090357 | 3.57             | 9/64               | 70             | 39             |
| D1090360 | 3.60             | -                  | 70             | 39             |
| D1090370 | 3.70             | -                  | 70             | 39             |

Range:



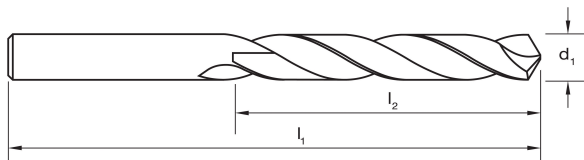
| Item #   | Diameter d1 (mm) | Diameter d1 (inch) | Length l1 (mm) | Length l2 (mm) |
|----------|------------------|--------------------|----------------|----------------|
| D1090380 | 3.80             | -                  | 75             | 43             |
| D1090390 | 3.90             | -                  | 75             | 43             |
| D1090397 | 3.97             | 5/32               | 75             | 43             |
| D1090400 | 4.00             | -                  | 75             | 43             |
| D1090410 | 4.10             | -                  | 75             | 43             |
| D1090420 | 4.20             | -                  | 75             | 43             |
| D1090430 | 4.30             | -                  | 80             | 47             |
| D1090437 | 4.37             | 11/64              | 80             | 47             |
| D1090440 | 4.40             | -                  | 80             | 47             |
| D1090450 | 4.50             | -                  | 80             | 47             |
| D1090460 | 4.60             | -                  | 80             | 47             |
| D1090470 | 4.70             | -                  | 80             | 47             |
| D1090476 | 4.76             | 3/16               | 86             | 52             |
| D1090480 | 4.80             | -                  | 86             | 52             |
| D1090490 | 4.90             | -                  | 86             | 52             |
| D1090500 | 5.00             | -                  | 86             | 52             |
| D1090510 | 5.10             | -                  | 86             | 52             |
| D1090516 | 5.16             | 13/64              | 86             | 52             |
| D1090520 | 5.20             | -                  | 86             | 52             |
| D1090530 | 5.30             | -                  | 86             | 52             |
| D1090540 | 5.40             | -                  | 93             | 57             |
| D1090550 | 5.50             | -                  | 93             | 57             |
| D1090556 | 5.56             | 7/32               | 93             | 57             |
| D1090560 | 5.60             | -                  | 93             | 57             |
| D1090570 | 5.70             | -                  | 93             | 57             |
| D1090580 | 5.80             | -                  | 93             | 57             |
| D1090590 | 5.90             | -                  | 93             | 57             |
| D1090595 | 5.95             | 15/64              | 93             | 57             |
| D1090600 | 6.00             | -                  | 93             | 57             |
| D1090610 | 6.10             | -                  | 101            | 63             |
| D1090620 | 6.20             | -                  | 101            | 63             |
| D1090630 | 6.30             | -                  | 101            | 63             |
| D1090635 | 6.35             | 1/4                | 101            | 63             |
| D1090640 | 6.40             | -                  | 101            | 63             |
| D1090650 | 6.50             | -                  | 101            | 63             |

Range:



