

# Hub City™ Worm Gear Drives

## Single Reduction

### PowerCubeX® Worm Speed Reducer Catalog Ratings

#### Series 210

| 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 |
| 210    | 2500      | 5     | 500        | 4.40             | 87.1   | 483                 | 2.91                            | 319                   | 4.40              | 92.3   | 512           | 4.40              | 95.2   | 528           |
|        |           | 7.5   | 333        | 3.55             | 86.1   | 578                 | 2.17                            | 353                   | 3.55              | 91.2   | 612           | 3.55              | 94.1   | 631           |
|        |           | 10    | 250        | 2.93             | 85.2   | 629                 | 2.00                            | 429                   | 2.93              | 90.4   | 667           | 2.93              | 93.2   | 688           |
|        |           | 15    | 167        | 2.19             | 83.0   | 686                 | 1.45                            | 454                   | 2.19              | 87.9   | 727           | 2.19              | 90.7   | 750           |
|        |           | 20    | 125        | 1.73             | 80.7   | 705                 | 1.32                            | 538                   | 1.73              | 85.5   | 747           | 1.73              | 88.2   | 770           |
|        |           | 25    | 100        | 1.42             | 79.2   | 707                 | 1.19                            | 592                   | 1.42              | 83.9   | 749           | 1.42              | 86.5   | 772           |
|        |           | 30    | 83.3       | 1.23             | 76.4   | 713                 | 0.91                            | 526                   | 1.23              | 81.0   | 756           | 1.23              | 83.5   | 779           |
|        |           | 40    | 62.5       | 0.97             | 72.5   | 706                 | 0.84                            | 611                   | 0.97              | 76.9   | 748           | 0.97              | 79.3   | 772           |
|        |           | 50    | 50.0       | 0.77             | 70.1   | 682                 | 0.72                            | 638                   | 0.77              | 74.3   | 723           | 0.77              | 76.6   | 746           |
|        |           | 60    | 41.7       | 0.65             | 65.8   | 651                 | 0.61                            | 611                   | 0.65              | 69.8   | 690           | 0.65              | 71.9   | 712           |
|        | 1750      | 80    | 31.3       | 0.41             | 63.3   | 528                 | 0.38                            | 489                   | 0.41              | 67.1   | 560           | 0.41              | 69.2   | 578           |
|        |           | 100   | 25.0       | 0.29             | 58.0   | 421                 | 0.27                            | 392                   | 0.29              | 61.5   | 446           | 0.29              | 63.4   | 460           |
|        |           | 5     | 350        | 3.89             | 86.3   | 605                 | 2.80                            | 435                   | 3.89              | 91.5   | 641           | 3.89              | 94.4   | 661           |
|        |           | 7.5   | 233        | 3.12             | 85.1   | 718                 | 2.07                            | 476                   | 3.12              | 90.2   | 761           | 3.12              | 93.0   | 784           |
|        |           | 10    | 175        | 2.50             | 84.2   | 758                 | 1.91                            | 579                   | 2.50              | 89.3   | 803           | 2.50              | 92.0   | 828           |
|        |           | 15    | 117        | 1.86             | 81.6   | 819                 | 1.37                            | 603                   | 1.86              | 86.5   | 868           | 1.86              | 89.1   | 895           |
|        |           | 20    | 87.5       | 1.50             | 79.0   | 839                 | 1.25                            | 699                   | 1.50              | 83.7   | 890           | 1.50              | 86.3   | 917           |
|        |           | 25    | 70.0       | 1.19             | 77.3   | 828                 | 1.13                            | 786                   | 1.19              | 82.0   | 878           | 1.19              | 84.5   | 905           |
|        |           | 30    | 58.3       | 1.06             | 74.2   | 847                 | 0.86                            | 680                   | 1.06              | 78.7   | 898           | 1.06              | 81.1   | 926           |
|        |           | 40    | 43.8       | 0.83             | 69.9   | 838                 | 0.79                            | 798                   | 0.83              | 74.1   | 889           | 0.83              | 76.4   | 916           |
|        | 1170      | 50    | 35.0       | 0.66             | 67.3   | 798                 | THERMAL<br>EQUALS<br>MECHANICAL |                       | 0.66              | 71.4   | 846           | 0.66              | 73.6   | 873           |
|        |           | 60    | 29.2       | 0.57             | 62.6   | 773                 |                                 |                       | 0.57              | 66.4   | 819           | 0.57              | 68.5   | 845           |
|        |           | 80    | 21.9       | 0.35             | 60.1   | 607                 |                                 |                       | 0.35              | 63.7   | 644           | 0.35              | 65.7   | 664           |
|        |           | 100   | 17.5       | 0.25             | 54.5   | 487                 |                                 |                       | 0.25              | 57.8   | 516           | 0.25              | 59.5   | 532           |
