

苏州绿的谐波传动科技股份有限公司

Leader Harmonious Drive Systems Co.,Ltd

LHS Standard Hollow-Shaft Flexspline Strain Wave Gear

Product Introduction Manual



Leader Harmonious Drive Systems Co., Ltd TEL:0086-512-66362298/66560692

FAX :0086- 512-66362325 E-mail : sales@leaderdrive.com

Add: No. 19 Muxu west Road, Mudu, Suzhou, P.R. China

Postal Code: 215101 http://www.leaderdrive.com



NO. LD2019-1 Y

LHS-I series



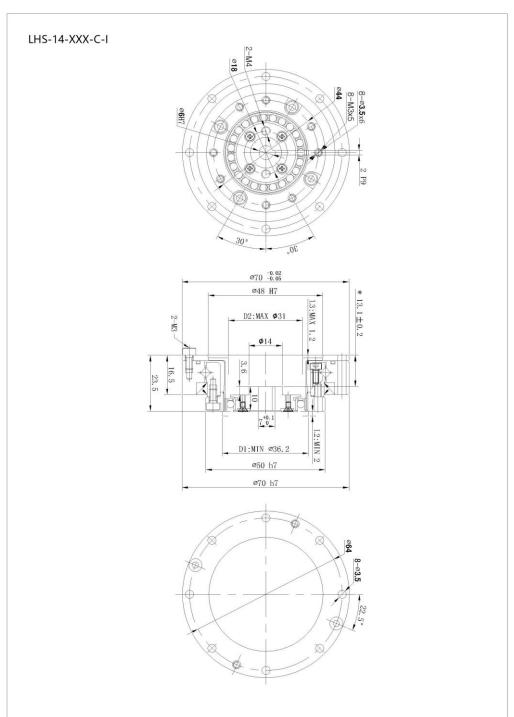
LHS-I series, which have a standard hollow and flange-shaped tube structure, are tight in structure. Their input shaft matches with the inner hole of wave transformer directly and are connected by flat key. Alternatively, they can be used with the rigid gear end fixed and the flexible gear end outputting, or with the flexible gear end fixed and the rigid gear end outputting.

