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NO. LD2019-1 Y

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苏州绿的谐波传动科技股份有限公司

Leader Harmonious Drive Systems Co.,Ltd

LCS Standard Cup-Shaped Flexspline Strain Wave Gear  
Product Introduction Manual



## LCS-I series



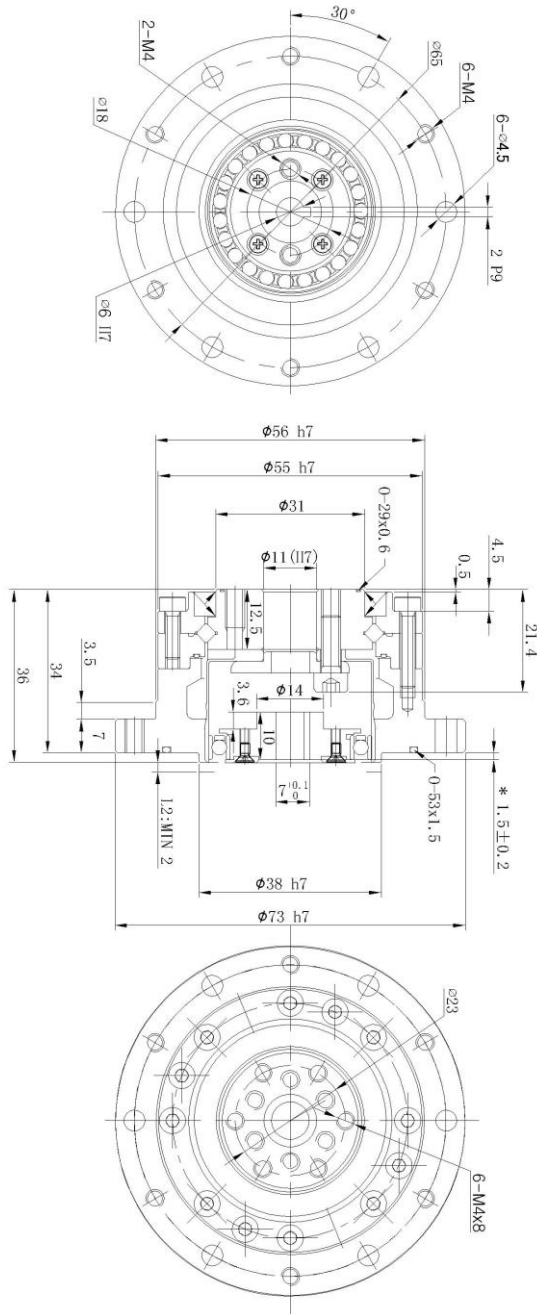
For LCS-I series, their flexible gear is of standard cup-shaped tube structure. Their input shaft matches with the inner hole of wave transformer directly and are connected by flat key. In general, the series are used with the rigid gear end fixed and flexible gear outputting.

