Hub City™ Worm Gear Drives

Single Reduction

PowerCubeX® Worm Speed Reducer Catalog Ratings

Series 130

				CONVENTIONAL OIL					PAO SYNTHETIC OIL			PAG SYNTHETIC OIL		
SERIES	INPUT RPM	RATIO	OUTPUT RPM	MECH. INPUT HP	EFF. %	MECH. OUTPUT TORQUE	THERMAL INPUT HP	THERMAL OUTPUT TORQUE	INPUT HP	EFF. %	OUTPUT TORQUE	INPUT HP	EFF. %	OUTPUT TORQUE
130	2500	5	500	1.65	85.9	178	THERMAL EQUALS MECHANICAL		1.65	91.1	189	1.65	93.9	195
		7.5	333	1.30	84.9	208			1.30	90.0	221	1.30	92.8	227
		10	250	1.05	82.8	218			1.05	87.8	231	1.05	90.5	238
		15	167	0.78	79.4	234			0.78	84.2	248	0.78	86.8	256
		20	125	0.62	76.9	240			0.62	81.5	254	0.62	84.0	262
		25	100	0.52	73.2	241			0.52	77.6	255	0.52	80.1	263
		30	83.3	0.45	70.5	241			0.45	74.7	256	0.45	77.0	263
		40	62.5	0.35	66.5	239			0.36	70.5	253	0.36	72.7	261
		50	50.0	0.29	63.4	231			0.29	67.3	245	0.29	69.3	253
		60	41.7	0.245	59.4	220			0.245	63.0	233	0.245	64.9	240
		80	31.3	0.163	55.0	181			0.163	58.3	192	0.163	60.1	198
		100	25.0	0.111	50.6	142			0.111	53.6	150	0.111	55.2	155
	1750	5	350	1.38	85.0	211	THERMAL EQUALS MECHANICAL		1.38	90.1	224	1.38	92.9	231
		7.5	233	1.06	83.9	240			1.06	88.9	254	1.06	91.7	262
		10	175	0.86	81.4	253			0.86	86.3	269	0.86	89.0	277
		15	117	0.65	77.6	271			0.65	82.3	287	0.65	84.8	296
		20	87.5	0.51	74.8	275			0.51	79.3	291	0.51	81.7	300
		25	70.0	0.44	70.8	278			0.44	75.0	295	0.44	77.3	304
		30	58.3	0.38	67.8	279			0.38	71.8	295	0.38	74.1	304
		40	43.8	0.30	63.5	274			0.30	67.3	290	0.30	69.4	299
		50	35.0	0.242	60.3	262			0.242	63.9	278	0.242	65.9	287
		60	29.2	0.207	56.0	250			0.207	59.4	265	0.207	61.2	274
		80	21.9	0.137	51.5	203			0.137	54.6	215	0.137	56.3	222
		100	17.5	0.094	47.1	159			0.094	49.9	168	0.094	51.4	174
	1170	5	234	1.06	83.9	240	THERMAL EQUALS MECHANICAL		1.06	88.9	255	1.06	91.7	263
		7.5	156	0.80	82.6	268			0.80	87.6	284	0.80	90.3	293
		10	117	0.66	79.8	285			0.66	84.6	302	0.66	87.2	311
		15	78.0	0.50	75.5	304			0.50	80.0	322	0.50	82.5	332
		20	58.5	0.39	72.4	306			0.39	76.8	324	0.39	79.1	334
		25	46.8	0.34	68.0	311			0.34	72.1	330	0.34	74.3	340
		30	39.0	0.30	64.7	311			0.30	68.6	330	0.30	70.7	340
		40	29.3	0.234	60.3	304			0.234	63.9	322	0.234	65.9	332
		50	23.4	0.189	56.9	289			0.189	60.4	307	0.189	62.2	316
		60	19.5	0.163	52.5	277			0.163	55.6	293	0.163	57.3	302
		80	14.6	0.108	48.0	222			0.108	50.9	236	0.108	52.4	243
		100	11.7	0.074	43.5	173			0.074	46.1	184	0.074	47.6	190
	100	5	20.0	0.125	77.7	305	THERMAL EQUALS MECHANICAL		0.125	82.3	324	0.125	84.9	334
		7.5	13.3	0.091	76.1	329			0.091	80.6	349	0.091	83.1	359
		10	10.0	0.078	71.5	353			0.078	75.8	374	0.078	78.1	385
		15	6.7	0.061	65.2	374			0.061	69.2	397	0.061	71.3	409
		20	5.0	0.048	61.3	371			0.048	65.0	394	0.048	67.0	406
		25	4.0	0.044	55.3	383			0.044	58.6	406	0.044	60.4	418
		30	3.3	0.039	51.3	383			0.039	54.4	406	0.039	56.1	418
		40	2.5	0.031	46.5	369			0.031	49.3	391	0.031	50.8	403
		50	2.0	0.025	43.3	346			0.025	45.9	367	0.025	47.3	379
		60	1.7	0.023	38.6	333			0.023	40.9	353	0.023	42.2	363
		80	1.3	0.015	34.7	263			0.015	36.8	279	0.015	37.9	287
		100	1.0	0.011	30.8	204			0.011	32.6	216	0.011	33.6	223

ADDITIONAL RATINGS FOR OTHER INPUT SPEEDS ARE AVAILABLE AT WWW.REGALBELOIT.COM

OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 131 AND 134 225 LBS. AT CENTER POINT OF SHAFT EXTENSION.
‡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).

