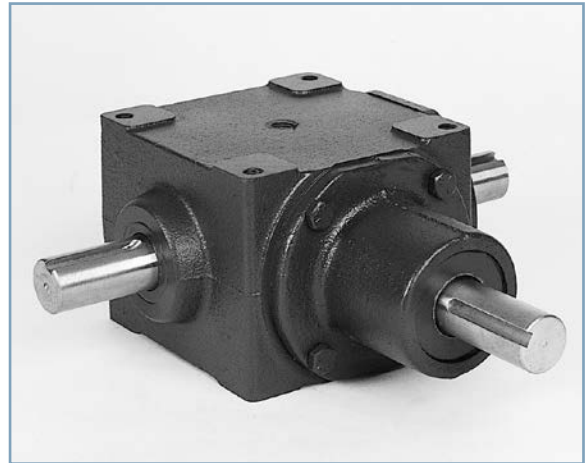


Hub City™ Bevel Gear Drives

Model 165

Features

- Rugged cast iron housing designed for rigid gear and bearing support.
- Alloy shafting for greater strength.
- Tapered roller bearings for endurance and strength.
- Choice of eleven (11) standard gear ratios.
- Certain ratios available in spiral bevel gearing (SP) for increased power density and low noise at higher operating speeds.
- Heavy-duty industrial seals to keep lubricant in and dirt out.
- Universal mounting assures maximum design flexibility.
- Hydraulic motor mounting flanges available.
(Refer to page D-59)
- Base and foot mounting kits available. (Refer to page D-61)
- Hub City lubricant recommended. (Refer to section M)
- Metric versions available. (Refer to page D-57)



