

Hub City™ Worm Gear Drives

Single Reduction

GW Series Catalog Ratings

Series GW70 & GW80

SERIES	INPUT RPM	RATIO	OUTPUT RPM	MECH. INPUT HP	CONVENTIONAL OIL		PAO SYNTHETIC OIL		PAG SYNTHETIC OIL	
					EFF. %	MECH. OUTPUT TORQUE	EFF. %	MECH. OUTPUT TORQUE	EFF. %	MECH. OUTPUT TORQUE
GW70	1750	5	341.5	51.2	96.0	9062	96.9	9153	97.9	9243
		7.5	236.5	41.5	95.5	10572	97.0	10731	97.9	10836
		10	179.5	35.7	94.8	11893	97.2	12190	98.1	12309
		15	119.3	26.0	93.5	12827	95.9	13148	97.3	13340
		20	85.4	19.9	91.4	13431	93.7	13767	95.5	14035
		25	71.4	16.9	90.3	13462	92.5	13799	94.3	14068
		30	59.3	14.1	89.1	13356	91.3	13690	93.1	13957
		40	43.8	10.9	85.5	13399	87.7	13734	89.4	14002
		50	35.0	8.74	82.7	13011	84.8	13336	86.4	13596
		60	29.2	7.00	80.8	12220	82.8	12526	84.4	12770
	1170	70	25.0	5.74	78.1	11300	80.1	11583	81.6	11809
		5	228.3	43.4	95.3	11404	96.3	11518	97.2	11632
		7.5	158.1	35.2	94.7	13304	96.1	13504	97.1	13637
		10	120.0	30.4	93.9	14967	96.2	15341	97.2	15491
		15	79.8	22.1	92.3	16143	94.7	16547	96.0	16789
		20	57.1	17.0	89.8	16903	92.1	17326	93.9	17664
		25	47.8	14.1	88.5	16417	90.7	16827	92.5	17156
		30	39.7	11.9	87.2	16491	89.4	16903	91.1	17233
		40	29.3	9.18	83.0	16416	85.1	16826	86.8	17155
		50	23.4	7.43	79.9	15966	81.9	16365	83.4	16684
	100	60	19.5	6.03	77.7	15143	79.6	15522	81.2	15824
		70	16.7	4.96	74.7	13979	76.6	14328	78.1	14608
		5	19.5	9.25	88.4	26416	89.3	26680	90.2	26944
		7.5	13.5	6.97	87.4	28388	88.7	28814	89.6	29098
		10	10.3	6.15	85.4	32282	87.6	33089	88.4	33412
		15	6.8	4.16	82.7	31744	84.7	32538	86.0	33014
		20	4.9	3.35	77.6	33520	79.5	34358	81.1	35028
		25	4.1	2.82	75.3	32790	77.2	33610	78.7	34266
		30	3.4	2.30	73.2	31233	75.1	32014	76.5	32638
		40	2.5	1.94	66.0	32194	67.7	32999	69.0	33643
GW80	1750	50	2.0	1.62	61.2	31109	62.7	31887	63.9	32509
		60	1.7	1.27	58.4	28131	59.9	28834	61.1	29397
		70	1.4	1.09	54.4	26222	55.7	26878	56.8	27402
		5	341.5	66.9	96.2	11866	97.1	11985	98.1	12103
		7.5	236.5	54.4	95.7	13867	97.2	14075	98.1	14214
		10	179.5	43.3	95.0	14447	97.4	14808	98.3	14953
		15	119.3	33.8	93.9	16766	96.2	17185	97.6	17437
		20	85.4	25.9	91.8	17575	94.1	18014	96.0	18366
		25	71.4	21.9	90.9	17578	93.1	18017	94.9	18369
		30	59.3	17.9	90.2	17166	92.4	17595	94.2	17938
	1170	40	43.8	14.1	86.4	17507	88.5	17945	90.2	18295
		50	35.0	11.3	83.6	17028	85.7	17454	87.4	17794
		60	29.2	9.05	81.8	15982	83.8	16382	85.5	16701
		70	25.0	7.37	79.4	14743	81.4	15112	82.9	15406
		5	228.3	56.6	95.6	14932	96.5	15081	97.5	15231
		7.5	158.1	46.1	95.0	17451	96.4	17713	97.4	17887
		10	120.0	36.8	94.2	18181	96.5	18636	97.5	18817
		15	79.8	28.8	92.8	21099	95.1	21626	96.5	21943
		20	57.1	22.2	90.4	22118	92.7	22671	94.5	23113
		25	47.8	18.8	89.2	22122	91.5	22675	93.3	23117
	100	30	39.7	15.0	88.4	21058	90.6	21584	92.4	22006
		40	29.3	12.2	84.1	22032	86.2	22583	87.8	23023
		50	23.4	9.84	80.9	21429	82.9	21965	84.5	22393
		60	19.5	7.63	78.8	19430	80.8	19916	82.4	20304
		70	16.7	6.24	76.2	17921	78.1	18369	79.6	18727

