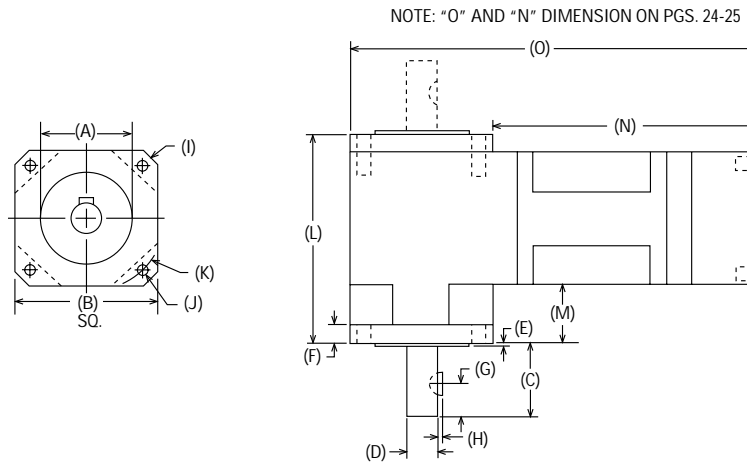


# RC/DC SERIES: PRIME™ PLANETARY RIGHT ANGLE GEARHEADS

## SINGLE, DOUBLE, TRIPLE STAGE-SINGLE OR DOUBLE SHAFT PRECISION HIGH PERFORMANCE GEARHEADS



PART NUMBER	A PILOT DIAMETER (in.)	B SQUARE FLANGE (in.)	C SHAFT LENGTH (in.)	D SHAFT DIAMETER (in.)	E PILOT LENGTH (in.)	F FLANGE THICKNESS (in.)	G KEY LOCATION (in.)	H KEY HEIGHT (in.)
017RCX/017DCX	.864/.866	1.65	1.25	.3745/.3750	0.062	0.250	0.56	0.063
023RCX/023DCX	1.498/1.500	2.25	1.25	.4995/.5000	0.062	0.312	0.56	0.063
034RCX/034DCX	2.873/2.875	3.25	1.50	.7495/.7500	0.062	0.500	0.56	0.094
042RCX/042DCX	2.185/2.187	4.20	2.00	.9995/1.0000	0.062	0.500	0.63	0.125
056RCX/056DCX	4.498/4.500	5.75	2.50	1.4995/1.5000	0.125	0.750	0.94	0.187
075RCX/075DCX	5.998/6.000	7.48	3.50	1.9995/2.0000	0.187	0.875	3.00 Lg	0.157
PART NUMBER	I HOUSING DIAMETER (in.)	J BOLT HOLE DIAMETER (in.)	K BOLT HOLE CIRCLE (in.)	L RIGHT ANGLE WIDTH (in.)	M OVERHANG WIDTH (in.)	KEY WIDTH/ WOODRUFF KEY (in.)	RADIAL SHAFT LOADING (LBS.)	AXIAL SHAFT LOADING (LBS.)
017RCX/017DCX	2.05	0.125	1.725	2.72	0.82	0.094 / #303	400	400
023RCX/023DCX	2.95	0.205	2.625	3.55	0.99	0.125 / #404	600	600
034RCX/034DCX	4.38	0.220	3.875	5.14	1.38	0.187 / #606	900	900
042RCX/042DCX	5.51	0.280	4.950	5.89	1.18	0.250 / #808	1400	1400
056RCX/056DCX	7.87	0.410	7.000	8.79	2.28	0.375 / #1212	2200	2200
075RCX/075DCX	9.64	0.560	8.465	11.30	2.95	3/8"x 5/8" RECT.	3200	3200

AVAILABLE RATIOS	EFFICIENCY	SPECIFICATIONS
SINGLE STAGE : 3:1 / 4:1 / 5:1 / 5.5:1 / 7:1 / 10:1	85%	Input RPM: 6500 Max.
DOUBLE STAGE: 15:1/16:1/20:1/22:1/25:1/28:1/30:1/40:1/49:1/50:1/55:1/70:1/100:1	80%	Operating Temperature Range -60°F to +255°F
TRIPLE STAGE: 160:1 / 280:1 / 400:1 / 550:1 / 700:1 OTHER RATIOS AVAILABLE	75%	Motor Mounting Hardware Supplied

# PRECISION, INSIDE AND OUT.



ALL SPECIFICATIONS SUBJECT TO CHANGE.

