

# Hub City™ Worm Gear Drives

## Double Reduction

## PowerCubeX® Worm Speed Reducer Catalog Ratings

### 3800 Series • 210 Primary • 380 Secondary

| SERIES | INPUT RPM | UNIT RATIO | OUTPUT RPM | PRIM. RATIO | SEC. RATIO | ALL      | CONVENTIONAL OIL |               | PAO SYNTHETIC OIL |               | PAG SYNTHETIC OIL |               |
|--------|-----------|------------|------------|-------------|------------|----------|------------------|---------------|-------------------|---------------|-------------------|---------------|
|        |           |            |            |             |            | INPUT HP | EFF. %           | OUTPUT TORQUE | EFF. %            | OUTPUT TORQUE | EFF. %            | OUTPUT TORQUE |
| 3800   | 1750      | 50         | 35.0       | 5           | 10         | 3.89     | 69.0             | 4836          | 77.6              | 5434          | 82.5              | 5777          |
|        |           | 75         | 23.3       | 5           | 15         | 3.89     | 65.0             | 6828          | 73.0              | 7672          | 77.6              | 8157          |
|        |           | 100        | 17.5       | 5           | 20         | 3.29     | 65.9             | 7805          | 74.1              | 8770          | 78.8              | 9324          |
|        |           | 150        | 11.7       | 10          | 15         | 2.50     | 60.2             | 8131          | 67.6              | 9136          | 71.9              | 9713          |
|        |           | 200        | 8.75       | 10          | 20         | 1.90     | 57.6             | 7883          | 64.7              | 8857          | 68.8              | 9417          |
|        |           | 250        | 7.00       | 5           | 50         | 1.42     | 47.8             | 5866          | 53.7              | 6591          | 57.1              | 7008          |
|        |           | 300        | 5.83       | 20          | 15         | 1.47     | 54.2             | 8607          | 60.9              | 9671          | 64.7              | 10283         |
|        |           | 400        | 4.38       | 20          | 20         | 1.34     | 51.5             | 7883          | 57.9              | 8857          | 61.5              | 9417          |
|        |           | 500        | 3.50       | 25          | 20         | 1.06     | 49.1             | 7883          | 55.2              | 8857          | 58.6              | 9417          |
|        |           | 600        | 2.92       | 20          | 30         | 0.66     | 43.1             | 9913          | 48.5              | 11138         | 51.5              | 11843         |
|        |           | 750        | 2.33       | 25          | 30         | 0.90     | 40.7             | 9913          | 45.8              | 11138         | 48.7              | 11843         |
|        |           | 900        | 1.94       | 30          | 30         | 1.06     | 38.1             | 9913          | 42.9              | 11138         | 45.6              | 11843         |
|        |           | 1000       | 1.75       | 50          | 20         | 0.66     | 40.6             | 7883          | 45.6              | 8857          | 48.5              | 9417          |
|        |           | 1200       | 1.46       | 40          | 30         | 0.90     | 35.0             | 9913          | 39.3              | 11138         | 41.8              | 11843         |
|        |           | 1500       | 1.17       | 50          | 30         | 0.80     | 33.0             | 9913          | 37.1              | 11138         | 39.4              | 11843         |
|        |           | 1800       | 0.97       | 60          | 30         | 0.54     | 29.6             | 9913          | 33.3              | 11138         | 35.4              | 11843         |
|        |           | 2000       | 0.88       | 50          | 40         | 0.59     | 30.2             | 7998          | 34.0              | 8987          | 36.1              | 9555          |
|        |           | 2400       | 0.73       | 60          | 40         | 0.66     | 27.0             | 7998          | 30.4              | 8987          | 32.3              | 9555          |
|        |           | 3000       | 0.58       | 60          | 50         | 0.230    | 24.5             | 6106          | 27.6              | 6861          | 29.3              | 7295          |
|        |           | 3600       | 0.49       | 60          | 60         | 0.169    | 22.4             | 4921          | 25.2              | 5529          | 26.8              | 5879          |