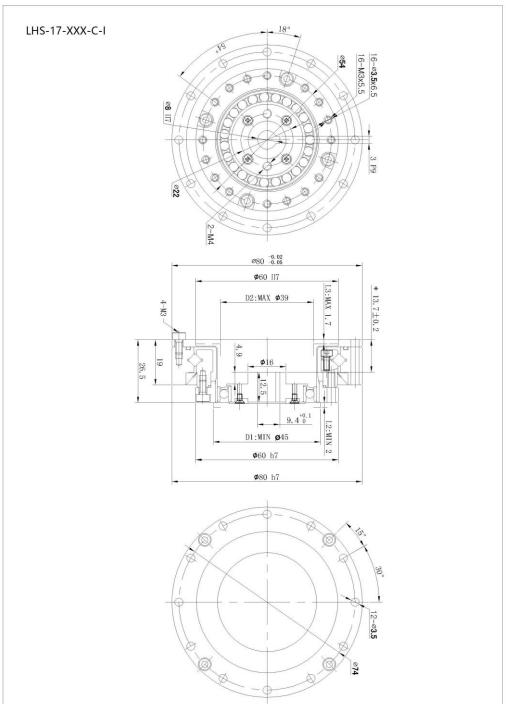


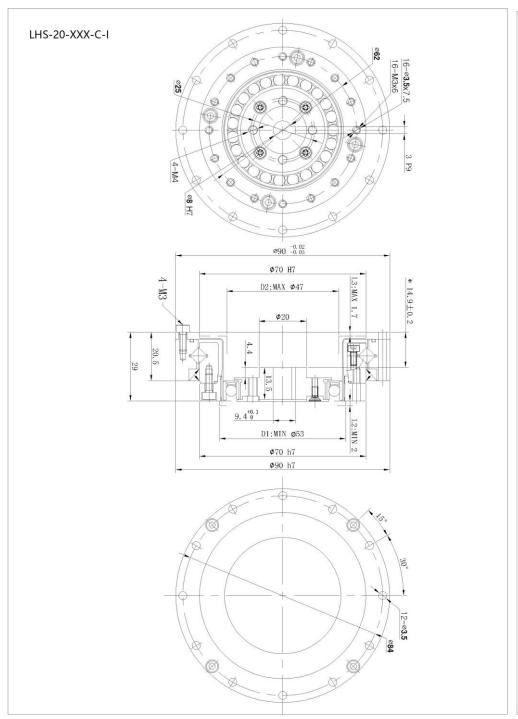
Parameter Table

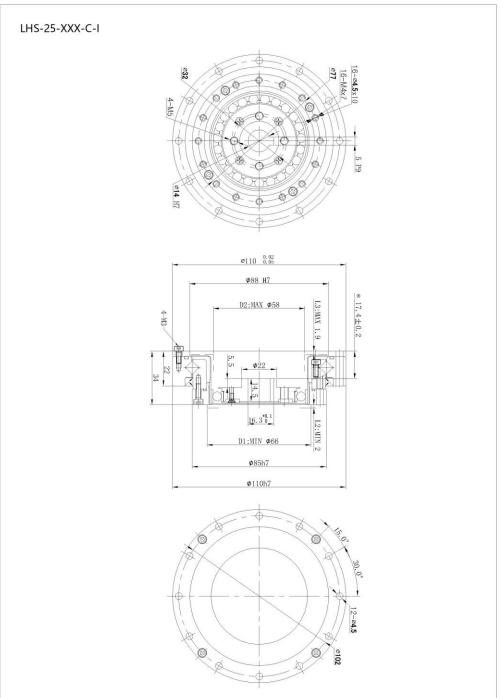
ltem	Reduction Ratio	Rated Torque at 2000r/min	Allowable Peak Torque at Start and Stop	Allowable Average Torque	Allowable Maximum Momentary Torque	Maximum Input Speed	Allowable Average Input Speed	Back lash	Weight	Design Life	
Model No		Nm	Nm	Nm	Nm	r/min	r/mln	Arc sec	Kg	Hour	
	30	3. 8	8. 6	7.8	16			≤20		10000	
14	50	5. 1	17	6.6	33	8000	3500	≤20	0.38	10000	
	80	7.4	22	10.5	45	3000	3300	€10		15000	
	100	7.4	27	10.5	51			€10		15000	
	30	8. 4	15. 2	11.5	29			≤20		10000	
	50	15. 2	32	25	66			≤20		10000	
17	80	21	41	26	83	7000	3500	≤10	0.56	15000	
	100	23	51	37	104			≤10		15000	
	120	23	51	37	82			≤10		15000	
	30	14	26	19	48			≤20		10000	
	50	24	53	32	93			≤20	0.76	10000	
20	80	32	70	45	121	6000	3500	≤10		15000	
	100	38	78	47	140			≤10		15000	
	120	38	83	47	140			≤10 ≤10		15000	
	160	38	87	47	140			≤10	1. 24	15000	
	30	26	48	36	90	5500		≤20		10000	
	50	37	93	52	177			≤20		10000	
25	80	60	130	83	242		3500	≤10		15000	
	100	64	149	103	270			≤10		15000	
	120	64	159	103	289			≤10		15000	
	160	64	167	103	298			≤10		15000	
	30	51	95	71	190			≤20	2.6	10000	
	50	72	205	103	363		3500	≤20		10000	
32	80	112	289	159	540			≤10		15000	
UZ.	100	130	316	205	615	4500	3300	€20	15000		
	120	130	335	205	652			€10		15000	
	160	130	353	205	652			≤10		15000	
	50	130	382	186	652				€20		10000
	80	196	493	270	931			≤10		15000	
40	100	252	540	353	1026	4000	3000	≤10	5. 0	15000	
	120	279	586	428	1121			≤10		15000	
	160	279	615	428	1121			≤10		15000	
	50	233	679	333	1358			≤20		10000	
	80	353	894	493	1767	1		≤10		15000	
50*	100	446	931	633	1957	3000	2500	≤10	9. 5	15000	
	120	502	1026	772	1957			≤10	9. 5	15000	
	160	502	1121	801	2328			≤10	1	15000	
	80	522	1406	732	2328			€10		15000	
13900	100	661	1511	1007	3021	12222	5500	≤10	100	15000	
58*	120	708	1634	1131	3164	3000	2200	≤10	13. 6	15000	
	160	708	1748	1150	3259	1		≤10		15000	

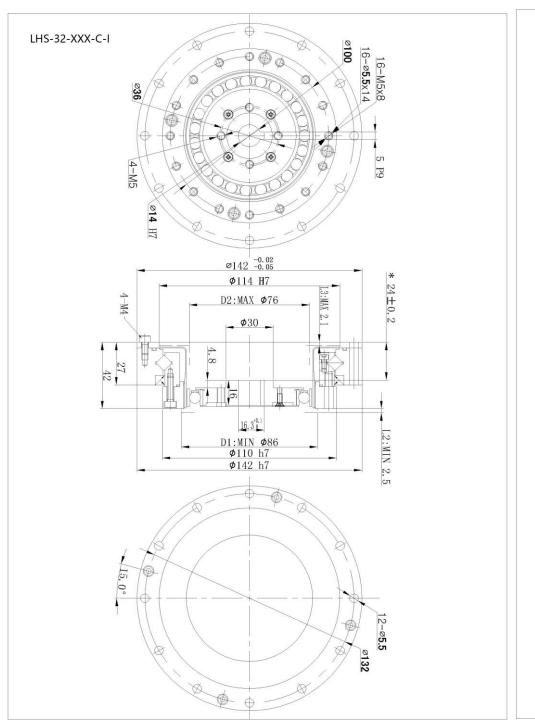
^{*} Consult factory

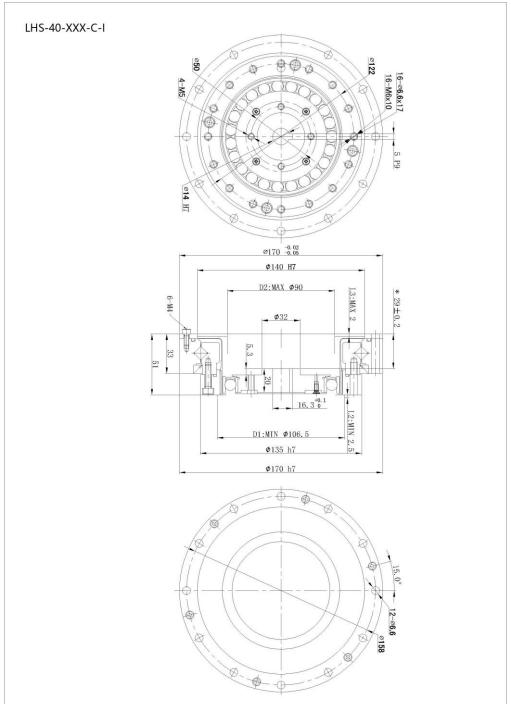












LHS-II series



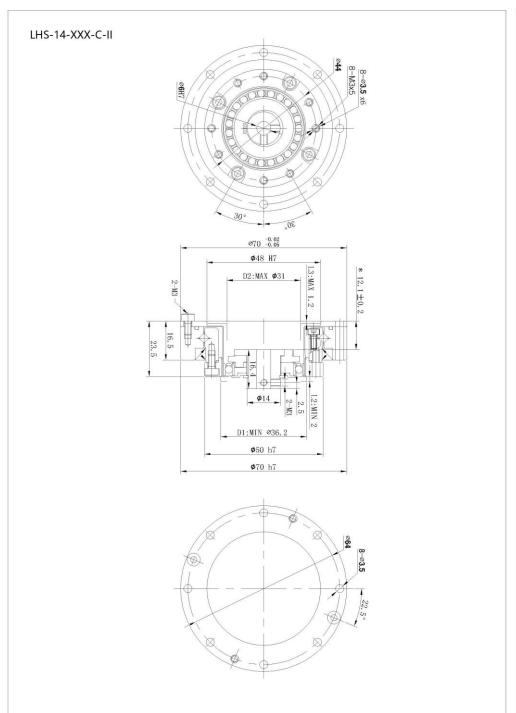
For LHS-II, their input shaft is connected with the inner hole of wave transformer through a double slider coupling.

