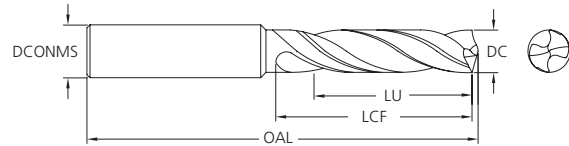
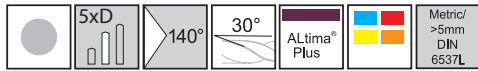


## CYCLONE CXD 5xD - Series CXDSR

Designed for high performance drilling in a broad range of materials.



- Double Margin.
- Usable length (LU) = LCF - (1.5 x DC).

| ALtima® Plus |       | DC (m7) |                 |     |         | DCONMS (h6) |     | OAL  |    | LCF   |    |
|--------------|-------|---------|-----------------|-----|---------|-------------|-----|------|----|-------|----|
| Tool No.     | EDP   | Inch    | Letter/<br>Wire | mm  | Decimal | Inch        | mm  | Inch | mm | Inch  | mm |
| CXDSR 0300AP | 06467 |         |                 | 3.0 | .1181   |             | 3.0 |      | 66 |       | 28 |
| CXDSR1200AP  | 06468 |         | #31             |     | .1200   | 1/8         |     | 2.60 |    | 1.102 |    |
| CXDSR 0310AP | 06469 |         |                 | 3.1 | .1220   |             | 4.0 |      | 66 |       | 28 |
| CXDSR1250AP  | 06470 | 1/8     |                 |     | .1250   | 1/8         |     | 2.60 |    | 1.102 |    |
| CXDSR 0320AP | 06471 |         |                 | 3.2 | .1260   |             | 4.0 |      | 66 |       | 28 |
| CXDSR1285AP  | 06472 |         | #30             |     | .1285   | 5/32        |     | 2.60 |    | 1.102 |    |
| CXDSR 0330AP | 06473 |         |                 | 3.3 | .1299   |             | 4.0 |      | 66 |       | 28 |
| CXDSR 0340AP | 06474 |         |                 | 3.4 | .1339   |             | 4.0 |      | 66 |       | 28 |
| CXDSR1360AP  | 06475 |         | #29             |     | .1360   | 5/32        |     | 2.60 |    | 1.102 |    |
| CXDSR 0350AP | 06476 |         |                 | 3.5 | .1378   |             | 4.0 |      | 66 |       | 28 |
| CXDSR1406AP  | 06477 | 9/64    |                 |     | .1406   | 5/32        |     | 2.60 |    | 1.102 |    |
| CXDSR 0360AP | 06478 |         |                 | 3.6 | .1417   |             | 4.0 |      | 66 |       | 28 |
| CXDSR 0370AP | 06479 |         |                 | 3.7 | .1457   |             | 4.0 |      | 66 |       | 28 |
| CXDSR 0380AP | 06480 |         |                 | 3.8 | .1496   |             | 4.0 |      | 74 |       | 36 |
| CXDSR1520AP  | 06481 |         | #24             |     | .1520   | 5/32        |     | 2.91 |    | 1.417 |    |
| CXDSR 0390AP | 06482 |         |                 | 3.9 | .1535   |             | 4.0 |      | 74 |       | 36 |
| CXDSR1562AP  | 06483 | 5/32    |                 |     | .1562   | 5/32        |     | 2.91 |    | 1.417 |    |
| CXDSR 0400AP | 06484 |         |                 | 4.0 | .1575   |             | 4.0 |      | 74 |       | 36 |
| CXDSR1590AP  | 06485 |         | #21             |     | .1590   | 3/16        |     | 2.91 |    | 1.417 |    |
| CXDSR 0410AP | 06486 |         |                 | 4.1 | .1614   |             | 5.0 |      | 74 |       | 36 |
| CXDSR 0420AP | 06487 |         |                 | 4.2 | .1654   |             | 5.0 |      | 74 |       | 36 |
| CXDSR 0430AP | 06488 |         |                 | 4.3 | .1693   |             | 5.0 |      | 74 |       | 36 |
| CXDSR1719AP  | 06489 | 11/64   |                 |     | .1719   | 3/16        |     | 2.91 |    | 1.417 |    |
| CXDSR 0440AP | 06490 |         |                 | 4.4 | .1732   |             | 5.0 |      | 74 |       | 36 |
| CXDSR 0450AP | 06491 |         |                 | 4.5 | .1772   |             | 5.0 |      | 74 |       | 36 |
| CXDSR 0460AP | 06492 |         |                 | 4.6 | .1811   |             | 5.0 |      | 74 |       | 36 |
| CXDSR 0470AP | 06493 |         |                 | 4.7 | .1850   |             | 5.0 |      | 74 |       | 36 |
| CXDSR1875AP  | 06494 | 3/16    |                 |     | .1875   | 3/16        |     | 3.23 |    | 1.732 |    |
| CXDSR 0480AP | 06495 |         |                 | 4.8 | .1890   |             | 5.0 |      | 82 |       | 44 |
| CXDSR 0490AP | 06496 |         |                 | 4.9 | .1929   |             | 5.0 |      | 82 |       | 44 |
| CXDSR 0500AP | 06497 |         |                 | 5.0 | .1968   |             | 5.0 |      | 82 |       | 44 |

