

Hub City™ Parallel Shaft Drives

Model 85L – Single Reduction

Features

- Rugged cast iron housing designed for rigid gear and bearing support.
- Alloy shafting and sleeves for greater strength.
- Ball bearings on all shafts.
- Choice of five (5) standard ratios.
- Heat treated alloy steel gearing for strength and long wear life.
- Heavy-duty industrial seals to keep lubricant in and dirt out.
- Shaft mount design for direct mounting on the drive shaft of equipment to be driven.
- Hub City lubricant recommended. (Refer to Section M)
- Unit may be operated as a speed increaser or speed reducer.



SINGLE REDUCTION UNITS PROVIDE OPPOSITE DIRECTION OUTPUT ROTATION

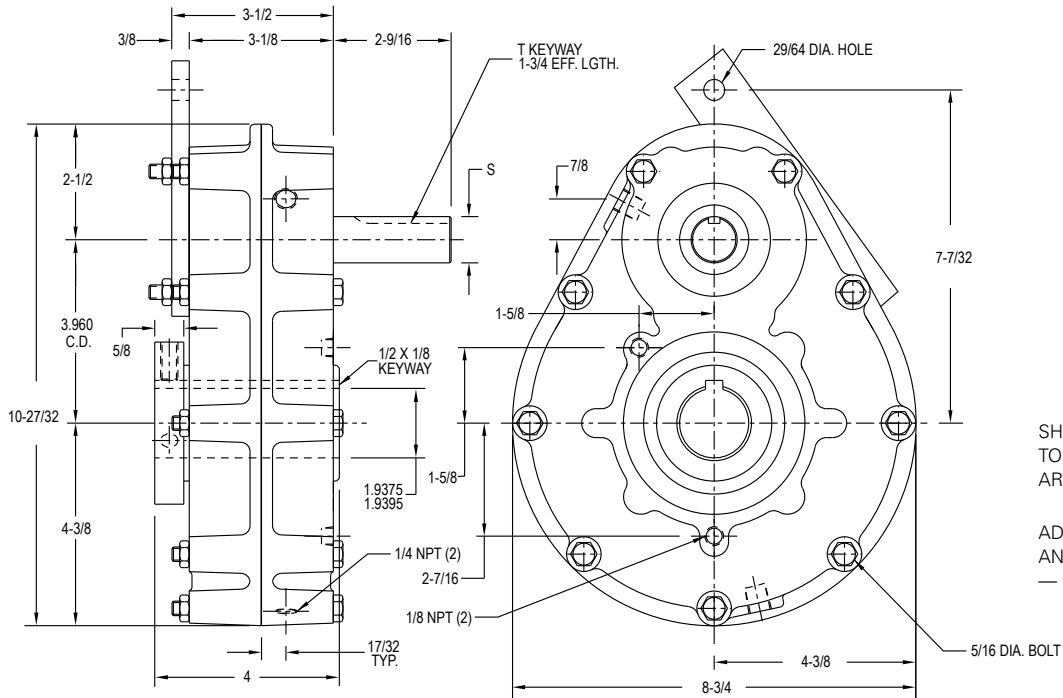
Rating Tables

INPUT RPM		SPEED REDUCER RATIOS				
		2.04:1	3.12:1	4.00:1	5.00:1	6.09:1
1750	INPUT HORSEPOWER	38.5	29.6	24.8	21.0	17.8
	OUTPUT RPM	858	561	438	350	287
	OUTPUT TORQUE IN. LBS.	2800	3291	3534	3740	3866
1150	INPUT HORSEPOWER	29.5	21.7	17.8	15.0	12.5
	OUTPUT RPM	564	369	288	230	189
	OUTPUT TORQUE IN. LBS.	3267	3669	3866	4056	4144
850	INPUT HORSEPOWER	23.8	17.1	13.9	11.6	9.8
	OUTPUT RPM	417	272	213	170	140
	OUTPUT TORQUE IN. LBS.	3564	3905	4085	4245	4364
690	INPUT HORSEPOWER	20.3	14.4	11.7	9.7	8.2
	OUTPUT RPM	338	221	173	138	113
	OUTPUT TORQUE IN. LBS.	3745	4056	4226	4380	4500
100	INPUT HORSEPOWER	4.24	2.87	2.25	1.81	1.49
	OUTPUT RPM	49.0	32.0	25.0	20.0	16.4
	OUTPUT TORQUE IN. LBS.	5398	5592	5620	5658	5680