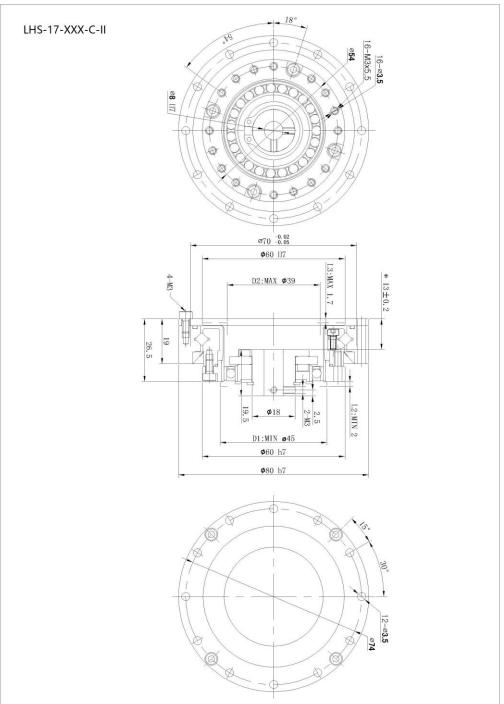


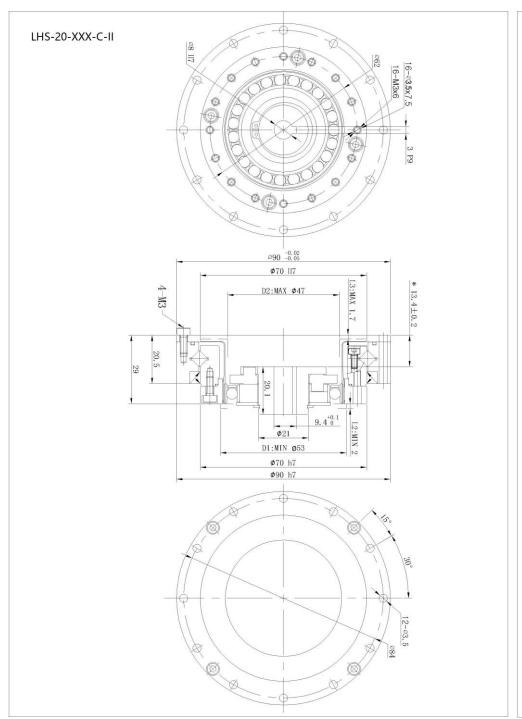
Parameter Table

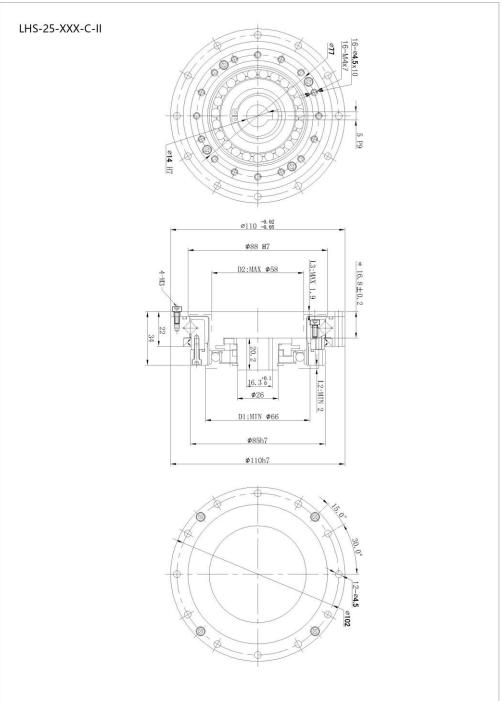
Item	Reduction Ratio	Rated Torque at 2000r/min	Allowable Peak Torque at Start and Stop	Allowable Average Torque	Allowable Maximum Momentary Torque	Maximum Input Speed	Allowable Average Input Speed	Back lash	Weight	Desigi Life
Model No		Nm	Nm	Nm	Nm	r/min	r/min	Arc sec	Kg	Hour
	30	3.8	8. 6	7. 8	16			€20		10000
14	50	5.1	17	6. 6	33	8000	3500	≤20	0. 38	10000
	80	7.4	22	10. 5	45			≤20		15000
	100	7.4	27	10. 5	51			≤20		15000
	30	8.4	15. 2	11.5	29			≤20		10000
	50	15. 2	32	25	66			≤20		10000
17	80	21	41	26	83	7000	3500	≤20	0.56	15000
	100	23	51	37	104			€20		15000
	120	23	51	37	82			≤20		15000
	30	14	26	19	48			€20	0.76	10000
	50	24	53	32	93			≤20		10000
20	80	32	70	45	121	6000	3500	≤20		15000
20	100	38	78	47	140	5000	3500	≤20		15000
	120	38	83	47	140			≤20		15000
	160	38	87	47	140			€20		15000
	30	26	48	36	90	5500		≤20	1. 24	10000
	50	37	93	52	177			≤20		10000
25	80	60	130	83	242		3500	€20		15000
20	100	64	149	103	270		3300	≤20		1500
	120	64	159	103	289			≤20		15000
	160	64	167	103	298			≤20		1500
	30	51	95	71	190	4500		≤20		10000
	50	72	205	103	363		3500	€20	2.6	10000
1221	80	112	289	159	540			€20		15000
32	100	130	316	205	615			€20		1500
	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		1500
40	100	252	540	353	1026	4000	3000	≤20	5.0	15000
	120	279	586	428	1121			€20		1500
	160	279	615	428	1121			≤20		1500
	50	233	679	333	1358			≤20		1000
	80	353	894	493	1767			≤20		1500
50*	100	446	931	633	1957	3000	2500	€20	9.5	1500
1000	120	502	1026	772	1957		-0.00	≤20	7.0	1500
	160	502	1121	801	2328			≤20		15000
	80	522	1406	732	2328			<20 ≤10		15000
	100	661	1511	1007	3021			≤10	1	1500
58*	120	708	1634	1131	3164	3000	2200	≤10	13. 6	15000
	160	708	1748	1150	3164			≤10 ≤10		15000