### Parameter Table

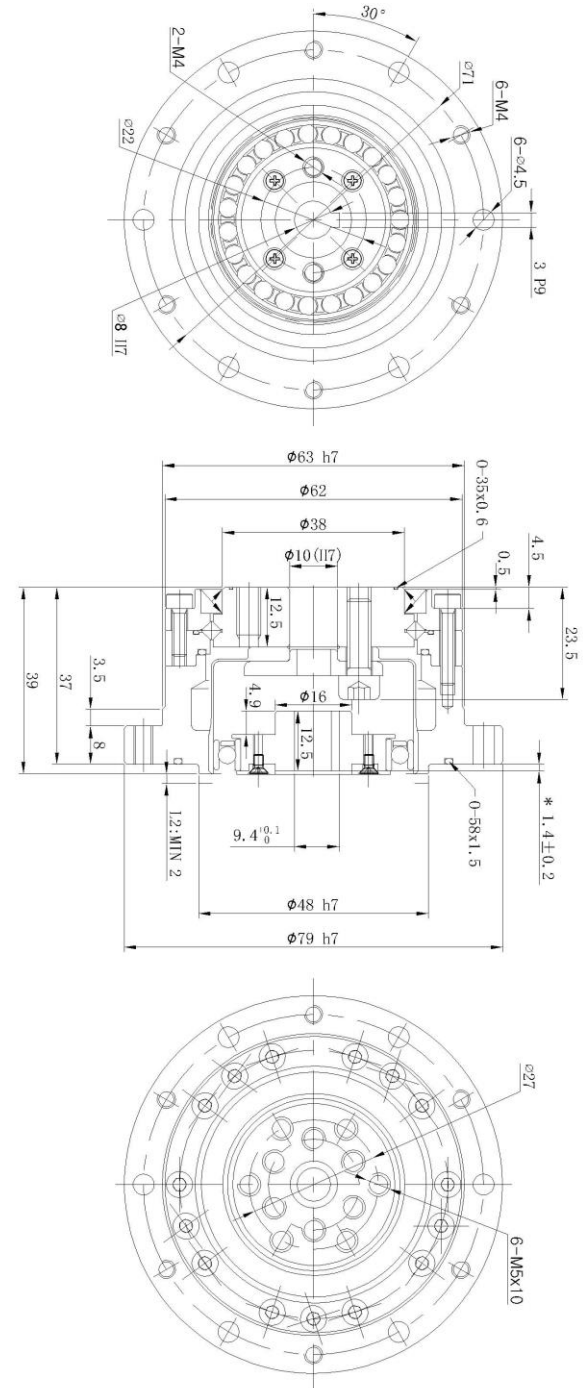
Item	Reduction Ratio	Rated Torque at 2000r/min	Allowable Peak Torque at Start and Stop	Allowable Average Torque	Allowable Maximum Momentary Torque	Maximum Input Speed	Allowable Average Input Speed	Backlash	Weight	Design Life
		Nm	Nm	Nm	Nm	r/min	r/min	Arc sec	Kg	Hour
14	30	3.8	8.5	6.5	16	8000	3500	≤20	0.51	10000
	50	5.1	17.1	6.6	33			≤20		10000
	80	7.4	22	10.5	44			≤10		15000
	100	7.4	26	10.5	61			≤10		15000
17	30	8.4	15	11.5	28	7000	3500	≤20	0.68	10000
	50	15.2	32	25	66			≤20		10000
	80	21	41	26	83			≤10		15000
	100	23	51	37	103			≤10		15000
	120	23	51	37	82			≤10		15000
	160	38	83	47	140			≤10		15000
20	30	14	26	19	48	6000	3500	≤20	0.98	10000
	50	24	53	32	93			≤20		10000
	80	32	70	45	121			≤10		15000
	100	38	78	47	140			≤10		15000
	120	38	83	47	140			≤10		15000
	160	38	87	47	140			≤10		15000
	250	64	167	103	298			≤10		15000
25	30	26	48	36	90	5500	3500	≤20	1.47	10000
	50	37	93	52	177			≤20		10000
	80	60	130	83	242			≤10		15000
	100	64	149	103	270			≤10		15000
	120	64	159	103	289			≤10		15000
	160	64	167	103	298			≤10		15000
32	30	51	95	71	190	4500	3500	≤20	3.19	10000
	50	72	205	103	363			≤20		10000
	80	112	289	159	540			≤10		15000
	100	130	316	205	615			≤10		15000
	120	130	335	205	652			≤10		15000
	160	130	353	205	652			≤10		15000
40	50	130	382	186	652	4000	3000	≤20	5.0	10000
	80	196	493	270	931			≤10		15000
	100	252	540	353	1026			≤10		15000
	120	279	586	429	1121			≤10		15000
	160	279	615	429	1121			≤10		15000
50*	50	233	679	333	1358	3000	2500	≤20	9.8	10000
	80	353	894	493	1767			≤10		15000
	100	446	931	633	1957			≤10		15000
	120	503	1026	772	1957			≤10		15000
	160	503	1121	801	2327			≤10		15000
58*	80	522	1406	732	2328	3000	2200	≤10	14.8	15000
	100	661	1511	1007	3021			≤10		15000
	120	708	1634	1131	3164			≤10		15000
	160	708	1748	1150	3259			≤10		15000

