

Hub City Bevel Gear Drives

Model 800-810

Features

- Rugged ductile iron housing provides maximum gear and bearing support.
- Alloy shafting for greater strength.
- Tapered roller bearings for endurance and strength.
- Choice of thirteen (13) 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.
- Base mounting kit available. (Refer to page D-65)
- Pinion shaft mounting available. (Refer to page D-66)
- Hydraulic motor mounting flanges available. (Refer to page D-67)
- Hub City lubricant recommended. (Refer to section S)
- Metric versions available. (Refer to page D-57)



Rating Table

INPUT RPM†		REDUCTION RATIOS									INCREASER RATIOS			
		1:1 ST	1:1 SP	1.21:1 ST Δ	1.33:1 ST	1.5:1 ST	1.5:1 SP	1.71:1 ST	2:1 SP	3:1 SP	1:1.21 STA	1:1.33 ST	1:1.5 ST	1:1.71 STA*
1750	INPUT HORSEPOWER		132.00				69.00		56.00	30.69				
	OUTPUT TORQUE IN. LBS.		4750.00				3720.00		4070.00	3316.00				
	‡INPUT O.H.L.		140.00				75.00		65.00	100.00				
	‡OUTPUT O.H.L.		690.00				500.00		750.00	600.00				
1150	INPUT HORSEPOWER		90.00			44.00	47.00	33.00	38.00	20.55				
	OUTPUT TORQUE IN. LBS.		4930.00			3620.00	3830.00	3100.00	4169.00	3378.70				
	‡INPUT O.H.L.		308.00			1036.00	300.00	1076.00	225.00	290.00				
	‡OUTPUT O.H.L.		708.00			1280.00	1100.00	1330.00	1400.00	950.00				
850	INPUT HORSEPOWER		67.00	48.00	45.00	34.00	35.70	26.00	29.00	15.39				
	OUTPUT TORQUE IN. LBS.		4970.00	4271.00	4350.00	3780.00	3970.00	3280.00	4230.00	3423.40				
	‡INPUT O.H.L.		478.00	1062.00	1098.00	1162.00	475.00	1189.00	300.00	400.00				
	‡OUTPUT O.H.L.		870.00	1125.00	1175.00	1425.00	1550.00	1475.00	1600.00	1200.00				
690	INPUT HORSEPOWER	56.20	56.00	40.00	37.00	28.00	29.50	21.60	23.00	12.59	46.00	48.00	42.00	29.10
	OUTPUT TORQUE IN. LBS.	5130.00	5115.00	4383.00	4400.00	3840.00	4040.00	3327.00	4267.00	3449.90	3500.00	3290.00	2560.00	1550.00
	‡INPUT O.H.L.	1040.00	566.00	1149.00	1192.00	1257.00	625.00	1280.00	450.00	475.00	1023.00	1020.00	1069.00	1174.00
	‡OUTPUT O.H.L.	940.00	940.00	1185.00	1235.00	1525.00	1750.00	1580.00	2050.00	1350.00	1076.00	1101.00	1066.00	1268.00
400	INPUT HORSEPOWER	33.80	33.00	24.00	22.10	17.00	17.60	13.00	13.80	7.43	28.00	22.00	20.00	18.30
	OUTPUT TORQUE IN. LBS.	5320.00	5200.00	4527.00	4630.00	4010.00	4160.00	3485.00	4356.00	3512.10	3780.00	3410.00	2710.00	1680.00
	‡INPUT O.H.L.	1309.00	934.00	1425.00	1471.00	1530.00	975.00	1558.00	925.00	700.00	1284.00	1292.00	1338.00	1446.00
	‡OUTPUT O.H.L.	1160.00	1160.00	1515.00	1640.00	1970.00	2200.00	1915.00	2200.00	1650.00	1400.00	1445.00	1387.00	1541.00
300	INPUT HORSEPOWER	25.80	25.00	19.00	16.60	13.00	13.50	10.00	10.50	5.62	22.00	22.00	20.00	14.00
	OUTPUT TORQUE IN. LBS.	5420.00	5250.00	4788.00	4720.00	4100.00	4250.00	3580.00	4394.00	3542.00	3860.00	3460.00	2800.00	1720.00
	‡INPUT O.H.L.	1474.00	1155.00	1572.00	1647.00	1699.00	1200.00	1750.00	1200.00	800.00	1430.00	1456.00	1484.00	1613.00
	‡OUTPUT O.H.L.	1340.00	1340.00	1740.00	1790.00	2125.00	2200.00	2195.00	2200.00	1800.00	1572.00	1646.00	1552.00	1750.00
100	INPUT HORSEPOWER	9.00	9.00	6.70	6.10	4.60	4.80	3.40	3.60	1.91	8.00	7.80	6.90	5.10
	OUTPUT TORQUE IN. LBS.	5660.00	5670.00	5067.00	5000.00	4350.00	4440.00	3642.00	4511.00	3611.30	4200.00	3690.00	2900.00	1880.00
	‡INPUT O.H.L.	1750.00	1750.00	1750.00	1750.00	1750.00	1750.00	1750.00	1750.00	1200.00	1750.00	1750.00	1750.00	1750.00
	‡OUTPUT O.H.L.	2080.00	2080.00	2200.00	2200.00	2200.00	2200.00	2200.00	2200.00	2200.00	1750.00	1750.00	1750.00	1750.00
WR2 (Lb. In.2) REFERRED TO HIGH SPEED SHAFT	STYLE													
	A, B	57.58	52.29	40.37	37.28	29.88	26.60	22.91	15.11	8.62	59.82	67.11	69.14	NA
	C, D, E, F	56.64	51.17	39.73	36.75	29.46	26.18	22.58	14.88	8.51	58.44	65.45	67.02	NA
	G	83.96	76.02	61.83	58.08	47.13	40.03	36.11	22.54	11.46	81.99	90.52	91.16	91.85
WR2 (Lb. In.2) REFERRED TO LOW SPEED SHAFT	GG	91.35	83.41	61.04	52.06	41.22	38.81	31.79	22.32	14.20	92.76	105.11	109.00	NA
	A, B	57.58	52.29	59.11	65.94	67.22	59.84	66.98	60.46	77.56	40.86	37.94	30.73	NA
	C, D, E, F	56.64	51.17	58.16	65.00	66.28	58.90	66.04	59.52	76.62	39.92	37.00	29.79	NA
	G	83.96	76.02	90.53	102.74	106.05	90.07	105.58	90.16	103.13	56.00	51.17	40.52	31.41
	GG	91.35	83.41	98.37	92.09	92.74	87.32	92.96	89.27	127.77	63.35	59.42	48.45	NA