|        |           | 5     | 234        | 3.13             | 85.4   | 719                 | 2.40                            | 551                   | 3.13              | 90.5   | 762           | 3.13              | 93.3   | 786           |
|        |           | 7.5   | 156        | 2.50             | 84.0   | 849                 | 1.58                            | 537                   | 2.50              | 89.0   | 900           | 2.50              | 91.8   | 928           |
|        |           | 10    | 117        | 2.00             | 82.9   | 875                 | 1.68                            | 735                   | 2.00              | 87.9   | 927           | 2.00              | 90.6   | 956           |
|        |           | 15    | 78.0       | 1.50             | 79.9   | 940                 | 1.29                            | 808                   | 1.50              | 84.7   | 996           | 1.50              | 87.3   | 1027          |
|        |           | 20    | 58.5       | 1.16             | 77.0   | 961                 | THERMAL<br>EQUALS<br>MECHANICAL |                       | 1.16              | 81.6   | 1018          | 1.16              | 84.1   | 1050          |
|        |           | 25    | 46.8       | 0.93             | 75.2   | 937                 |                                 |                       | 0.93              | 79.7   | 993           | 0.93              | 82.1   | 1024          |
|        | 100       | 30    | 39.0       | 0.84             | 71.6   | 968                 |                                 |                       | 0.84              | 75.9   | 1026          | 0.84              | 78.3   | 1058          |
|        |           | 40    | 29.3       | 0.66             | 66.9   | 958                 |                                 |                       | 0.66              | 70.9   | 1015          | 0.66              | 73.1   | 1047          |
|        |           | 50    | 23.4       | 0.52             | 64.2   | 901                 | THERMAL<br>EQUALS<br>MECHANICAL |                       | 0.52              | 68.0   | 956           | 0.52              | 70.1   | 985           |
|        |           | 60    | 19.5       | 0.46             | 59.1   | 883                 |                                 |                       | 0.46              | 62.6   | 936           | 0.46              | 64.6   | 964           |
|        |           | 80    | 14.6       | 0.28             | 56.6   | 676                 |                                 |                       | 0.28              | 60.0   | 717           | 0.28              | 61.8   | 739           |
|        |           | 100   | 11.7       | 0.200            | 50.8   | 546                 |                                 |                       | 0.200             | 53.8   | 578           | 0.200             | 55.5   | 596           |
|        |           | 5     | 20.0       | 0.40             | 79.4   | 989                 | THERMAL<br>EQUALS<br>MECHANICAL |                       | 0.40              | 84.2   | 1049          | 0.40              | 86.8   | 1081          |
|        |           | 7.5   | 13.3       | 0.32             | 77.0   | 1158                |                                 |                       | 0.32              | 81.6   | 1228          | 0.32              | 84.1   | 1266          |
|        |           | 10    | 10.0       | 0.239            | 75.7   | 1140                |                                 |                       | 0.239             | 80.3   | 1208          | 0.239             | 82.7   | 1246          |
|        |           | 15    | 6.7        | 0.180            | 71.0   | 1211                |                                 |                       | 0.180             | 75.3   | 1284          | 0.180             | 77.6   | 1323          |
|        |           | 20    | 5.0        | 0.147            | 66.6   | 1233                | THERMAL<br>EQUALS<br>MECHANICAL |                       | 0.147             | 70.6   | 1307          | 0.147             | 72.8   | 1347          |
|        |           | 25    | 4.0        | 0.116            | 64.4   | 1176                |                                 |                       | 0.116             | 68.2   | 1246          | 0.116             | 70.3   | 1285          |
|        |           | 30    | 3.3        | 0.111            | 59.1   | 1238                |                                 |                       | 0.111             | 62.6   | 1313          | 0.111             | 64.6   | 1353          |
|        |           | 40    | 2.5        | 0.092            | 53.0   | 1224                |                                 |                       | 0.092             | 56.2   | 1297          | 0.092             | 57.9   | 1338          |
|        |           | 50    | 2.0        | 0.071            | 50.2   | 1128                | THERMAL<br>EQUALS<br>MECHANICAL |                       | 0.071             | 53.2   | 1195          | 0.071             | 54.9   | 1232          |
|        |           | 60    | 1.7        | 0.068            | 43.9   | 1127                |                                 |                       | 0.068             | 46.6   | 1195          | 0.068             | 48.0   | 1232          |
|        |           | 80    | 1.3        | 0.039            | 42.4   | 825                 |                                 |                       | 0.039             | 44.9   | 874           | 0.039             | 46.3   | 901           |
|        |           | 100   | 1.0        | 0.029            | 36.2   | 672                 |                                 |                       | 0.029             | 38.4   | 713           | 0.029             | 39.6   | 735           |

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 211 AND 214 550 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 212 AND 215 NOT APPLICABLE. THRUST± UP OR DOWN 600 LBS.