INPUT RPM		SPEED INCREASER RATIOS				
		1:2.04	1:3.12	1:4.00	1:5.00	1:6.09
1000	INPUT HORSEPOWER	49.4				
	OUTPUT RPM	2043				
	OUTPUT TORQUE IN. LBS.	1524				
850	INPUT HORSEPOWER	42.7	44.7			
	OUTPUT RPM	1737	2650			
	OUTPUT TORQUE IN. LBS.	1551	1064			
540	INPUT HORSEPOWER	28.4	29.7	30.9	26.7	26.5
	OUTPUT RPM	1103	1683	2160	2700	3289
	OUTPUT TORQUE IN. LBS.	1620	1113	902	623	508
300	INPUT HORSEPOWER	16.5	17.3	18.1	15.6	15.5
	OUTPUT RPM	613	935	1200	1500	1827
	OUTPUT TORQUE IN. LBS.	1697	1169	949	655	535
100	INPUT HORSEPOWER	5.86	6.18	6.44	5.57	5.54
	OUTPUT RPM	204	312	400	500	609
	OUTPUT TORQUE IN. LBS.	1807	1248	1014	701	573

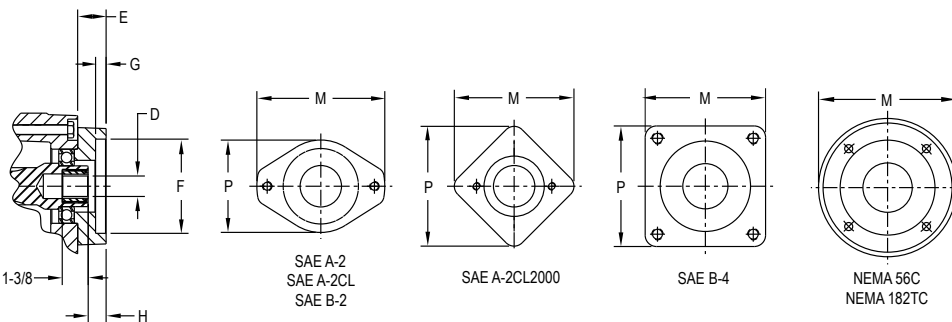
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SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE SEE PAGE F-45.

ADDITIONAL RATIOS, OUTPUT BORES AND INPUT BORES ARE AVAILABLE — CONSULT FACTORY.



SEE CHART FOR (QTY) J HOLES ON K B.C. FOR EACH FLANGE SIZE

HIGH SPEED SHAFT DIMENSIONS		
RATIO	S DIA.	T KEYWAY
2:1, 3:1, 4:1 & 5:1	1.000/.998	1/4 X 1/8
6:1	.875/.874	3/16 X 3/32

FOR LUBRICATION AND INSTALLATION INSTRUCTIONS - REFER TO SECTION M.

DRY SHIPPING WEIGHT 40 LBS.

DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. DOWNLOAD AVAILABLE CAD MODELS AT: WWW.HUBCITYINC.COM

OPTIONAL LOW SPEED BORE SIZES AVAILABLE
1", 1-1/8, 1-3/16, 1-1/4, 1-3/8, 1-7/16, 1-1/2, 1-5/8, 1-11/16, 1-3/4, 1-13/16, 1-7/8, 2", 1-3/8-6B Spl, 1-3/8-21T Spline

INPUT BUSHING SIZES			
D			
.625 DIA. - 3/16 X 3/32 KW	1.125 DIA. - 1/4 X 1/8 KW	1" - 6B SPLINE	14T - 12/24 D.P. SPLINE
.875 DIA. - 3/16 X 3/32 KW	1.250 DIA. - 1/4 X 1/8 KW	9T - 16/32 D.P. SPLINE	15T - 16/32 D.P. SPLINE
1.000 DIA. - 1/4 X 1/8 KW	1.250 DIA. - 5/16 X 1/8 KW	13T - 16/32 D.P. SPLINE	21T - 16/32 D.P. SPLINE

FLANGE	E	COUNTERBORE F	G	H	(QTY) J HOLES	B.C. DIA. K	M	P
A-2	1-7/16	3.251 / 3.253	5/16	7/16	(2) 3/8 NC	4-3/16	5-1/8	4-1/16
A-2CL	1-7/16	3.251 / 3.253	3/16	7/16	(2) 1/2 NC	4-3/16	5-1/8	4-1/16
A-2CL2000	1-13/16	3.251 / 3.253	13/32	51/64	(2) 1/2 NC	4-3/16	5-1/2	5-1/2
B-2	1-7/16	4.001 / 4.003	7/16	7/16	(2) 1/2 NC	5-3/4	6-7/8	5-1/4
B-4	1-7/16	4.001 / 4.003	7/16	7/16	(4) 1/2 NC	5	5-1/8	5-1/8
56C	1-5/8	4.502 / 4.504	5/16	5/8	(4) 13/32 DIA.	5-7/8	6-9/16	-
182TC	2-7/16	8.502 / 8.505	5/16	1-7/16	(4) 17/32 DIA.	7-1/4	9-1/8	-