



HARMONIC SOLUTIONS

Cone Drive Harmonic Solutions® offers the ultimate in gearing precision. Our capabilities include the ability to design and manufacture custom component sets & gearheads with input, output, size and ratio customization to suit your specific needs.

Precision. Motion Control. Technology.

HARMONIC SOLUTIONS

RATINGS

MODELS **CBC | CBG | HBC | HBG**

MODEL **RLC**

COMMON SIZES

COMMON SIZES

RATIO			11	14	17	20	25	32	14	17	20	25	32	
50	Cont. Rated Torque*	[Nm]	3.4 ^x	7.6	21.5	32.4	49.3	98.7	3.0	8.5	12.9	19.6	39.2	50
	Max Average Torque	[Nm]	5.1 ^x	8.8	33.8	42.9	70.3	138.6	5.0	13.0	20.7	29.9	62.8	
	Start/Stop Torque**	[Nm]	7.8 ^x	24.4	43.3	72.4	124.4	274.5	5.0	13.0	20.7	29.9	62.8	
	Peak Torque+	[Nm]	16.0 ^x	44.2	88.1	126.6	230.5	480.3	11.0	22.0	31.6	57.6	105.7	
80	Cont. Rated Torque*	[Nm]	-	10.3	28.6	41.8	73.8	153.1	4.1	11.4	16.6	29.3	60.8	80
	Max Average Torque	[Nm]	-	13.9	34.4	61.4	112.1	211.7	6.7	17.2	26.6	44.7	97.3	
	Start/Stop Torque**	[Nm]	-	30.2	53.0	93.8	176.6	340.7	6.7	17.2	26.6	44.7	97.3	
	Peak Torque+	[Nm]	-	58.3	107.0	156.4	306.7	725.9	14.6	26.7	39.1	76.7	159.7	
100	Cont. Rated Torque*	[Nm]	4.8 ^x	10.2	29.8	50.5	82.5	169.8	4.1	11.8	20.1	32.7	67.4	100
	Max Average Torque	[Nm]	8.5 ^x	13.3	50.9	61.9	137.4	278.1	6.7	17.9	32.2	50.0	107.9	
	Start/Stop Torque**	[Nm]	10.7 ^x	32.0	64.1	100.0	185.5	403.5	6.7	17.9	32.2	50.0	107.9	
	Peak Torque+	[Nm]	23.4 ^x	63.5	132.9	185.0	345.8	823.9	15.9	33.2	46.3	86.4	181.2	
120	Cont. Rated Torque*	[Nm]	-	-	29.2	50.3	83.5	170.6	-	11.6	20.0	33.1	67.7	120
	Max Average Torque	[Nm]	-	-	50.9	61.9	136.0	274.7	-	17.6	32.1	50.6	108.4	
	Start/Stop Torque**	[Nm]	-	-	64.9	105.3	191.4	430.0	-	17.6	32.1	50.6	108.4	
	Peak Torque+	[Nm]	-	-	117.2	184.1	346.2	823.3	-	29.3	46.0	86.6	181.1	

* 10,000 HOURS @ 2,000 RPM


** 10,000,000 INPUT CYCLES


+ 10,000 INPUT CYCLE

x CBC & CBG ONLY


DIMENSIONS


MODELS

			11	14	17	20	25	32
CBC 	Minimum Length	[mm]	25.8	28.3	32.3	33.3	36.8	43.8
	Outer Diameter	[mm]	40.0	50.0	60.0	70.0	85.0	110.0
	Mass	[kg]	0.1	0.1	0.2	0.3	0.5	0.9

CBC 	Minimum Length	[mm]	37.3	40.7	44.7	45.0	51.5	61.5
	Outer Diameter	[mm]	65.0	73.0	79.0	93.0	107.0	138.0
	Mass	[kg]	0.4	0.5	0.7	1.0	1.6	3.3

HBC 	Minimum Length	[mm]	-	28.3	32.3	33.3	36.8	43.8
	Outer Diameter	[mm]	-	60.0	72.0	82.0	104.0	134.0
	Mass	[kg]	-	0.1	0.2	0.3	0.5	1.0


HBC 	Minimum Length	[mm]	-	28.3	32.3	33.3	36.8	43.8
	Outer Diameter	[mm]	-	70.0	80.0	90.0	110.0	142.0
	Mass	[kg]	-	0.4	0.6	0.8	1.4	3.0





RLC 	Minimum Length	[mm]	-	15.0	15.7	12.5	16.5	20.5
	Outer Diameter	[mm]	-	50.0	60.0	70.0	85.0	110.0
	Mass	[kg]	-	0.1	0.2	0.3	0.5	1.0

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 talented engineers will take your specifications and present a complete engineered solution, ready for integration into your system. That means no costly rework or design compromises associated with attempting to use "off the shelf" products. We handle all of the details for your unique design from start to finish, ensuring that the solution suits your exact requirements and specifications, regardless of the application or industry.



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HARMONIC SOLUTIONS



Specifications

COMMON SIZES — 11-45, Custom

INPUT ADAPTERS — Servo, Stepper, Air, Hydraulic, Manual

GEAR RATIOS — 50, 80, 100, 120, 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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