# RC/DC SERIES: PRIME™ PLANETARY RIGHT ANGLE GEARHEADS

## SINGLE, DOUBLE, TRIPLE STAGE-SINGLE OR DOUBLE SHAFT

MODEL	RATIO	TORQUE RATING		INERTIA		BACKLASH	GEARHEAD	N	O
		T <sub>C</sub>	T <sub>PEAK</sub>	INPUT PINION	GEARHEAD	STD/ LOW	WEIGHT	LENGTH	GEARHEAD
		IN LBS.	IN LBS.	OZ IN SEC <sup>2</sup>	OZ IN SEC <sup>2</sup>	ARC MINUTES	LBS.	TO FLANGE	LENGTH
017RCX	3:1	167	261	2.163E-04	4.153E-04	11 / 8	2.8	3.30	4.97
017RCX	4:1	158	248	1.352E-04	2.478E-04	11 / 8	2.8	3.30	4.97
017RCX	5:1	148	231	1.203E-04	1.720E-04	11 / 8	2.8	3.30	4.97
017RCX	5.5:1	143	223	1.174E-04	1.341E-04	11 / 8	2.8	3.30	4.97
017RCX	7:1	119	158	1.143E-04	8.344E-05	11 / 8	2.8	3.30	4.97
017RCX	10:1	56	84	1.132E-04	4.113E-05	11 / 8	2.8	3.30	4.97
017RCX	15:1	178	277	1.203E-04	1.142E-04	15 / 10	3.4	3.84	5.51
017RCX	16:1	169	264	1.352E-04	1.088E-04	15 / 10	3.4	3.84	5.51
017RCX	20:1	170	266	1.203E-04	7.664E-05	15 / 10	3.4	3.84	5.51
017RCX	22:1	171	267	1.174E-04	6.056E-05	15 / 10	3.4	3.84	5.51
017RCX	25:1	159	247	1.203E-04	4.931E-05	15 / 10	3.4	3.84	5.51
017RCX	28:1	172	269	1.143E-04	3.806E-05	15 / 10	3.4	3.84	5.51
017RCX	30:1	183	285	1.132E-04	3.487E-05	15 / 10	3.4	3.84	5.51
017RCX	40:1	174	272	1.132E-04	1.889E-05	15 / 10	3.4	3.84	5.51
017RCX	49:1	127	199	1.143E-04	3.525E-05	15 / 10	3.4	3.84	5.51
017RCX	50:1	161	251	1.132E-04	3.236E-05	15 / 10	3.4	3.84	5.51
017RCX	55:1	156	243	1.132E-04	1.791E-05	15 / 10	3.4	3.84	5.51
017RCX	70:1	128	201	1.132E-04	1.751E-05	15 / 10	3.4	3.84	5.51
017RCX	100:1	52	77	1.132E-04	1.719E-05	15 / 10	3.4	3.84	5.51
017RCX	160:1	181	283	1.132E-04	1.821E-05	19 / 12	4.0	4.46	6.11
017RCX	280:1	183	286	1.132E-04	1.735E-05	19 / 12	4.0	4.46	6.11
017RCX	400:1	185	286	1.132E-04	1.769E-05	19 / 12	4.0	4.46	6.11
017RCX	550:1	165	257	1.132E-04	1.767E-05	19 / 12	4.0	4.46	6.11
017RCX	700:1	136	212	1.132E-04	1.766E-05	19 / 12	4.0	4.46	6.11
023RCX	3:1	380	594	1.194E-03	1.539E-03	11 / 8	4.0	4.23	6.49
023RCX	4:1	360	562	9.502E-04	9.035E-04	11 / 8	4.0	4.23	6.49
023RCX	5:1	331	518	9.044E-04	6.264E-04	11 / 8	4.0	4.23	6.49
023RCX	5.5:1	317	496	8.969E-04	4.878E-04	11 / 8	4.0	4.23	6.49
023RCX	7:1	263	411	8.880E-04	3.034E-04	11 / 8	4.0	4.23	6.49
023RCX	10:1	119	179	8.846E-04	1.495E-04	11 / 8	4.0	4.23	6.49
023RCX	15:1	396	619	9.044E-04	3.634E-04	15 / 10	5.0	5.05	7.32
023RCX	16:1	376	587	9.502E-04	3.461E-04	15 / 10	5.0	5.05	7.32
023RCX	20:1	378	591	9.044E-04	2.440E-04	15 / 10	5.0	5.05	7.32
023RCX	22:1	380	594	8.969E-04	1.930E-04	15 / 10	5.0	5.05	7.32
