

Hub City™ Worm Gear Drives

Single Reduction

PowerCubeX® Worm Speed Reducer Catalog Ratings

Series W420

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
W420	2500	5	500	22.02	88.3	2452	12.21	1360	22.02	93.6	2599	22.02	96.5	2679
		7.5	333	17.22	87.6	2851	11.33	1876	17.22	92.8	3022	17.22	95.7	3116
		10	250	16.10	87.0	3529	10.90	2389	16.10	92.2	3741	16.10	95.0	3857
		15	167	12.65	85.1	4068	7.90	2540	12.65	90.2	4312	12.65	93.0	4446
		20	125	10.73	83.6	4522	6.55	2759	10.73	88.6	4793	10.73	91.3	4942
		25	100	9.08	82.2	4704	4.85	2514	9.08	87.1	4987	9.08	89.8	5141
		30	83.3	7.92	79.9	4786	4.42	2672	7.92	84.7	5073	7.92	87.3	5230
		40	62.5	6.31	77.2	4914	3.74	2913	6.31	81.8	5210	6.31	84.3	5371
		50	50.0	5.06	74.9	4771	2.34	2209	5.06	79.4	5057	5.06	81.8	5214
		60	41.7	4.11	72.7	4523	2.89	3183	4.11	77.0	4795	4.11	79.4	4943
		80	31.3	2.65	69.5	3723	2.27	3183	2.65	73.7	3947	2.65	76.0	4069
		100	25.0	1.75	66.2	2923	1.51	2517	1.75	70.2	3099	1.75	72.3	3194
	1750	5	350	19.01	87.8	3005	11.99	1895	19.01	93.1	3186	19.01	95.9	3285
		7.5	233	15.00	86.9	3495	11.11	2608	15.00	92.1	3705	15.00	95.0	3819
		10	175	13.94	86.2	4326	11.00	3332	13.94	91.4	4586	13.94	94.2	4728
		15	117	10.99	84.0	4987	7.65	3469	10.99	89.0	5286	10.99	91.8	5450
		20	87.5	9.36	82.2	5543	6.36	3765	9.36	87.2	5876	9.36	89.9	6058
		25	70.0	7.94	80.7	5767	4.74	3443	7.94	85.5	6113	7.94	88.2	6302
		30	58.3	6.96	78.0	5866	4.26	3588	6.96	82.7	6219	6.96	85.3	6411
		40	43.8	5.58	75.0	6024	3.61	3895	5.58	79.5	6387	5.58	82.0	6584
		50	35.0	4.49	72.4	5848	2.26	2937	4.49	76.8	6200	4.49	79.1	6391
		60	29.2	3.55	70.0	5371	2.78	4211	3.55	74.2	5694	3.55	76.5	5870
		80	21.9	2.35	66.5	4500	1.98	3792	2.35	70.5	4771	2.35	72.7	4918
		100	17.5	1.56	62.9	3546	1.34	3050	1.56	66.7	3759	1.56	68.8	3875
	1170	5	234	15.76	87.0	3694	10.07	2360	15.76	92.3	3917	15.76	95.1	4038
		7.5	156	12.42	86.0	4313	9.33	3240	12.42	91.1	4573	12.42	94.0	4714
		10	117	11.79	85.1	5405	9.02	4135	11.79	90.2	5730	11.79	93.0	5907
		15	78.0	9.34	82.5	6229	6.71	4475	9.34	87.5	6603	9.34	90.2	6808
		20	58.5	7.99	80.5	6929	5.74	4980	7.99	85.3	7346	7.99	88.0	7573
		25	46.8	6.79	78.7	7199	4.48	4747	6.79	83.4	7632	6.79	86.0	7868
		30	39.0	6.00	75.7	7332	4.02	4906	6.00	80.2	7773	6.00	82.7	8014
		40	29.3	5.00	72.2	7530	3.42	5322	5.00	76.6	7983	5.00	78.9	8229
		50	23.4	3.91	69.3	7298	2.34	4374	3.91	73.5	7736	3.91	75.8	7976
		60	19.5	3.21	66.6	6904	2.81	6032	3.21	70.7	7319	3.21	72.8	7546
		80	14.6	2.07	62.9	5618	1.78	4837	2.07	66.7	5955	2.07	68.8	6140
		100	11.7	1.38	59.1	4384	1.19	3774	1.38	62.6	4648	1.38	64.5	4792
	100	5	20.0	2.80	81.0	7146	THERMAL EQUALS MECHANICAL		2.80	85.8	7575	2.80	88.5	7810
		7.5	13.3	2.20	78.7	8185			2.20	83.5	8677	2.20	86.1	8946
		10	10.0	1.91	77.5	9344			1.91	82.1	9906	1.91	84.6	10212
		15	6.7	1.58	72.4	10800			1.58	76.8	11449	1.58	79.1	11803
		20	5.0	1.34	69.0	11608			1.34	73.1	12306	1.34	75.4	12687
		25	4.0	1.12	66.1	11716			1.12	70.1	12420	1.12	72.3	12804
		30	3.3	1.09	60.8	12545			1.09	64.4	13299	1.09	66.4	13710
		40	2.5	0.89	56.0	12512			0.89	59.3	13264	0.89	61.2	13674
		50	2.0	0.72	52.3	11808			0.72	55.4	12518	0.72	57.1	12905
		60	1.7	0.59	49.0	10972			0.59	52.0	11632	0.59	53.6	11992
		80	1.3	2.00	45.3	8458			0.37	48.0	8967	0.37	49.5	9244
		100	1.0	0.25	41.2	6487			0.25	43.6	6877	0.25	45.0	7090

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

OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 421 AND 424 1,400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 422 AND 425 NOT APPLICABLE. THRUST± UP OR DOWN 1,450 LBS.