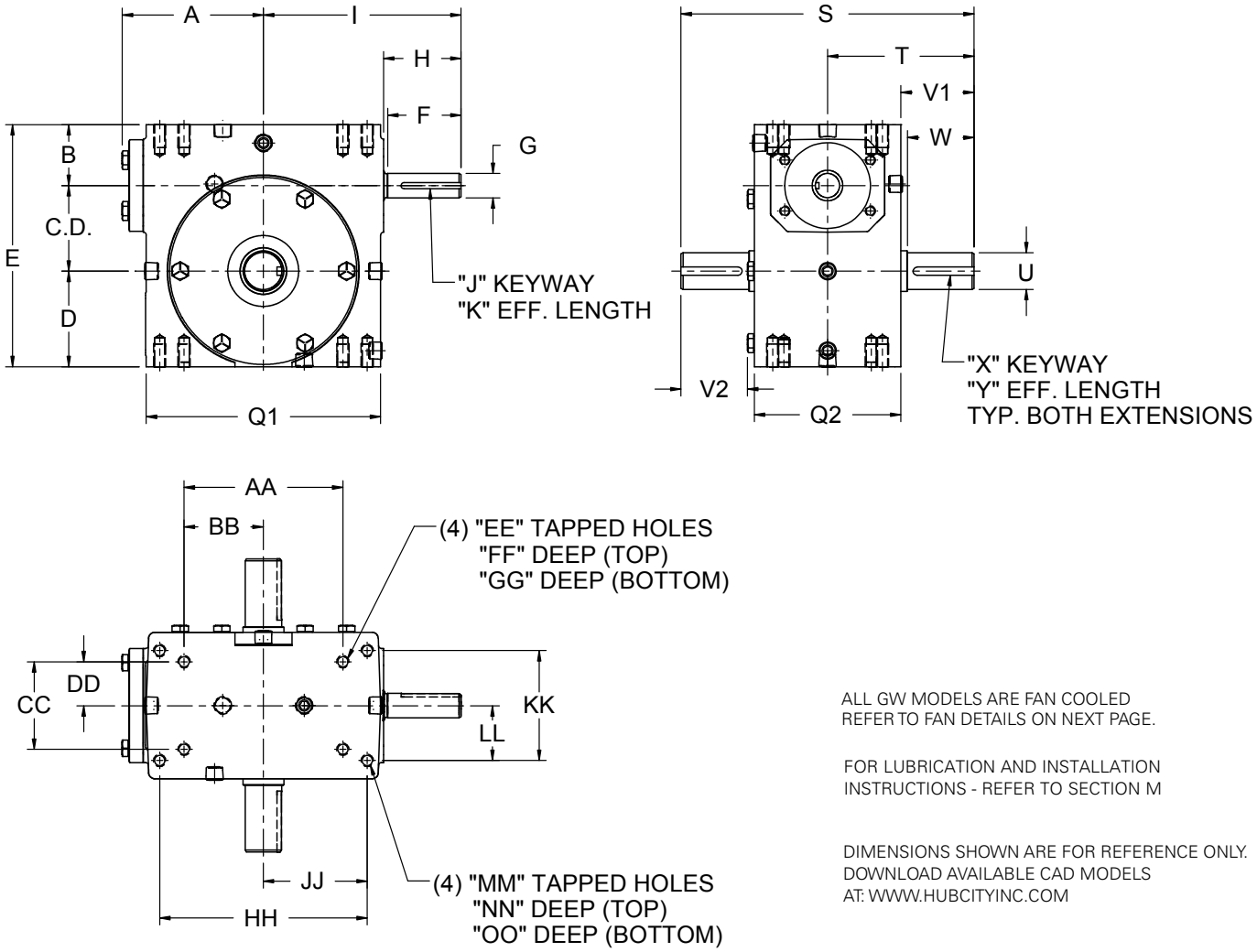
CALL: (605) 225-0360 • FAX: (605) 225-0567

Hub City™ Worm Gear Drives

Single Reduction

Models

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

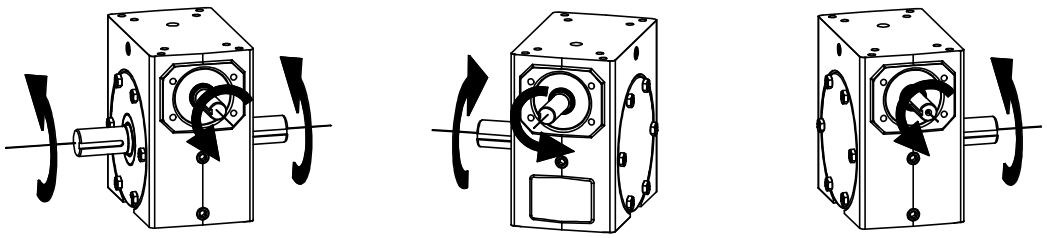


ALL GW MODELS ARE FAN COOLED
REFER TO FAN DETAILS ON NEXT PAGE.

FOR LUBRICATION AND INSTALLATION
INSTRUCTIONS - REFER TO SECTION M

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

Standard Styles Available



STYLE "A" STYLE "B" STYLE "C"

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS.

INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

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

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.