# LCS-I Series Drawings

LCS-14-XXX-C-I

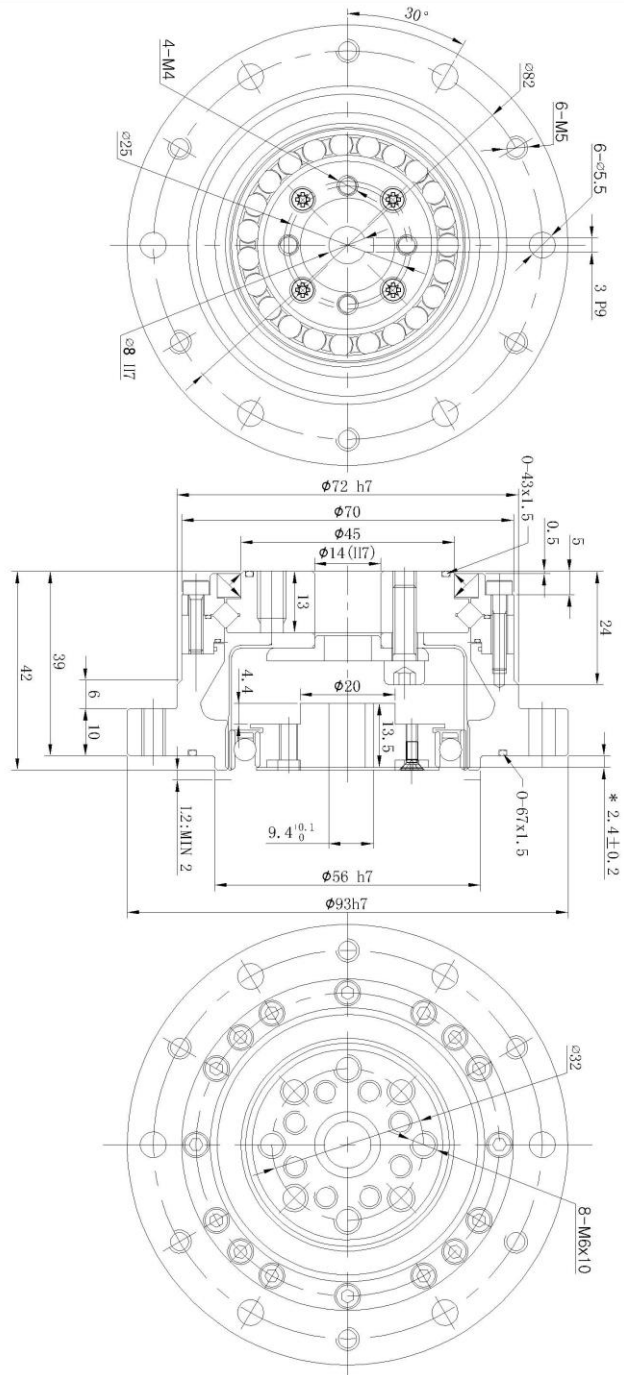


LCS-17-XXX-C-I

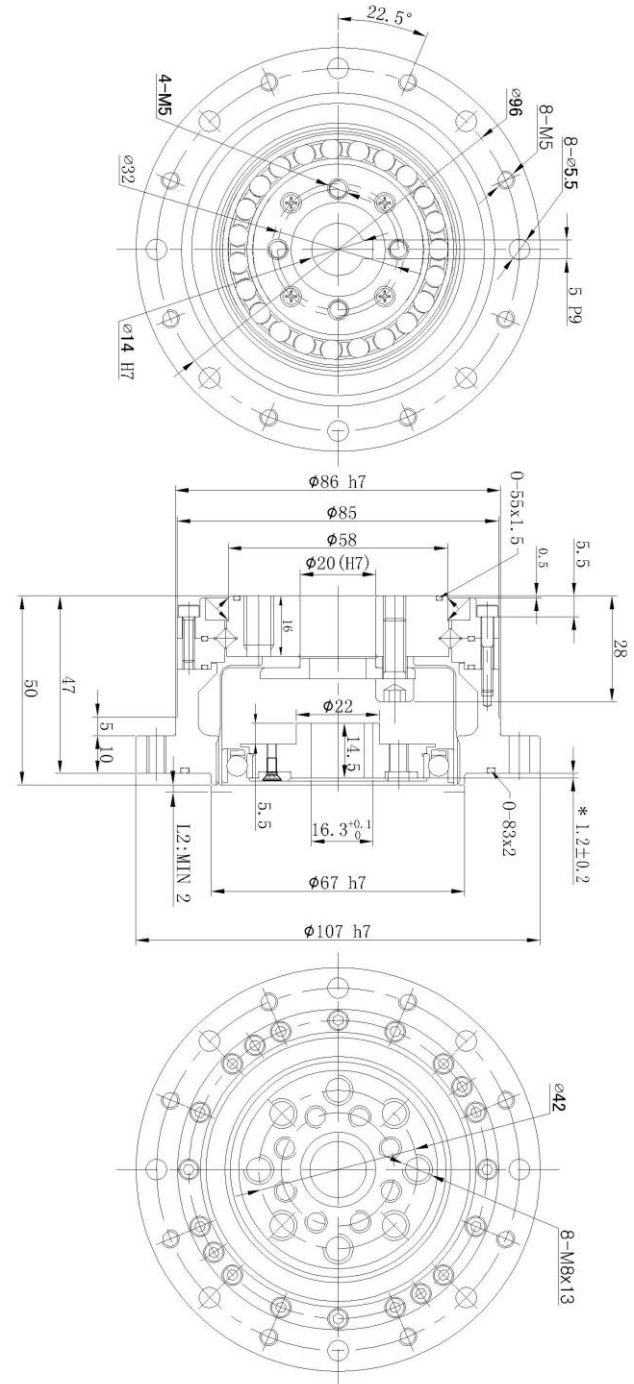


# LCS-I Series Drawings

LCS-20-XXX-C-I

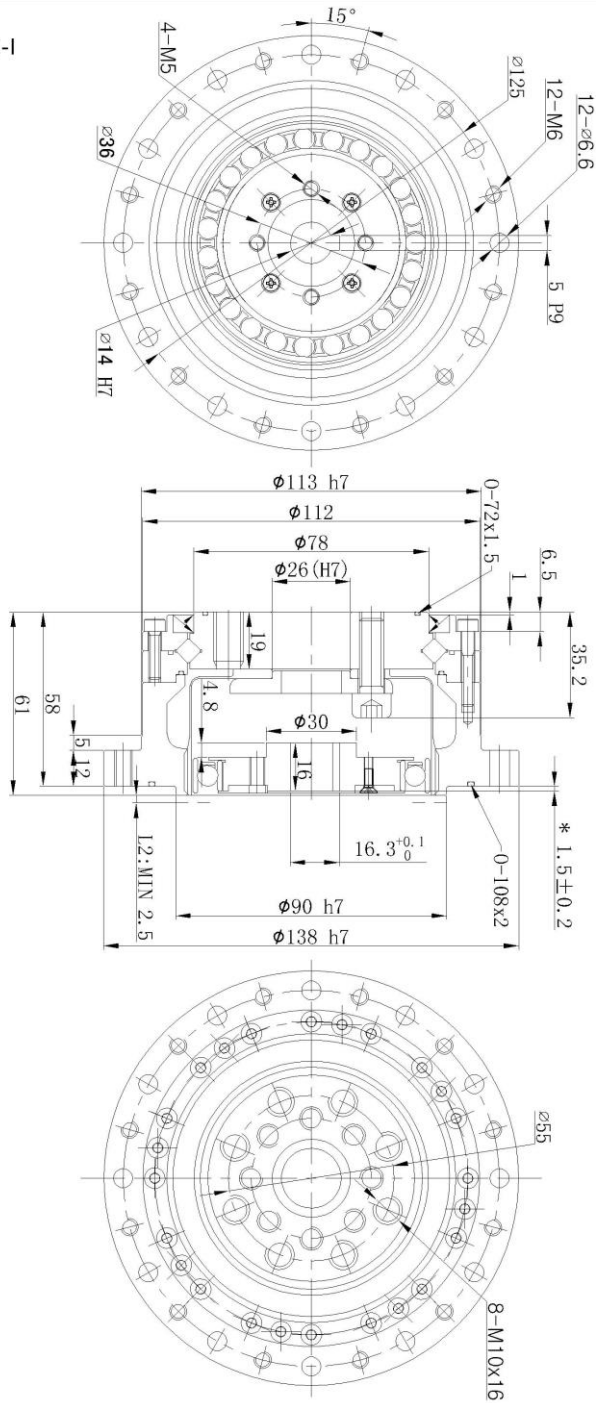


LCS-25-XXX-C-I