| Inch          |                 |
|---------------|-----------------|
| DC            | Tolerance (m7)  |
| .0000 - .1181 | +0.0008/+0.0047 |
| .1182 - .2362 | +0.0016/+0.0063 |
| .2363 - .3937 | +0.0024/+0.0083 |
| .3938 - .7087 | +0.0027/+0.0098 |

| Inch          |                |
|---------------|----------------|
| DCONMS        | Tolerance (h6) |
| .0000 - .1181 | +0/-0.0024     |
| .1182 - .2362 | +0/-0.0031     |
| .2363 - .3937 | +0/-0.0035     |
| .3938 - .7087 | +0/-0.0043     |

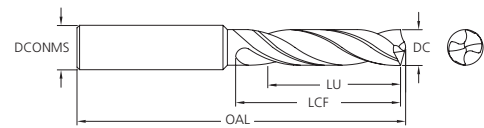
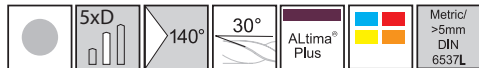
| Metric (mm)  |                |
|--------------|----------------|
| DC           | Tolerance (m7) |
| 0 - 3.0      | +0.02/+0.12    |
| 3.01 - 6.0   | +0.04/+0.16    |
| 6.01 - 10.0  | +0.06/+0.21    |
| 10.01 - 18.0 | +0.07/+0.25    |

| Metric (mm)  |                |
|--------------|----------------|
| DCONMS       | Tolerance (h6) |
| 0 - 3.0      | +0/-0.006      |
| 3.01 - 6.0   | +0/-0.008      |
| 6.01 - 10.0  | +0/-0.009      |
| 10.01 - 18.0 | +0/-0.011      |



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## CYCLONE CXD 5xD - Series CXDSR *Continued*