023RCX	25:1	347	543	9.044E-04	1.572E-04	15 / 10	5.0	5.05	7.32
023RCX	28:1	384	600	8.880E-04	1.214E-04	15 / 10	5.0	5.05	7.32
023RCX	30:1	408	639	8.846E-04	1.112E-04	15 / 10	5.0	5.05	7.32
023RCX	40:1	388	607	8.846E-04	6.027E-05	15 / 10	5.0	5.05	7.32
023RCX	49:1	286	447	8.880E-04	1.117E-04	15 / 10	5.0	5.05	7.32
023RCX	50:1	361	564	8.846E-04	1.026E-04	15 / 10	5.0	5.05	7.32
023RCX	55:1	347	542	8.846E-04	5.690E-05	15 / 10	5.0	5.05	7.32
023RCX	70:1	288	450	8.846E-04	5.551E-05	15 / 10	5.0	5.05	7.32
023RCX	100:1	110	164	8.846E-04	5.438E-05	15 / 10	5.0	5.05	7.32
023RCX	160:1	404	631	8.846E-04	5.760E-05	19 / 12	6.0	5.85	8.10
023RCX	280:1	409	640	8.846E-04	5.461E-05	19 / 12	6.0	5.85	8.10
023RCX	400:1	406	608	8.846E-04	5.591E-05	19 / 12	6.0	5.85	8.10
023RCX	550:1	368	575	8.846E-04	5.584E-05	19 / 12	6.0	5.85	8.10
023RCX	700:1	303	473	8.846E-04	5.581E-05	19 / 12	6.0	5.85	8.10
034RCX	3:1	1285	2008	4.901E-03	1.176E-02	11 / 8	12.5	5.91	9.16
034RCX	4:1	1219	1905	2.522E-03	6.818E-03	11 / 8	12.5	5.91	9.16
034RCX	5:1	1148	1795	2.115E-03	4.735E-03	11 / 8	12.5	5.91	9.16
034RCX	5.5:1	1113	1740	2.040E-03	3.693E-03	11 / 8	12.5	5.91	9.16
034RCX	7:1	935	1461	1.955E-03	2.300E-03	11 / 8	12.5	5.91	9.16
034RCX	10:1	552	828	1.923E-03	1.134E-03	11 / 8	12.5	5.91	9.16
034RCX	15:1	1381	2158	2.115E-03	3.091E-03	15 / 10	13.5	7.04	10.29
034RCX	16:1	1315	2055	2.522E-03	2.944E-03	15 / 10	13.5	7.04	10.29
034RCX	20:1	1324	2069	2.115E-03	2.077E-03	15 / 10	13.5	7.04	10.29
034RCX	22:1	1333	2083	2.040E-03	1.644E-03	15 / 10	13.5	7.04	10.29
034RCX	25:1	1244	1945	2.115E-03	1.340E-03	15 / 10	13.5	7.04	10.29
034RCX	28:1	1346	2103	1.955E-03	1.035E-03	15 / 10	13.5	7.04	10.29
034RCX	30:1	1430	2235	1.923E-03	9.482E-04	15 / 10	13.5	7.04	10.29
034RCX	40:1	1364	2132	1.923E-03	5.139E-04	15 / 10	13.5	7.04	10.29
034RCX	49:1	1015	1587	1.955E-03	9.545E-04	15 / 10	13.5	7.04	10.29
034RCX	50:1	1267	1980	1.923E-03	8.764E-04	15 / 10	13.5	7.04	10.29
034RCX	55:1	1232	1925	1.923E-03	4.861E-04	15 / 10	13.5	7.04	10.29
034RCX	70:1	1027	1605	1.923E-03	4.747E-04	15 / 10	13.5	7.04	10.29
034RCX	100:1	507	761	1.923E-03	4.654E-04	15 / 10	13.5	7.04	10.29
034RCX	160:1	1424	2226	1.923E-03	4.930E-04	19 / 12	14.5	8.26	11.51
034RCX	280:1	1445	2258	1.923E-03	4.676E-04	19 / 12	14.5	8.26	11.51
034RCX	400:1	1458	2278	1.923E-03	4.781E-04	19 / 12	14.5	8.26	11.51
034RCX	550:1	1311	2048	1.923E-03	4.775E-04	19 / 12	14.5	8.26	11.51
034RCX	700:1	1090	1703	1.923E-03	4.772E-04	19 / 12	14.5	8.26	11.51

ALL SPECIFICATIONS SUBJECT TO CHANGE.