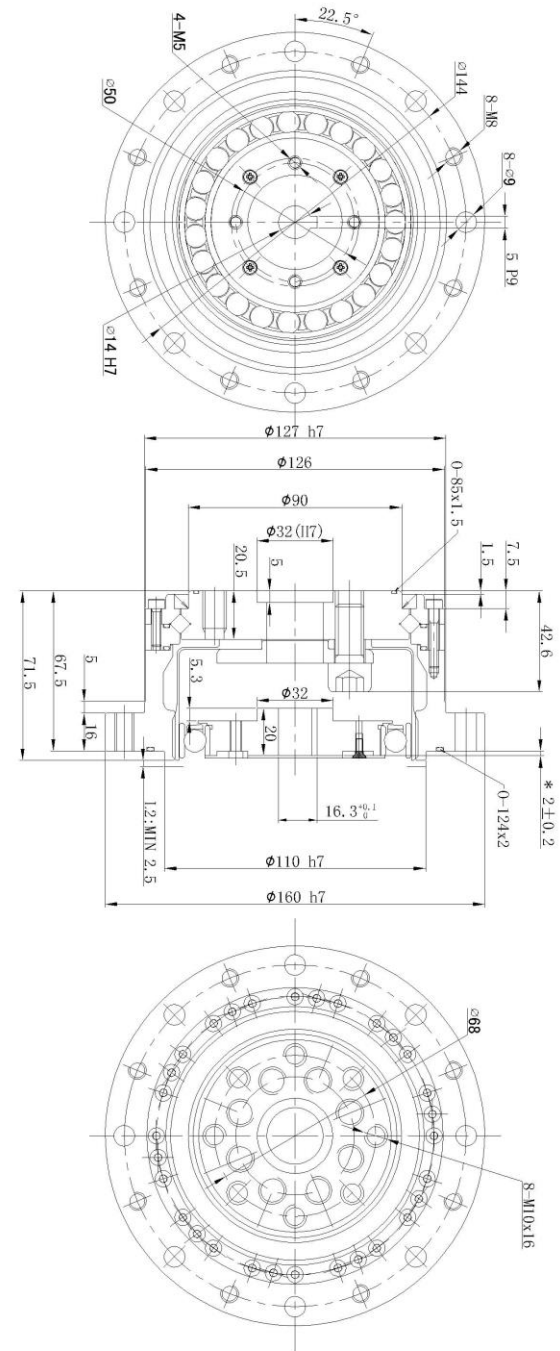


# LCS-I Series Drawings

LCS-32-XXX-C-I



LCS-40-XXX-C-I



## LCS-II series



For LCS-II series, their input shaft is connected with the inner hole of wave generator by double slider coupling.