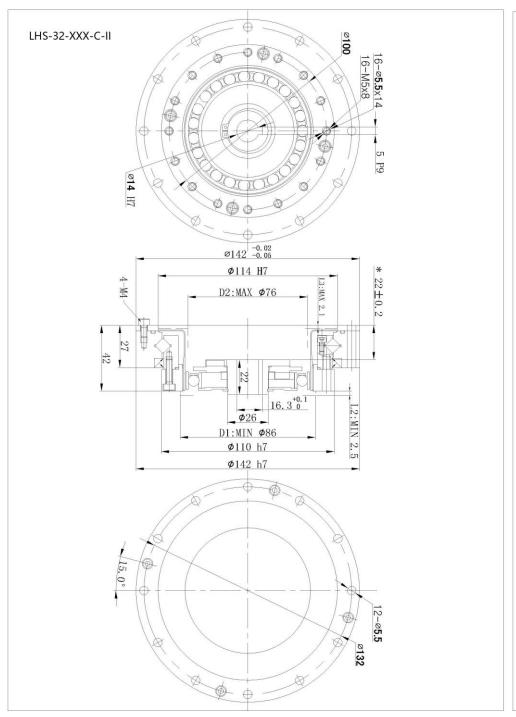
* Consult factory

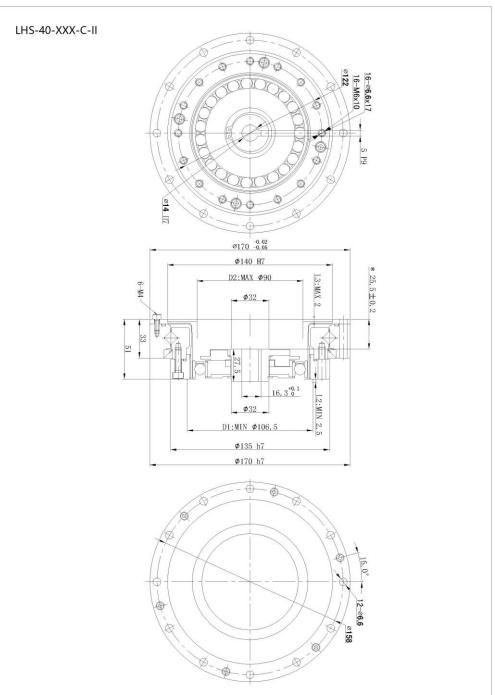












LHS-III series



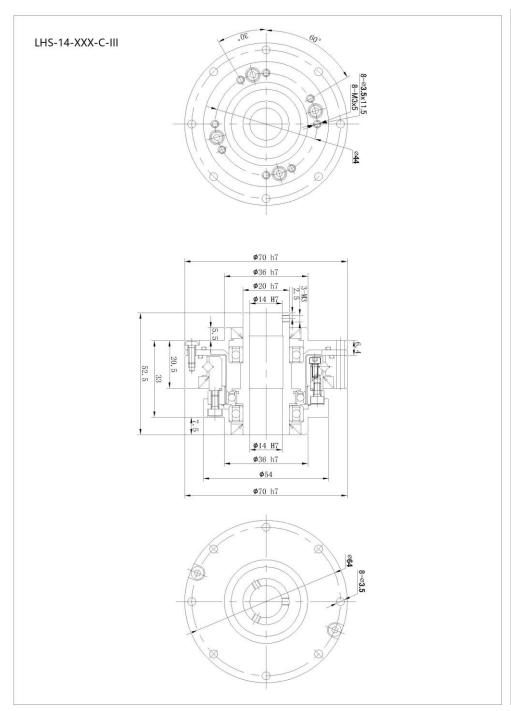
For LHS-III series, there is a large-aperture hollow shaft hole in the middle of the cam of their wave generator, and a supporting bearing designed inside reducer. Characterized by full-sealing structure and easy installation, the series are very suitable for the occasions where threading needs running through the center of reducer.

