

# Hub City™ Worm Gear Drives

## Single Reduction

### PowerCubeX® Worm Speed Reducer Catalog Ratings

#### Series W240

| SERIES | INPUT RPM | RATIO | OUTPUT RPM | CONVENTIONAL OIL |        |                     |                                 |                       | PAO SYNTHETIC OIL |        |               | PAG SYNTHETIC OIL |        |               |
|--------|-----------|-------|------------|------------------|--------|---------------------|---------------------------------|-----------------------|-------------------|--------|---------------|-------------------|--------|---------------|
|        |           |       |            | MECH. INPUT HP   | EFF. % | MECH. OUTPUT TORQUE | THERMAL INPUT HP                | THERMAL OUTPUT TORQUE | INPUT HP          | EFF. % | OUTPUT TORQUE | INPUT HP          | EFF. % | OUTPUT TORQUE |
| W240   | 2500      | 5     | 500        | 6.63             | 87.4   | 731                 | 3.98                            | 439                   | 6.63              | 92.6   | 774           | 6.63              | 95.5   | 798           |
|        |           | 7.5   | 333        | 5.27             | 86.3   | 859                 | 2.88                            | 469                   | 5.27              | 91.5   | 911           | 5.27              | 94.3   | 939           |
|        |           | 10    | 250        | 4.17             | 85.5   | 900                 | 3.11                            | 671                   | 4.17              | 90.7   | 954           | 4.17              | 93.5   | 983           |
|        |           | 15    | 167        | 3.12             | 83.3   | 983                 | 1.90                            | 599                   | 3.12              | 88.3   | 1042          | 3.12              | 91.0   | 1074          |
|        |           | 20    | 125        | 2.47             | 81.1   | 1012                | 2.10                            | 860                   | 2.47              | 86.0   | 1073          | 2.47              | 88.7   | 1106          |
|        |           | 25    | 100        | 2.05             | 79.3   | 1024                | 1.89                            | 944                   | 2.05              | 84.1   | 1086          | 2.05              | 86.7   | 1119          |
|        |           | 30    | 83.3       | 1.76             | 76.9   | 1022                | 1.05                            | 604                   | 1.76              | 81.5   | 1084          | 1.76              | 84.0   | 1117          |
|        |           | 40    | 62.5       | 1.37             | 73.2   | 1014                | 1.10                            | 816                   | 1.37              | 77.6   | 1075          | 1.37              | 80.0   | 1109          |
|        |           | 50    | 50.0       | 1.12             | 70.2   | 989                 | 1.10                            | 973                   | 1.12              | 74.5   | 1049          | 1.12              | 76.8   | 1081          |
|        |           | 60    | 41.7       | 0.90             | 68.7   | 940                 | 0.64                            | 669                   | 0.90              | 72.8   | 996           | 0.90              | 75.1   | 1027          |
|        | 80        | 31.3  | 0.60       | 63.9             | 779    | 0.56                | 722                             | 0.60                  | 67.7              | 826    | 0.60          | 69.8              | 851    |               |
|        | 100       | 25.0  | 0.40       | 60.0             | 612    | 0.38                | 579                             | 0.40                  | 63.6              | 649    | 0.40          | 65.5              | 669    |               |
|        | 1750      | 5     | 350        | 5.69             | 86.6   | 888                 | 3.89                            | 606                   | 5.69              | 91.9   | 941           | 5.69              | 94.7   | 970           |
|        |           | 7.5   | 233        | 4.53             | 85.4   | 1046                | 2.78                            | 643                   | 4.53              | 90.5   | 1109          | 4.53              | 93.3   | 1143          |
|        |           | 10    | 175        | 3.69             | 84.5   | 1123                | 3.00                            | 910                   | 3.69              | 89.6   | 1190          | 3.69              | 92.3   | 1227          |
|        |           | 15    | 117        | 2.75             | 81.9   | 1216                | 1.82                            | 803                   | 2.75              | 86.8   | 1289          | 2.75              | 89.5   | 1329          |
|        |           | 20    | 87.5       | 2.17             | 79.5   | 1245                | 2.00                            | 1138                  | 2.17              | 84.2   | 1320          | 2.17              | 86.8   | 1360          |
|        |           | 25    | 70.0       | 1.79             | 77.4   | 1248                | 1.79                            | 1244                  | 1.79              | 82.1   | 1323          | 1.79              | 84.6   | 1364          |
|        |           | 30    | 58.3       | 1.56             | 74.7   | 1258                | 1.00                            | 796                   | 1.56              | 79.1   | 1334          | 1.56              | 81.6   | 1375          |
|        |           | 40    | 43.8       | 1.22             | 70.6   | 1244                | 1.05                            | 1071                  | 1.22              | 74.8   | 1319          | 1.22              | 77.1   | 1360          |
|        |           | 50    | 35.0       | 1.00             | 67.4   | 1203                | 1.00                            | 1203                  | 1.00              | 71.4   | 1276          | 1.00              | 73.6   | 1315          |
|        |           | 60    | 29.2       | 0.79             | 65.7   | 1119                | 0.61                            | 863                   | 0.79              | 69.7   | 1186          | 0.79              | 71.8   | 1222          |
