

3xD

Series 515



FIREX® coated



External Coolant



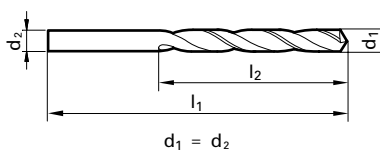
Straight Shank

Speeds & Feeds
information pg 437

GT 500 DZ High-performance

PM Cobalt, stub length, 130° cone-relief point, Special GN Type B web thinned,
standard straight shank, RH helix

Cut / Shank Dia. = h8 tolerance range



Application Materials:



Universal Steels



Stainless Steels



Hardened Materials



Cast Iron

GUHRING
Select

| Dec. inch | Diameter (d1) | | l1 mm | l2 mm | EDP # |
|--------------|----------------|------------------|----------|----------|---------------|
| | Fract. inch | Wire / letter | | | |
| 0.0394 | | | 26.00 | 6.00 | 9005150010000 |
| 0.0402 | 60 | | 26.00 | 6.00 | 9005150010200 |
| 0.0409 | 59 | | 26.00 | 6.00 | 9005150010400 |
| 0.0421 | 58 | | 28.00 | 7.00 | 9005150010700 |
| 0.0429 | 57 | | 28.00 | 7.00 | 9005150010900 |
| 0.0433 | | | 28.00 | 7.00 | 9005150011000 |
| 0.0465 | 56 | | 28.00 | 7.00 | 9005150011800 |
| 0.0469 | 3/64 | | 30.00 | 8.00 | 9005150011900 |
| 0.0472 | | | 30.00 | 8.00 | 9005150012000 |
| 0.0512 | | | 30.00 | 8.00 | 9005150013000 |
| 0.0520 | 55 | | 30.00 | 8.00 | 9005150013200 |
| 0.0551 | 54 | | 32.00 | 9.00 | 9005150014000 |
| 0.0591 | | | 32.00 | 9.00 | 9005150015000 |
| 0.0594 | 53 | | 34.00 | 10.00 | 9005150015100 |
| 0.0626 | 1/16 | | 32.00 | 9.00 | 9005150015900 |
| 0.0630 | | | 34.00 | 10.00 | 9005150016000 |
| 0.0634 | 52 | | 34.00 | 10.00 | 9005150016100 |
| 0.0669 | 51 | | 34.00 | 10.00 | 9005150017000 |
| 0.0701 | 50 | | 36.00 | 11.00 | 9005150017800 |
| 0.0709 | | | 36.00 | 11.00 | 9005150018000 |
| 0.0728 | 49 | | 36.00 | 11.00 | 9005150018500 |
| 0.0748 | | | 36.00 | 11.00 | 9005150019000 |
| 0.0760 | 48 | | 36.00 | 11.00 | 9005150019300 |
| 0.0780 | 5/64 | | 36.00 | 11.00 | 9005150019800 |
| 0.0783 | 47 | | 38.00 | 12.00 | 9005150019900 |
| 0.0787 | | | 38.00 | 12.00 | 9005150020000 |
| 0.0811 | 46 | | 38.00 | 12.00 | 9005150020600 |
| 0.0819 | 45 | | 38.00 | 12.00 | 9005150020800 |
| 0.0827 | | | 38.00 | 12.00 | 9005150021000 |
| 0.0858 | 44 | | 40.00 | 13.00 | 9005150021800 |
| 0.0866 | | | 40.00 | 13.00 | 9005150022000 |
| 0.0890 | 43 | | 40.00 | 13.00 | 9005150022600 |
| 0.0906 | | | 40.00 | 13.00 | 9005150023000 |
| 0.0933 | 42 | | 43.00 | 14.00 | 9005150023700 |
| 0.0937 | 3/32 | | 43.00 | 14.00 | 9005150023800 |
| 0.0945 | | | 43.00 | 14.00 | 9005150024000 |
| 0.0961 | 41 | | 43.00 | 14.00 | 9005150024400 |
| 0.0980 | 40 | | 43.00 | 14.00 | 9005150024900 |
| 0.0984 | | | 43.00 | 14.00 | 9005150025000 |
| 0.0996 | 39 | | 43.00 | 14.00 | 9005150025300 |
| 0.1016 | 38 | | 43.00 | 14.00 | 9005150025800 |
| 0.1024 | | | 43.00 | 14.00 | 9005150026000 |
| 0.1039 | 37 | | 43.00 | 14.00 | 9005150026400 |
| 0.1063 | | | 46.00 | 16.00 | 9005150027000 |
| 0.1067 | 36 | | 46.00 | 16.00 | 9005150027100 |
| 0.1094 | 7/64 | | 46.00 | 16.00 | 9005150027800 |
| 0.1098 | 35 | | 46.00 | 16.00 | 9005150027900 |
| 0.1102 | | | 46.00 | 16.00 | 9005150028000 |
| 0.1110 | 34 | | 46.00 | 16.00 | 9005150028200 |
| 0.1130 | 33 | | 46.00 | 16.00 | 9005150028700 |
| 0.1142 | | | 46.00 | 16.00 | 9005150029000 |
| 0.1161 | 32 | | 46.00 | 16.00 | 9005150029500 |
| 0.1181 | | | 46.00 | 16.00 | 9005150030000 |
| 0.1201 | 31 | | 49.00 | 18.00 | 9005150030500 |