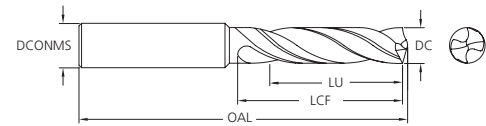
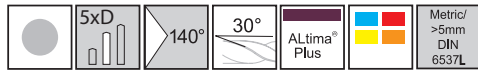
| ALtima® Plus |       | DC (m7) |                 |     |         | DCONMS (h6) |     | OAL  |    | LCF   |    |
|--------------|-------|---------|-----------------|-----|---------|-------------|-----|------|----|-------|----|
| Tool No.     | EDP   | Inch    | Letter/<br>Wire | mm  | Decimal | Inch        | mm  | Inch | mm | Inch  | mm |
| CXDSR 0510AP | 06498 |         |                 | 5.1 | .2008   |             | 6.0 |      | 82 |       | 44 |
| CXDSR2031AP  | 06499 | 13/64   |                 |     | .2031   | 1/4         |     | 3.23 |    | 1.732 |    |
| CXDSR 0520AP | 06500 |         |                 | 5.2 | .2047   |             | 6.0 |      | 82 |       | 44 |
| CXDSR 0530AP | 06501 |         |                 | 5.3 | .2087   |             | 6.0 |      | 82 |       | 44 |
| CXDSR 0540AP | 06502 |         |                 | 5.4 | .2126   |             | 6.0 |      | 82 |       | 44 |
| CXDSR 0550AP | 06503 |         |                 | 5.5 | .2165   |             | 6.0 |      | 82 |       | 44 |
| CXDSR2187AP  | 06504 | 7/32    |                 |     | .2187   | 1/4         |     | 3.23 |    | 1.732 |    |
| CXDSR 0560AP | 07092 |         |                 | 5.6 | .2205   |             | 6.0 |      | 82 |       | 44 |
| CXDSR2210AP  | 06505 |         | #2              |     | .2210   | 1/4         |     | 3.23 |    | 1.732 |    |
| CXDSR 0570AP | 06506 |         |                 | 5.7 | .2244   |             | 6.0 |      | 82 |       | 44 |
| CXDSR 0580AP | 06507 |         |                 | 5.8 | .2283   |             | 6.0 |      | 82 |       | 44 |
| CXDSR 0590AP | 06508 |         |                 | 5.9 | .2323   |             | 6.0 |      | 82 |       | 44 |
| CXDSR2344AP  | 06509 | 15/64   |                 |     | .2344   | 1/4         |     | 3.23 |    | 1.732 |    |
| CXDSR 0600AP | 06510 |         |                 | 6.0 | .2362   |             | 6.0 |      | 82 |       | 44 |
| CXDSR 0610AP | 06511 |         |                 | 6.1 | .2402   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2420AP  | 06512 |         | C               |     | .2420   | 1/4         |     | 3.58 |    | 2.087 |    |
| CXDSR 0620AP | 06513 |         |                 | 6.2 | .2441   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2460AP  | 06514 |         | D               |     | .2460   | 1/4         |     | 3.58 |    | 2.087 |    |
| CXDSR 0630AP | 06515 |         |                 | 6.3 | .2480   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2500AP  | 06516 | 1/4     |                 |     | .2500   | 1/4         |     | 3.58 |    | 2.087 |    |
| CXDSR 0640AP | 06517 |         |                 | 6.4 | .2520   |             | 8.0 |      | 91 |       | 53 |
| CXDSR 0650AP | 06518 |         |                 | 6.5 | .2559   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2570AP  | 06519 |         | F               |     | .2570   | 5/16        |     | 3.58 |    | 2.087 |    |
| CXDSR 0660AP | 06520 |         |                 | 6.6 | .2598   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2610AP  | 06521 |         | G               |     | .2610   | 5/16        |     | 3.58 |    | 2.087 |    |
| CXDSR 0670AP | 06522 |         |                 | 6.7 | .2638   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2656AP  | 06523 | 17/64   |                 |     | .2656   | 5/16        |     | 3.58 |    | 2.087 |    |
| CXDSR 0680AP | 06524 |         |                 | 6.8 | .2677   |             | 8.0 |      | 91 |       | 53 |
| CXDSR 0690AP | 06525 |         |                 | 6.9 | .2717   |             | 8.0 |      | 91 |       | 53 |
| CXDSR 0700AP | 06526 |         |                 | 7.0 | .2756   |             | 8.0 |      | 91 |       | 53 |
| CXDSR 0710AP | 06527 |         |                 | 7.1 | .2795   |             | 8.0 |      | 91 |       | 53 |
| CXDSR2812AP  | 06528 | 9/32    |                 |     | .2812   | 5/16        |     | 3.58 |    | 2.087 |    |
| CXDSR 0720AP | 06529 |         |                 | 7.2 | .2835   |             | 8.0 |      | 91 |       | 53 |
| CXDSR 0730AP | 06530 |         |                 | 7.3 | .2874   |             | 8.0 |      | 91 |       | 53 |
| CXDSR 0740AP | 06531 |         |                 | 7.4 | .2913   |             | 8.0 |      | 91 |       | 53 |