# RC/DC SERIES: PRIME™ PLANETARY RIGHT ANGLE GEARHEADS

## SINGLE, DOUBLE, TRIPLE STAGE-SINGLE OR DOUBLE SHAFT

MODEL	RATIO	TORQUE RATING		INERTIA		BACKLASH	GEARHEAD	N	O
		T <sub>c</sub> IN LBS.	T <sub>PEAK</sub> IN LBS.	INPUT PINION OZ IN SEC <sup>2</sup>	GEARHEAD OZ IN SEC <sup>2</sup>	STD/ LOW ARC MINUTES	WEIGHT LBS.	LENGTH TO FLANGE	GEARHEAD LENGTH
042RCX	3:1	2301	3597	1.680E-02	2.667E-02	11 / 8	28.5	7.18	11.39
042RCX	4:1	2195	3430	1.032E-02	1.626E-02	11 / 8	28.5	7.18	11.39
042RCX	5:1	2079	3249	9.201E-03	1.137E-02	11 / 8	28.5	7.18	11.39
042RCX	5.5:1	2021	3159	8.997E-03	8.931E-03	11 / 8	28.5	7.18	11.39
042RCX	7:1	1711	2673	8.766E-03	5.588E-03	11 / 8	28.5	7.18	11.39
042RCX	10:1	1122	1684	8.680E-03	2.765E-03	11 / 8	28.5	7.18	11.39
042RCX	15:1	2485	3884	9.201E-03	1.174E-02	15 / 10	35.0	8.81	13.02
042RCX	16:1	2379	3717	1.032E-02	1.118E-02	15 / 10	35.0	8.81	13.02
042RCX	20:1	2397	3745	9.201E-03	7.888E-03	15 / 10	35.0	8.81	13.02
042RCX	22:1	2414	3772	8.997E-03	6.242E-03	15 / 10	35.0	8.81	13.02
042RCX	25:1	2263	3536	9.201E-03	5.085E-03	15 / 10	35.0	8.81	13.02
042RCX	28:1	2438	3811	8.766E-03	3.928E-03	15 / 10	35.0	8.81	13.02
042RCX	30:1	2579	4032	8.680E-03	3.599E-03	15 / 10	35.0	8.81	13.02
042RCX	40:1	2473	3865	8.680E-03	1.951E-03	15 / 10	35.0	8.81	13.02
042RCX	49:1	1867	2918	8.766E-03	3.724E-03	15 / 10	35.0	8.81	13.02
042RCX	50:1	2308	3606	8.680E-03	3.417E-03	15 / 10	35.0	8.81	13.02
042RCX	55:1	2250	3516	8.680E-03	1.880E-03	15 / 10	35.0	8.81	13.02
042RCX	70:1	1890	2953	8.680E-03	1.851E-03	15 / 10	35.0	8.81	13.02
042RCX	100:1	1031	1547	8.680E-03	1.827E-03	15 / 10	35.0	8.81	13.02
042RCX	160:1	2587	4044	8.680E-03	1.934E-03	19 / 12	36.0	10.37	14.57
042RCX	280:1	2627	4105	8.680E-03	1.845E-03	19 / 12	36.0	10.37	14.57
042RCX	400:1	2651	4142	8.680E-03	1.884E-03	19 / 12	36.0	10.37	14.57
042RCX	550:1	2400	3750	8.680E-03	1.882E-03	19 / 12	36.0	10.37	14.57
042RCX	700:1	2009	3140	8.680E-03	1.881E-03	19 / 12	36.0	10.37	14.57
056RCX	3:1	5169	8078	5.794E-02	9.725E-02	11 / 8	56.0	10.13	15.86
056RCX	4:1	4946	7730	3.123E-02	5.977E-02	11 / 8	56.0	10.13	15.86
056RCX	5:1	4693	7335	2.647E-02	4.189E-02	11 / 8	56.0	10.13	15.86
056RCX	5.5:1	4567	7137	2.564E-02	3.295E-02	11 / 8	56.0	10.13	15.86
056RCX	7:1	3888	6076	2.470E-02	2.065E-02	11 / 8	56.0	10.13	15.86
056RCX	10:1	2767	4150	2.435E-02	1.022E-02	11 / 8	56.0	10.13	15.86
056RCX	15:1	5619	8781	2.647E-02	4.970E-02	15 / 10	71.0	12.27	18.03
056RCX	16:1	5396	8433	3.123E-02	4.733E-02	15 / 10	71.0	12.27	18.03
056RCX	20:1	5439	8500	2.647E-02	3.336E-02	15 / 10	71.0	12.27	18.03
056RCX	22:1	5482	8567	2.564E-02	2.637E-02	15 / 10	71.0	12.27	18.03