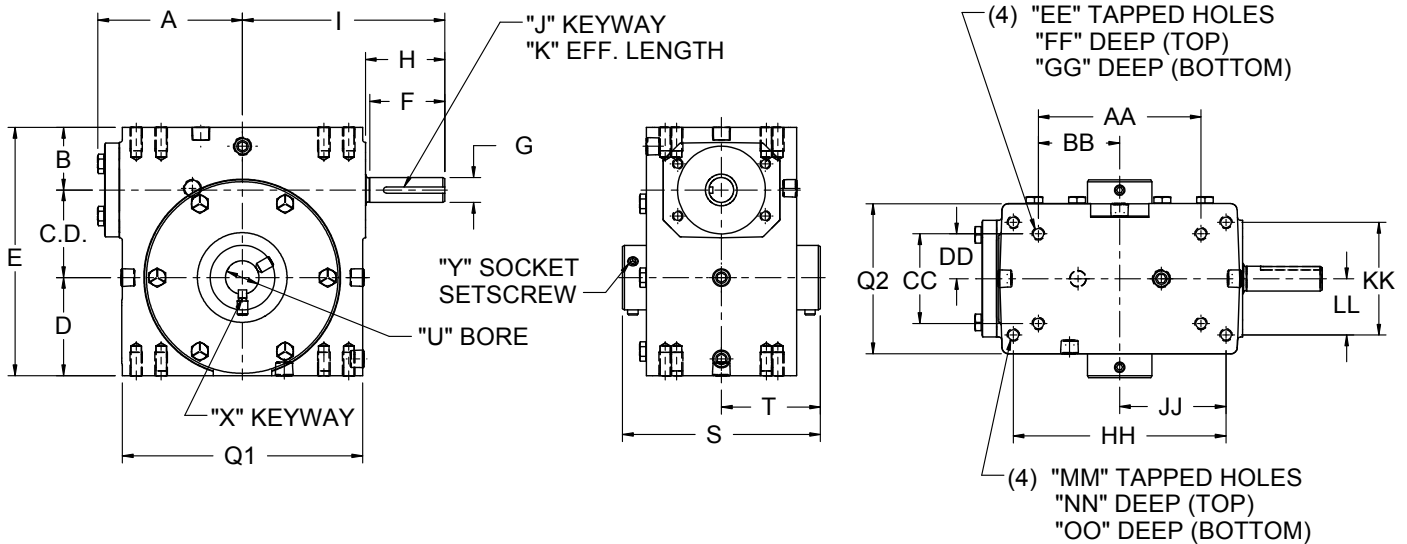
±OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