|        | 80        | 21.9  | 0.53       | 60.6             | 922    | 0.50                | 840                             | 0.53                  | 64.2              | 977    | 0.53          | 66.2              | 1007   |               |
|        | 100       | 17.5  | 0.35       | 56.5             | 720    | 0.33                | 670                             | 0.35                  | 59.9              | 763    | 0.35          | 61.7              | 787    |               |
|        | 1170      | 5     | 234        | 4.72             | 85.7   | 1090                | 3.52                            | 813                   | 4.72              | 90.8   | 1156          | 4.72              | 93.7   | 1192          |
|        |           | 7.5   | 156        | 3.75             | 84.2   | 1277                | 2.16                            | 736                   | 3.75              | 89.3   | 1354          | 3.75              | 92.1   | 1395          |
|        |           | 10    | 117        | 3.00             | 83.2   | 1333                | 2.81                            | 1263                  | 3.00              | 88.2   | 1413          | 3.00              | 90.9   | 1456          |
|        |           | 15    | 78.0       | 2.21             | 80.2   | 1433                | 1.74                            | 1130                  | 2.21              | 85.0   | 1519          | 2.21              | 87.7   | 1566          |
|        |           | 20    | 58.5       | 1.75             | 77.4   | 1461                | 1.75                            | 1461                  | 1.75              | 82.1   | 1549          | 1.75              | 84.6   | 1597          |
|        |           | 25    | 46.8       | 1.50             | 75.1   | 1455                | 1.50                            | 1455                  | 1.50              | 79.6   | 1542          | 1.50              | 82.1   | 1590          |
|        |           | 30    | 39.0       | 1.27             | 72.0   | 1477                | 1.00                            | 1124                  | 1.27              | 76.3   | 1566          | 1.27              | 78.7   | 1614          |
|        |           | 40    | 29.3       | 1.00             | 67.5   | 1457                | 1.00                            | 1457                  | 1.00              | 71.6   | 1545          | 1.00              | 73.8   | 1592          |
|        |           | 50    | 23.4       | 0.81             | 64.0   | 1400                | 0.81                            | 1400                  | 0.81              | 67.9   | 1484          | 0.81              | 70.0   | 1530          |
|        |           | 60    | 19.5       | 0.63             | 62.4   | 1280                | 0.61                            | 1237                  | 0.63              | 66.1   | 1357          | 0.63              | 68.1   | 1398          |
|        | 80        | 14.6  | 0.43       | 56.9             | 1050   | 0.40                | 974                             | 0.43                  | 60.4              | 1113   | 0.43          | 62.2              | 1147   |               |
|        | 100       | 11.7  | 0.29       | 52.7             | 816    | 0.27                | 769                             | 0.29                  | 55.9              | 865    | 0.29          | 57.6              | 892    |               |
|        | 100       | 5     | 20.0       | 0.63             | 79.6   | 1593                | THERMAL<br>EQUALS<br>MECHANICAL | 0.63                  | 84.4              | 1688   | 0.63          | 87.0              | 1741   |               |
|        |           | 7.5   | 13.3       | 0.51             | 77.0   | 1846                |                                 | 0.51                  | 81.6              | 1956   | 0.51          | 84.1              | 2017   |               |
|        |           | 10    | 10.0       | 0.380            | 75.6   | 1828                |                                 | 0.380                 | 80.1              | 1938   | 0.380         | 82.6              | 1998   |               |
|        |           | 15    | 6.7        | 0.290            | 70.7   | 1942                |                                 | 0.290                 | 75.0              | 2059   | 0.290         | 77.3              | 2122   |               |
|        |           | 20    | 5.0        | 0.234            | 66.5   | 1964                |                                 | 0.234                 | 70.5              | 2082   | 0.234         | 72.7              | 2146   |               |
|        |           | 25    | 4.0        | 0.194            | 63.3   | 1930                |                                 | 0.194                 | 67.1              | 2046   | 0.194         | 69.2              | 2109   |               |
|        |           | 30    | 3.3        | 0.179            | 58.6   | 1986                |                                 | 0.179                 | 62.2              | 2106   | 0.179         | 64.1              | 2171   |               |
|        |           | 40    | 2.5        | 0.146            | 52.8   | 1950                |                                 | 0.146                 | 56.0              | 2067   | 0.146         | 57.7              | 2131   |               |
|        |           | 50    | 2.0        | 0.120            | 48.8   | 1851                |                                 | 0.120                 | 51.7              | 1963   | 0.120         | 53.3              | 2023   |               |
|        |           | 60    | 1.7        | 0.091            | 47.5   | 1640                |                                 | 0.091                 | 50.4              | 1739   | 0.091         | 51.9              | 1792   |               |
|        | 80        | 1.3   | 0.063      | 41.7             | 1335   | 0.063               | 44.2                            | 1415                  | 0.063             | 45.6   | 1459          |                   |        |               |
|        | 100       | 1.0   | 0.043      | 37.6             | 1028   | 0.043               | 39.8                            | 1090                  | 0.043             | 41.1   | 1124          |                   |        |               |