| Item #   | Diameter d1 (mm) | Diameter d1 (inch) | Length l1 (mm) | Length l2 (mm) |
|----------|------------------|--------------------|----------------|----------------|
| D1090660 | 6.60             | -                  | 101            | 63             |
| D1090670 | 6.70             | -                  | 101            | 63             |
| D1090676 | 6.75             | 17/64              | 109            | 69             |
| D1090680 | 6.80             | -                  | 109            | 69             |
| D1090690 | 6.90             | -                  | 109            | 69             |
| D1090700 | 7.00             | -                  | 109            | 69             |
| D1090710 | 7.10             | -                  | 109            | 69             |
| D1090714 | 7.14             | 9/32               | 109            | 69             |
| D1090720 | 7.20             | -                  | 109            | 69             |
| D1090730 | 7.30             | -                  | 109            | 69             |
| D1090740 | 7.40             | -                  | 109            | 69             |
| D1090750 | 7.50             | -                  | 109            | 69             |
| D1090754 | 7.54             | 19/64              | 117            | 75             |
| D1090760 | 7.60             | -                  | 117            | 75             |
| D1090770 | 7.70             | -                  | 117            | 75             |
| D1090780 | 7.80             | -                  | 117            | 75             |
| D1090790 | 7.90             | -                  | 117            | 75             |
| D1090794 | 7.94             | 5/16               | 117            | 75             |
| D1090800 | 8.00             | -                  | 117            | 75             |
| D1090810 | 8.10             | -                  | 117            | 75             |
| D1090820 | 8.20             | -                  | 117            | 75             |
| D1090830 | 8.30             | -                  | 117            | 75             |
| D1090833 | 8.33             | 21/64              | 117            | 75             |
| D1090840 | 8.40             | -                  | 117            | 75             |
| D1090850 | 8.50             | -                  | 117            | 75             |
| D1090860 | 8.60             | -                  | 125            | 81             |
| D1090870 | 8.70             | -                  | 125            | 81             |
| D1090873 | 8.73             | 11/32              | 125            | 81             |
| D1090880 | 8.80             | -                  | 125            | 81             |
| D1090890 | 8.90             | -                  | 125            | 81             |
| D1090900 | 9.00             | -                  | 125            | 81             |
| D1090910 | 9.10             | -                  | 125            | 81             |
| D1090913 | 9.13             | 23/64              | 125            | 81             |
| D1090920 | 9.20             | -                  | 125            | 81             |
| D1090930 | 9.30             | -                  | 125            | 81             |

Range:



| Item #   | Diameter d1 (mm) | Diameter d1 (inch) | Length l1 (mm) | Length l2 (mm) |
|----------|------------------|--------------------|----------------|----------------|
| D1090940 | 9.40             | -                  | 125            | 81             |
| D1090950 | 9.50             | -                  | 125            | 81             |
| D1090953 | 9.53             | 3/8                | 133            | 87             |
| D1090960 | 9.60             | -                  | 133            | 87             |
| D1090970 | 9.70             | -                  | 133            | 87             |
| D1090980 | 9.80             | -                  | 133            | 87             |
| D1090990 | 9.90             | -                  | 133            | 87             |
| D1090992 | 9.92             | 25/64              | 133            | 87             |
| D1091000 | 10.00            | -                  | 133            | 87             |
| D1091010 | 10.10            | -                  | 133            | 87             |
| D1091020 | 10.20            | -                  | 133            | 87             |
| D1091030 | 10.30            | -                  | 133            | 87             |
| D1091032 | 10.32            | 13/32              | 133            | 87             |
| D1091040 | 10.40            | -                  | 133            | 87             |
| D1091050 | 10.50            | -                  | 133            | 87             |
| D1091060 | 10.60            | -                  | 133            | 87             |
| D1091070 | 10.70            | -                  | 142            | 94             |
| D1091072 | 10.72            | 27/64              | 142            | 94             |
| D1091080 | 10.80            | -                  | 142            | 94             |
| D1091090 | 10.90            | -                  | 142            | 94             |
| D1091100 | 11.00            | -                  | 142            | 94             |
| D1091110 | 11.10            | -                  | 142            | 94             |
| D1091111 | 11.11            | 7/16               | 142            | 94             |
| D1091120 | 11.20            | -                  | 142            | 94             |
| D1091130 | 11.30            | -                  | 142            | 94             |
| D1091140 | 11.40            | -                  | 142            | 94             |
| D1091150 | 11.50            | -                  | 142            | 94             |
| D1091151 | 11.51            | 29/64              | 142            | 94             |
| D1091160 | 11.60            | -                  | 142            | 94             |
| D1091170 | 11.70            | -                  | 142            | 94             |
| D1091180 | 11.80            | -                  | 142            | 94             |
| D1091190 | 11.90            | -                  | 142            | 94             |
| D1091191 | 11.91            | 15/32              | 151            | 101            |
| D1091200 | 12.00            | -                  | 151            | 101            |
| D1091210 | 12.10            | -                  | 151            | 101            |

