

Hub City™ Worm Gear Drives

Single Reduction

PowerCubeX® Worm Speed Reducer Catalog Ratings

Series 300

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
300	2500	5	500	9.20	87.8	1018	7.01	776	9.20	93.1	1080	9.20	96.0	1113
		7.5	333	7.49	86.8	1229	6.62	1087	7.49	92.0	1303	7.49	94.9	1343
		10	250	6.75	86.0	1463	4.33	939	6.75	91.1	1551	6.75	93.9	1599
		15	167	5.36	84.0	1705	3.39	1078	5.36	89.1	1807	5.36	91.8	1863
		20	125	4.52	82.1	1872	2.76	1144	4.52	87.1	1985	4.52	89.8	2046
		25	100	3.87	80.4	1959	2.35	1191	3.87	85.2	2076	3.87	87.9	2141
		30	83.3	3.43	78.6	2040	1.93	1145	3.43	83.3	2162	3.43	85.9	2229
		40	62.5	2.68	74.8	2020	1.58	1194	2.68	79.3	2141	2.68	81.8	2208
		50	50.0	2.16	72.0	1962	1.39	1260	2.16	76.3	2080	2.16	78.6	2144
		60	41.7	1.78	69.0	1863	1.22	1278	1.78	73.2	1975	1.78	75.4	2036
	1750	80	31.3	1.14	65.6	1501	1.10	1449	1.14	69.5	1591	1.14	71.7	1641
		100	25.0	0.76	61.8	1188	0.74	1152	0.76	65.5	1259	0.76	67.6	1298
		5	350	7.96	87.1	1249	6.79	1065	7.96	92.4	1324	7.96	95.2	1365
		7.5	233	6.33	86.0	1471	6.33	1470	6.33	91.2	1560	6.33	94.0	1608
		10	175	5.79	85.0	1774	4.16	1274	5.79	90.1	1880	5.79	92.9	1939
		15	117	4.64	82.7	2074	3.23	1445	4.64	87.7	2199	4.64	90.4	2267
		20	87.5	3.92	80.6	2277	2.64	1533	3.92	85.4	2414	3.92	88.1	2488
		25	70.0	3.37	78.6	2385	2.26	1596	3.37	83.3	2528	3.37	85.9	2606
		30	58.3	3.00	76.5	2484	1.84	1521	3.00	81.1	2633	3.00	83.7	2714
		40	43.8	2.36	72.3	2458	1.52	1581	2.36	76.7	2606	2.36	79.0	2686
	1170	50	35.0	1.92	69.2	2389	1.32	1642	1.92	73.3	2533	1.92	75.6	2611
		60	29.2	1.59	66.0	2269	1.17	1664	1.59	70.0	2405	1.59	72.1	2480
		80	21.9	1.04	62.3	1870	THERMAL EQUALS MECHANICAL		1.04	66.0	1982	1.04	68.1	2044
		100	17.5	0.70	58.3	1466			0.70	61.8	1554	0.70	63.7	1603
		5	234	6.70	86.3	1556	6.04	1403	6.70	91.5	1650	6.70	94.3	1701
		7.5	156	5.45	84.9	1870	5.39	1849	5.45	90.0	1982	5.45	92.8	2043
		10	117	4.87	83.7	2197	3.92	1767	4.87	88.8	2329	4.87	91.5	2401
		15	78.0	3.86	81.1	2532	3.11	2042	3.86	86.0	2684	3.86	88.7	2767
		20	58.5	3.29	78.6	2787	2.48	2097	3.29	83.3	2955	3.29	85.9	3046
		25	46.8	2.82	76.4	2898	2.18	2239	2.82	81.0	3072	2.82	83.5	3167
		30	39.0	2.52	74.0	3015	1.79	2145	2.52	78.5	3197	2.52	80.9	3295
	100	40	29.3	2.01	69.3	3000	1.52	2266	2.01	73.5	3181	2.01	75.8	3279
		50	23.4	1.63	65.9	2897	1.35	2405	1.63	69.8	3071	1.63	72.0	3166
		60	19.5	1.36	62.4	2751	1.22	2470	1.36	66.2	2916	1.36	68.2	3006
		80	14.6	0.88	58.5	2216	THERMAL EQUALS MECHANICAL		0.88	62.0	2350	0.88	63.9	2422
		100	11.7	0.59	54.4	1726			0.59	57.6	1830	0.59	59.4	1886
		5	20.0	0.99	80.2	2493	THERMAL EQUALS MECHANICAL		0.99	85.0	2642	0.99	87.6	2724
		7.5	13.3	0.79	77.6	2909			0.79	82.3	3084	0.79	84.9	3180
		10	10.0	0.68	75.8	3261			0.68	80.4	3457	0.68	82.9	3564
		15	6.7	0.54	71.5	3659			0.54	75.8	3879	0.54	78.1	3999
		20	5.0	0.48	67.3	4049			0.48	71.3	4292	0.48	73.5	4425
		25	4.0	0.41	64.0	4151			0.41	67.8	4400	0.41	69.9	4536
		30	3.3	0.38	60.5	4313			0.38	64.1	4572	0.38	66.1	4713
		40	2.5	0.32	53.8	4334			0.32	57.0	4595	0.32	58.8	4737
		50	2.0	0.26	49.6	4134			0.26	52.6	4383	0.26	54.2	4518
		60	1.7	0.228	45.5	3924			0.228	48.2	4160	0.228	49.7	4288
		80	1.3	0.144	41.9	3033			0.144	44.4	3215	0.144	45.8	3314
		100	1.0	0.098	37.8	2332			0.098	40.1	2472	0.098	41.3	2548