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

#### OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 241 AND 244 1400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 242 AND 245 NOT APPLICABLE. THRUST± UP OR DOWN 1450 LBS.

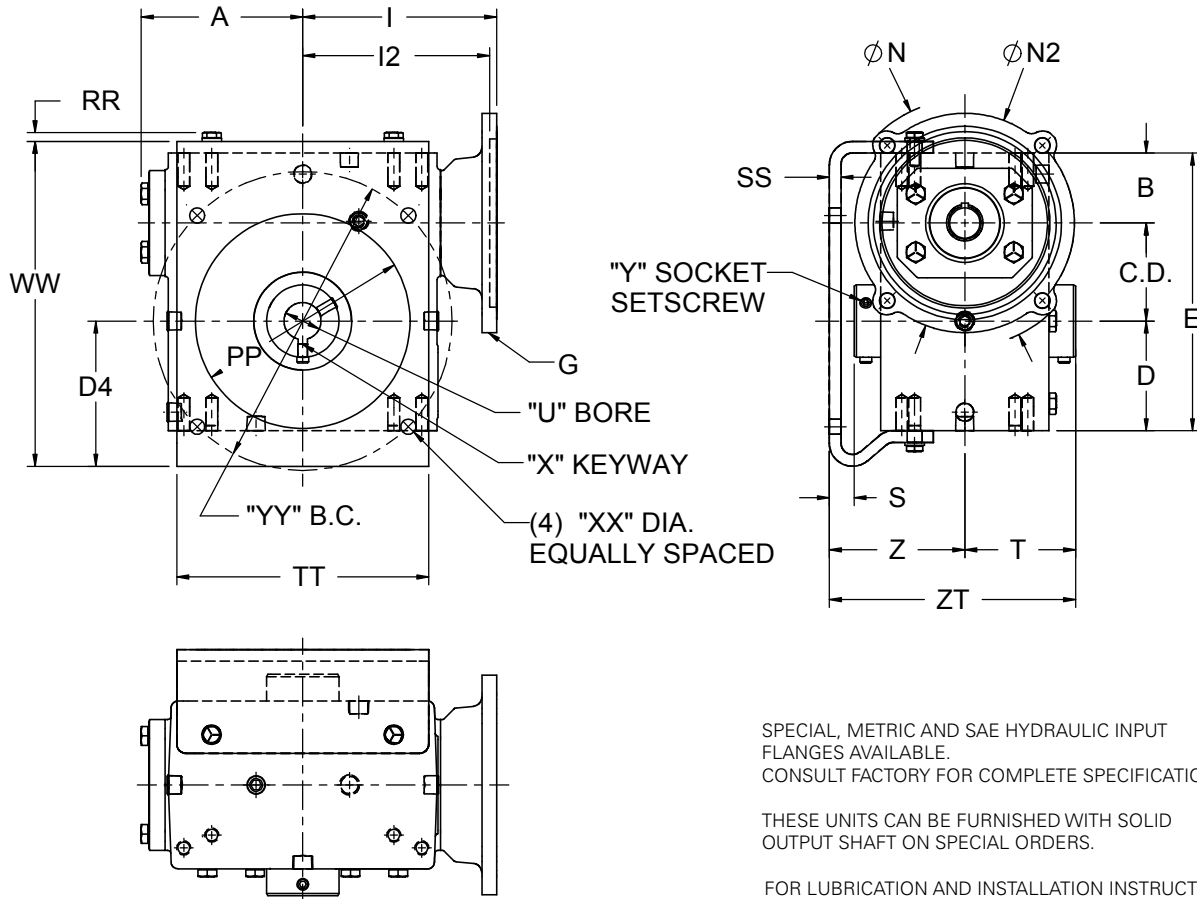
±OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

