



HARMONIC

SOLUTIONS

Cone Drive Harmonic Solutions® offer the ultimate in precision motion control technology. Our product range includes gearheads and component sets designed to exceed the most demanding motion control applications.

Precision. Motion Control. Technology.

Models CBC | CBG | HBC | HBG

COMMON SIZES

RATIO			14	17	20	25	32
50	Cont. Rated Torque*	[Nm]	7.6	21.5	34.2	49.3	101
	Start/Stop Torque**	[Nm]	23.9	46.4	74	127	275
	Peak Torque+	[Nm]	44.8	95	129	238	496
	Max Static Torque++	[Nm]	115	193	286	586	1194
80	Cont. Rated Torque*	[Nm]	10.3	28.6	46.5	74	153
	Start/Stop Torque**	[Nm]	30.2	62	100	177	404
	Peak Torque+	[Nm]	61	120	172	347	764
	Max Static Torque++	[Nm]	142	262	457	898	1855
100	Cont. Rated Torque*	[Nm]	10.2	32.6	54	83	170
	Start/Stop Torque**	[Nm]	35.2	70	117	205	430
	Peak Torque+	[Nm]	71	145	197	365	844
	Max Static Torque++	[Nm]	102	204	331	656	1335
120	Cont. Rated Torque*	[Nm]	10.8	33.2	53	88	171
	Start/Stop Torque**	[Nm]	35.7	71	113	218	458
	Peak Torque+	[Nm]	53	113	196	383	900
	Max Static Torque++	[Nm]	89	150	310	621	1225
160	Cont. Rated Torque*	[Nm]	-	-	55	101	196
	Start/Stop Torque**	[Nm]	-	-	119	230	494
	Peak Torque+	[Nm]	-	-	196	401	899
	Max Static Torque++	[Nm]	-	-	283	584	1206
CBC	Overall Length	[mm]	28.3	32.3	33.3	36.75	43.75
	Outer Diameter	[mm]	50	60	70	85	110
	Mass	[kg]	0.11	0.18	0.28	0.45	0.94
CBG	Overall Length	[mm]	40.65	44.65	45	51.5	61.45
	Outer Diameter	[mm]	73	79	93	107	138
	Mass	[kg]	0.54	0.73	1.0	1.6	3.3
HBC	Overall Length	[mm]	28.3	32.3	33.3	36.75	43.75
	Outer Diameter	[mm]	60	72	82	104	134
	Mass	[kg]	0.11	0.18	0.31	0.48	0.97
HBG	Overall Length	[mm]	28.3	32.3	33.3	36.75	43.75
	Outer Diameter	[mm]	70	80	90	110	142
	Mass	[kg]	0.43	0.59	0.83	1.4	3.0

* 10,000 HOURS @ 2,000 RPM ** 10,000,000 INPUT CYCLES + 10,000 INPUT CYCLE ++ OUTPUT DRIVEN, LOW CYCLES
 - DATA NOT YET DOCUMENTED

Model RBC

COMMON SIZES

14	17	20	25	32
6.0	17.1	27.2	39.2	80
9.6	24.8	36.0	56	118
17.9	38.0	58	107	198
115	193	286	586	1194
8.2	22.7	36.9	59	122
13.1	33.0	48.9	84	178
24.5	47.9	77	156	305
142	262	457	898	1855
8.1	25.9	43.1	65	135
13.0	37.5	57	94	198
28.3	58	88	164	337
102	204	331	656	1335
8.6	26.3	41.8	70	135
13.8	38.2	55	100	199
21.1	45.3	88	173	360
89	150	310	621	1225
-	-	44.0	80	156
-	-	58	115	228
-	-	88	181	359
-	-	283	584	1206
22.2	20	25	29	37
50	60	70	85	110
0.22	0.34	0.55	0.87	1.87

Model RLC


COMMON SIZES






14	17	20	25	32
3.0	8.5	13.6	19.6	40.1
5.0	13.0	21.8	29.9	64
11.2	23.8	32.3	60	109
58	97	143	293	597
4.1	11.4	18.5	29.3	61
6.7	17.2	29.6	44.7	97
15.3	29.9	42.9	87	168
71	131	228	449	928
4.1	12.9	21.6	32.7	67
6.7	19.6	34.6	50.0	108
17.7	36.2	49.1	91	186
51	102	165	328	667
4.3	13.2	20.9	34.9	68
7.1	20.0	33.5	53	108
13.2	28.3	49.1	96	198
44.4	75	155	311	612
-	-	22.0	40.1	78
-	-	35.3	61	125
-	-	49.1	100	198
-	-	141	292	603
14.95	15.65	12.5	16.5	20.5
50	60	70	85	110
0.13	0.19	0.27	0.48	1.03

Cone Drive provides innovative and cutting-edge solutions to your precision motion control and industrial technology challenges across the globe. We have a long history of designing, engineering, and testing custom products tailored to our customers' specific needs.

Our team of highly talented engineers can take your specifications and turn them into a complete engineered solution, ready for integration into your system. That means no costly rework or design compromises when trying to fit an "off the shelf" product into your design. And because we handle all the details for your unique design from start to finish, you can be sure that the end result is tailored to your exact specifications and needs, no matter the application or industry.



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HARMONIC SOLUTIONS




Specifications




COMMON SIZES	11-45, Custom
INPUT ADAPTERS	Servo, Stepper, AC, Air, Hydraulic, Manual
GEAR RATIOS	50, 80, 100, 120, 160, Custom
OUTPUT OPTIONS	Solid, Hollow, or Custom

Features

- Motor adaptation
- Ultra-low to zero backlash
- Standard & Custom Ratios
- Cone Drive optimized tooth profiles
- High efficiency/ high ratios
- Back-driveable
- Direct Dimensional replacement against industry standards
- Made in the USA



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