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

OVERHUNG LOAD AND THRUST LOAD INFORMATION

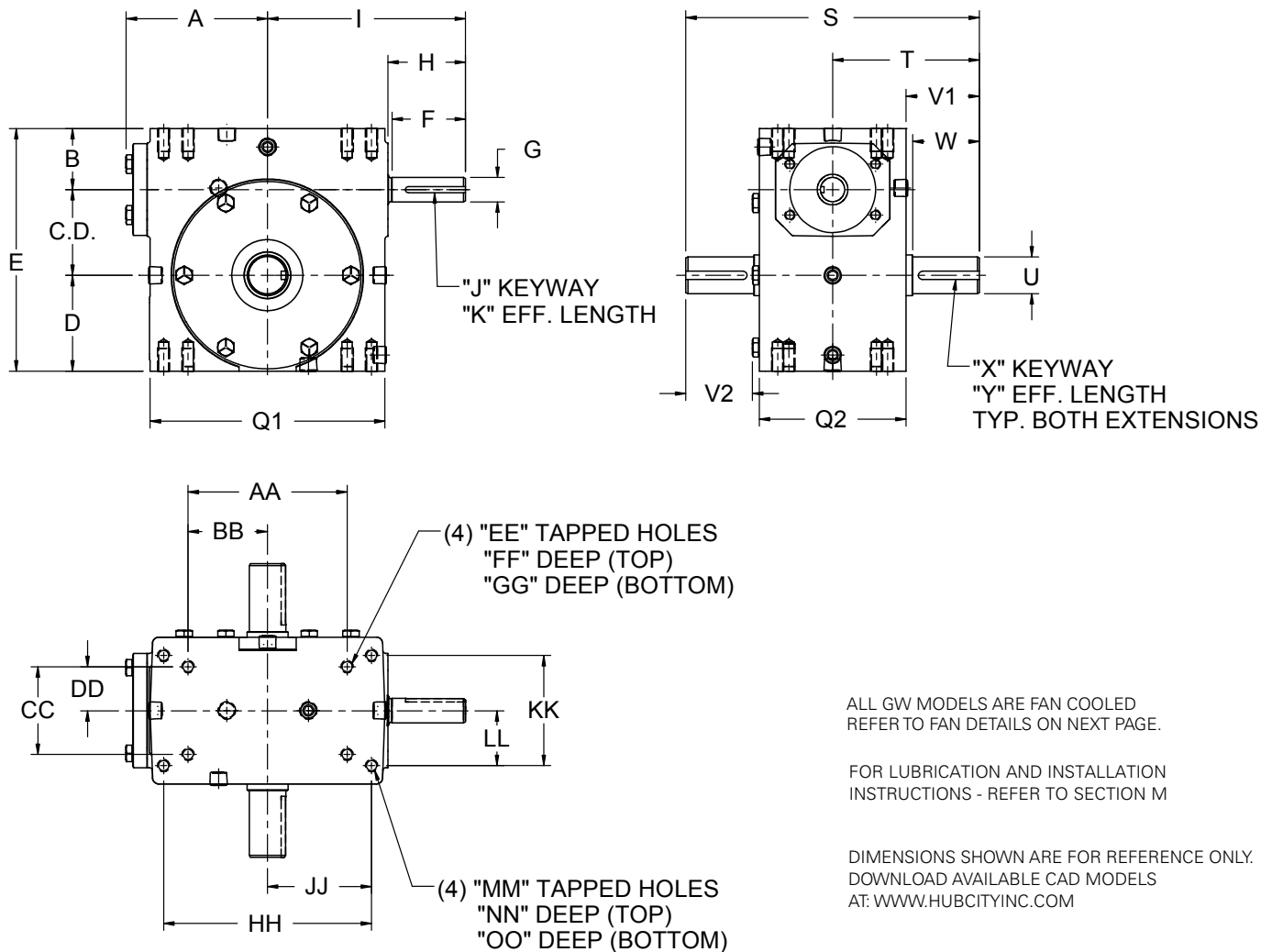
NOTE: ALL TORQUE VALUES LISTED IN INCH-POUNDS, ALL OVERHUNG LOAD VALUES LISTED IN POUNDS. THE POINT OF APPLICATION OF THE OVERHUNG LOAD IS CONSIDERED TO BE ONE SHAFT DIAMETER MEASURED OUTWARD FROM THE GEAR CASE HOUSING. AT SPEEDS ABOVE 1750 RPM, UNITS MAY BECOME THERMALLY LIMITED. FOR EXTENDED OPERATION, LIMIT INPUT HP TO 1750 RPM CATALOG RATING.

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

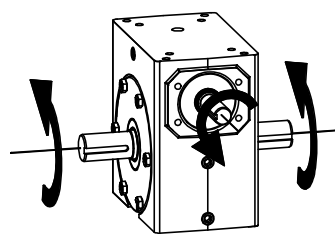
Hub City™ Worm Gear Drives

Single Reduction Models

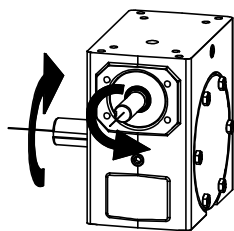
131, 151, 181, 211, 241, 261, 301, 321, 381, 421, 451, 521, GW601, GW701, GW801, GW1001



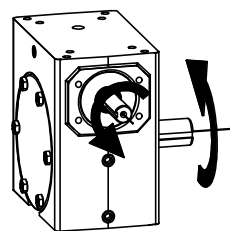
Standard Styles Available



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.

