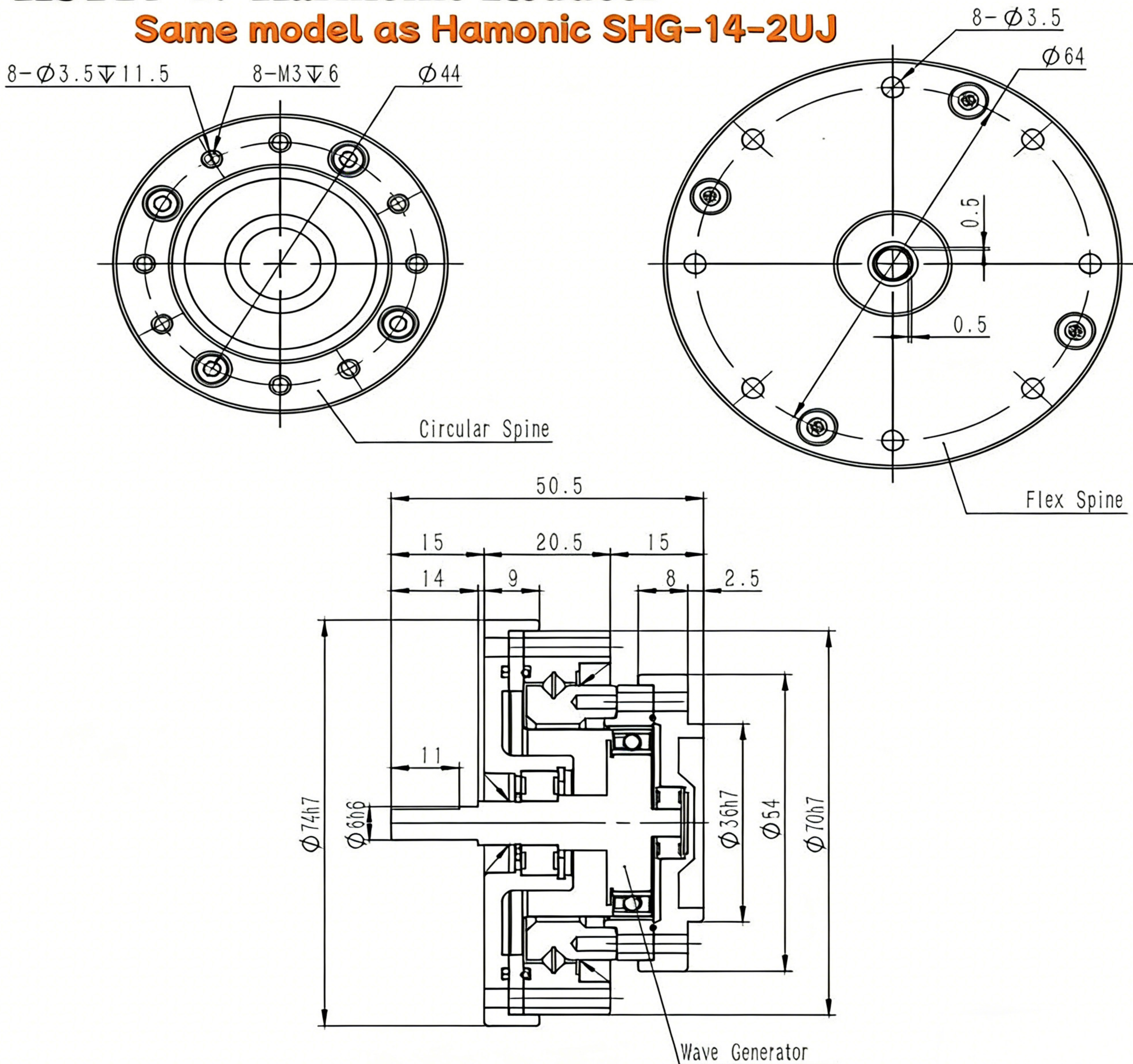


Input Shaft Type Harmonic Drive Rated Parameter

Model	Reduction ratio	Rated torque at 2000r/min input		Permissible peak torque at start and stop		Permissible maximum value for average load torque		Permissible maximum momentary torque		Permissible maximum input rotational speed (Grease)	Permissible average input rotational speed (Grease)	Backlash	Desian life
		Nm	kgfm	Nm	kgfm	Nm	kgfm	Nm	kgfm	r/min	r/min	Arc Sec	Hour
14	50	5.4	0.55	18	1.8	6.9	0.70	35	3.6	8500	3500	≤20	10000
	80	7.8	0.80	23	2.4	11	1.1	47	4.8				15000
	100	7.8	0.80	28	2.9	11	1.1	54	5.5				15000
	120	7.8	0.80	28	2.9	11	1.1	54	5.5				15000
17	50	16	1.6	34	3.5	26	2.6	70	7.1	7300	3500	≤20	10000
	80	22	2.2	43	4.4	27	2.7	87	8.9				15000
	100	24	2.4	54	5.5	39	4.0	110	11				15000
	120	24	2.4	54	5.5	39	4.0	86	8.8				15000
20	50	25	2.5	56	5.7	34	3.5	98	10	6500	3500	≤20	10000
	80	34	3.5	74	7.5	47	4.8	127	13				15000
	100	40	4.1	82	8.4	49	5.0	147	15				15000
	120	40	4.1	87	8.9	49	5.0	147	15				15000
	160	40	4.1	92	9.4	49	5.0	147	15				15000
25	50	39	4.0	98	10	55	5.6	186	19	5600	3500	≤20	10000
	80	63	6.4	137	14	87	8.9	255	26				15000
	100	67	6.8	157	16	108	11	284	29				15000
	120	67	6.8	167	17	108	11	304	31				15000
32	50	76	7.8	216	22	108	11	382	39	4800	3500	≤20	10000
	80	118	12	304	31	167	17	568	58				15000
	100	137	14	333	34	216	22	647	66				15000
	120	137	14	353	36	216	22	686	70				15000
40	50	137	14	402	41	196	20	686	70	4000	3000	≤20	10000
	80	206	21	519	53	284	29	980	100				15000
	100	265	27	568	58	372	38	1080	110				15000
	120	294	30	617	63	451	46	1180	120				15000