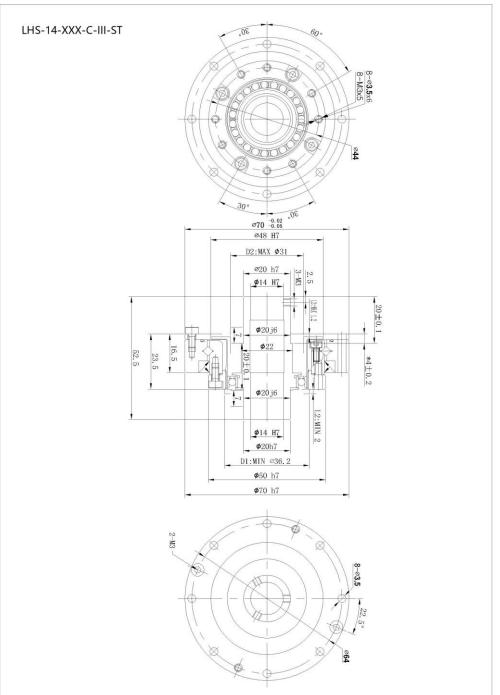


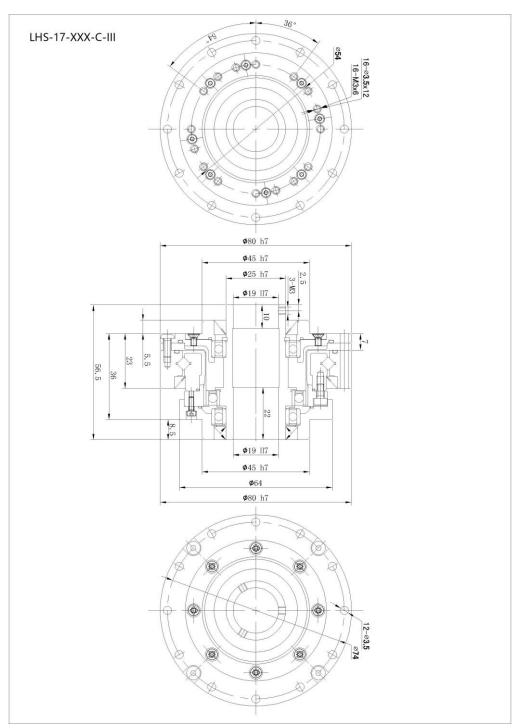
Parameter Table

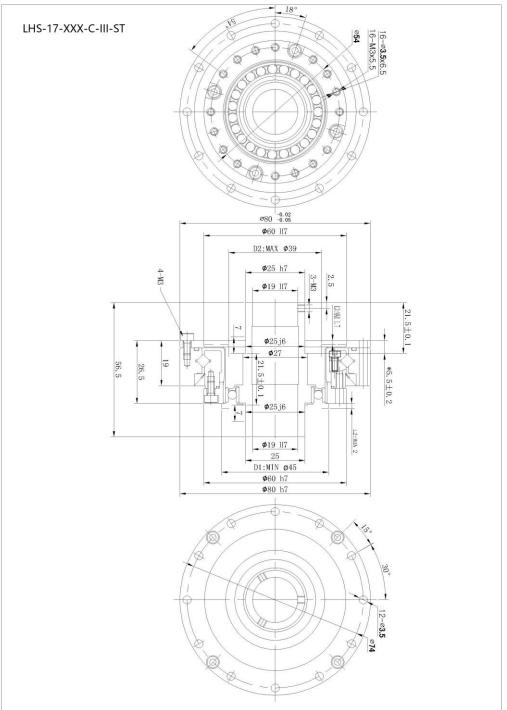
Model No	30 50 80	Nm 3, 8	Nm				Input Speed		Tension		
14	50			Nm	Nm	r/mln	r/min	Arc sec	N	Kg	Hour
14		3. 6	8. 6	7. 8	16			≤20			10000
_	PO.	5. 1	17	6. 6	33	8000	3500	€20	≤77	0. 72	10000
	80	7. 4	22	10. 5	45			≤10			15000
	100	7.4	27	10. 5	51			≤10			15000
_	30	8. 4	15. 2	11.5	29			≤20			10000
	50	15. 2	32	25	66		3	≤20		1000000	10000
17	80	21	41	26	83	7000	3500	≤10	≤92	1.0	15000
-	100	23	51	37	104			≤10			15000
	120	23	51	37	82			≤10		1	15000
-	30	14	26	19	48			≤20	-		10000
_	50	24	53	32	93			≤20	≤136	1.38	10000
20 —	80	32	70	45	121	6000	3500	≤10			15000
-	100	38	78	47	140			≤10			15000
_	120	38	83	47	140			≤10			15000
	160	38	87	47	140		≤10	50000			15000
-	30	26	48	36	90			€20			10000
-	50	37	93	52	177	-		€20			10000
25	80	60	130	83	242	5500	3500	≤10	≤147	2. 15	15000
-	100	64	149	103	270			≤10			15000
-	120	64	159	103	289			≤10			15000
-	160	64	167	103	298			≤10			15000
-	30	51	95	71	190		3500	€20	≤154	4, 3	10000
-	50	72	205	103	363	-		≤20			10000
32	80	112	289	159	540	4500		≤10			15000
-	100	130	316	205	615	- 25		≤10			15000
-	120	130	335	205	652			€10			15000
	160	130	353	205	652		-	≤10 <===			15000
_	50	130	382	186	652			≤20	-		10000
	80	196	493	270	931		2000	≤10		7. B	15000
40	100	252	540	353	1026	4000	3000	≤10	≤294	7.0	15000
_	120	279	586	428	1121			≤10			15000
	160	279	615	428	1121			≤10 <00			15000
-	50	233	679	333	1358		4	≤20			10000
50*	80	353	894	493	1767		0500	≤10	المسموس	14. 5	15000
30*	100	446	931	633	1957	3000	2500	≤10	≤373	14.0	15000
-	120	502	1026	772	1957		8	≤10			15000
	160	502	1121	801	2328		-	≤10 ≤10			15000
	80	678	1828	951	3026			≤10 <40			15000
58*	100	860	1964	1309	3927	3000	2200	≤10	≤1300	20. 0	15000
-	120	921 921	2124	1470	4113 4236			≤10 ≤10			15000

