

Hub City™ Worm Gear Drives

Double Reduction

PowerCubeX® Worm Speed Reducer Catalog Ratings

3800 Series • 210 Primary • 380 Secondary

SERIES	INPUT RPM	UNIT RATIO	OUTPUT RPM	PRIM. RATIO	SEC. RATIO	ALL	CONVENTIONAL OIL		PAO SYNTHETIC OIL		PAG SYNTHETIC OIL	
						INPUT HP	EFF. %	OUTPUT TORQUE	EFF. %	OUTPUT TORQUE	EFF. %	OUTPUT TORQUE
3800	1750	50	35.0	5	10	3.89	69.0	4836	77.6	5434	82.5	5777
		75	23.3	5	15	3.89	65.0	6828	73.0	7672	77.6	8157
		100	17.5	5	20	3.29	65.9	7805	74.1	8770	78.8	9324
		150	11.7	10	15	2.50	60.2	8131	67.6	9136	71.9	9713
		200	8.75	10	20	1.90	57.6	7883	64.7	8857	68.8	9417
		250	7.00	5	50	1.42	47.8	5866	53.7	6591	57.1	7008
		300	5.83	20	15	1.47	54.2	8607	60.9	9671	64.7	10283
		400	4.38	20	20	1.34	51.5	7883	57.9	8857	61.5	9417
		500	3.50	25	20	1.06	49.1	7883	55.2	8857	58.6	9417
		600	2.92	20	30	0.66	43.1	9913	48.5	11138	51.5	11843
		750	2.33	25	30	0.90	40.7	9913	45.8	11138	48.7	11843
		900	1.94	30	30	1.06	38.1	9913	42.9	11138	45.6	11843
		1000	1.75	50	20	0.66	40.6	7883	45.6	8857	48.5	9417
		1200	1.46	40	30	0.90	35.0	9913	39.3	11138	41.8	11843
		1500	1.17	50	30	0.80	33.0	9913	37.1	11138	39.4	11843
		1800	0.97	60	30	0.54	29.6	9913	33.3	11138	35.4	11843
		2000	0.88	50	40	0.59	30.2	7998	34.0	8987	36.1	9555
		2400	0.73	60	40	0.66	27.0	7998	30.4	8987	32.3	9555
3000	0.58	60	50	0.230	24.5	6106	27.6	6861	29.3	7295		
3600	0.49	60	60	0.169	22.4	4921	25.2	5529	26.8	5879		

4200 Series • GW210 Primary • W420 Secondary

SERIES	INPUT RPM	UNIT RATIO	OUTPUT RPM	PRIM. RATIO	SEC. RATIO	ALL	CONVENTIONAL OIL		PAO SYNTHETIC OIL		PAG SYNTHETIC OIL	
						INPUT HP	EFF. %	OUTPUT TORQUE	EFF. %	OUTPUT TORQUE	EFF. %	OUTPUT TORQUE
4200	1750	50	35.0	5	10	3.89	70.2	4915	78.8	5522	83.8	5871
		75	23.3	5	15	3.89	66.8	7018	75.1	7886	79.8	8385
		100	17.5	5	20	3.89	64.3	9007	72.2	10121	76.8	10760
		150	11.7	10	15	2.50	62.7	8472	70.5	9519	74.9	10121
		200	8.75	10	20	2.50	60.0	10811	67.5	12147	71.7	12915
		250	7.00	5	50	2.27	51.7	10553	58.1	11857	61.8	12607
		300	5.83	20	15	2.18	56.9	9034	63.9	10150	68.0	10792
		400	4.38	20	20	1.19	54.1	11608	60.8	13043	64.6	13867
		500	3.50	25	20	1.47	52.3	11214	58.8	12600	62.5	13397
		600	2.92	20	30	1.88	47.6	12545	53.4	14096	56.8	14987
		750	2.33	25	30	1.01	45.8	12545	51.4	14096	54.7	14987
		900	1.94	30	30	0.66	43.4	12545	48.8	14096	51.9	14987
		1000	1.75	50	20	1.19	44.1	10494	49.6	11791	52.7	12537
		1200	1.46	40	30	1.22	40.2	12545	45.2	14096	48.0	14987
		1500	1.17	50	30	0.66	38.2	12545	42.9	14096	45.6	14987
		1800	0.97	60	30	1.01	35.1	12545	39.5	14096	42.0	14987
		2000	0.88	50	40	0.89	34.9	12512	39.2	14058	41.6	14947
		2400	0.73	60	40	0.66	32.1	12512	36.0	14058	38.3	14947
3000	0.58	60	50	0.83	29.7	11808	33.4	13267	35.5	14106		
3600	0.49	60	60	0.72	27.7	10972	31.2	12328	33.1	13108		