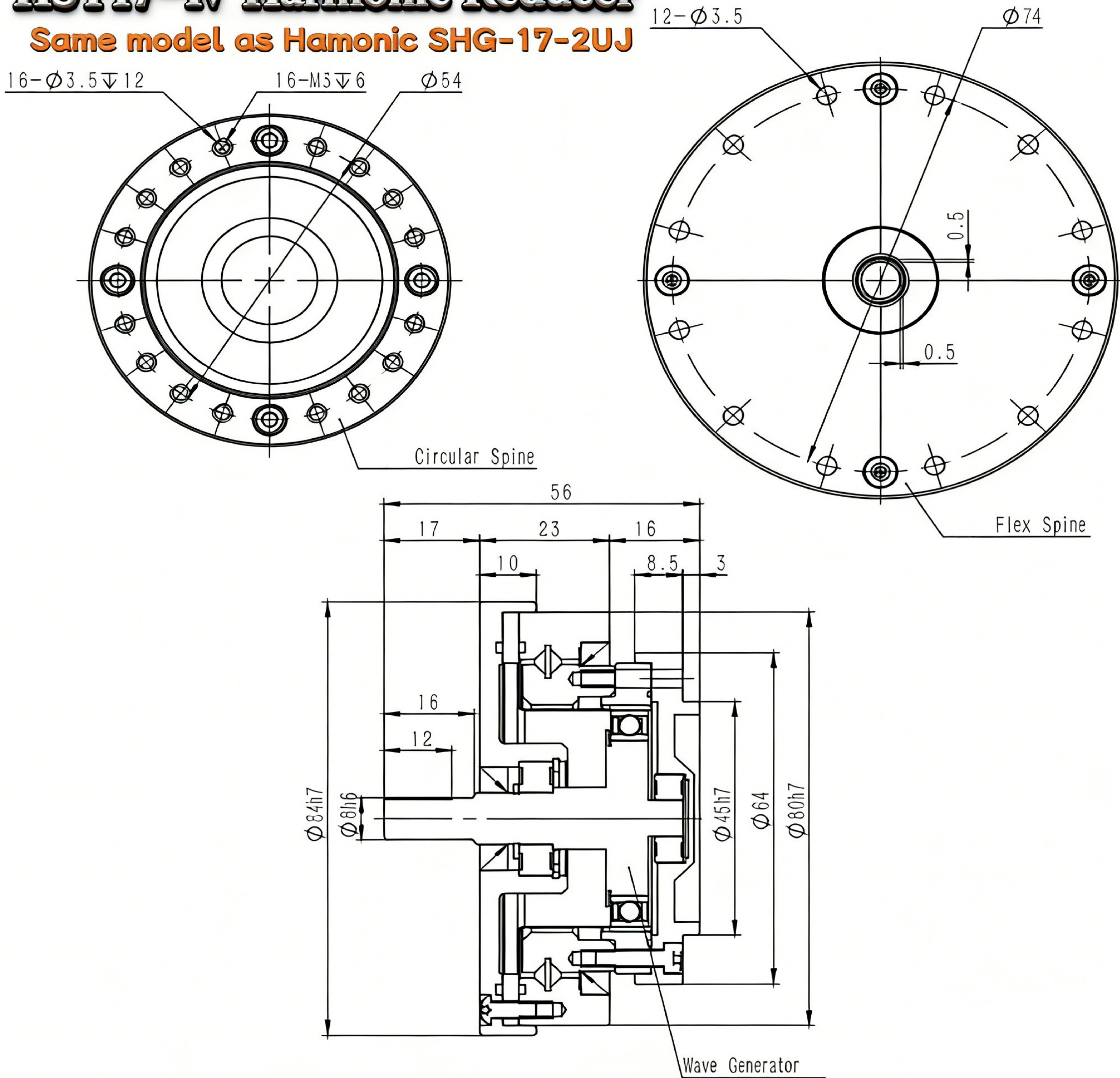
HST14-IV Harmonic Reducer

Same model as Hamonic SHG-14-2UJ