Rating Table

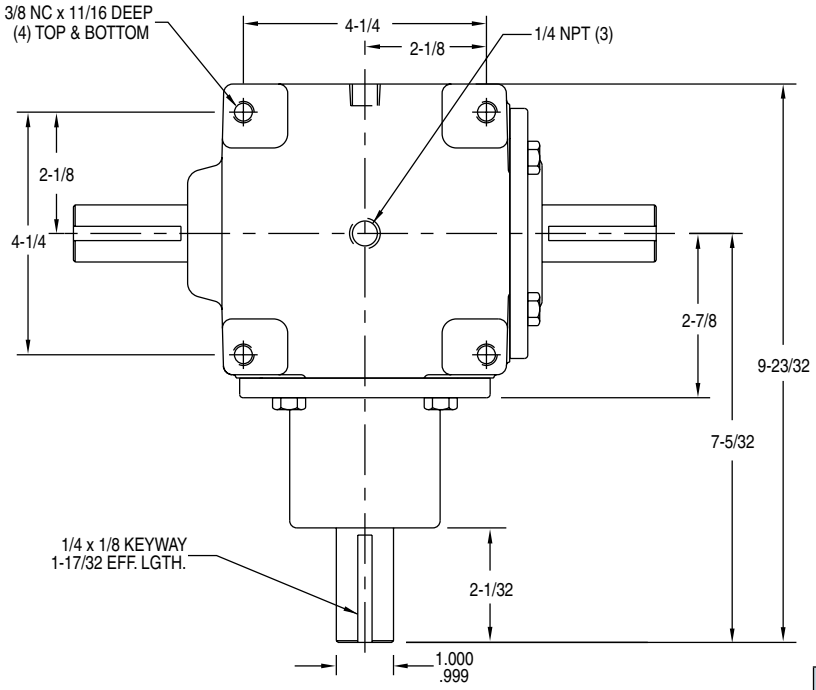
| INPUT RPM† | | REDUCTION RATIOS | | | | | | | INCREASER RATIOS | | | |
|------------|------------------------|------------------|--------|----------|----------|--------|--------|--------|------------------|----------|--------|--------|
| | | 1:1 ST | 1:1 SP | 1.5:1 ST | 1.5:1 SP | 2:1 ST | 2:1 SP | 3:1 SP | 1:1.5 ST | 1:1.5 SP | 1:2 ST | 1:2 SP |
| 3000 | INPUT HORSEPOWER | | 26.87 | | 28.00 | | 16.75 | 8.70 | | | | |
| | OUTPUT TORQUE IN. LBS. | | 564.00 | | 883.00 | | 703.00 | 548.00 | | | | |
| | ‡INPUT O.H.L. | | 25.00 | | 25.00 | | 55.00 | 225.00 | | | | |
| | ‡OUTPUT O.H.L. | | 160.00 | | 200.00 | | 500.00 | 625.00 | | | | |
| 2400 | INPUT HORSEPOWER | | 21.80 | | 22.70 | 9.00 | 13.65 | 7.00 | | | | |
| | OUTPUT TORQUE IN. LBS. | | 570.00 | | 895.00 | 341.00 | 717.00 | 554.00 | | | | |
| | ‡INPUT O.H.L. | | 54.00 | | 50.00 | 330.00 | 85.00 | 275.00 | | | | |
| | ‡OUTPUT O.H.L. | | 215.00 | | 225.00 | 410.00 | 600.00 | 700.00 | | | | |
| 1750 | INPUT HORSEPOWER | | 16.00 | 9.20 | 16.90 | 6.25 | 10.25 | 5.20 | | 24.70 | 24.70 | |
| | OUTPUT TORQUE IN. LBS. | | 580.00 | 500.00 | 911.00 | 442.00 | 736.00 | 562.00 | | 593.00 | 593.00 | |
| | ‡INPUT O.H.L. | | 114.00 | 366.00 | 75.00 | 372.00 | 125.00 | 350.00 | | 60.00 | 45.00 | |
| | ‡OUTPUT O.H.L. | | 265.00 | 320.00 | 275.00 | 455.00 | 665.00 | 775.00 | | 75.00 | 75.00 | |
| 1150 | INPUT HORSEPOWER | 17.00 | 11.00 | 6.20 | 11.30 | 4.25 | 7.00 | 3.50 | 8.20 | 16.70 | 7.20 | 13.44 |
| | OUTPUT TORQUE IN. LBS. | 930.00 | 600.00 | 510.00 | 930.00 | 465.00 | 761.00 | 571.00 | 299.00 | 610.00 | 195.00 | 368.00 |
| | ‡INPUT O.H.L. | 79.00 | 182.00 | 426.00 | 125.00 | 434.00 | 200.00 | 475.00 | 429.00 | 115.00 | 426.00 | 80.00 |
| | ‡OUTPUT O.H.L. | 260.00 | 310.00 | 380.00 | 375.00 | 525.00 | 750.00 | 800.00 | 135.00 | 90.00 | 135.00 | 135.00 |
| 850 | INPUT HORSEPOWER | 13.00 | 8.30 | 4.70 | 8.50 | 3.25 | 5.25 | 2.60 | 6.10 | 12.50 | 5.70 | 10.20 |
| | OUTPUT TORQUE IN. LBS. | 960.00 | 615.00 | 520.00 | 941.00 | 481.00 | 777.00 | 576.00 | 301.00 | 618.00 | 210.00 | 377.00 |
| | ‡INPUT O.H.L. | 121.00 | 211.00 | 473.00 | 250.00 | 481.00 | 280.00 | 575.00 | 477.00 | 225.00 | 469.00 | 150.00 |
| | ‡OUTPUT O.H.L. | 305.00 | 355.00 | 425.00 | 450.00 | 555.00 | 800.00 | 800.00 | 135.00 | 110.00 | 135.00 | 135.00 |
| 690 | INPUT HORSEPOWER | 10.60 | 6.80 | 3.90 | 6.90 | 2.70 | 4.30 | 2.10 | 5.00 | 10.20 | 4.70 | 8.40 |
| | OUTPUT TORQUE IN. LBS. | 970.00 | 620.00 | 530.00 | 950.00 | 494.00 | 788.00 | 578.00 | 304.00 | 621.00 | 215.00 | 383.00 |
| | ‡INPUT O.H.L. | 156.00 | 243.00 | 508.00 | 325.00 | 517.00 | 345.00 | 600.00 | 512.00 | 290.00 | 500.00 | 210.00 |
| | ‡OUTPUT O.H.L. | 345.00 | 395.00 | 470.00 | 500.00 | 575.00 | 800.00 | 800.00 | 135.00 | 125.00 | 135.00 | 135.00 |
| 400 | INPUT HORSEPOWER | 6.30 | 4.10 | 2.30 | 4.10 | 1.60 | 2.60 | 1.24 | 3.00 | 6.00 | 2.80 | 5.06 |
| | OUTPUT TORQUE IN. LBS. | 1000.00 | 645.00 | 550.00 | 964.00 | 504.00 | 815.00 | 586.00 | 315.00 | 630.00 | 220.00 | 398.00 |
| | ‡INPUT O.H.L. | 374.00 | 319.00 | 600.00 | 375.00 | 600.00 | 500.00 | 600.00 | 600.00 | 345.00 | 600.00 | 400.00 |
| | ‡OUTPUT O.H.L. | 425.00 | 475.00 | 610.00 | 650.00 | 780.00 | 800.00 | 800.00 | 135.00 | 135.00 | 135.00 | 135.00 |
| 300 | INPUT HORSEPOWER | 5.00 | 3.10 | 1.80 | 3.10 | 1.25 | 2.00 | .94 | 2.30 | 4.60 | 2.20 | 3.87 |
| | OUTPUT TORQUE IN. LBS. | 1010.00 | 650.00 | 560.00 | 974.00 | 525.00 | 829.00 | 592.00 | 322.00 | 644.00 | 230.00 | 406.00 |
| | ‡INPUT O.H.L. | 450.00 | 384.00 | 600.00 | 475.00 | 600.00 | 600.00 | 600.00 | 600.00 | 425.00 | 600.00 | 500.00 |
| | ‡OUTPUT O.H.L. | 500.00 | 550.00 | 655.00 | 750.00 | 800.00 | 800.00 | 800.00 | 135.00 | 135.00 | 135.00 | 135.00 |
| 100 | INPUT HORSEPOWER | 1.65 | 1.10 | .65 | 1.05 | .50 | .70 | .32 | .81 | 1.60 | .75 | 1.37 |
| | OUTPUT TORQUE IN. LBS. | 1040.00 | 693.00 | 615.00 | 993.00 | 630.00 | 876.00 | 605.00 | 340.00 | 672.00 | 235.00 | 433.00 |
| | ‡INPUT O.H.L. | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 | 600.00 |
| | ‡OUTPUT O.H.L. | 775.00 | 800.00 | 800.00 | 800.00 | 800.00 | 800.00 | 800.00 | 135.00 | 135.00 | 135.00 | 135.00 |