| Dec. inch | Diameter (d1) | | l1 mm | l2 mm | EDP # |
|--------------|----------------|------------------|----------|----------|---------------|
| | Fract. inch | Wire / letter | | | |
| 0.1220 | | | 49.00 | 18.00 | 9005150031000 |
| 0.1248 | 1/8 | | 49.00 | 18.00 | 9005150031700 |
| 0.1260 | | | 49.00 | 18.00 | 9005150032000 |
| 0.1283 | | 30 | 49.00 | 18.00 | 9005150032600 |
| 0.1299 | | | 49.00 | 18.00 | 9005150033000 |
| 0.1339 | | | 52.00 | 20.00 | 9005150034000 |
| 0.1358 | | 29 | 52.00 | 20.00 | 9005150034500 |
| 0.1378 | | | 52.00 | 20.00 | 9005150035000 |
| 0.1406 | 9/64 | 28 | 52.00 | 20.00 | 9005150035700 |
| 0.1417 | | | 52.00 | 20.00 | 9005150036000 |
| 0.1441 | | 27 | 52.00 | 20.00 | 9005150036600 |
| 0.1457 | | | 52.00 | 20.00 | 9005150037000 |
| 0.1469 | | 26 | 52.00 | 20.00 | 9005150037300 |
| 0.1496 | | 25 | 55.00 | 22.00 | 9005150038000 |
| 0.1520 | | 24 | 55.00 | 22.00 | 9005150038600 |
| 0.1535 | | | 55.00 | 22.00 | 9005150039000 |
| 0.1539 | | 23 | 55.00 | 22.00 | 9005150039100 |
| 0.1563 | 5/32 | | 55.00 | 22.00 | 9005150039700 |
| 0.1571 | | 22 | 55.00 | 22.00 | 9005150039900 |
| 0.1575 | | | 55.00 | 22.00 | 9005150040000 |
| 0.1591 | | 21 | 55.00 | 22.00 | 9005150040400 |
| 0.1610 | | 20 | 55.00 | 22.00 | 9005150040900 |
| 0.1614 | | | 55.00 | 22.00 | 9005150041000 |
| 0.1654 | | | 55.00 | 22.00 | 9005150042000 |
| 0.1661 | | 19 | 55.00 | 22.00 | 9005150042200 |
| 0.1693 | | 18 | 58.00 | 24.00 | 9005150043000 |
| 0.1720 | 11/64 | | 58.00 | 24.00 | 9005150043700 |
| 0.1728 | | 17 | 58.00 | 24.00 | 9005150043900 |
| 0.1732 | | | 58.00 | 24.00 | 9005150044000 |
| 0.1772 | | 16 | 58.00 | 24.00 | 9005150045000 |
| 0.1799 | | 15 | 58.00 | 24.00 | 9005150045700 |
| 0.1811 | | | 58.00 | 24.00 | 9005150046000 |
| 0.1819 | | 14 | 58.00 | 24.00 | 9005150046200 |
| 0.1850 | | 13 | 58.00 | 24.00 | 9005150047000 |
| 0.1874 | 3/16 | | 62.00 | 26.00 | 9005150047600 |
| 0.1890 | | 12 | 62.00 | 26.00 | 9005150048000 |
| 0.1909 | | 11 | 62.00 | 26.00 | 9005150048500 |
| 0.1929 | | | 62.00 | 26.00 | 9005150049000 |
| 0.1937 | | 10 | 62.00 | 26.00 | 9005150049200 |
| 0.1961 | | 9 | 62.00 | 26.00 | 9005150049800 |
| 0.1969 | | | 62.00 | 26.00 | 9005150050000 |
| 0.1992 | | 8 | 62.00 | 26.00 | 9005150050600 |
| 0.2008 | | | 62.00 | 26.00 | 9005150051000 |
| 0.2012 | | 7 | 62.00 | 26.00 | 9005150051100 |
| 0.2031 | 13/64 | | 62.00 | 26.00 | 9005150051600 |
| 0.2039 | | 6 | 62.00 | 26.00 | 9005150051800 |
| 0.2047 | | | 62.00 | 26.00 | 9005150052000 |
| 0.2055 | | 5 | 62.00 | 26.00 | 9005150052200 |
| 0.2087 | | | 62.00 | 26.00 | 9005150053000 |
| 0.2091 | | 4 | 66.00 | 28.00 | 9005150053100 |
| 0.2126 | | | 66.00 | 28.00 | 9005150054000 |
| 0.2130 | | 3 | 66.00 | 28.00 | 9005150054100 |
| 0.2165 | | | 66.00 | 28.00 | 9005150055000 |
| 0.2185 | | | 66.00 | 28.00 | 9005150055500 |