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

OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 3801 AND 3804 1,600 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 3802 AND 3805 NOT APPLICABLE.

MODELS 3807 AND 3808 — OHL± 1,970 LBS., TO± THRUST OUT 1,950 LBS. AND TI± THRUST IN 1,500 LBS. THRUST± UP OR DOWN 1,500 LBS.

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 4201 AND 4204 1,400 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 4202 AND 4205 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

Double Reduction Models

1304, 1504, 1804, 2104, 2404, 2604, 3004, 3204, 3804, 4204, 4504, 5204, GW6004, GW7004, GW8004, GW10004

MODEL	PRIMARY	SECONDARY	C.D.	A	B	D	Q1	Q2	E	T1	C.D.1	A1	B1	D1	S	T
1304	134	134-56C	1.334	2.61	1.186	1.562	4.12	3.12	4.87	1.56	1.334	2.61	1.186	1.562	6.50	3.25
1504	GW134	154	1.541	3.14	1.928	1.906	4.88	3.44	5.85	1.84	1.334	2.61	1.610	1.720	8.62	4.31
1804	134	184-56C	1.751	3.23	1.374	1.875	5.16	3.44	5.50	1.56	1.334	2.61	1.186	1.562	7.00	3.50
2104	134	214-56C	2.064	3.61	1.500	2.437	5.88	4.12	5.87	1.56	1.334	2.61	1.186	1.562	8.50	4.25
2404	GW134	244	2.376	3.77	2.061	2.500	6.12	4.06	6.44	1.84	1.334	2.61	1.610	1.720	10.28	5.14
2604	134	264-56C	2.626	4.33	1.874	2.938	7.20	4.50	6.58	1.56	1.334	2.61	1.186	1.562	9.00	4.50
3004	GW184	304	3.001	4.84	2.624	3.250	8.12	5.25	7.86	1.78	1.750	3.24	1.940	2.060	13.50	6.75
3204	214	324-143TC	3.251	5.28	2.124	3.250	8.62	5.20	8.09	2.06	2.064	3.61	1.500	2.437	10.88	5.44
3804	214	384-143TC	3.751	4.90	2.374	3.937	9.60	5.62	8.61	2.06	2.064	3.61	1.500	2.437	13.38	6.69
4204	GW214	424	4.251	6.10	2.686	4.438	10.25	6.13	9.18	1.91	2.060	3.61	2.020	2.280	16.24	8.12
4504	324	454-213TC	4.501	5.23	2.499	4.625	9.25	4.63	9.14	2.60	3.251	5.28	2.124	3.250	14.50	7.25
5204	324	524-213TC	5.168	5.98	2.624	5.375	10.75	5.06	9.89	2.60	3.251	5.28	2.124	3.250	15.62	7.81
GW6004	GW324	GW601	6.000	N/A	4.000	6.500	14.25	8.13	13.30	2.88	3.250	5.02	2.630	3.500	20.00	10.00
GW7004	GW324	GW701	7.000	N/A	4.320	7.590	14.88	7.63	12.96	2.88	3.250	5.02	2.630	3.500	23.52	11.76
GW8004	GW424	GW801	8.000	N/A	4.100	8.860	17.00	8.63	13.94	3.07	4.250	6.10	2.690	4.440	24.50	12.25
GW10004	GW454	GW1001	10.000	N/A	5.110	10.360	20.88	9.53	17.05	3.60	5.250	7.50	3.630	5.120	29.50	14.75