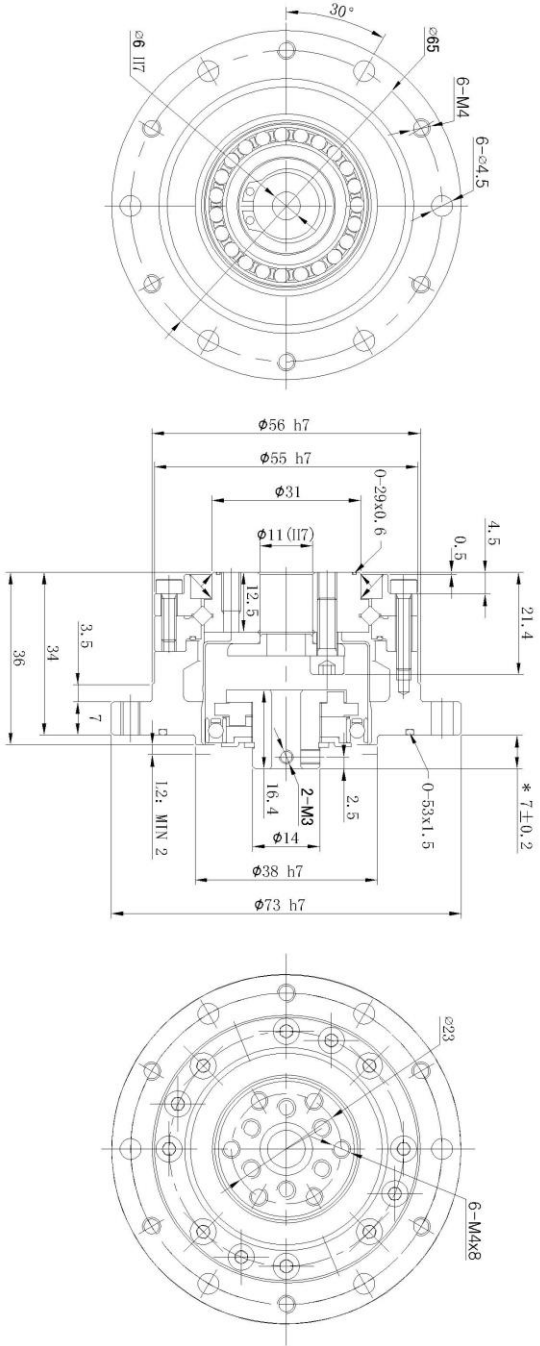
### Parameter Table

Item Model No	Reduction Ratio	Rated Torque at 2000r/min	Allowable Peak Torque at Start and Stop	Allowable Average Torque	Allowable Maximum Momentary Torque	Maximum Input Speed	Allowable Average Input Speed	Back lash	Weight	Design Life
		Nm	Nm	Nm	Nm	r/min	r/min	Arc sec	Kg	Hour
14	30	3.8	8.5	6.5	16	8000	3500	≤20	0.52	10000
	50	5.1	17.1	6.6	33			≤20		10000
	80	7.4	22	10.5	44			≤20		15000
	100	7.4	26	10.5	51			≤20		15000
17	30	8.4	15	11.5	28	7000	3500	≤20	0.69	10000
	50	15.2	32	25	66			≤20		10000
	80	21	41	26	83			≤20		15000
	100	23	51	37	103			≤20		15000
	120	23	51	37	82			≤20		15000
20	30	14	26	19	48	6000	3500	≤20	0.99	10000
	50	24	53	32	93			≤20		10000
	80	32	70	45	121			≤20		15000
	100	38	78	47	140			≤20		15000
	120	38	83	47	140			≤20		15000
25	160	38	87	47	140	5500	3500	≤20	1.48	15000
	30	26	48	36	90			≤20		10000
	50	37	93	52	177			≤20		10000
	80	60	130	83	242			≤20		15000
	100	64	149	103	270			≤20		15000
32	120	64	159	103	289	4500	3500	≤20	3.2	15000
	160	64	167	103	298			≤20		15000
	30	51	95	71	190			≤20		10000
	50	72	205	103	363			≤20		10000
	80	112	289	159	540			≤20		15000
40	100	130	316	205	615	4000	3000	≤20	5.0	15000
	120	130	335	205	652			≤20		15000
	160	130	353	205	652			≤20		15000
	50	130	382	186	652			≤20		10000
	80	196	493	270	931			≤20		15000
50*	100	252	540	353	1026	3000	2500	≤20	9.0	15000
	120	279	586	429	1121			≤20		15000
	160	279	615	429	1121			≤20		15000
	50	233	679	333	1358			≤20		10000
	80	353	894	493	1767			≤20		15000
58*	100	446	931	633	1957	3000	2200	≤10	14.8	15000
	120	503	1026	772	1957			≤10		15000
	160	503	1121	801	2327			≤10		15000
	80	522	1406	732	2328			≤10		15000
58*	100	661	1511	1007	3021	3000	2200	≤10	14.8	15000
	120	708	1634	1131	3164			≤10		15000
	160	708	1748	1150	3259			≤10		15000