Series 515

Speeds & Feeds information pg 437

| Dec. inch | Diameter (d1) | | I1 mm | I2 mm | EDP # | |
|-----------|---------------|---------------|-------|-------|-------|---------------|
| | Fract. inch | Wire / letter | | | | |
| 0.2189 | 7/32 | | 5.560 | 66.00 | 28.00 | 9005150055600 |
| 0.2205 | | | 5.600 | 66.00 | 28.00 | 9005150056000 |
| 0.2209 | | 2 | 5.610 | 66.00 | 28.00 | 9005150056100 |
| 0.2244 | | | 5.700 | 66.00 | 28.00 | 9005150057000 |
| 0.2280 | | 1 | 5.790 | 66.00 | 28.00 | 9005150057900 |
| 0.2283 | | | 5.800 | 66.00 | 28.00 | 9005150058000 |
| 0.2323 | | | 5.900 | 66.00 | 28.00 | 9005150059000 |
| 0.2339 | | A | 5.940 | 66.00 | 28.00 | 9005150059400 |
| 0.2343 | 15/64 | | 5.950 | 66.00 | 28.00 | 9005150059500 |
| 0.2362 | | | 6.000 | 66.00 | 28.00 | 9005150060000 |
| 0.2378 | | B | 6.040 | 70.00 | 31.00 | 9005150060400 |
| 0.2402 | | | 6.100 | 70.00 | 31.00 | 9005150061000 |
| 0.2421 | | C | 6.150 | 70.00 | 31.00 | 9005150061500 |
| 0.2441 | | | 6.200 | 70.00 | 31.00 | 9005150062000 |
| 0.2461 | | D | 6.250 | 70.00 | 31.00 | 9005150062500 |
| 0.2480 | | | 6.300 | 70.00 | 31.00 | 9005150063000 |
| 0.2500 | 1/4 | E | 6.350 | 70.00 | 31.00 | 9005150063500 |
| 0.2520 | | | 6.400 | 70.00 | 31.00 | 9005150064000 |
| 0.2559 | | | 6.500 | 70.00 | 31.00 | 9005150065000 |
| 0.2571 | | F | 6.530 | 70.00 | 31.00 | 9005150065300 |
| 0.2598 | | | 6.600 | 70.00 | 31.00 | 9005150066000 |
| 0.2610 | | G | 6.630 | 70.00 | 31.00 | 9005150066300 |
| 0.2638 | | | 6.700 | 70.00 | 31.00 | 9005150067000 |
| 0.2657 | 17/64 | | 6.750 | 70.00 | 31.00 | 9005150067500 |
| 0.2677 | | | 6.800 | 74.00 | 34.00 | 9005150068000 |