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

OVERHUNG LOAD AND THRUST LOAD INFORMATION

OVERHUNG LOAD - LOW SPEED SHAFT — MODELS 301 AND 304 1,150 LBS. AT CENTER POINT OF SHAFT EXTENSION. MODELS 302 AND 305 NOT APPLICABLE. THRUST† UP OR DOWN 1,725 LBS.

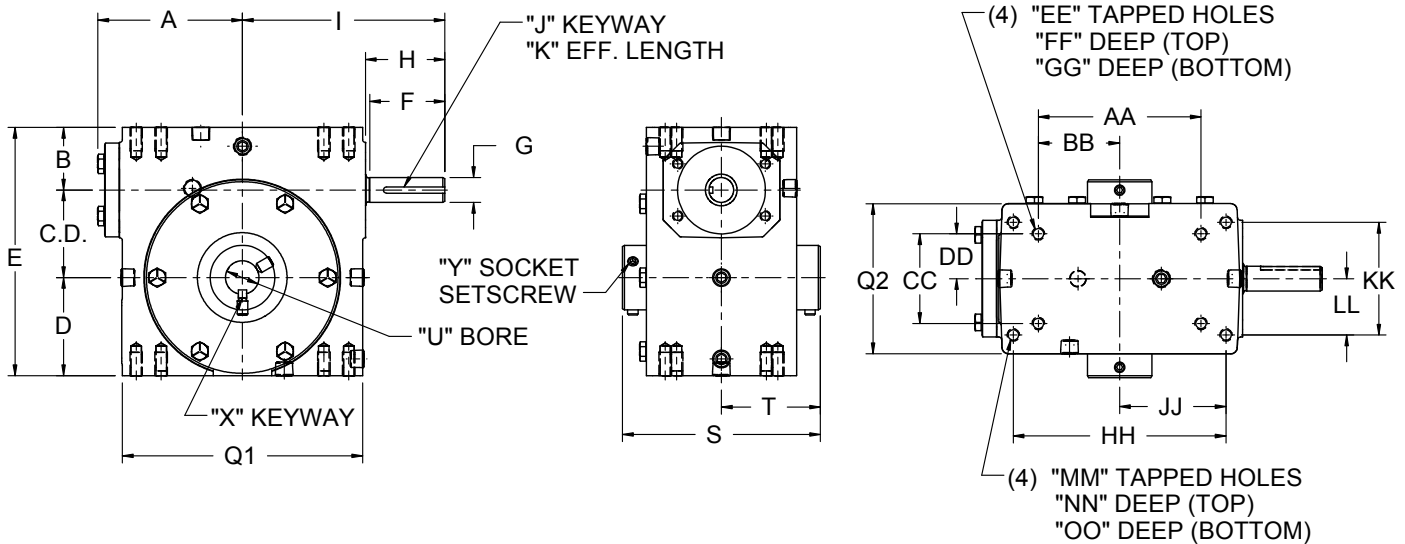
† OHL AND THRUST VALUES SHOWN ARE INDEPENDENT FUNCTIONS AND CANNOT BE APPLIED SIMULTANEOUSLY. REFER APPLICATIONS WITH COMBINED OHL AND THRUST TO REGAL CUSTOMER SERVICE DEPARTMENT.

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

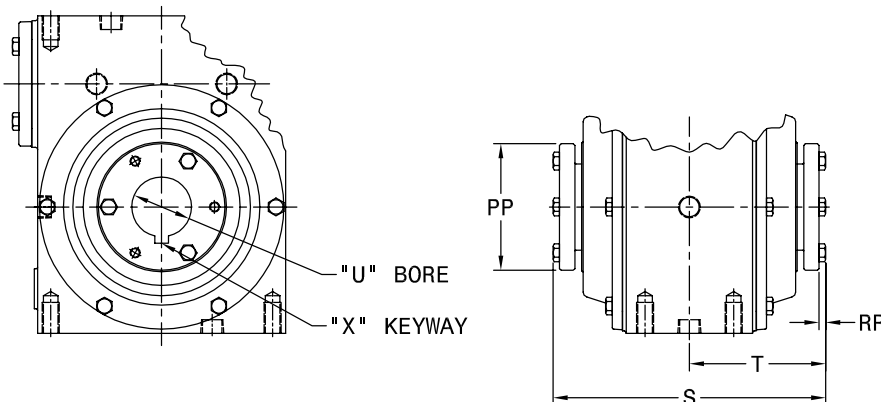
Hub City™ Worm Gear Drives

Single Reduction Models

132, 152, 182, 212, 242, 262, 302, 322, 382, 422, 452, 522, GW602, GW702, GW802, GW1002



QD™ Bushing Detail for Models 452, 522



THESE UNITS CAN BE FURNISHED WITH SOLID OUTPUT SHAFT ON SPECIAL ORDERS.