MODEL	U	V1	V2	W	X	Y
1304	.625/.624	1.69	1.53	1.60	3/16 X 3/32	1.38
1504	.750/.7485	2.11	1.90	2.08	3/16 X 3/32	1.51
1804	.750/.749	1.78	1.57	1.54	3/16 X 3/32	1.41
2104	.875/.874	2.19	1.98	1.95	3/16 X 3/32	1.83
2404	1.125/1.1235	2.66	2.44	2.62	1/4 X 1/8	1.76
2604	1.250/1.249	2.25	2.04	N/A	1/4 X 1/8	1.85
3004	1.250/1.2485	3.60	3.36	3.57	1/4 X 1/8	2.26
3204	1.375/1.374	2.84	2.62	2.75	5/16 X 5/32	2.31
3804	1.500/1.499	3.88	N/A	N/A	3/8 X 3/16	3.16

MODEL	U	V1	V2	W	X	Y
4204	1.875/1.8735	4.50	4.21	4.47	1/2 X 1/4	3.06
4504**	1.625/1.624	4.18	N/A	3.90	3/8 X 3/16	3.28
5204***	1.750/1.749	4.47	N/A	4.17	3/8 X 3/16	3.50
GW6004	2.500	4.65	4.65	N/A	5/8 X 5/16 P&W	4.00
GW7004	2.750	5.65	5.65	N/A	5/8 X 5/16 P&W	4.00
GW8004	3.000	5.98	5.98	5.26	3/4 X 3/8 P&W	4.50
GW10004	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.

MODEL	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	OO	WT. LBS.
1304	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	22
1504	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	26
1804	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	26
2104	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	36
2404	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	52
2604	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	48
3004	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	81
3204	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	85
3804	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	115
4204	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	135
4504	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	176
5204	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	202
GW6004	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	406
GW7004	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	482
GW8004	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	728
GW10004	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	1151

MODEL	G	I	I2	N	N2
1304	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
1504	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
1804	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
2104	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
2404	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
2604	48CZ	3.46	N/A	4.36	3.87
	56C			6.63	6.50
3004	48CZ	4.09	N/A	4.36	3.87
	56C			6.63	6.50
	143TC			6.63	6.50

MODEL	G	I	I2	N	N2
3204	48CZ	4.46	N/A	4.36	3.87
	56C			6.63	6.50
3804	143TC				
	48CZ	4.46	N/A	4.36	3.87
56C	6.63			6.50	
4204	143TC				
	48CZ	4.46	N/A	4.36	3.87
56C	6.63			6.50	
4504	143TC				
	56C	6.14	N/A	6.50	6.50
143TC					
5204	182TC	N/A	6.34	9.00	9.00
	213TC			6.90	
5204	56C	6.14	N/A	6.50	6.50
	143TC				
5204	182TC	N/A	6.34	9.00	9.00
	213TC			6.90	

MODEL	G	I	I2	N	N2
GW6004	56C	6.14	N/A	6.50	6.50
	143TC				
	182TC	N/A	6.34	9.00	9.00
213TC	6.90				
GW7004	56C	6.14	N/A	6.50	6.50
	143TC				
	182TC	N/A	6.34	9.00	9.00
213TC	6.90				
GW8004	56C	6.45	N/A	6.50	6.50
	143TC				
	182TC	N/A	7.21	9.00	9.00
	213TC				
254TC					
GW10004	56C	7.85	N/A	6.50	6.50
	143TC				
	182TC	N/A	8.61	9.00	9.00
	213TC				
	254TC	N/A	9.17		