† FOR HIGHER INPUT SPEEDS CONSULT FACTORY.

‡ OVERHUNG LOAD IN POUNDS AT CENTER OF SHAFT EXTENSIONS.

Hub City™ Bevel Gear Drives

Model 165



NOTE: STYLE G & GG
 1. DIMENSIONS FOR SHAFTS A, A1, AND A2 ARE IDENTICAL FOR ALL RATIOS.
 2. CENTERLINE TO END OF SHAFT DIMENSIONS WILL VARY. REQUEST CERTIFIED DIMENSIONAL PRINTS.

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION M

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

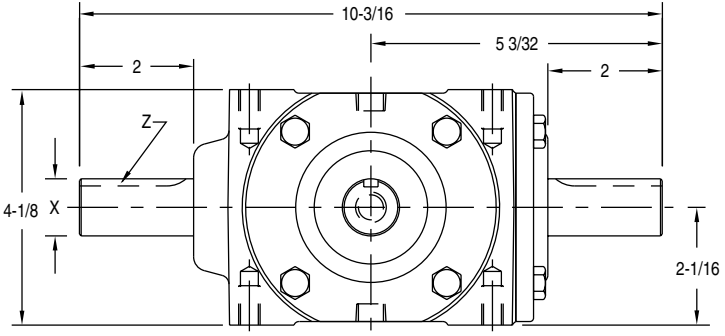
DOWNLOAD AVAILABLE CAD MODELS AT: WWW.HUBCITYINC.COM

| CROSS SHAFT REDUCTION RATIOS | | | | | | | | |
|------------------------------|------------------------------|--------|----------|----------|--------|--------|--------|--|
| MODEL NO. | 1:1 ST | 1:1 SP | 1.5:1 ST | 1.5:1 SP | 2:1 ST | 2:1 SP | 3:1 SP | |
| DIA. X | 1.000 .999 | | | | | | | |
| KEYWAY Z | 1/4 x 1/8 x1-5/32 EFF. LGTH. | | | | | | | |

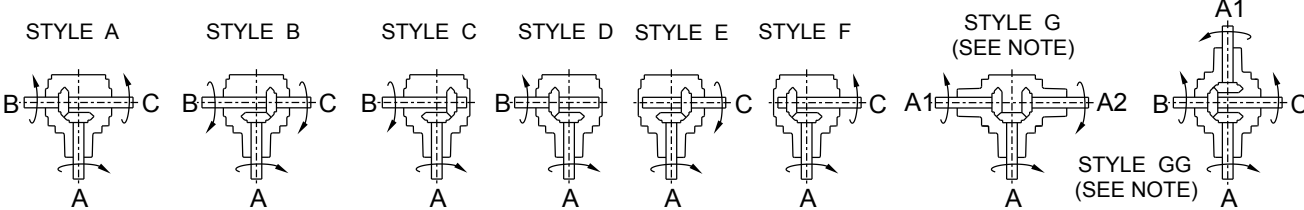
| CROSS SHAFT INCREASER RATIOS | | | | |
|------------------------------|----------------------------------|--------------------------------|----------------------------------|--------|
| RATIO | 1:1.5 ST | 1:1.5 SP | 1:2 ST | 1:2 SP |
| DIA. X | .625** .624 | 1.000 .999 | .625** .624 | |
| KEYWAY Z | 3/16 x 3/32 x 1-19/32 EFF. LGTH. | 1/4 x 1/8 x 1-17/32 EFF. LGTH. | 3/16 x 3/32 x 1-19/32 EFF. LGTH. | |

**FOR STYLES A, B & GG ONLY.

DRY SHIPPING WEIGHTS
STYLES A, B, C, D, E, F.....25 lbs.
STYLES G.....31 lbs.
STYLES GG.....36 lbs.



Standard Styles Available



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