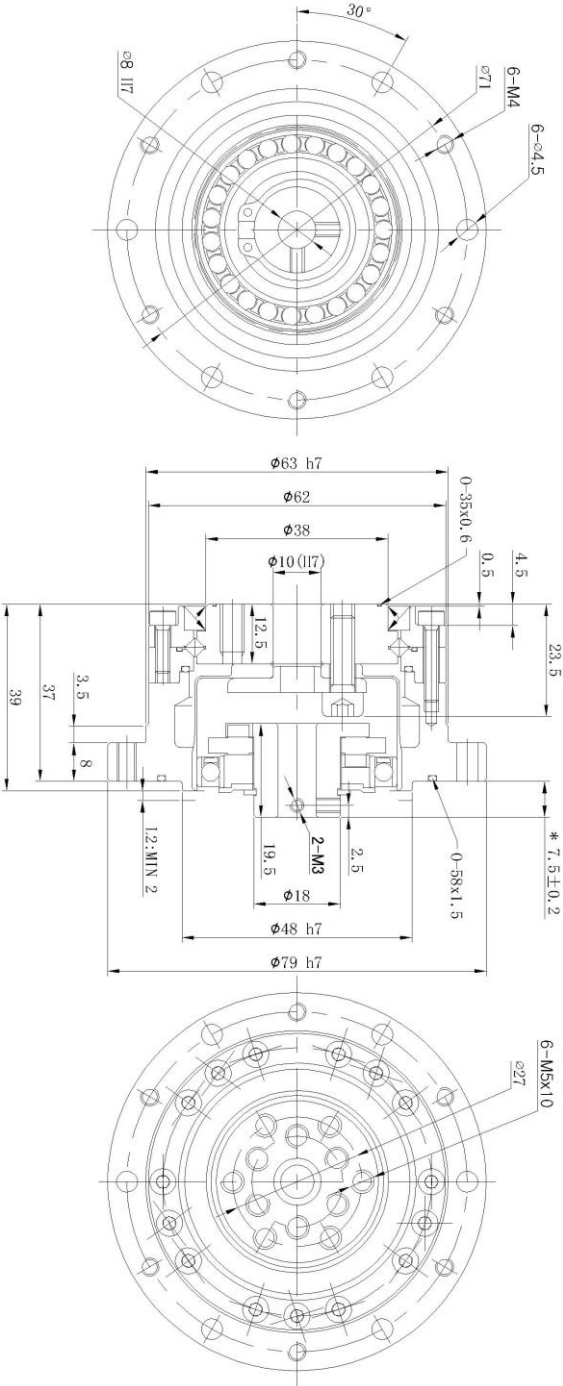
\* Consult factory

# LCS-II Series Drawings

LCS-14-XXX-C-II

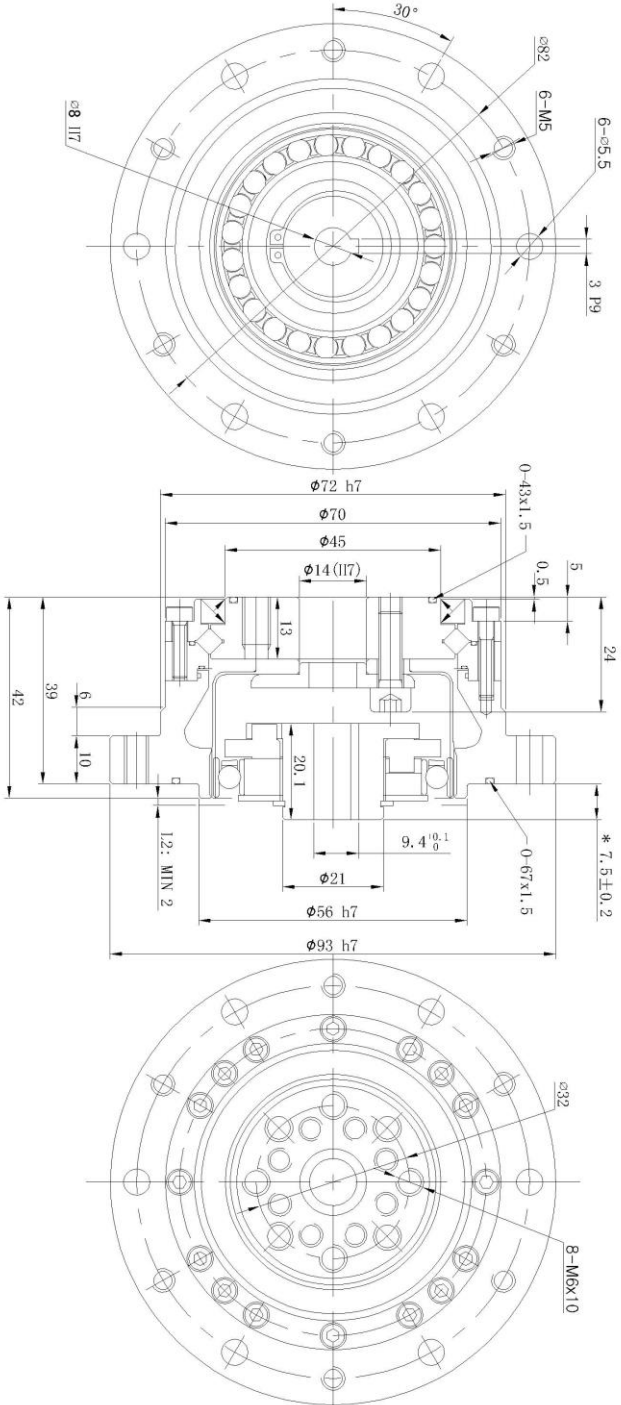


