

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 EQUALS 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 EQUALS 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 EQUALS 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 EQUALS 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
	100	20	5.0	0.147	66.6	1233	THERMAL EQUALS 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 EQUALS 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

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.

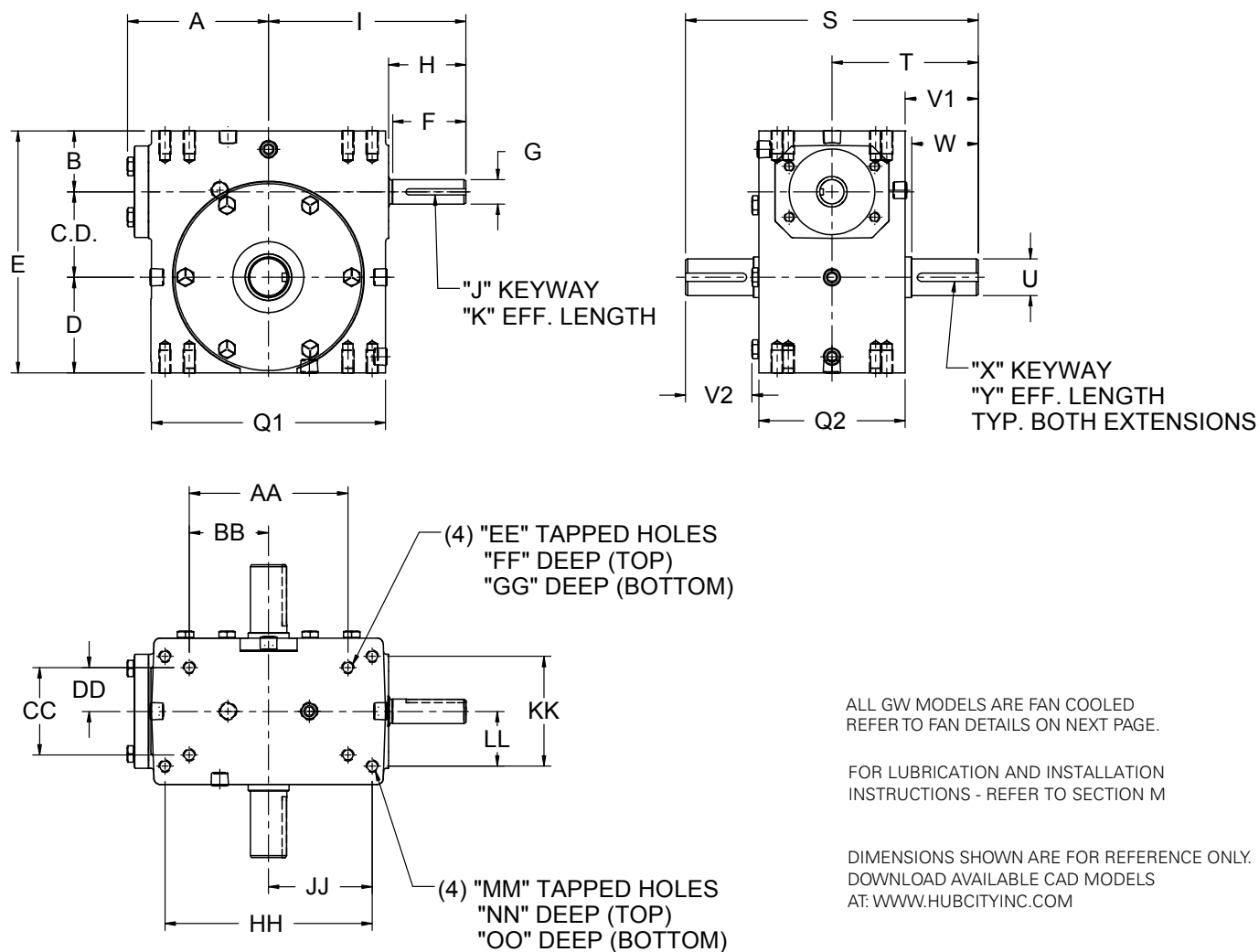
±OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