| ALtima® Plus |       | DC (m7) |                 |      |         | DCONMS (h6) |      | OAL  |     | LCF   |    |
|--------------|-------|---------|-----------------|------|---------|-------------|------|------|-----|-------|----|
| Tool No.     | EDP   | Inch    | Letter/<br>Wire | mm   | Decimal | Inch        | mm   | Inch | mm  | Inch  | mm |
| CXDSR 0750AP | 06532 |         |                 | 7.5  | .2953   |             | 8.0  |      | 91  |       | 53 |
| CXDSR2969AP  | 06533 | 19/64   |                 |      | .2969   | 5/16        |      | 3.58 |     | 2.087 |    |
| CXDSR 0760AP | 06534 |         |                 | 7.6  | .2992   |             | 8.0  |      | 91  |       | 53 |
| CXDSR 0770AP | 06535 |         |                 | 7.7  | .3031   |             | 8.0  |      | 91  |       | 53 |
| CXDSR 0780AP | 06536 |         |                 | 7.8  | .3071   |             | 8.0  |      | 91  |       | 53 |
| CXDSR 0790AP | 06537 |         |                 | 7.9  | .3110   |             | 8.0  |      | 91  |       | 53 |
| CXDSR3125AP  | 06538 | 5/16    |                 |      | .3125   | 5/16        |      | 3.58 |     | 2.087 |    |
| CXDSR 0800AP | 06539 |         |                 | 8.0  | .3150   |             | 8.0  |      | 91  |       | 53 |
| CXDSR 0810AP | 06540 |         |                 | 8.1  | .3189   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0820AP | 06541 |         |                 | 8.2  | .3228   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0830AP | 06542 |         |                 | 8.3  | .3268   |             | 10.0 |      | 103 |       | 61 |
| CXDSR3281AP  | 06543 | 21/64   |                 |      | .3281   | 3/8         |      | 4.06 |     | 2.402 |    |
| CXDSR 0840AP | 06544 |         |                 | 8.4  | .3307   |             | 10.0 |      | 103 |       | 61 |
| CXDSR3320AP  | 06545 |         | Q               |      | .3320   | 3/8         |      | 4.06 |     | 2.402 |    |
| CXDSR 0850AP | 06546 |         |                 | 8.5  | .3346   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0860AP | 06547 |         |                 | 8.6  | .3386   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0870AP | 06548 |         |                 | 8.7  | .3425   |             | 10.0 |      | 103 |       | 61 |
| CXDSR3438AP  | 06549 | 11/32   |                 |      | .3438   | 3/8         |      | 4.06 |     | 2.402 |    |
| CXDSR 0880AP | 06550 |         |                 | 8.8  | .3465   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0890AP | 06551 |         |                 | 8.9  | .3504   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0900AP | 06552 |         |                 | 9.0  | .3543   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0910AP | 06553 |         |                 | 9.1  | .3583   |             | 10.0 |      | 103 |       | 61 |
| CXDSR3594AP  | 06554 | 23/64   |                 |      | .3594   | 3/8         |      | 4.06 |     | 2.402 |    |
| CXDSR 0920AP | 06555 |         |                 | 9.2  | .3622   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0925AP | 06556 |         |                 | 9.25 | .3642   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0930AP | 06557 |         |                 | 9.3  | .3661   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0940AP | 06558 |         |                 | 9.4  | .3701   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0950AP | 06559 |         |                 | 9.5  | .3740   |             | 10.0 |      | 103 |       | 61 |
| CXDSR3750AP  | 06560 | 3/8     |                 |      | .3750   | 3/8         |      | 4.06 |     | 2.402 |    |
| CXDSR 0960AP | 06561 |         |                 | 9.6  | .3780   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0970AP | 06562 |         |                 | 9.7  | .3819   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0980AP | 06563 |         |                 | 9.8  | .3858   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 0990AP | 06564 |         |                 | 9.9  | .3898   |             | 10.0 |      | 103 |       | 61 |
| CXDSR3906AP  | 06565 | 25/64   |                 |      | .3906   | 7/16        |      | 4.06 |     | 2.402 |    |
| CXDSR 1000AP | 06566 |         |                 | 10.0 | .3937   |             | 10.0 |      | 103 |       | 61 |
| CXDSR 1010AP | 06567 |         |                 | 10.1 | .3976   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1020AP | 06568 |         |                 | 10.2 | .4016   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1030AP | 06569 |         |                 | 10.3 | .4055   |             | 12.0 |      | 118 |       | 71 |
| CXDSR4062AP  | 06570 | 13/32   |                 |      | .4062   | 7/16        |      | 4.65 |     | 2.795 |    |
| CXDSR 1040AP | 06571 |         |                 | 10.4 | .4094   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1050AP | 06572 |         |                 | 10.5 | .4134   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1060AP | 06573 |         |                 | 10.6 | .4173   |             | 12.0 |      | 118 |       | 71 |