## Applications:

| ISO | VDI  | Description                                                  | Condition           | Hardness | Strength | Optimal |
|-----|------|--------------------------------------------------------------|---------------------|----------|----------|---------|
| P   | 1    | Steel - Non-alloy, cast & free cutting (~ 0.15 %C)           | Annealed            | 125HB    | 440MPa   |         |
| P   | 2    | Steel - Non-alloy, cast & free cutting (~ 0.45 %C)           | Annealed            | 190HB    | 640MPa   |         |
| P   | 3    | Steel - Non-alloy, cast & free cutting (~ 0.45 %C)           | Quenched & Tempered | 250MPa   | 840MPa   | ●       |
| P   | 4    | Steel - Non-alloy, cast & free cutting (~ 0.75 %C)           | Annealed            | 270MPa   | 910MPa   | ○       |
| P   | 5    | Steel - Non-alloy, cast & free cutting (~ 0.75 %C)           | Quenched & Tempered | 300MPa   | 1010MPa  | ●       |
| P   | 6    | Steel - Low alloy & cast < 5% of alloying elements           | Annealed            | 180HB    | 610MPa   |         |
| P   | 7    | Steel - Low alloy & cast < 5% of alloying elements           | Quenched & Tempered | 275MPa   | 930MPa   | ●       |
| P   | 8    | Steel - Low alloy & cast < 5% of alloying elements           | Quenched & Tempered | 300MPa   | 1010MPa  | ●       |
| P   | 9    | Steel - Low alloy & cast < 5% of alloying elements           | Quenched & Tempered | 350MPa   | 1180MPa  | ○       |
| P   | 10   | Steel - High alloy, cast & tool                              | Annealed            | 200MPa   | 680MPa   | ○       |
| P   | 11   | Steel - High alloy, cast & tool                              | Hardened & Tempered | 325MPa   | 1100MPa  | ○       |
| P   | 12   | Steel - Corrosion resistant & cast - Ferritic / Martensitic  | Annealed            | 200HB    | 680MPa   |         |
| P   | 13   | Steel - Corrosion resistant & cast - Martensitic             | Quenched & Tempered | 240HB    | 810MPa   |         |
| M   | 14.1 | Stainless Steel - Austenitic                                 | Age Hardened        | 180MPa   | 610MPa   | ○       |
| M   | 14.2 | Stainless Steel - Duplex                                     |                     | 250MPa   | 840MPa   | ○       |
| M   | 14.3 | Stainless Steel - Precipitation Hardening                    |                     | 250HB    | 840MPa   |         |
| K   | 15   | Cast Iron, Grey (GG) - Ferritic / Pearlitic                  |                     | 180MPa   | 610MPa   | ○       |
| K   | 16   | Cast Iron, Grey (GG) - Pearlitic                             |                     | 260MPa   | 880MPa   | ○       |
| K   | 17   | Cast Iron, Nodular (GGG) - Ferritic                          |                     | 160MPa   | 570MPa   | ○       |
| K   | 18   | Cast Iron, Nodular (GGG) - Pearlitic                         |                     | 250MPa   | 840MPa   | ○       |
| K   | 19   | Cast Iron, Malleable - Ferritic                              |                     | 130MPa   | 460MPa   | ○       |
| K   | 20   | Cast Iron, Malleable - Pearlitic                             |                     | 230MPa   | 780MPa   | ○       |
| N   | 21   | Aluminum & Magnesium, wrought alloy - Non Heat Treatable     |                     | 60HB     | 210MPa   |         |
| N   | 22   | Aluminum & Magnesium, wrought alloy - Heat Treatable         | Age Hardened        | 100HB    | 360MPa   |         |
| N   | 23   | Aluminum & Magnesium, cast alloy ≤12% Si - Non Heat Treatabl |                     | 75HB     | 270MPa   |         |
| N   | 24   | Aluminum & Magnesium, cast alloy ≤12% Si - Heat Treatable    | Age Hardened        | 90HB     | 320MPa   |         |
| N   | 25   | Aluminum & Magnesium, cast alloy >12% Si - Non Heat Treatabl |                     | 130HB    | 460MPa   |         |
| N   | 26   | Copper & Copper alloys (Brass/Bronze) - Free cutting, Pb > 1 |                     | 110HB    | 390MPa   |         |
| N   | 27   | Copper & Copper alloys (Brass/Bronze) - Brass (CuZn, CuSnZn) |                     | 90MPa    | 320MPa   | ●       |
| N   | 28   | Copper & Copper alloys (Brass/Bronze) - Bronze (CuSn)        |                     | 100HB    | 360MPa   |         |
| N   | 29   | Non-metallic - Thermosetting & fiber-reinforced plastics     |                     |          |          |         |
| N   | 30   | Non-metallic - Hard rubber, wood etc.                        |                     |          |          |         |
| S   | 31   | High temperature alloys - Fe based                           | Annealed            | 200HB    | 680MPa   |         |
| S   | 32   | High temperature alloys - Fe based                           | Age Hardened        | 280HB    | 950MPa   |         |
| S   | 33   | High temperature alloys - Ni / Co based                      | Annealed            | 250HB    | 840MPa   |         |
| S   | 34   | High temperature alloys - Ni / Co based                      | Age Hardened        | 350HB    | 1180MPa  |         |
| S   | 35   | High temperature alloys - Ni / Co based                      | Cast                | 320HB    | 1080MPa  |         |
| S   | 36   | Titanium & Titanium alloys - CP Titanium                     |                     |          | 400MPa   |         |
| S   | 37.1 | Titanium & Titanium alloys - Alpha alloys                    |                     |          | 860MPa   |         |
| S   | 37.2 | Titanium & Titanium alloys - Alpha / Beta alloys             | Annealed            |          | 960MPa   |         |
| S   | 37.3 | Titanium & Titanium alloys - Alpha / Beta alloys             | Age Hardened        |          | 1170MPa  |         |
| S   | 37.4 | Titanium & Titanium alloys - Beta alloys                     | Annealed            |          | 830MPa   |         |
| S   | 37.5 | Titanium & Titanium alloys - Beta alloys                     | Age Hardened        |          | 1400MPa  |         |
| H   | 38.1 | Hardened steel                                               | Hardened & Tempered | 45       |          | ○       |
| H   | 38.2 | Hardened steel                                               | Hardened & Tempered | 55HRC    |          |         |

