Hub City™ Bevel Gear Drives

Model 88

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 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-59)
- Pinion shaft mounting available. (Refer to page D-60)
- Reversing model available as factory option. (Refer to page D-60)
- Hydraulic motor mounting flanges available. (Refer to page D-61)
- Hub City lubricant recommended. (Refer to section M)

Rating Table

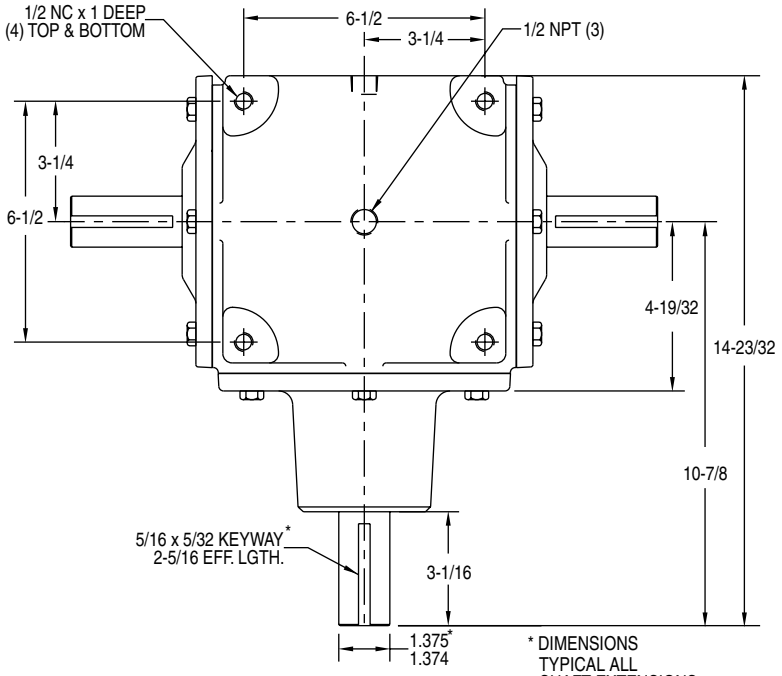
INPUT RPM†		REDUCTION RATIOS								INCREASER RATIOS				
		1:1 ST	1:1 SP	1.5:1 ST	1.5:1 SP	2:1 ST	2:1 SP	3:1 SP	3:1 SP	1:1.5 ST	1:1.5 SP	1:2 ST	1:2 SP	1:3 ST*
1750	INPUT HORSEPOWER		90.00		69.00		56.00	15.00	30.69					
	OUTPUT TORQUE IN. LBS.		3240.00		3720.00		4070.00	1621.00	3316.00					
	INPUT O.H.L. †		35.00		97.00		85.00	600.00	65.00					
	OUTPUT O.H.L. ‡		320.00		475.00		225.00	760.00	400.00					
1150	INPUT HORSEPOWER		63.00	39.00	47.00	22.00	38.00	9.90	20.55		68.00		73.00	
	OUTPUT TORQUE IN. LBS.		3450.00	3200.00	3860.00	2410.00	4169.00	1629.00	3378.70		2480.00		2000.00	
	INPUT O.H.L. †		202.00	99.00	216.00	330.00	150.00	709.00	175.00		152.00		115.00	
	OUTPUT O.H.L. ‡		370.00	570.00	600.00	700.00	275.00	820.00	525.00		219.00		210.00	
850	INPUT HORSEPOWER	44.00	48.00	29.00	35.70	16.50	29.00	7.50	15.39		51.00		55.00	
	OUTPUT TORQUE IN. LBS.	3260.00	3558.00	3220.00	3970.00	2446.00	4230.00	1669.00	3423.40		2520.00		2039.00	
	INPUT O.H.L. †	103.00	243.00	309.00	234.00	506.00	185.00	793.00	200.00		176.00		145.00	
	OUTPUT O.H.L. ‡	385.00	410.00	600.00	625.00	850.00	350.00	900.00	620.00		252.00		225.00	
690	INPUT HORSEPOWER	36.50	39.50	24.00	29.50	13.80	23.00	6.50	12.59	25.00	42.50	26.00	45.00	11.40
	OUTPUT TORQUE IN. LBS.	3330.00	3607.00	3290.00	4040.00	2520.00	4267.00	1780.00	3449.90	1520.00	2585.00	1188.00	2055.00	350.00
	INPUT O.H.L. †	234.00	308.00	432.00	329.00	602.00	235.00	843.00	240.00	290.00	247.00	373.00	175.00	892.00
	OUTPUT O.H.L. ‡	450.00	475.00	685.00	710.00	950.00	400.00	1200.00	700.00	710.00	356.00	603.00	275.00	641.00
400	INPUT HORSEPOWER	21.50	23.50	14.30	17.60	8.50	13.80	3.80	7.43	18.00	26.00	15.40	27.00	7.30
	OUTPUT TORQUE IN. LBS.	3390.00	3702.00	3380.00	4160.00	2680.00	4356.00	1800.00	3512.00	1890.00	2730.00	1210.00	2127.00	380.00
	INPUT O.H.L. †	514.00	429.00	565.00	546.00	925.00	325.00	1035.00	330.00	612.00	396.00	792.00	244.00	1062.00
	OUTPUT O.H.L. ‡	565.00	590.00	910.00	930.00	1170.00	635.00	1400.00	825.00	831.00	498.00	819.00	500.00	778.00
300	INPUT HORSEPOWER	16.40	18.00	10.90	13.50	6.50	10.50	2.90	5.62	15.00	20.00	11.75	20.00	5.70
	OUTPUT TORQUE IN. LBS.	3440.00	3780.00	3435.00	4250.00	2730.00	4394.00	1827.00	3542.00	2020.00	2790.00	1235.00	2101.00	400.00
	INPUT O.H.L. †	600.00	486.00	794.00	631.00	1038.00	365.00	1147.00	420.00	700.00	452.00	996.00	275.00	1170.00
	OUTPUT O.H.L. ‡	630.00	655.00	995.00	1020.00	1250.00	875.00	1475.00	925.00	889.00	514.00	987.00	625.00	860.00
100	INPUT HORSEPOWER	5.80	6.50	3.80	4.80	2.30	3.60	1.00	1.91	5.60	7.10	4.25	7.00	2.00
	OUTPUT TORQUE IN. LBS.	3650.00	4095.00	3590.00	4440.00	2898.00	4511.00	1891.00	3611.30	2350.00	2980.00	1340.00	2206.00	420.00
	INPUT O.H.L. †	1050.00	843.00	1400.00	1120.00	1400.00	650.00	1400.00	850.00	1235.00	608.00	1400.00	500.00	1400.00
	OUTPUT O.H.L. ‡	1075.00	1100.00	1475.00	1500.00	1500.00	1200.00	1500.00	1365.00	1400.00	829.00	1400.00	900.00	1250.00
WR2 (Lb. In.2) REFERRED TO HIGH SPEED SHAFT	STYLE													
	A, B	31.46	45.53	19.28	22.28	10.72	10.50	6.59	4.67	44.31	51.04	44.56	44.27	NA
	C, D, E, F	31.08	45.15	19.12	22.11	10.63	10.40	6.55	4.63	43.48	50.22	43.09	42.81	NA
	G	45.90	66.96	30.86	35.61	17.18	17.08	11.26	7.44	57.94	67.46	54.75	54.50	72.33
	GG	46.30	67.79	26.03	31.14	13.93	14.48	8.40	6.49	71.34	85.97	71.99	71.85	NA
WR2 (Lb. In.2) REFERRED TO LOW SPEED SHAFT	A, B	31.46	45.53	43.38	50.12	42.87	41.99	59.30	42.01	19.69	22.69	11.14	11.07	NA
	C, D, E, F	31.08	45.15	43.02	49.75	42.51	41.61	58.94	41.64	19.33	22.32	10.78	10.70	NA
	G	45.90	66.96	69.45	80.13	68.73	68.31	101.36	66.93	25.75	29.98	13.69	13.62	8.04
	GG	46.30	67.79	58.56	70.06	55.73	57.92	75.60	58.41	31.71	38.21	18.00	17.96	NA