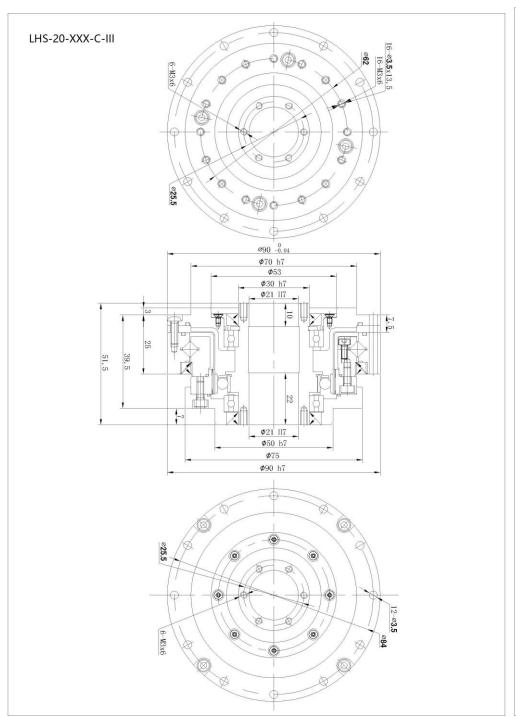
* Consult factory

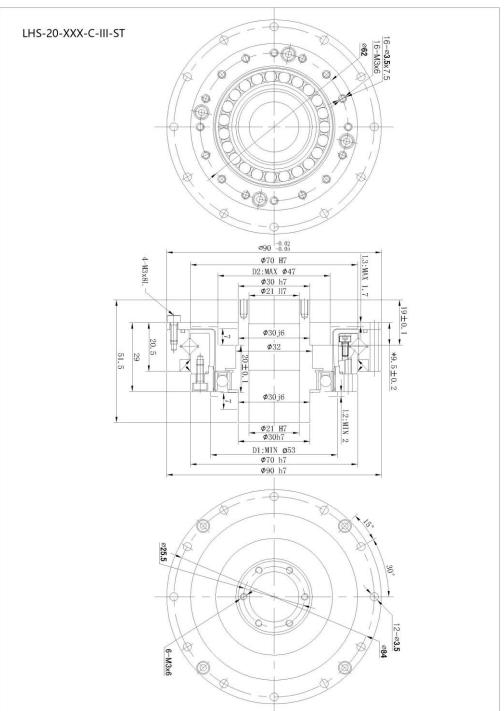


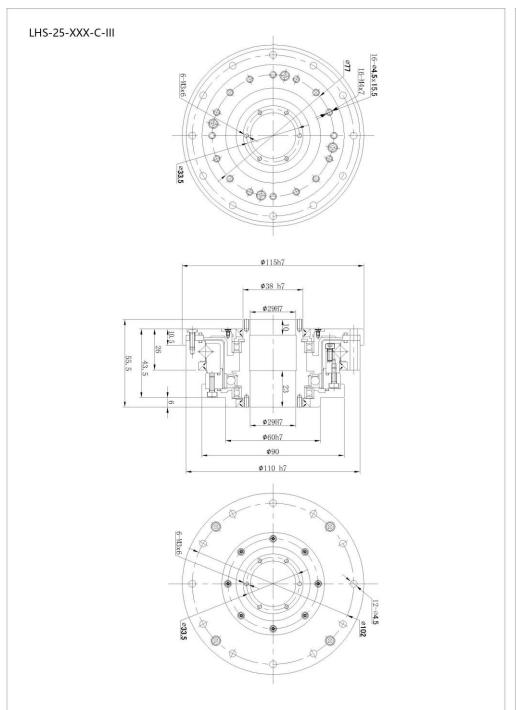


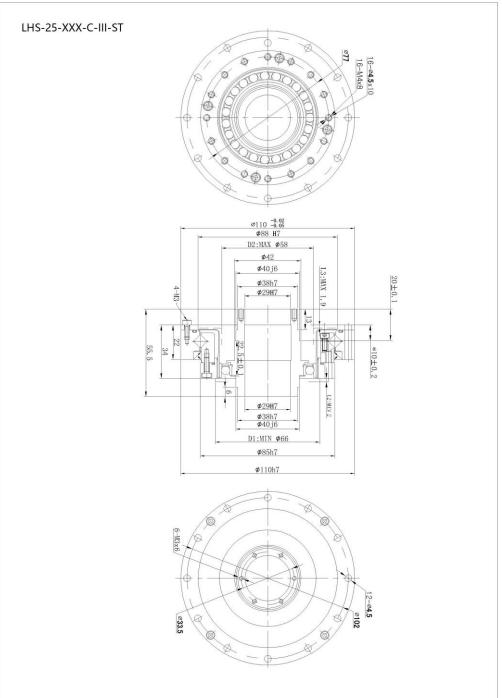


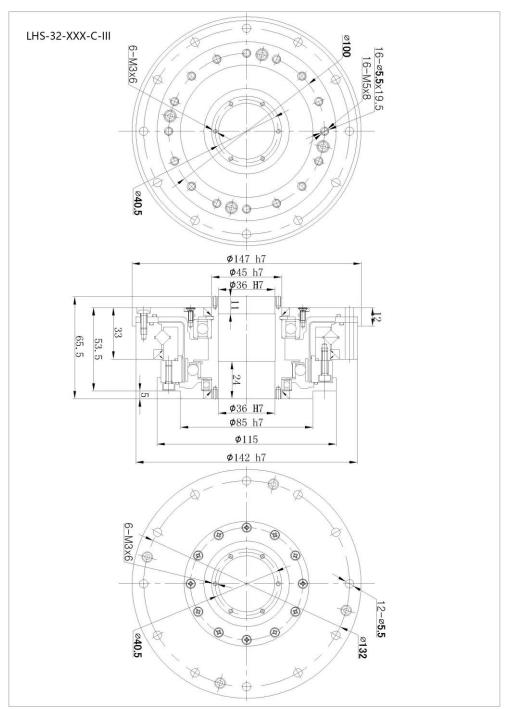


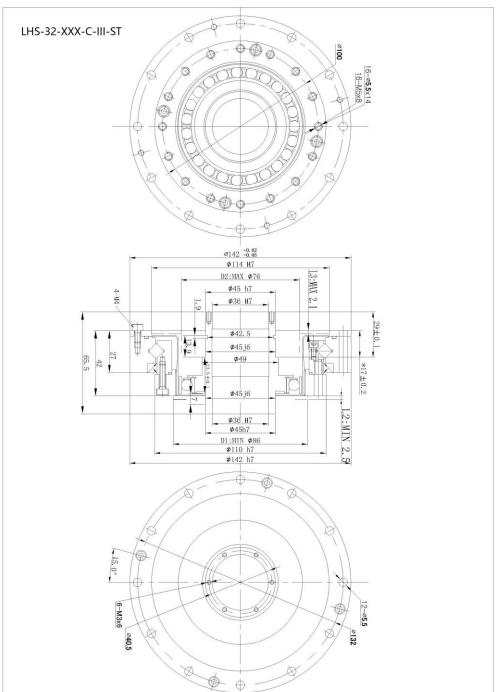


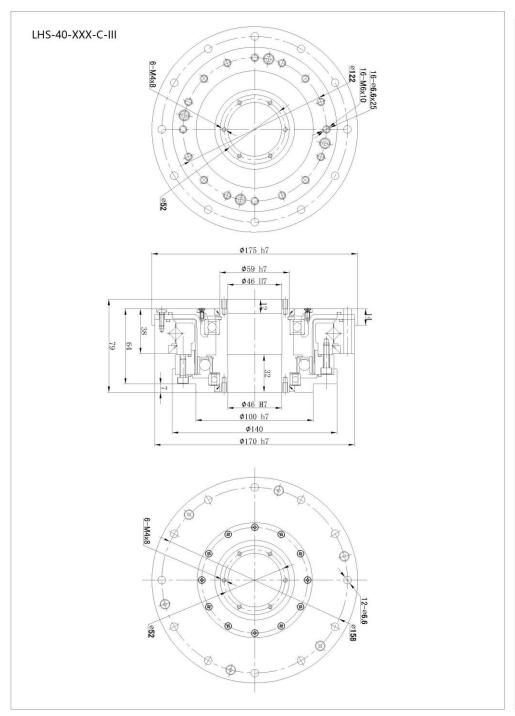


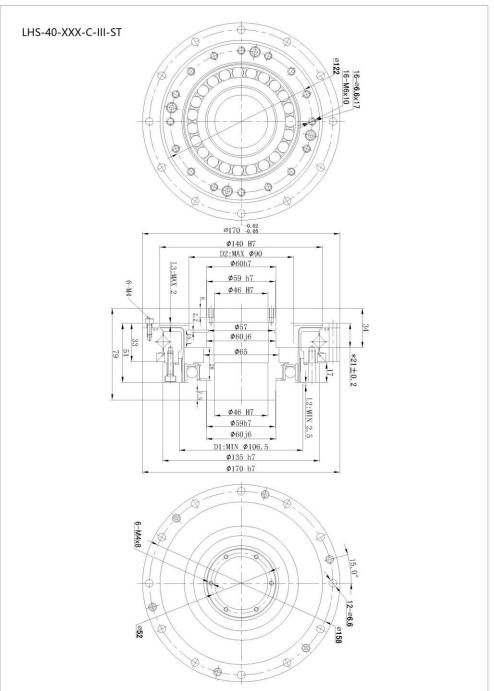












LHS-CL-III series



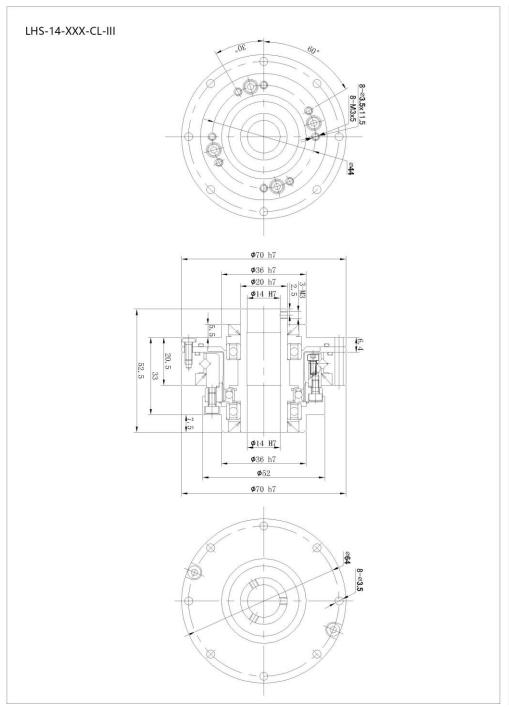
For LHS-CL-III series, there is a large-aperture hollow shaft hole in the middle of the cam of their wave generator, and a supporting bearing designed inside reducer. Characterized by full-sealing structure and easy installation, the series are very suitable for the occasions where threading needs running through the center of reducer.

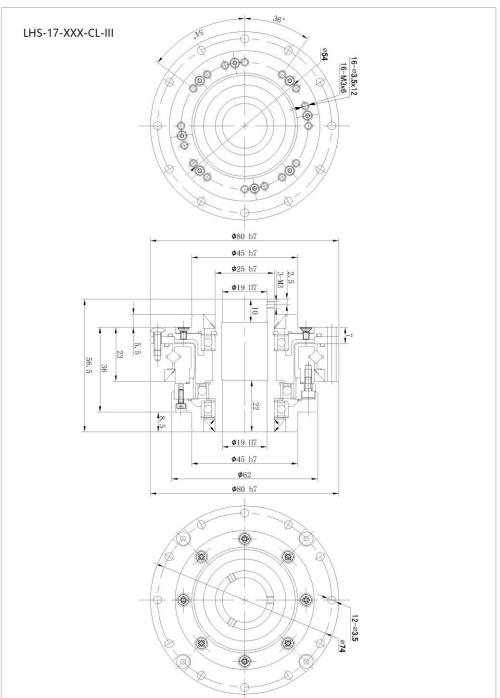


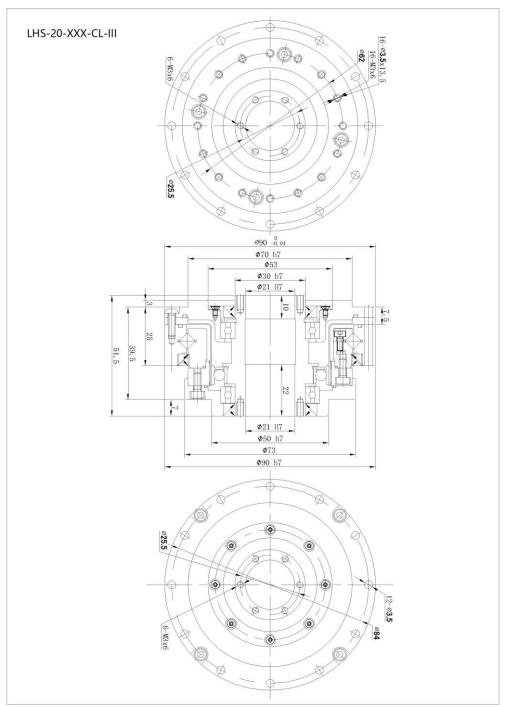
Parameter Table

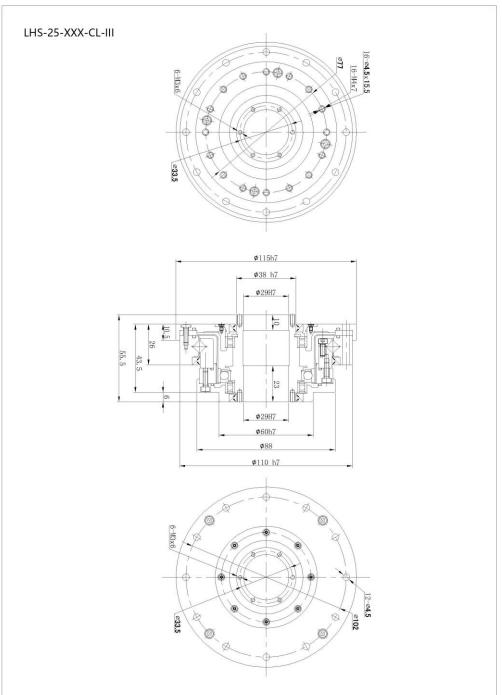
Item	Reduction Ratio	Rated Torque at 2000r/min	Allowable Peak Torque at Start and Stop	Allowable Average Torque	Allowable Maximum Momentary Torque	Maximum Input Speed	Allowable Average Input Speed	Back lash	With Maximum Tension	Weight	Design Life
Model No		Nm	Nm	Nm	Nm	r/min	r/min	Arc sec	N	Kg	Hour
	30	3.8	8. 6	7.8	16			≤20		7 0.56	10000
14	50	5.1	17	6. 6	33	8000	3500	€20	≤77		10000
	80	7.4	22	10.5	45			≤10		0.00	15000
	100	7. 4	27	10.5	51			≤10			15000
	30	8. 4	15. 2	11.5	29			≤20			10000
	50	15. 2	32	25	66			≤20			10000