### 4200 Series • GW210 Primary • W420 Secondary

| SERIES | INPUT RPM | UNIT RATIO | OUTPUT RPM | PRIM. RATIO | SEC. RATIO | ALL      | CONVENTIONAL OIL |               | PAO SYNTHETIC OIL |               | PAG SYNTHETIC OIL |               |
|--------|-----------|------------|------------|-------------|------------|----------|------------------|---------------|-------------------|---------------|-------------------|---------------|
|        |           |            |            |             |            | INPUT HP | EFF. %           | OUTPUT TORQUE | EFF. %            | OUTPUT TORQUE | EFF. %            | OUTPUT TORQUE |
| 4200   | 1750      | 50         | 35.0       | 5           | 10         | 3.89     | 70.2             | 4915          | 78.8              | 5522          | 83.8              | 5871          |
|        |           | 75         | 23.3       | 5           | 15         | 3.89     | 66.8             | 7018          | 75.1              | 7886          | 79.8              | 8385          |
|        |           | 100        | 17.5       | 5           | 20         | 3.89     | 64.3             | 9007          | 72.2              | 10121         | 76.8              | 10760         |
|        |           | 150        | 11.7       | 10          | 15         | 2.50     | 62.7             | 8472          | 70.5              | 9519          | 74.9              | 10121         |
|        |           | 200        | 8.75       | 10          | 20         | 2.50     | 60.0             | 10811         | 67.5              | 12147         | 71.7              | 12915         |
|        |           | 250        | 7.00       | 5           | 50         | 2.27     | 51.7             | 10553         | 58.1              | 11857         | 61.8              | 12607         |
|        |           | 300        | 5.83       | 20          | 15         | 2.18     | 56.9             | 9034          | 63.9              | 10150         | 68.0              | 10792         |
|        |           | 400        | 4.38       | 20          | 20         | 1.19     | 54.1             | 11608         | 60.8              | 13043         | 64.6              | 13867         |
|        |           | 500        | 3.50       | 25          | 20         | 1.47     | 52.3             | 11214         | 58.8              | 12600         | 62.5              | 13397         |
|        |           | 600        | 2.92       | 20          | 30         | 1.88     | 47.6             | 12545         | 53.4              | 14096         | 56.8              | 14987         |
|        |           | 750        | 2.33       | 25          | 30         | 1.01     | 45.8             | 12545         | 51.4              | 14096         | 54.7              | 14987         |
|        |           | 900        | 1.94       | 30          | 30         | 0.66     | 43.4             | 12545         | 48.8              | 14096         | 51.9              | 14987         |
|        |           | 1000       | 1.75       | 50          | 20         | 1.19     | 44.1             | 10494         | 49.6              | 11791         | 52.7              | 12537         |
|        |           | 1200       | 1.46       | 40          | 30         | 1.22     | 40.2             | 12545         | 45.2              | 14096         | 48.0              | 14987         |
|        |           | 1500       | 1.17       | 50          | 30         | 0.66     | 38.2             | 12545         | 42.9              | 14096         | 45.6              | 14987         |
|        |           | 1800       | 0.97       | 60          | 30         | 1.01     | 35.1             | 12545         | 39.5              | 14096         | 42.0              | 14987         |
|        |           | 2000       | 0.88       | 50          | 40         | 0.89     | 34.9             | 12512         | 39.2              | 14058         | 41.6              | 14947         |
|        |           | 2400       | 0.73       | 60          | 40         | 0.66     | 32.1             | 12512         | 36.0              | 14058         | 38.3              | 14947         |
|        |           | 3000       | 0.58       | 60          | 50         | 0.83     | 29.7             | 11808         | 33.4              | 13267         | 35.5              | 14106         |
|        |           | 3600       | 0.49       | 60          | 60         | 0.72     | 27.7             | 10972         | 31.2              | 12328         | 33.1              | 13108         |

ADDITIONAL RATINGS FOR OTHER INPUT SPEEDS ARE AVAILABLE AT: [WWW.HUBCITYINC.COM](http://WWW.HUBCITYINC.COM)

#### OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 3801 AND 3804 1,600 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 3802 AND 3805 NOT APPLICABLE.

MODELS 3807 AND 3808 — OHL± 1,970 LBS., TO± THRUST OUT 1,950 LBS. AND TI± THRUST IN 1,500 LBS. THRUST± UP OR DOWN 1,500 LBS.

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 4201 AND 4204 1,400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 4202 AND 4205 NOT APPLICABLE. THRUST± UP OR DOWN 1,450 LBS.