LCS-17-XXX-C-II

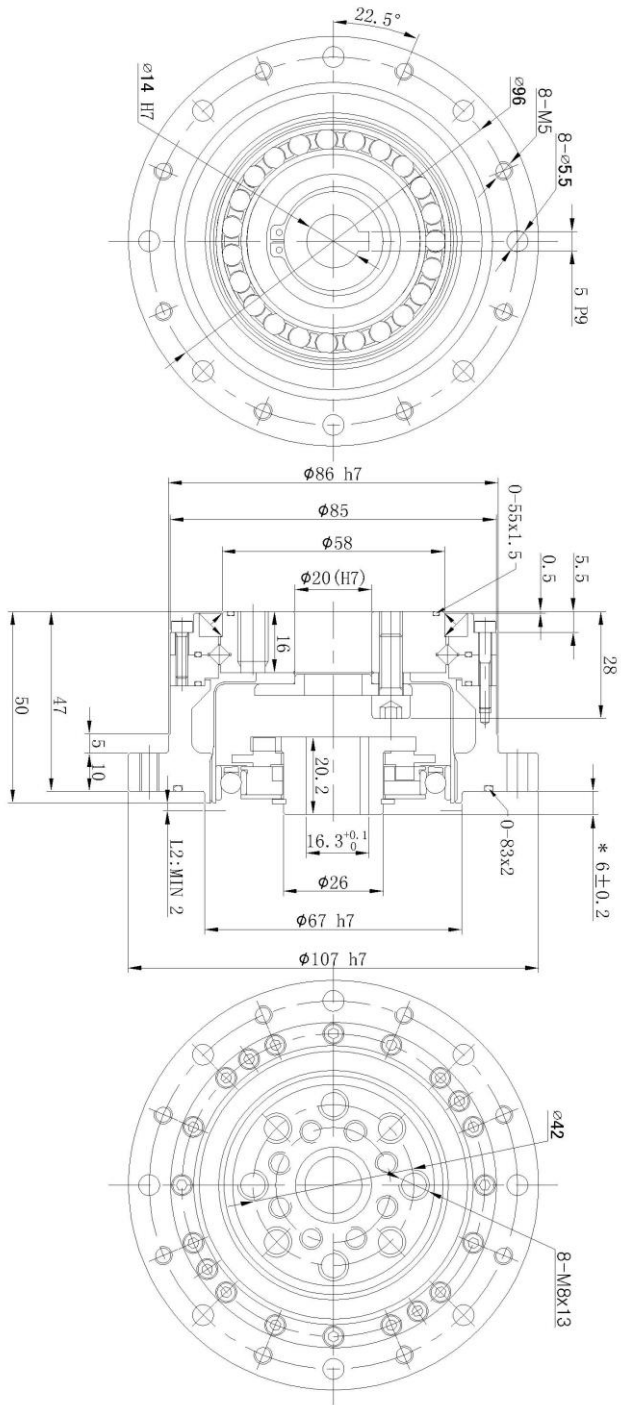


# LCS-II Series Drawings

LCS-20-XXX-C-II