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

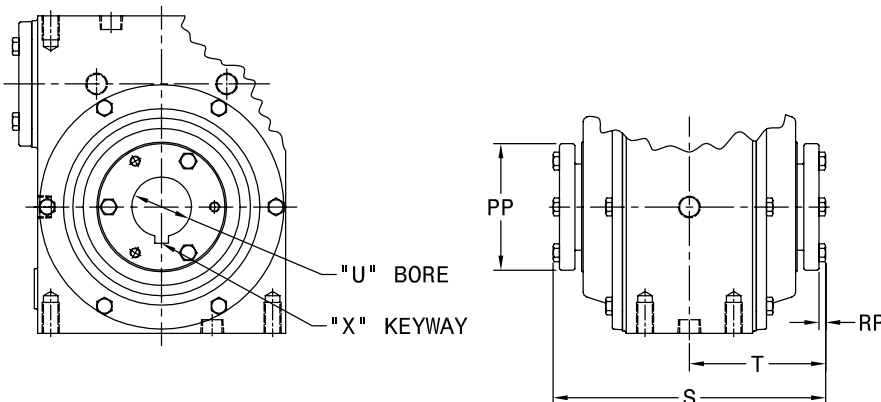
# Hub City™ Worm Gear Drives

## Single Reduction Models

132, 152, 182, 212, 242, 262, 302, 322, 382, 422, 452, 522, GW602, GW702, GW802, GW1002



### QD™ Bushing Detail for Models 452, 522



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

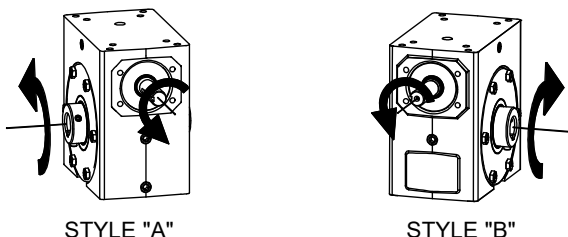
SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE. SEE PAGE B-105.

ALL GW MODELS ARE FAN COOLED REFER TO FAN DETAILS ON NEXT PAGE.

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



STYLE "A"

STYLE "B"

NOTE: STYLE "A" SUPPLIED AS STANDARD UNLESS SPECIFIED OTHERWISE.

NOTE: STYLE B DOES NOT APPLY TO MODELS 452 AND LARGER. HOUSINGS HAVE A COVER ON BOTH SIDES OF OUTPUT.

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS.

INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

# Hub City™ Worm Gear Drives

## Single Reduction Models

132, 152, 182, 212, 242, 262, 302, 322, 382, 422, 452, 522, GW602, GW702, GW802, GW1002

| MODEL  | C.D.   | A    | B     | D      | E      | Q1    | Q2   | F    | G            | H    | I     | J               | K    |
|--------|--------|------|-------|--------|--------|-------|------|------|--------------|------|-------|-----------------|------|
| 132    | 1.334  | 2.61 | 1.186 | 1.562  | 4.082  | 4.12  | 3.12 | 1.67 | .500/.4985   | 1.76 | 3.82  | 1/8 X 1/16 P&W  | 1.44 |
| 152    | 1.541  | 3.14 | 1.928 | 1.906  | 5.375  | 4.88  | 3.44 | 1.76 | .625/.6235   | 1.76 | 4.35  | 3/16 X 3/32 P&W | 1.50 |
| 182    | 1.751  | 3.23 | 1.374 | 1.875  | 5.000  | 5.16  | 3.44 | N/A  | .625/.6235   | 1.76 | 4.44  | 3/16 X 3/32 P&W | 1.50 |
| 212    | 2.064  | 3.61 | 1.500 | 2.437  | 6.000  | 5.88  | 4.12 | N/A  | .625/.6235   | 1.76 | 4.82  | 3/16 X 3/32 P&W | 1.50 |
| 242    | 2.376  | 3.77 | 2.061 | 2.500  | 6.937  | 6.12  | 4.06 | 2.38 | .750/.7485   | 2.38 | 5.51  | 3/16 X 3/32 P&W | 1.75 |
| 262    | 2.626  | 4.33 | 1.874 | 2.938  | 7.438  | 7.20  | 4.50 | 2.36 | .750/.7485   | 2.38 | 6.07  | 3/16 X 3/32 P&W | 1.75 |
| 302    | 3.001  | 4.84 | 2.624 | 3.250  | 8.875  | 8.12  | 5.25 | 2.38 | .875/.8735   | 2.38 | 6.57  | 3/16 X 3/32 P&W | 1.75 |
| 322    | 3.251  | 5.28 | 2.124 | 3.250  | 8.625  | 8.62  | 5.20 | N/A  | .875/.8735   | 2.38 | 6.75  | 3/16 X 3/32 P&W | 1.75 |
| 382    | 3.751  | 4.90 | 2.374 | 3.937  | 10.062 | 9.60  | 5.62 | 2.20 | 1.000/.999   | 2.48 | 7.38  | 1/4 X 1/8 P&W   | 1.91 |
| 422    | 4.251  | 6.10 | 2.686 | 4.438  | 11.375 | 10.25 | 6.13 | 3.47 | 1.250/1.2485 | 3.47 | 9.60  | 1/4 X 1/8 P&W   | 2.87 |
| 452    | 4.501  | 5.23 | 2.499 | 4.625  | 11.625 | 9.25  | 4.63 | 2.98 | 1.125/1.124  | 3.21 | 8.44  | 1/4 X 1/8       | 2.50 |
| 522    | 5.168  | 5.98 | 2.624 | 5.375  | 13.167 | 10.75 | 5.06 | N/A  | 1.250/1.249  | 3.27 | 9.25  | 1/4 X 1/8       | 2.63 |
| GW602  | 6.000  | N/A  | 4.000 | 6.500  | 16.500 | 14.25 | 8.13 | N/A  | 1.500        | 3.41 | 11.78 | 3/8 X 3/16      | 3.00 |
| GW702  | 7.000  | N/A  | 4.320 | 7.590  | 18.910 | 14.88 | 7.63 | N/A  | 1.625        | 2.98 | 11.50 | 3/8 X 3/16 P&W  | 2.87 |
| GW802  | 8.000  | N/A  | 4.100 | 8.860  | 20.960 | 17.00 | 8.63 | N/A  | 1.875        | 2.84 | 12.50 | 1/2 X 1/4 P&W   | 2.81 |
| GW1002 | 10.000 | N/A  | 5.110 | 10.360 | 25.470 | 20.88 | 9.53 | N/A  | 2.250        | 3.76 | 15.50 | 1/2 X 1/4 P&W   | 3.69 |