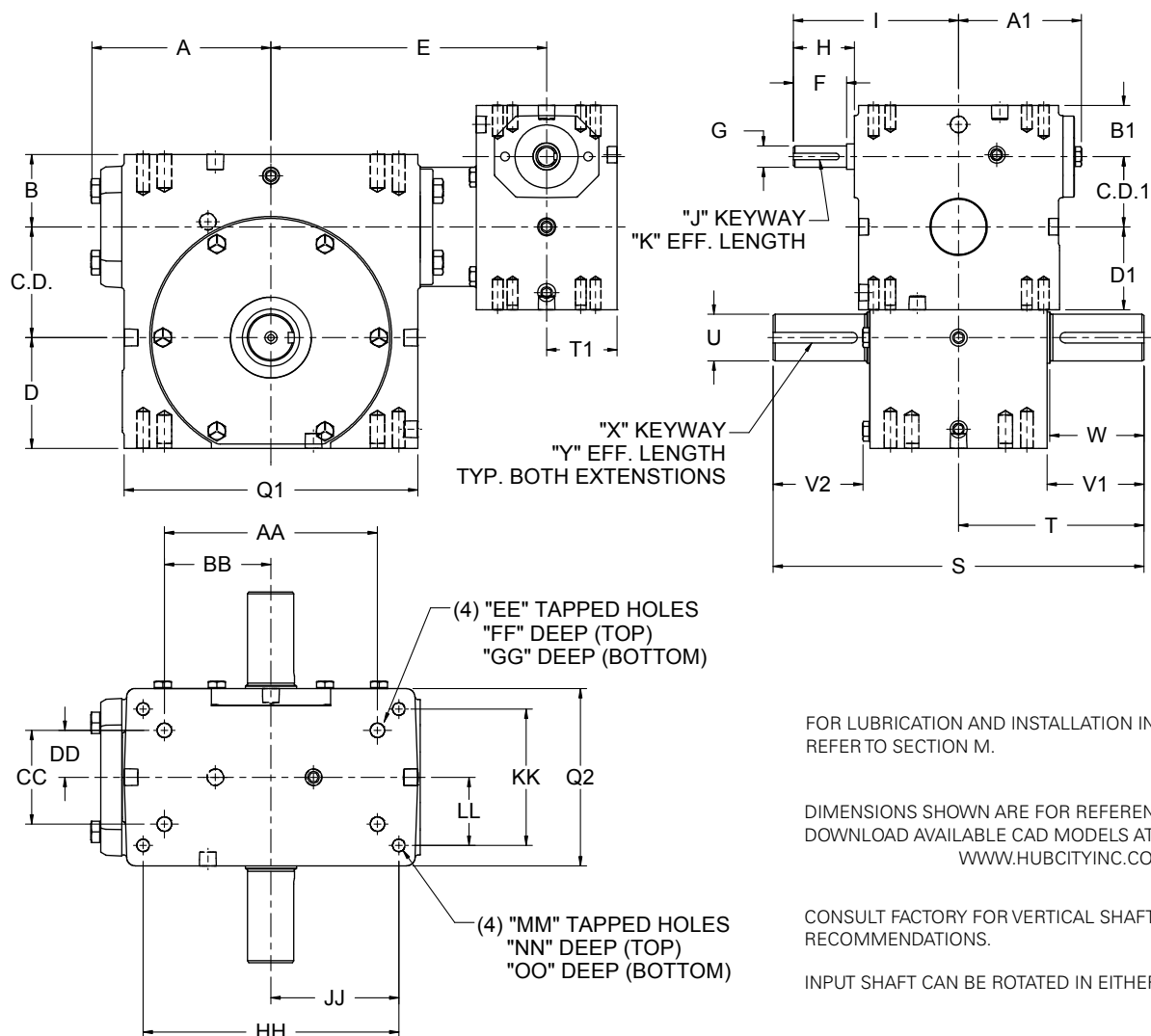
±OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

OUTPUT TORQUE VALUES SHOWN ARE INCH-POUNDS (IN-LB).