056RCX	25:1	5143	8038	2.647E-02	2.148E-02	15 / 10	71.0	12.27	18.03
056RCX	28:1	5542	8661	2.470E-02	1.658E-02	15 / 10	71.0	12.27	18.03
056RCX	30:1	5850	9142	2.435E-02	1.519E-02	15 / 10	71.0	12.27	18.03
056RCX	40:1	5627	8794	2.435E-02	8.233E-03	15 / 10	71.0	12.27	18.03
056RCX	49:1	4273	6677	2.470E-02	1.579E-02	15 / 10	71.0	12.27	18.03
056RCX	50:1	5253	8210	2.435E-02	1.448E-02	15 / 10	71.0	12.27	18.03
056RCX	55:1	5127	8012	2.435E-02	7.958E-03	15 / 10	71.0	12.27	18.03
056RCX	70:1	4328	6763	2.435E-02	7.846E-03	15 / 10	71.0	12.27	18.03
056RCX	100:1	2543	3814	2.435E-02	7.754E-03	15 / 10	71.0	12.27	18.03
056RCX	160:1	5904	9227	2.435E-02	8.210E-03	19 / 12	86.0	14.77	20.52
056RCX	280:1	5998	9374	2.435E-02	7.838E-03	19 / 12	86.0	14.77	20.52
056RCX	400:1	6055	9463	2.435E-02	8.043E-03	19 / 12	86.0	14.77	20.52
056RCX	550:1	5486	8574	2.435E-02	7.998E-03	19 / 12	86.0	14.77	20.52
056RCX	700:1	4616	7213	2.435E-02	7.995E-03	19 / 12	86.0	14.77	20.52
075RCX	3:1	13339	20009	1.936E-01	4.424E-01	11 / 8	154.0	13.47	20.92
075RCX	4:1	12713	19868	6.554E-02	2.729E-01	11 / 8	154.0	13.47	20.92
075RCX	5:1	12748	19923	4.403E-02	1.914E-01	11 / 8	154.0	13.47	20.92
075RCX	5.5:1	12765	19950	4.015E-02	1.507E-01	11 / 8	154.0	13.47	20.92
075RCX	7:1	10809	16892	3.574E-02	9.445E-02	11 / 8	154.0	13.47	20.92
075RCX	10:1	7016	10524	3.410E-02	4.679E-02	11 / 8	154.0	13.47	20.92
075RCX	15:1	15924	24048	4.403E-02	2.044E-01	15 / 10	232.0	16.32	24.01
075RCX	16:1	15298	23907	6.554E-02	1.947E-01	15 / 10	232.0	16.32	24.01
075RCX	20:1	15430	24113	4.403E-02	1.378E-01	15 / 10	232.0	16.32	24.01
075RCX	22:1	15561	24318	4.015E-02	1.093E-01	15 / 10	232.0	16.32	24.01
075RCX	25:1	15333	23962	4.403E-02	8.912E-02	15 / 10	232.0	16.32	24.01
075RCX	28:1	15746	24608	3.574E-02	6.894E-02	15 / 10	232.0	16.32	24.01
075RCX	30:1	16632	25155	3.410E-02	6.317E-02	15 / 10	232.0	16.32	24.01
075RCX	40:1	16006	25014	3.410E-02	3.429E-02	15 / 10	232.0	16.32	24.01
075RCX	49:1	11968	18704	3.574E-02	6.543E-02	15 / 10	232.0	16.32	24.01
075RCX	50:1	14447	22577	3.410E-02	6.004E-02	15 / 10	232.0	16.32	24.01
075RCX	55:1	14464	22604	3.410E-02	3.307E-02	15 / 10	232.0	16.32	24.01
075RCX	70:1	12134	18962	3.410E-02	3.257E-02	15 / 10	232.0	16.32	24.01
075RCX	100:1	6447	9671	3.410E-02	3.217E-02	15 / 10	232.0	16.32	24.01

ALL SPECIFICATIONS SUBJECT TO CHANGE.

**NOTES:** Other ratios are also available, consult factory.  
 T<sub>c</sub>: Output torque is rated at 3000 RPM, and a minimum life of 10,000 hours.  
 Bearing load ratings are based on a minimum life of 10,000 hours.  
 Torque specifications for the RCX and DCX are the same.