Δ MFG. TO ORDER – CONSULT FACTORY FOR PRICE AND DELIVERY.

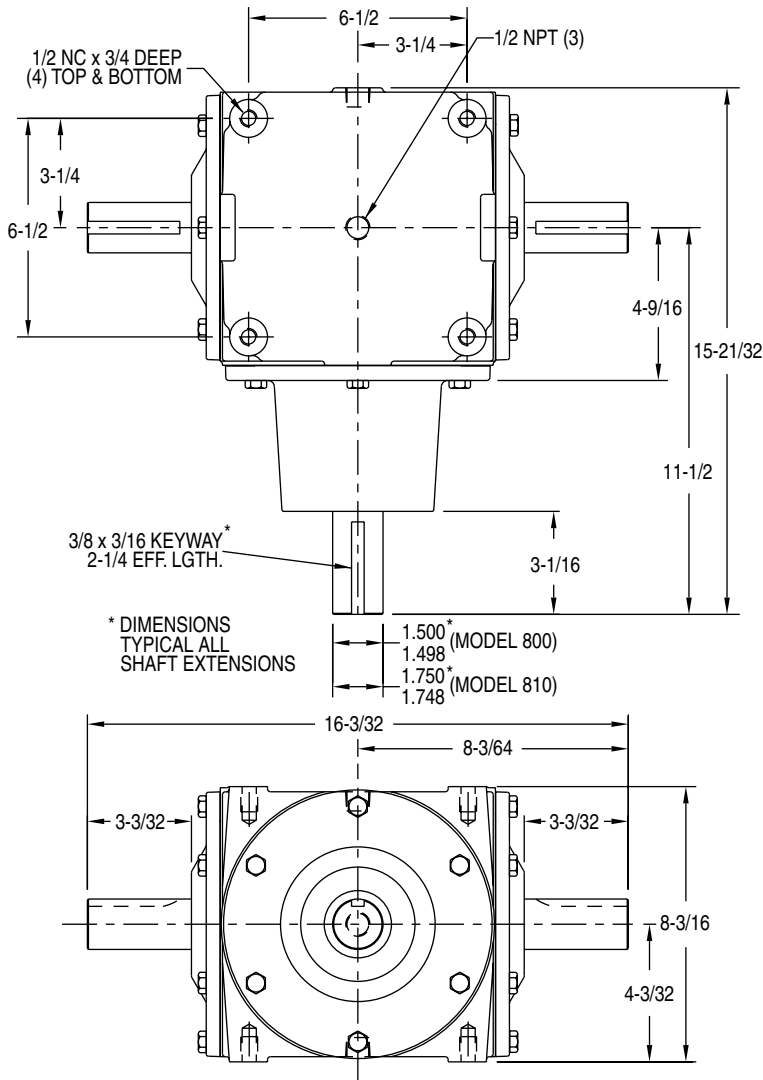
* MODEL 800 ONLY

† FOR HIGHER INPUT SPEEDS CONSULT FACTORY.

‡ OVERHUNG LOAD IN LBS. AT CENTER OF SHAFT EXTENSIONS.

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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 S

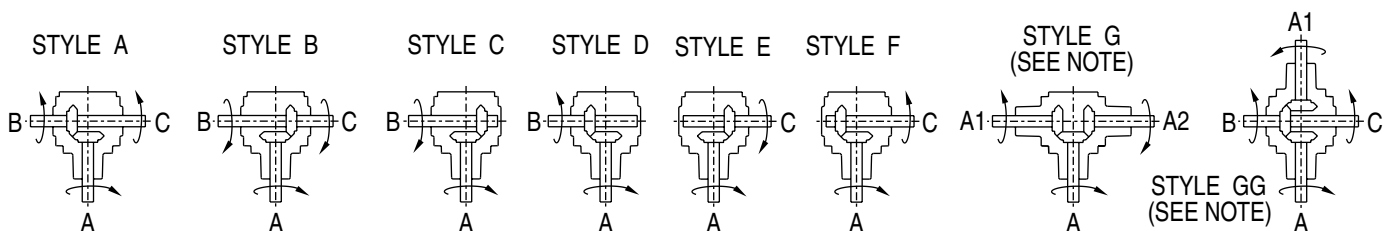
DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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DRY SHIPPING WEIGHTS

	800.....	810
STYLES A, B, C, D, E, F	90 lbs.	92 lbs.
STYLES G	123 lbs.	125 lbs.
STYLES GG	141 lbs.	145 lbs.

Standard Styles Available



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