# Hub City™ Worm Gear Drives

## Double Reduction Models

1301, 1501, 1801, 2101, 2401, 2601, 3001, 3201, 3801, 4201, 4501, 5201, GW6001, GW7001, GW8001, GW10001



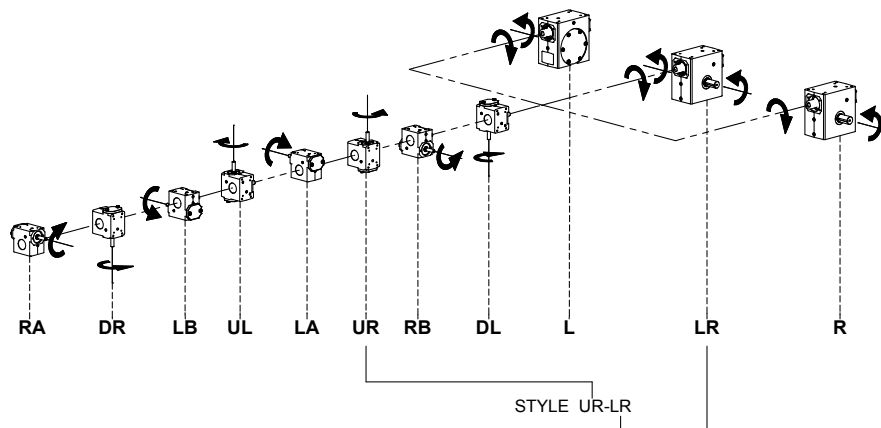
FOR LUBRICATION AND INSTALLATION INSTRUCTIONS REFER TO SECTION M.

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.  
DOWNLOAD AVAILABLE CAD MODELS AT:  
[WWW.HUBCITYINC.COM](http://WWW.HUBCITYINC.COM)

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS.

INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

### Standard Styles Available



# Hub City™ Worm Gear Drives

## Double Reduction Models

1301, 1501, 1801, 2101, 2401, 2601, 3001, 3201, 3801, 4201, 4501, 5201, GW6001, GW7001, GW8001, GW10001

| MODEL   | PRIMARY | SECONDARY | C.D.   | A    | B     | D      | Q1    | Q2   | E     | T1   | C.D.1 | A1   | B1    | D1    |
|---------|---------|-----------|--------|------|-------|--------|-------|------|-------|------|-------|------|-------|-------|
| 1301    | 131     | 134-56C   | 1.334  | 2.61 | 1.186 | 1.562  | 4.12  | 3.12 | 4.87  | 1.56 | 1.334 | 2.61 | 1.186 | 1.562 |
| 1501    | GW131   | 154       | 1.541  | 3.14 | 1.928 | 1.906  | 4.88  | 3.44 | 5.85  | 1.84 | 1.334 | 2.61 | 1.610 | 1.720 |
| 1801    | 131     | 184-56C   | 1.751  | 3.23 | 1.374 | 1.875  | 5.16  | 3.44 | 5.50  | 1.56 | 1.334 | 2.61 | 1.186 | 1.562 |
| 2101    | 131     | 214-56C   | 2.064  | 3.61 | 1.500 | 2.437  | 5.88  | 4.12 | 5.87  | 1.56 | 1.334 | 2.61 | 1.186 | 1.562 |
| 2401    | GW131   | 244       | 2.376  | 3.77 | 2.061 | 2.500  | 6.12  | 4.06 | 6.44  | 1.84 | 1.334 | 2.61 | 1.610 | 1.720 |
| 2601    | 131     | 264-56C   | 2.626  | 4.33 | 1.874 | 2.938  | 7.20  | 4.50 | 6.58  | 1.56 | 1.334 | 2.61 | 1.186 | 1.562 |
| 3001    | GW181   | 304       | 3.001  | 4.84 | 2.624 | 3.250  | 8.12  | 5.25 | 7.86  | 1.78 | 1.750 | 3.24 | 1.940 | 2.060 |
| 3201    | 211     | 324-143TC | 3.251  | 5.28 | 2.124 | 3.250  | 8.62  | 5.20 | 8.09  | 2.06 | 2.064 | 3.61 | 1.500 | 2.437 |
| 3801    | 211     | 384-143TC | 3.751  | 4.90 | 2.374 | 3.937  | 9.60  | 5.62 | 8.61  | 2.06 | 2.064 | 3.61 | 1.500 | 2.437 |
| 4201    | GW211   | 424       | 4.251  | 6.10 | 2.686 | 4.438  | 10.25 | 6.13 | 9.18  | 1.91 | 2.060 | 3.61 | 2.020 | 2.280 |
| 4501    | 321     | 454-213TC | 4.501  | 5.23 | 2.499 | 4.625  | 9.25  | 4.63 | 9.14  | 2.60 | 3.251 | 5.28 | 2.124 | 3.250 |
| 5201    | 321     | 524-213TC | 5.168  | 5.98 | 2.624 | 5.375  | 10.75 | 5.06 | 9.89  | 2.60 | 3.251 | 5.28 | 2.124 | 3.250 |
| GW6001  | GW321   | GW601     | 6.000  | N/A  | 4.000 | 6.500  | 14.25 | 8.13 | 13.30 | 2.88 | 3.250 | 5.02 | 2.630 | 3.500 |
| GW7001  | GW321   | GW701     | 7.000  | N/A  | 4.320 | 7.590  | 14.88 | 7.63 | 12.96 | 2.88 | 3.250 | 5.02 | 2.630 | 3.500 |
| GW8001  | GW421   | GW801     | 8.000  | N/A  | 4.100 | 8.860  | 17.00 | 8.63 | 13.94 | 3.07 | 4.250 | 6.10 | 2.690 | 4.440 |
| GW10001 | GW451   | GW1001    | 10.000 | N/A  | 5.110 | 10.360 | 20.88 | 9.53 | 17.05 | 3.60 | 5.250 | 7.50 | 3.630 | 5.120 |