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

# Hub City™ Worm Gear Drives

## Single Reduction Models

136, 186, 216, 246, 266, 326, 386 (STEEL BRACKET)



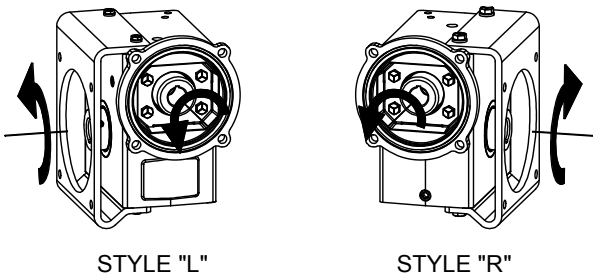
SPECIAL, METRIC AND SAE HYDRAULIC INPUT FLANGES AVAILABLE. CONSULT FACTORY FOR COMPLETE SPECIFICATIONS.

THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDERS.

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)

### Standard Styles Available



CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS. INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

# Hub City™ Worm Gear Drives

## Single Reduction Models

136, 186, 216, 246, 266, 326, 386 (STEEL BRACKET)

| MODEL | C.D.  | A    | B     | D     | E      | G     | I    | I2  | N    | N2   |      |      |
|-------|-------|------|-------|-------|--------|-------|------|-----|------|------|------|------|
| 136   | 1.334 | 2.61 | 1.186 | 1.562 | 4.082  | 48CZ  | 3.46 | N/A | 4.36 | 3.87 |      |      |
|       |       |      |       |       |        | 56C   |      |     | 6.63 | 6.50 |      |      |
| 186   | 1.751 | 3.23 | 1.374 | 1.875 | 5.000  | 48CZ  | 4.09 | N/A | 4.36 | 3.87 |      |      |
|       |       |      |       |       |        | 56C   |      |     | 6.63 | 6.50 |      |      |
|       |       |      |       |       |        | 143TC |      |     | 6.63 | 6.50 |      |      |
| 216   | 2.064 | 3.61 | 1.500 | 2.437 | 6.000  | 48CZ  | 4.46 | N/A | 4.36 | 3.87 |      |      |
|       |       |      |       |       |        | 56C   |      |     | 6.63 | 6.50 |      |      |
|       |       |      |       |       |        | 143TC |      |     | 6.63 | 6.50 |      |      |
| 246 * | 2.376 | 3.77 | 2.061 | 2.500 | 6.937  | 56C   | 4.63 | N/A | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 143TC |      |     | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 182TC |      |     | N/A  | 5.06 | 9.00 | 9.00 |
| 266   | 2.626 | 4.33 | 1.874 | 2.938 | 7.438  | 56C   | 5.19 | N/A | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 143TC |      |     | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 182TC |      |     | N/A  | 5.81 | 9.00 | 9.00 |
| 326   | 3.251 | 5.28 | 2.124 | 3.250 | 8.625  | 56C   | 6.14 | N/A | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 143TC |      |     | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 182TC |      |     | N/A  | 6.34 | 9.00 | 9.00 |
|       |       |      |       |       |        | 213TC |      |     | N/A  | 6.90 | 9.00 | 9.00 |
| 386   | 3.751 | 4.90 | 2.374 | 3.937 | 10.062 | 56C   | 6.50 | N/A | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 143TC |      |     | 6.50 | 6.50 |      |      |
|       |       |      |       |       |        | 182TC |      |     | N/A  | 6.88 | 9.00 | 9.00 |

\* Model 246 also available with cast F-flange as either an add-on kit (see page B-103) or as a special assembly (consult factory).