## CYCLONE CXD 5xD - Series CXDSR *Continued*



| ALtima® Plus |       | DC (m7) |                 |       |         | DCONMS (h6) |      | OAL  |     | LCF   |    |
|--------------|-------|---------|-----------------|-------|---------|-------------|------|------|-----|-------|----|
| Tool No.     | EDP   | Inch    | Letter/<br>Wire | mm    | Decimal | Inch        | mm   | Inch | mm  | Inch  | mm |
| CXDSR 1070AP | 06574 |         |                 | 10.7  | .4213   |             | 12.0 |      | 118 |       | 71 |
| CXDSR4219AP  | 06575 | 27/64   |                 |       | .4219   | 7/16        |      | 4.65 |     | 2.795 |    |
| CXDSR 1080AP | 06576 |         |                 | 10.8  | .4252   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1090AP | 06577 |         |                 | 10.9  | .4291   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1100AP | 06578 |         |                 | 11.0  | .4331   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1110AP | 06579 |         |                 | 11.1  | .4370   |             | 12.0 |      | 118 |       | 71 |
| CXDSR4375AP  | 06580 | 7/16    |                 |       | .4375   | 7/16        |      | 4.65 |     | 2.795 |    |
| CXDSR 1120AP | 06581 |         |                 | 11.2  | .4409   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1130AP | 06582 |         |                 | 11.3  | .4449   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1140AP | 06583 |         |                 | 11.4  | .4488   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1150AP | 06584 |         |                 | 11.5  | .4527   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1160AP | 06585 |         |                 | 11.6  | .4567   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1170AP | 06586 |         |                 | 11.7  | .4606   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1180AP | 06587 |         |                 | 11.8  | .4646   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1190AP | 06588 |         |                 | 11.9  | .4685   |             | 12.0 |      | 118 |       | 71 |
| CXDSR4688AP  | 06589 | 15/32   |                 |       | .4688   | 1/2         |      | 4.65 |     | 2.795 |    |
| CXDSR 1200AP | 06590 |         |                 | 12.0  | .4724   |             | 12.0 |      | 118 |       | 71 |
| CXDSR 1210AP | 06591 |         |                 | 12.1  | .4764   |             | 14.0 |      | 124 |       | 77 |
| CXDSR4844AP  | 06592 | 31/64   |                 |       | .4844   | 1/2         |      | 4.88 |     | 3.031 |    |
| CXDSR 1250AP | 06593 |         |                 | 12.5  | .4921   |             | 14.0 |      | 124 |       | 77 |
| CXDSR5000AP  | 06594 | 1/2     |                 |       | .5000   | 1/2         |      | 4.88 |     | 3.031 |    |
| CXDSR 1280AP | 06595 |         |                 | 12.8  | .5039   |             | 14.0 |      | 124 |       | 77 |
| CXDSR 1283AP | 06596 |         |                 | 12.83 | .5051   |             | 14.0 |      | 124 |       | 77 |
| CXDSR 1290AP | 06597 |         |                 | 12.9  | .5079   |             | 14.0 |      | 124 |       | 77 |
| CXDSR 1300AP | 06598 |         |                 | 13.0  | .5118   |             | 14.0 |      | 124 |       | 77 |
| CXDSR5156AP  | 06599 | 33/64   |                 |       | .5156   | 9/16        |      | 4.88 |     | 3.031 |    |
| CXDSR5312AP  | 06600 | 17/32   |                 |       | .5312   | 9/16        |      | 4.88 |     | 3.031 |    |
| CXDSR 1350AP | 06601 |         |                 | 13.5  | .5315   |             | 14.0 |      | 124 |       | 77 |
| CXDSR 1370AP | 06602 |         |                 | 13.7  | .5394   |             | 14.0 |      | 124 |       | 77 |
| CXDSR5469AP  | 06603 | 35/64   |                 |       | .5469   | 9/16        |      | 4.88 |     | 3.031 |    |
| CXDSR 1400AP | 06604 |         |                 | 14.0  | .5512   |             | 14.0 |      | 124 |       | 77 |
| CXDSR5625AP  | 06605 | 9/16    |                 |       | .5625   | 9/16        |      | 5.24 |     | 3.268 |    |
| CXDSR 1450AP | 06606 |         |                 | 14.5  | .5709   |             | 16.0 |      | 133 |       | 83 |
| CXDSR 1470AP | 06607 |         |                 | 14.7  | .5787   |             | 16.0 |      | 133 |       | 83 |
| CXDSR 1500AP | 06608 |         |                 | 15.0  | .5905   |             | 16.0 |      | 133 |       | 83 |
| CXDSR5938AP  | 06609 | 19/32   |                 |       | .5938   | 5/8         |      | 5.24 |     | 3.268 |    |
| CXDSR 1530AP | 06610 |         |                 | 15.3  | .6024   |             | 16.0 |      | 133 |       | 83 |
| CXDSR 1550AP | 06611 |         |                 | 15.5  | .6102   |             | 16.0 |      | 133 |       | 83 |
| CXDSR 1570AP | 06612 |         |                 | 15.7  | .6181   |             | 16.0 |      | 133 |       | 83 |
| CXDSR6250AP  | 06613 | 5/8     |                 |       | .6250   | 5/8         |      | 5.24 |     | 3.268 |    |
| CXDSR 1600AP | 06614 |         |                 | 16.0  | .6299   |             | 16.0 |      | 133 |       | 83 |