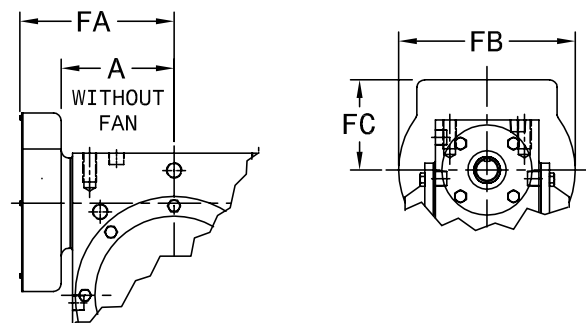
| MODEL  | AA     | BB    | CC    | DD    | EE        | FF   | GG   | HH    | JJ    | KK    | LL    | MM       | NN   | OO   | Wt. Lbs. |
|--------|--------|-------|-------|-------|-----------|------|------|-------|-------|-------|-------|----------|------|------|----------|
| 132    | 2.250  | 1.125 | 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 | 15       |
| 152    | 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  | 15       |
| 182    | 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 | 15       |
| 212    | 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 | 24       |
| 242    | 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  | 37       |
| 262    | 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 | 37       |
| 302    | 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  | 57       |
| 322    | 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 | 66       |
| 382    | 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 | 85       |
| 422    | 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  | 107      |
| 452    | 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  | 107      |
| 522    | 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  | 135      |
| GW602  | 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  | 294      |
| GW702  | 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  | 399      |
| GW802  | 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  | 582      |
| GW1002 | 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  | 905      |

### Stock Output Bores

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

| MODEL  | U (MIN.)                     | U (MAX.) | S     | T    |
|--------|------------------------------|----------|-------|------|
| 132    | N/A                          | 5/8      | 4.50  | 2.25 |
| 152    | N/A                          | 5/8      | 5.42  | 2.71 |
| 182    | 15/16                        | 1        | 4.81  | 2.41 |
| 212    | 15/16                        | 1-1/2    | 5.56  | 2.78 |
| 242    | 1                            | 1-1/2    | 6.00  | 3.00 |
| 262    | 1                            | 1-1/2    | 5.93  | 2.97 |
| 302    | 1-3/16                       | 2-3/16   | 7.50  | 3.75 |
| 322    | 1-7/16                       | 2-3/16   | 7.56  | 3.78 |
| 382    | 1-7/16                       | 2-3/16   | 7.56  | 3.78 |
| 422    | 1-7/16                       | 2-3/16   | 8.50  | 4.25 |
| 452    | *QD BUSHING KIT<br>REQUIRED* |          | 10.00 | 5.00 |
| 522    |                              |          | 11.13 | 5.56 |
| GW602  | 2                            | 3-7/16   | 11.50 | 5.75 |
| GW702  | 2-7/16                       | 3-15/16  | 13.50 | 6.75 |
| GW802  | 3-7/16                       | 4-7/16   | 14.50 | 7.25 |
| GW1002 | 3-7/16                       | 5-7/16   | 18.50 | 9.25 |

### Fan Detail For Models GW602 Through GW1002



| MODEL  | A   | FA    | FB    | FC   |
|--------|-----|-------|-------|------|
| GW602  | N/A | 11.13 | 9.50  | 4.00 |
| GW702  | N/A | 11.37 | 9.65  | 4.83 |
| GW802  | N/A | 12.52 | 9.65  | 4.83 |
| GW1002 | N/A | 14.69 | 11.28 | 5.62 |

ALL GW MODELS ARE FAN COOLED.



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.