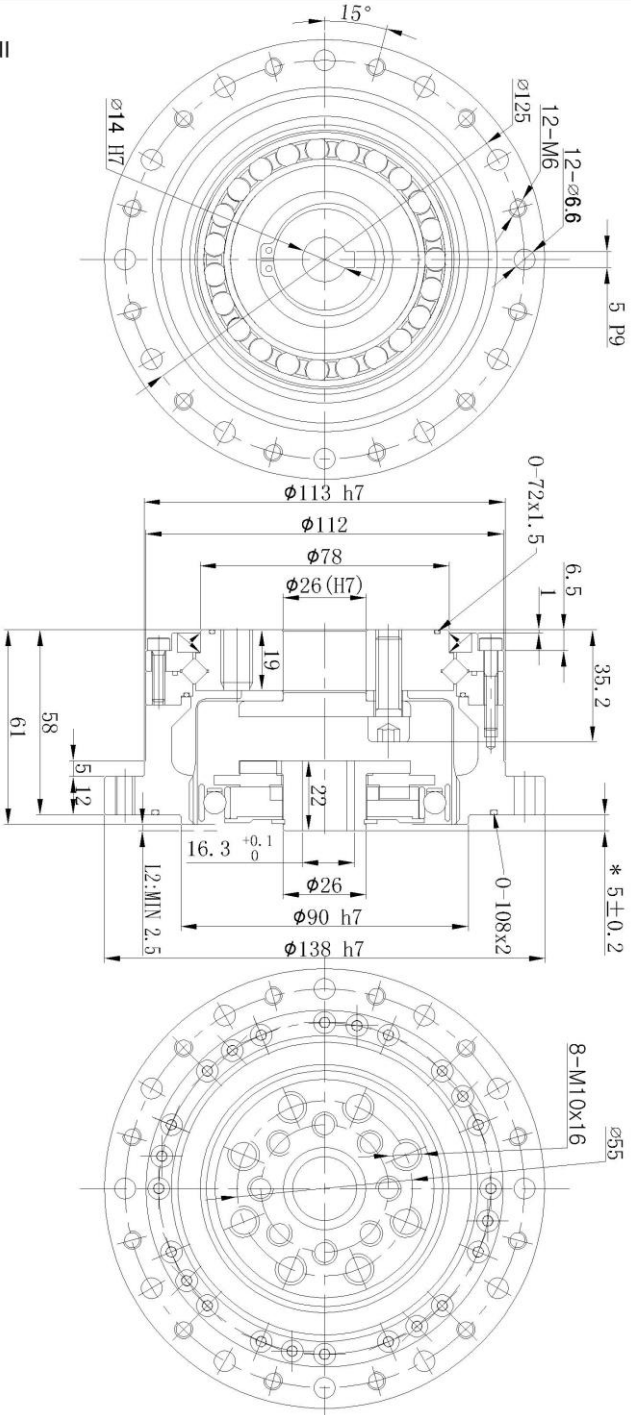
LCS-25-XXX-C-II





# LCS-II Series Drawings

LCS-32-XXX-C-II



LCS-40-XXX-C-II