17	80	21	41	26	83	7000	3500	≤10	≤92	0.80	15000
	100	23	51	37	104			≤10			15000
	120	23	51	37	82			€10			15000
	30	14	26	19	48			≤20			10000
	50	24	53	32	93		3500	≤20		1.09	10000
20	80	32	70	45	121	6000		≤10	≤136		15000
20	100	38	78	47	140		3500	≤10	~130		15000
	120	38	83	47	140			≤10			15000
	160	38	87	47	140			≤10			15000
	30	26	48	36	90	5500	≤20 ≤20 ≤10 ≤10	≤20			10000
	50	37	93	52	177				1.70	10000	
25	80	60	130	83	242			≤147		15000	
25	100	64	149	103	270			≤10	4147	1.70	15000
	120	64	159	103	289			≤10			15000
	160	64	167	103	298			≤10	1		15000
	30	51	95	71	190	4500		≤20	≤154	3. 50	10000
	50	72	205	103	363		3500	≤20			10000
	80	112	289	159	540			≤10			15000
32	100	130	316	205	615			≤10			15000
	120	130	335	205	652			≤10	-		15000
	160	130	353	205	652			≤10	1		15000
	50	130	382	186	652			€20			10000
	80	196	493	270	931			≤10	≤294		15000
40	100	252	540	353	1026	4000	3000	≤10		6. 35	15000
	120	279	586	428	1121	700(5:5)		≤10	1		15000
	160	279	615	428	1121			≤10			15000
	50	233	679	333	1358			≤20			10000
	80	353	894	493	1767			≤10			15000
50*	100	446	931	633	1957	3000	2500	≤10	≤373	12. 0	15000
	120	502	1026	772	1957	Springly collect		≤10	A You charactering	1 construction	15000
	160	502	1121	801	2328			≤10 ≤10			15000
	80	678	1828	951	3026			<10 ≤10			15000
	100	860	1964	1309	3927	A SAMOON COLOR		≪10 ≪10	ADVADAGE CHICKES	6780847776777	15000
58*	120	921	2124	1470	4113	3000	2200	≪10 ≪10	≤1300	16. 5	15000
	160	921	2124	1494	4113			≤10 ≤10			15000