| MODEL   | F    | G            | H    | I     | J               | K    | S     | T     | U            | V1   | V2   | W    | X              | Y    |
|---------|------|--------------|------|-------|-----------------|------|-------|-------|--------------|------|------|------|----------------|------|
| 1301    | 1.67 | .500/.4985   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 | 6.50  | 3.25  | .625/.624    | 1.69 | 1.53 | 1.60 | 3/16 X 3/32    | 1.38 |
| 1501    | 1.67 | .500/.4986   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 | 8.62  | 4.31  | .750/.7485   | 2.11 | 1.90 | 2.08 | 3/16 X 3/32    | 1.51 |
| 1801    | 1.67 | .500/.4985   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 | 7.00  | 3.50  | .750/.749    | 1.78 | 1.57 | 1.54 | 3/16 X 3/32    | 1.41 |
| 2101    | 1.67 | .500/.4985   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 | 8.50  | 4.25  | .875/.874    | 2.19 | 1.98 | 1.95 | 3/16 X 3/32    | 1.83 |
| 2401    | 1.67 | .500/.4985   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 | 10.28 | 5.14  | 1.125/1.1235 | 2.66 | 2.44 | 2.62 | 1/4 x 1/8      | 1.76 |
| 2601    | 1.67 | .500/.4985   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 | 9.00  | 4.50  | 1.250/1.249  | 2.25 | 2.04 | N/A  | 1/4 x 1/8      | 1.85 |
| 3001    | N/A  | .625/.6235   | 1.76 | 4.45  | 3/16 X 3/32     | 1.38 | 13.50 | 6.75  | 1.250/1.2485 | 3.60 | 3.36 | 3.57 | 1/4 X 1/8      | 2.26 |
| 3201    | N/A  | .625/.6235   | 1.76 | 4.82  | 3/16 X 3/32 P&W | 1.50 | 10.88 | 5.44  | 1.375/1.374  | 2.84 | 2.62 | 2.75 | 5/16 X 5/32    | 2.31 |
| 3801    | N/A  | .625/.6235   | 1.76 | 4.82  | 3/16 X 3/32 P&W | 1.50 | 13.38 | 6.69  | 1.500/1.499  | 3.88 | N/A  | N/A  | 3/8 X 3/16     | 3.16 |
| 4201    | N/A  | .625/.6235   | 1.76 | 4.82  | 3/16 X 3/32     | 1.38 | 16.24 | 8.12  | 1.875/1.8735 | 4.50 | 4.21 | 4.47 | 1/2 X 1/4      | 3.06 |
| 4501**  | N/A  | .875/.8735   | 2.38 | 6.75  | 3/16 X 3/32 P&W | 1.75 | 14.50 | 7.25  | 1.625/1.624  | 4.18 | N/A  | 3.90 | 3/8 X 3/16     | 3.28 |
| 5201*** | N/A  | .875/.8735   | 2.38 | 6.75  | 3/16 X 3/32 P&W | 1.75 | 15.62 | 7.81  | 1.750/1.749  | 4.47 | N/A  | 4.17 | 3/8 X 3/16     | 3.50 |
| GW6001  | N/A  | .875/.8735   | 2.38 | 6.76  | 3/16 X 3/32 P&W | 1.63 | 20.00 | 10.00 | 2.500        | 4.65 | 4.65 | N/A  | 5/8 X 5/16 P&W | 4.00 |
| GW7001  | N/A  | .875/.8735   | 2.38 | 6.76  | 3/16 X 3/32 P&W | 1.63 | 23.52 | 11.76 | 2.750        | 5.65 | 5.65 | N/A  | 5/8 X 5/16 P&W | 4.00 |
| GW8001  | N/A  | 1.250/1.2485 | 3.47 | 9.57  | 1/4 X 1/8       | 2.50 | 24.50 | 12.25 | 3.000        | 5.98 | 5.98 | 5.26 | 3/4 X 3/8 P&W  | 4.50 |
| GW10001 | N/A  | 1.250/1.2485 | 3.38 | 10.88 | 1/4 X 1/8       | 3.00 | 29.50 | 14.75 | 3.750        | 6.76 | 6.76 | 6.39 | 7/8 X 7/16 P&W | 5.00 |