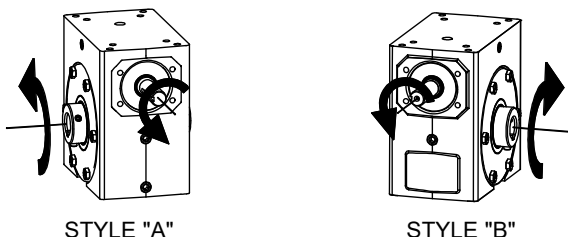
SHAFT MOUNTED UNITS REQUIRE TORQUE ARMS. TORQUE ARM KITS ARE AVAILABLE. SEE PAGE B-105.

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"

NOTE: STYLE "A" SUPPLIED AS STANDARD UNLESS SPECIFIED OTHERWISE.

NOTE: STYLE B DOES NOT APPLY TO MODELS 452 AND LARGER. HOUSINGS HAVE A COVER ON BOTH SIDES OF OUTPUT.

CONSULT FACTORY FOR VERTICAL SHAFT LUBRICATION RECOMMENDATIONS.

INPUT SHAFT CAN BE ROTATED IN EITHER DIRECTION.

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Single Reduction Models

132, 152, 182, 212, 242, 262, 302, 322, 382, 422, 452, 522, GW602, GW702, GW802, GW1002

MODEL	C.D.	A	B	D	E	Q1	Q2	F	G	H	I	J	K
132	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
152	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
182	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
212	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
242	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
262	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
302	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
322	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
382	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
422	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
452	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
522	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
GW602	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
GW702	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
GW802	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
GW1002	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

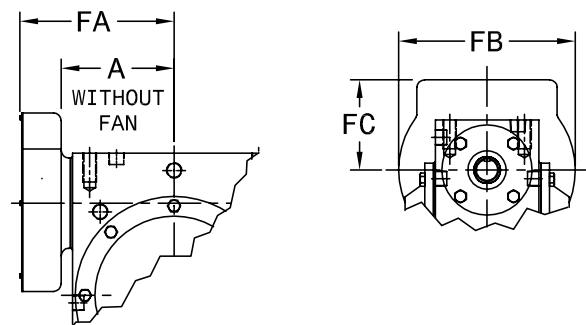
MODEL	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM	NN	OO	Wt. Lbs.
132	2.250	1.125	1.625	0.813	1/4 UNC	0.50	0.50	3.250	1.625	2.000	1.000	5/16 UNC	0.50	0.50	15
152	4.188	2.094	2.750	1.375	5/16 UNC	0.63	0.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	15
182	3.125	1.563	1.625	0.813	1/4 UNC	0.50	0.50	4.188	2.094	2.750	1.375	5/16 UNC	0.63	0.63	15
212	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	24
242	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
262	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
302	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
322	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	66
382	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
422	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	107
452	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	107
522	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	135
GW602	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	294
GW702	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
GW802	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
GW1002	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

Stock Output Bores

MINIMUM AND MAXIMUM BORE DIMENSIONS SHOWN.
FOR ADDITIONAL STOCK OUTPUT BORE SIZES AND
STOCK QD™ BUSHING KITS AVAILABLE SEE PAGE B-96.

MODEL	U (MIN.)	U (MAX.)	S	T
132	N/A	5/8	4.50	2.25
152	N/A	5/8	5.42	2.71
182	15/16	1	4.81	2.41
212	15/16	1-1/2	5.56	2.78
242	1	1-1/2	6.00	3.00
262	1	1-1/2	5.93	2.97
302	1-3/16	2-3/16	7.50	3.75
322	1-7/16	2-3/16	7.56	3.78
382	1-7/16	2-3/16	7.56	3.78
422	1-7/16	2-3/16	8.50	4.25
452	*QD BUSHING KIT REQUIRED*		10.00	5.00
522			11.13	5.56
GW602	2	3-7/16	11.50	5.75
GW702	2-7/16	3-15/16	13.50	6.75
GW802	3-7/16	4-7/16	14.50	7.25
GW1002	3-7/16	5-7/16	18.50	9.25

Fan Detail For Models GW602 Through GW1002



MODEL	A	FA	FB	FC
GW602	N/A	11.13	9.50	4.00
GW702	N/A	11.37	9.65	4.83
GW802	N/A	12.52	9.65	4.83
GW1002	N/A	14.69	11.28	5.62

ALL GW MODELS ARE FAN COOLED.



Select hollow output bore models in this product line are now available with the HubLoc® keyless bushing system. Refer to pages i and ii at front of this catalog for features, available sizes, and ordering information.