| 0.2717 | | I | 6.900 | 74.00 | 34.00 | 9005150069000 |
| 0.2756 | | | 7.000 | 74.00 | 34.00 | 9005150070000 |
| 0.2768 | | J | 7.030 | 74.00 | 34.00 | 9005150070300 |
| 0.2795 | | | 7.100 | 74.00 | 34.00 | 9005150071000 |
| 0.2811 | 9/32 | K | 7.140 | 74.00 | 34.00 | 9005150071400 |
| 0.2835 | | | 7.200 | 74.00 | 34.00 | 9005150072000 |
| 0.2874 | | | 7.300 | 74.00 | 34.00 | 9005150073000 |
| 0.2902 | | L | 7.370 | 74.00 | 34.00 | 9005150073700 |
| 0.2913 | | | 7.400 | 74.00 | 34.00 | 9005150074000 |
| 0.2949 | | M | 7.490 | 74.00 | 34.00 | 9005150074900 |
| 0.2953 | | | 7.500 | 74.00 | 34.00 | 9005150075000 |
| 0.2969 | 19/64 | | 7.540 | 74.00 | 34.00 | 9005150075400 |
| 0.2992 | | | 7.600 | 79.00 | 37.00 | 9005150076000 |
| 0.3020 | | N | 7.670 | 79.00 | 37.00 | 9005150076700 |
| 0.3031 | | | 7.700 | 79.00 | 37.00 | 9005150077000 |
| 0.3071 | | | 7.800 | 79.00 | 37.00 | 9005150078000 |
| 0.3110 | | | 7.900 | 79.00 | 37.00 | 9005150079000 |
| 0.3126 | 5/16 | | 7.940 | 79.00 | 37.00 | 9005150079400 |
| 0.3150 | | | 8.000 | 79.00 | 37.00 | 9005150080000 |
| 0.3161 | | O | 8.030 | 79.00 | 37.00 | 9005150080300 |
| 0.3189 | | | 8.100 | 79.00 | 37.00 | 9005150081000 |
| 0.3228 | | P | 8.200 | 79.00 | 37.00 | 9005150082000 |
| 0.3268 | | | 8.300 | 79.00 | 37.00 | 9005150083000 |
| 0.3280 | 21/64 | | 8.330 | 79.00 | 37.00 | 9005150083300 |
| 0.3307 | | | 8.400 | 79.00 | 37.00 | 9005150084000 |
| 0.3319 | | Q | 8.430 | 79.00 | 37.00 | 9005150084300 |
| 0.3346 | | | 8.500 | 79.00 | 37.00 | 9005150085000 |
| 0.3386 | | | 8.600 | 84.00 | 40.00 | 9005150086000 |
| 0.3390 | | R | 8.610 | 84.00 | 40.00 | 9005150086100 |