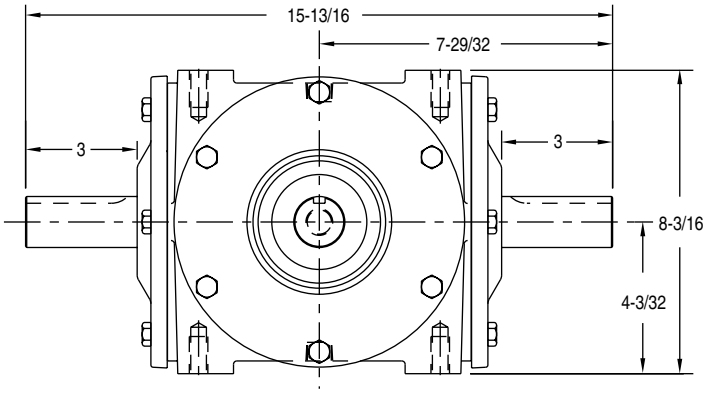
*AVAILABLE IN STYLE G ONLY

† FOR HIGHER INPUT SPEEDS CONSULT FACTORY.

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

CALL: (605) 225-0360 • FAX: (605) 225-0567





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

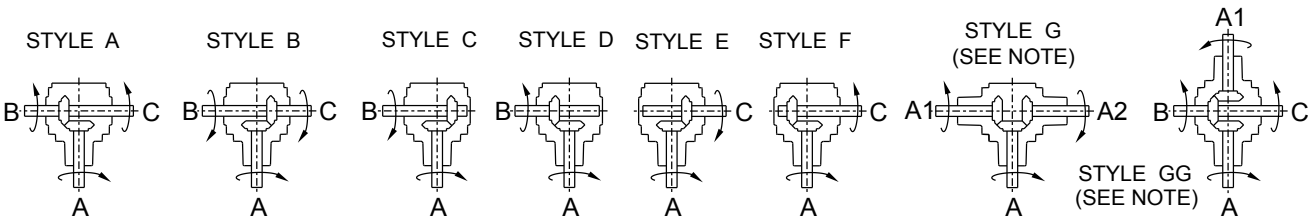
DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

DOWNLOAD AVAILABLE CAD MODELS AT:
WWW.HUBCITYINC.COM

DRY SHIPPING WEIGHTS

STYLES A, B, C, D, E, F.....88 lbs.
STYLES G.....100 lbs.
STYLES GG.....112 lbs.

Standard Styles Available



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