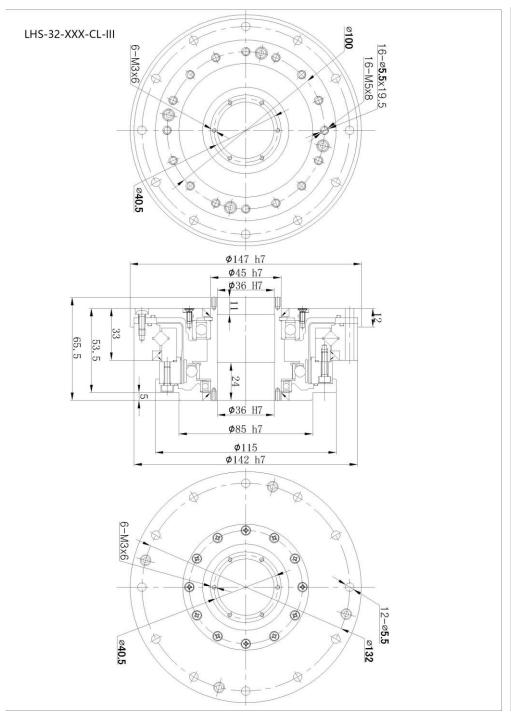
* Consult factory

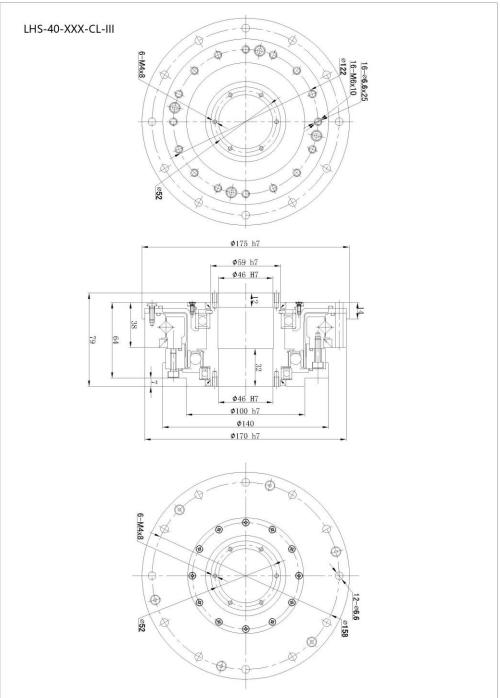












LHS-IV series



For LHS-IV series, the cam of their wave generator is provided with an input shaft; therefore, the series are very suitable for occasions where bevel gear or synchronous belt drive is needed at the input end.



Parameter Table

Item	Reduction Ratio	Rated Torque at 2000 r/ min	Allowable Peak Torque at Start and Stop	Allowable Average Torque	Allowable Maximum Momentary Torque	Maximum Input Speed	Allowable Average Input Speed	Back lash	With Maximum Tension	Weight	Design Life
Model No		Nm	Nm	Nm	Nm	r/min	r/min	Arc sec	N	Kg	Hour
	30	3.8	8. 6	7. 8	16			≤20			10000
14	50	5. 1	17	6.6	33	8000	3500	≤20	≤26	0.65	10000
16031	80	7.4	22	10. 5	45	173,000		€10	175750	40.00	15000
	100	7.4	27	10. 5	51	ra .		≤10			15000
	30	8.4	15. 2	11.5	29			≤20			10000
	50	15. 2	32	25	66	7000	3500	≤20			10000
17	80	21	41	26	83			≤10	≤32	0. 92	15000
	100	23	51	37	104			≤10			15000
	120	23	51	37	82			≤10			15000
	30	14	26	19	48	- 6000 3500		≤20			10000
	50	24	53	32	93		≤20			1000	
00	80	32	70	45	121		0500	≤10	≤58	1, 36	15000
20	100	38	78	47	140		3000	≤10		1. 30	1500
	120	38	83	47	140			≤10			15000
	160	38	87	47	140			≤10			1500
	30	26	48	36	90		3500	≤20	≤71		1000
	50	37	93	52	177	5500		≤20			10000
	80	60	130	83	242			€10		2.05	1500
25	100	64	149	103	270			≤10			15000
	120	64	159	103	289			€10			15000
	160	64	167	103	298			≤10			15000
	30	51	95	71	190			€20			10000
	50	72	205	103	363	National Control		≤20	≤114		1000
1222	80	112	289	159	540		8020	≤10			1500
32	100	130	316	205	615	4500	3500	≤10		4. 35	1500
	120	130	335	205	652			≤10	1		15000
	160	130	353	205	652			€10			15000
	50	130	382	186	652			≤20	≤294		10000
	80	196	493	270	931			≤10			15000
40	100	252	540	353	1026	4000	3000	≤10		6. 45	15000
	120	279	586	428	1121			€10		- ANTENNA	15000
	160	279	615	428	1121	1		≤10	1		15000