### KEY

● Optimal ○ Effective



Steel



Stainless



Cast Iron



Non-Ferous Metals



Titanium & Super Alloys



Hard Materials

### Applications:

| ISO | VDI  | Description         | Condition           | Hardness | Strength | Optimal |
|-----|------|---------------------|---------------------|----------|----------|---------|
| H   | 39.1 | Hardened steel      | Hardened & Tempered | 58HRC    |          |         |
| H   | 39.2 | Hardened steel      | Hardened & Tempered | 62HRC    |          |         |
| H   | 40   | Cast Iron - Chilled | Cast                | 400MPa   | 1350MPa  | o       |
| H   | 41   | Cast Iron           | Hardened & Tempered | 55HRC    |          |         |

#### KEY

☒ Optimal   ☐ Effective  
 P Steel  
 M Stainless  
 K Cast Iron  
 N Non-Ferrous Metals  
 S Titanium & Super Alloys  
 H Hard Materials

### Trade/DIY Applications:

| Wood                  |   | Metal           |   | Specialty         |   | Masonry             |  |
|-----------------------|---|-----------------|---|-------------------|---|---------------------|--|
| Soft Wood             | o | Steel           | • | PVC Plastic       | o | Masonry             |  |
| Hard Wood             | o | Hard Steel      | • | Acrylic           |   | Plasterboard        |  |
| Wood & Nails          | o | Stainless Steel | • | mineral rock wool |   | Compressed Fibre    |  |
| Chipboard             | o | Aluminium       | o | foams (EPS, PUR), |   | Cement              |  |
| Plywood               | o | Copper / Brass  | o | Polystyrene       |   | Cement Sheet        |  |
| MDF                   | o |                 | o | Leather           |   | Ceramic Tile        |  |
| Green Wood            |   | Cast Iron       | • | Rubber            |   | Hebel               |  |
|                       |   | Sheet Metal     | o | Fibreglass        |   | Brick               |  |
| Sandwich Construction | o | Precious Metals |   | Carbon Fibre      |   | Concrete            |  |
| Pallet                | o |                 |   | Glass             |   | Reinforced Concrete |  |
| Window Frame          | o | Metal Pipe      | • | Laminate          |   | Stone               |  |
|                       |   |                 |   |                   |   | Granite             |  |
|                       |   |                 |   |                   |   | Marble              |  |

#### KEY

☒ Optimal   ☐ Effective