| MODEL | G     | D4   | PP   | RR   | SS   | TT   | WW    | XX    | YY     | Wt. Lbs. |
|-------|-------|------|------|------|------|------|-------|-------|--------|----------|
| 136   | 48CZ  | 2,50 | 3,62 | 0,22 | 0,19 | 4,25 | 5,22  | 11/32 | 5,000  | 18       |
|       | 56C   |      |      |      |      |      |       |       |        |          |
| 186   | 48CZ  | 3,13 | 4,25 | 0,22 | 0,25 | 4,88 | 6,50  | 11/32 | 5,875  | 18       |
|       | 56C   |      |      |      |      |      |       |       |        |          |
|       | 143TC |      |      |      |      |      |       |       |        |          |
| 216   | 48CZ  | 3,75 | 4,75 | 0,33 | 0,31 | 5,75 | 7,63  | 13/32 | 7,000  | 29       |
|       | 56C   |      |      |      |      |      |       |       |        |          |
|       | 143TC |      |      |      |      |      |       |       |        |          |
| 246   | 56C   | 3,61 | 5,00 | 0,33 | 0,25 | 6,00 | 8,30  | 13/32 | 7,500  | 43       |
|       | 143TC |      |      |      |      |      |       |       |        |          |
|       | 182TC |      |      |      |      |      |       |       |        |          |
| 266   | 56C   | 3,89 | 5,75 | 0,33 | 0,31 | 6,50 | 8,70  | 13/32 | 8,000  | 43       |
|       | 143TC |      |      |      |      |      |       |       |        |          |
|       | 182TC |      |      |      |      |      |       |       |        |          |
| 326   | 56C   | 4,45 | 6,88 | 0,44 | 0,31 | 7,50 | 10,14 | 13/32 | 9,000  | 74       |
|       | 143TC |      |      |      |      |      |       |       |        |          |
|       | 182TC |      |      |      |      |      |       |       |        |          |
|       | 213TC |      |      |      |      |      |       |       |        |          |
| 386   | 56C   | 5,09 | 7,50 | 0,44 | 0,31 | 8,25 | 11,53 | 9/16  | 10,000 | 92       |
|       | 143TC |      |      |      |      |      |       |       |        |          |
|       | 182TC |      |      |      |      |      |       |       |        |          |

### Stock Output Bores

MINIMUM AND MAXIMUM BORE DIMENSIONS SHOWN.FOR ADDITIONAL STOCK OUTPUT BORE SIZES AVAILABLE SEE PAGE B-96.

| MODEL | G     | U (MIN.) | U (MAX.) | S    | T    | Z    | ZT   |
|-------|-------|----------|----------|------|------|------|------|
| 136   | 48CZ  | N/A      | 5/8      | 0,75 | 2,25 | 3,00 | 5,25 |
|       | 56C   |          |          |      |      |      |      |
| 186   | 48CZ  | 15/16    | 1        | 0,91 | 2,41 | 3,31 | 5,71 |
|       | 56C   |          |          |      |      |      |      |
|       | 143TC |          |          |      |      |      |      |
| 216   | 48CZ  | 15/16    | 1-1/2    | 0,85 | 2,78 | 3,63 | 6,41 |
|       | 56C   |          |          |      |      |      |      |
|       | 143TC |          |          |      |      |      |      |
| 246   | 56C   | 1        | 1-1/2    | 0,75 | 2,97 | 3,72 | 6,69 |
|       | 143TC |          |          |      |      |      |      |
|       | 182TC |          |          |      |      |      |      |
| 266   | 56C   | 1        | 1-1/2    | 0,66 | 2,97 | 3,62 | 6,59 |
|       | 143TC |          |          |      |      |      |      |
|       | 182TC |          |          |      |      |      |      |
| 326   | 56C   | 1-7/16   | 2-3/16   | 0,22 | 3,78 | 4,00 | 7,78 |
|       | 143TC |          |          |      |      |      |      |
|       | 182TC |          |          |      |      |      |      |
|       | 213TC |          |          |      |      |      |      |
| 386   | 56C   | 1-7/16   | 2-3/16   | 0,72 | 3,78 | 4,50 | 8,28 |
|       | 143TC |          |          |      |      |      |      |
|       | 182TC |          |          |      |      |      |      |



Select hollow output bore models in this product line are now available with the HubLoc® keyless bushing system. Refer to pages i and ii at front of this catalog for features, available sizes, and ordering information.

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