\*\* ALSO AVAILABLE WITH 1.750/1.749 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY.

\*\*\* ALSO AVAILABLE WITH 2.000/1.999 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY.

| MODEL   | AA     | BB    | CC    | DD    | EE        | FF   | GG   | HH    | JJ    | KK    | LL    | MM       | NN   | OO   | WT. LBS. |
|---------|--------|-------|-------|-------|-----------|------|------|-------|-------|-------|-------|----------|------|------|----------|
| 1301    | 2.250  | 1.125 | 1.625 | 0.813 | 1/4 UNC   | 0.50 | 0.50 | 3.250 | 1.625 | 2.000 | 1.000 | 5/16 UNC | 0.50 | 0.50 | 22       |
| 1501    | 4.188  | 2.094 | 2.750 | 1.375 | 5/16 UNC  | 0.63 | 0.63 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 25       |
| 1801    | 3.125  | 1.563 | 1.625 | 0.813 | 1/4 UNC   | 0.50 | 0.50 | 4.188 | 2.094 | 2.750 | 1.375 | 5/16 UNC | 0.63 | 0.63 | 25       |
| 2101    | 4.000  | 2.000 | 2.000 | 1.000 | 3/8 UNC   | 0.50 | 0.70 | 5.000 | 2.500 | 2.875 | 1.438 | 3/8 UNC  | 0.70 | 0.70 | 32       |
| 2401    | 5.000  | 2.500 | 2.875 | 1.438 | 3/8 UNC   | 0.69 | 0.69 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 48       |
| 2601    | 4.875  | 2.438 | 2.688 | 1.344 | 3/8 UNC   | 0.70 | 0.70 | 6.375 | 3.188 | 3.375 | 1.688 | 3/8 UNC  | 0.70 | 0.70 | 47       |
| 3001    | 7.000  | 3.500 | 4.000 | 2.000 | 7/16 UNC  | 0.88 | 0.88 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 77       |
| 3201    | 6.250  | 3.125 | 2.750 | 1.375 | 1/2 UNC   | 0.75 | 0.75 | 7.500 | 3.750 | 4.000 | 2.000 | 7/16 UNC | 0.88 | 0.88 | 85       |
| 3801    | 6.875  | 3.438 | 3.000 | 1.500 | 1/2 UNC   | 0.94 | 1.00 | 8.500 | 4.250 | 4.750 | 2.375 | 1/2 UNC  | 1.00 | 1.00 | 115      |
| 4201    | 8.500  | 4.250 | 5.000 | 2.500 | 5/8 UNC   | 1.00 | 1.00 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 132      |
| 4501    | 8.125  | 4.063 | 3.250 | 1.625 | 5/8 UNC   | 0.88 | 1.13 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 172      |
| 5201    | 9.500  | 4.750 | 3.750 | 1.875 | 5/8 UNC   | 1.00 | 1.25 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 198      |
| GW6001  | 12.750 | 6.375 | 6.380 | 3.190 | 5/8 UNC   | 1.00 | 1.00 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 402      |
| GW7001  | 12.500 | 6.250 | 5.500 | 2.750 | 1 UNC     | 1.56 | 1.56 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 478      |
| GW8001  | 14.250 | 7.125 | 6.500 | 3.250 | 1 UNC     | 1.66 | 1.66 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 718      |
| GW10001 | 17.750 | 8.875 | 6.875 | 3.438 | 1-1/4 UNC | 2.04 | 2.04 | N/A   | N/A   | N/A   | N/A   | N/A      | N/A  | N/A  | 1136     |