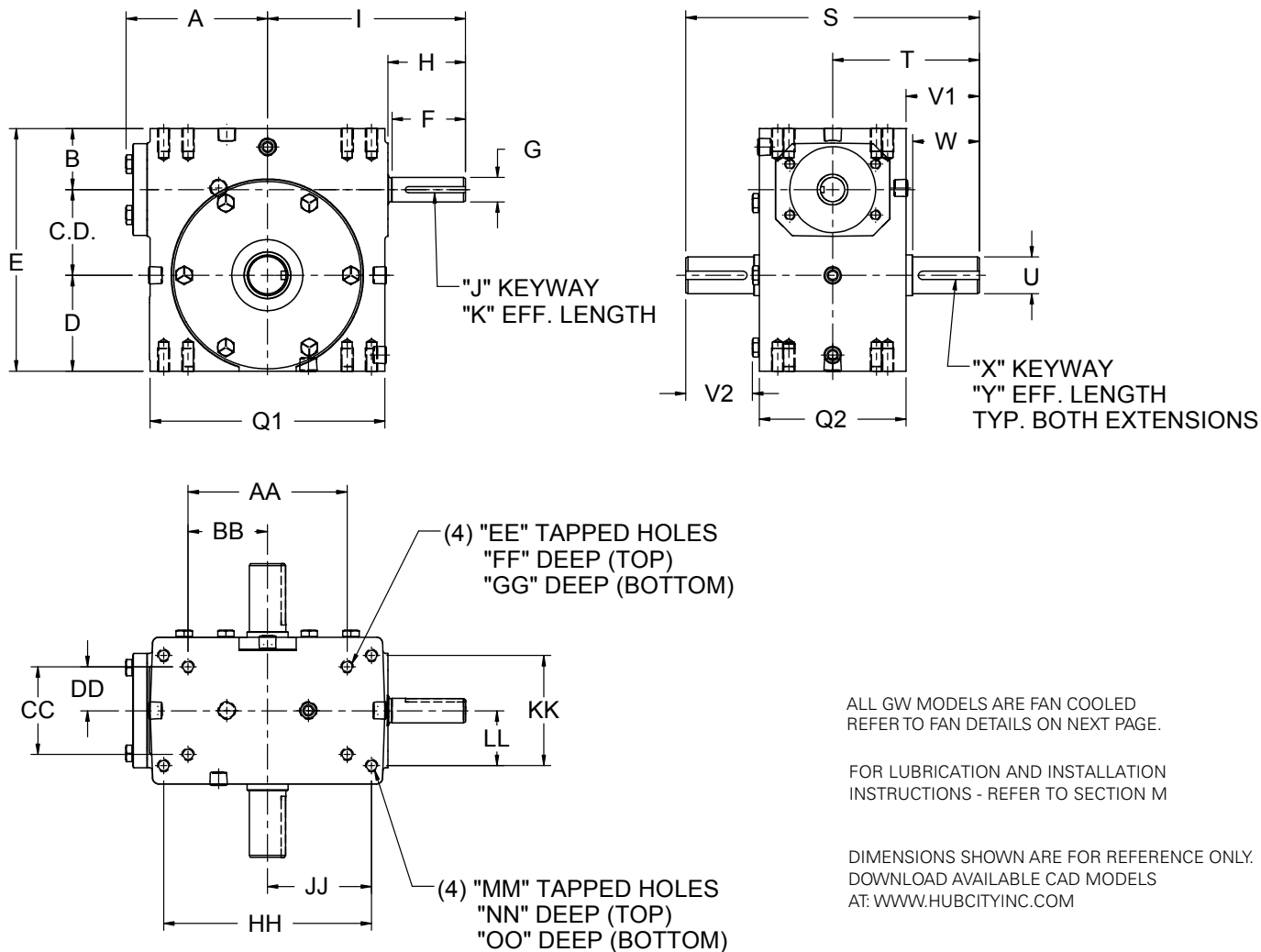
*OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

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

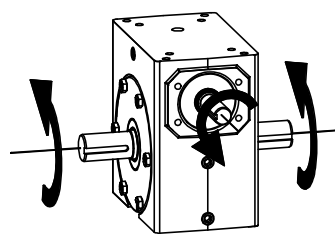
Hub City™ Worm Gear Drives

Single Reduction Models

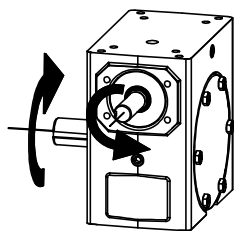
131, 151, 181, 211, 241, 261, 301, 321, 381, 421, 451, 521, GW601, GW701, GW801, GW1001



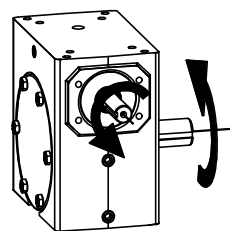
Standard Styles Available



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.