| Dec. inch | Diameter (d1) | | I1 mm | I2 mm | EDP # | |
|-----------|---------------|---------------|--------|--------|-------|---------------|
| | Fract. inch | Wire / letter | | | | |
| 0.3425 | | | 8.700 | 84.00 | 40.00 | 9005150087000 |
| 0.3437 | 11/32 | | 8.730 | 84.00 | 40.00 | 9005150087300 |
| 0.3465 | | | 8.800 | 84.00 | 40.00 | 9005150088000 |
| 0.3480 | | S | 8.840 | 84.00 | 40.00 | 9005150088400 |
| 0.3504 | | | 8.900 | 84.00 | 40.00 | 9005150089000 |
| 0.3543 | | | 9.000 | 84.00 | 40.00 | 9005150090000 |
| 0.3579 | | T | 9.090 | 84.00 | 40.00 | 9005150090900 |
| 0.3583 | | | 9.100 | 84.00 | 40.00 | 9005150091000 |
| 0.3594 | 23/64 | | 9.130 | 84.00 | 40.00 | 9005150091300 |
| 0.3622 | | | 9.200 | 84.00 | 40.00 | 9005150092000 |
| 0.3661 | | | 9.300 | 84.00 | 40.00 | 9005150093000 |
| 0.3677 | | U | 9.340 | 84.00 | 40.00 | 9005150093400 |
| 0.3681 | | | 9.350 | 84.00 | 40.00 | 9005150093500 |
| 0.3701 | | | 9.400 | 84.00 | 40.00 | 9005150094000 |
| 0.3740 | | | 9.500 | 84.00 | 40.00 | 9005150095000 |
| 0.3748 | 3/8 | | 9.520 | 84.00 | 40.00 | 9005150095200 |
| 0.3772 | | V | 9.580 | 89.00 | 43.00 | 9005150095800 |
| 0.3780 | | | 9.600 | 84.00 | 40.00 | 9005150096000 |
| 0.3819 | | | 9.700 | 84.00 | 40.00 | 9005150097000 |
| 0.3858 | | W | 9.800 | 89.00 | 43.00 | 9005150098000 |
| 0.3898 | | | 9.900 | 84.00 | 40.00 | 9005150099000 |
| 0.3906 | 25/64 | | 9.920 | 89.00 | 43.00 | 9005150099200 |
| 0.3937 | | | 10.000 | 89.00 | 43.00 | 9005150100000 |
| 0.3969 | | X | 10.080 | 89.00 | 43.00 | 9005150100800 |
| 0.4016 | | | 10.200 | 89.00 | 43.00 | 9005150102000 |
| 0.4039 | | Y | 10.260 | 89.00 | 43.00 | 9005150102600 |
| 0.4063 | 13/32 | | 10.320 | 89.00 | 43.00 | 9005150103200 |
| 0.4130 | | Z | 10.490 | 89.00 | 43.00 | 9005150104900 |
| 0.4134 | | | 10.500 | 89.00 | 43.00 | 9005150105000 |
| 0.4220 | 27/64 | | 10.720 | 89.00 | 43.00 | 9005150107200 |
| 0.4331 | | | 11.000 | 95.00 | 47.00 | 9005150110000 |
| 0.4374 | 7/16 | | 11.110 | 95.00 | 47.00 | 9005150111100 |
| 0.4528 | | | 11.500 | 95.00 | 47.00 | 9005150115000 |
| 0.4531 | 29/64 | | 11.510 | 84.00 | 40.00 | 9005150115100 |
| 0.4646 | | | 11.800 | 84.00 | 40.00 | 9005150118000 |
| 0.4689 | 15/32 | | 11.910 | 95.00 | 47.00 | 9005150119100 |
| 0.4724 | | | 12.000 | 102.00 | 51.00 | 9005150120000 |
| 0.4843 | 31/64 | | 12.300 | 102.00 | 51.00 | 9005150123000 |
| 0.4921 | | | 12.500 | 102.00 | 51.00 | 9005150125000 |
| 0.5000 | 1/2 | | 12.700 | 102.00 | 51.00 | 9005150127000 |
| 0.5118 | | | 13.000 | 102.00 | 51.00 | 9005150130000 |
| 0.5157 | 33/64 | | 13.100 | 102.00 | 51.00 | 9005150131000 |
| 0.5311 | 17/32 | | 13.490 | 107.00 | 54.00 | 9005150134900 |
| 0.5315 | | | 13.500 | 107.00 | 54.00 | 9005150135000 |
| 0.5512 | | | 14.000 | 107.00 | 54.00 | 9005150140000 |
| 0.5626 | 9/16 | | 14.290 | 111.00 | 56.00 | 9005150142900 |

Alternative Drill Series:

- #5521 PM Cobalt, GT500, 3xD, 130 pt, TiN
- #659 Cobalt, GV120, 3xD, 130 pt, TiN
- #223 HSS, GP, 3xD, 118 pt, Bright (>2.36mm Steam Oxide)
- #653 HSS, GP, 3xD, 118 pt, TiN

*Items listed in red are non-stocked items, and may take 2 - 6 weeks to receive