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

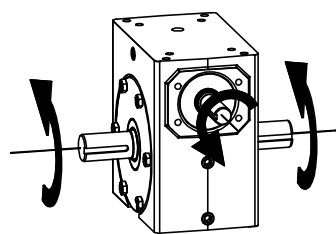
Hub City™ Worm Gear Drives

Single Reduction Models

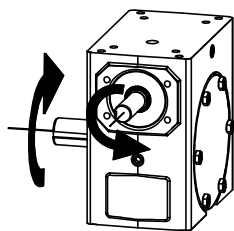
131, 151, 181, 211, 241, 261, 301, 321, 381, 421, 451, 521, GW601, GW701, GW801, GW1001



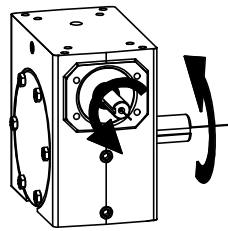
Standard Styles Available



STYLE "A"



STYLE "B"



STYLE "C"

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS.

INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

Hub City™ Worm Gear Drives

Single Reduction Models

131, 151, 181, 211, 241, 261, 301, 321, 381, 421, 451, 521, GW601, GW701, GW801, GW1001

MODEL	C.D.	A	B	D	E	Q1	Q2	F	G	H	I	J	K
131	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
151	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
181	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
211	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
241	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
261	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
301	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
321	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
381	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
421	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
451	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
521	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
GW601	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
GW701	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
GW801	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
GW1001	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.
131	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	10
151	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
181	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
211	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	23
241	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
261	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
301	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
321	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	60
381	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
421	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	102
451	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	102
521	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	128
GW601	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	288
GW701	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
GW801	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
GW1001	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

MODEL	S	T	U	V1	V2	W	X	Y
131	6.50	3.25	.625/.624	1.69	1.53	1.60	3/16 X 3/32	1.38
151	8.62	4.31	.750/.7485	2.11	1.90	2.08	3/16 X 3/32	1.51
181	7.00	3.50	.750/.749	1.78	1.57	1.54	3/16 X 3/32	1.41
211	8.50	4.25	.875/.874	2.19	1.98	1.95	3/16 X 3/32	1.83
241	10.28	5.14	1.125/1.1235	2.66	2.44	2.62	1/4 x 1/8	1.76
261	9.00	4.50	1.250/1.249	2.25	2.04	N/A	1/4 x 1/8	1.85
301	13.50	6.75	1.250/1.2485	3.60	3.36	3.57	1/4 X 1/8	2.26
321	10.88	5.44	1.375/1.374	2.84	2.62	2.75	5/16 X 5/32	2.31
381	13.38	6.69	1.500/1.499	3.88	N/A	N/A	3/8 X 3/16	3.16
421	16.24	8.12	1.875/1.8735	4.50	4.21	4.47	1/2 X 1/4	3.06
451 **	14.50	7.25	1.625/1.624	4.18	N/A	3.90	3/8 X 3/16	3.28
521 ***	15.62	7.81	1.750/1.749	4.47	N/A	4.17	3/8 X 3/16	3.50
GW601	20.00	10.00	2.500	4.65	4.65	N/A	5/8 X 5/16 P&W	4.00
GW701	23.52	11.76	2.750	5.65	5.65	N/A	5/8 X 5/16 P&W	4.00
GW801	24.50	12.25	3.000	5.98	5.98	5.26	3/4 X 3/8 P&W	4.50
GW1001	29.50	14.75	3.750	6.76	6.76	6.39	7/8 X 7/16 P&W	5.00

** ALSO AVAILABLE WITH 1.750/1.749 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY.

*** ALSO AVAILABLE WITH 2.000/1.999 (U) DIAMETER OUTPUT SHAFT. CONSULT FACTORY.

Fan Detail for Models GW601 Through GW1001

MODEL	A	FA	FB	FC
GW601	N/A	11.13	9.50	4.00
GW701	N/A	11.37	9.65	4.83
GW801	N/A	12.52	9.65	4.83
GW1001	N/A	14.69	11.28	5.62

ALL GW MODELS ARE FAN COOLED.