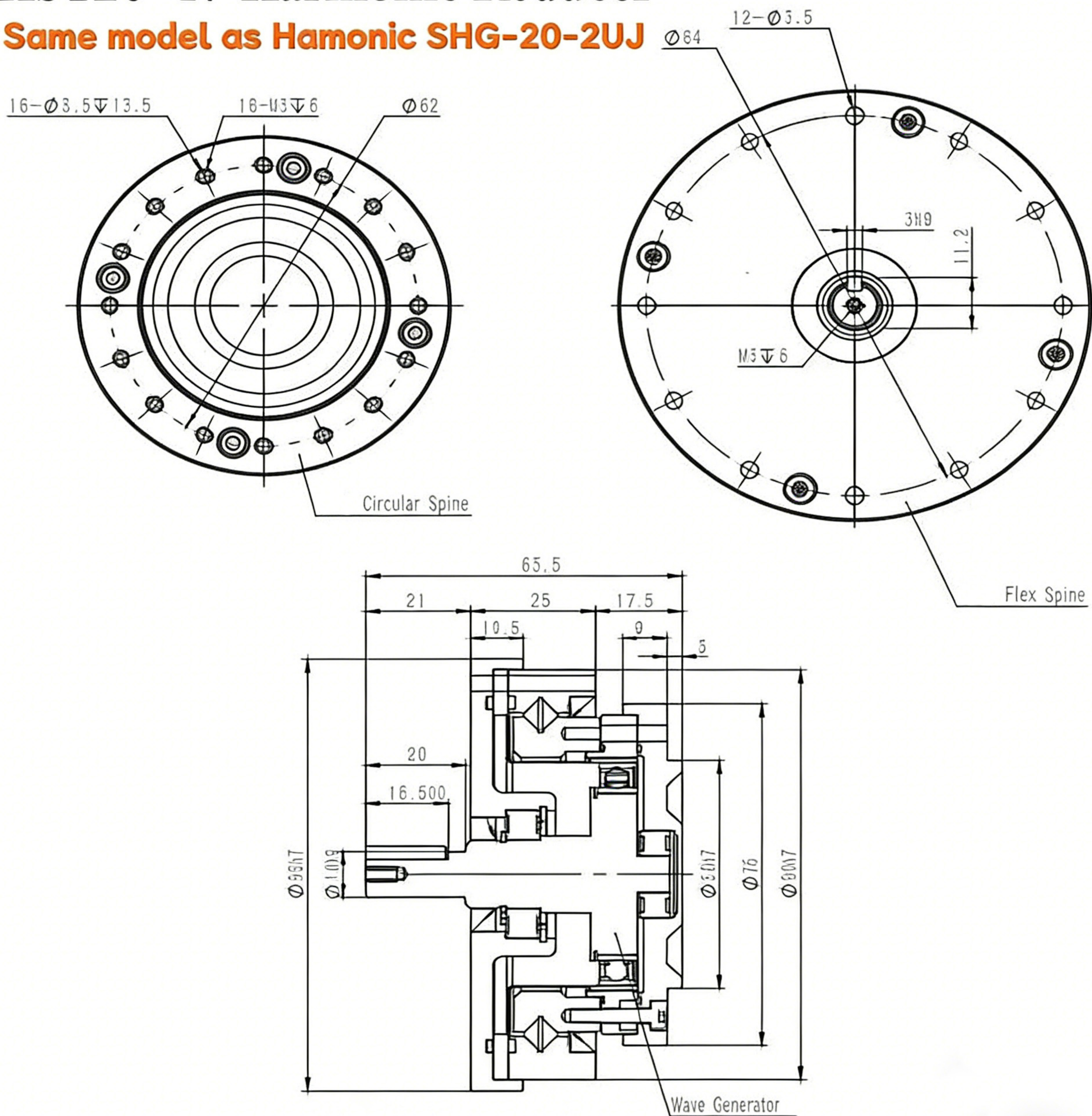
HST17-IV Harmonic Reducer

Same model as Hamonic SHG-17-2UJ



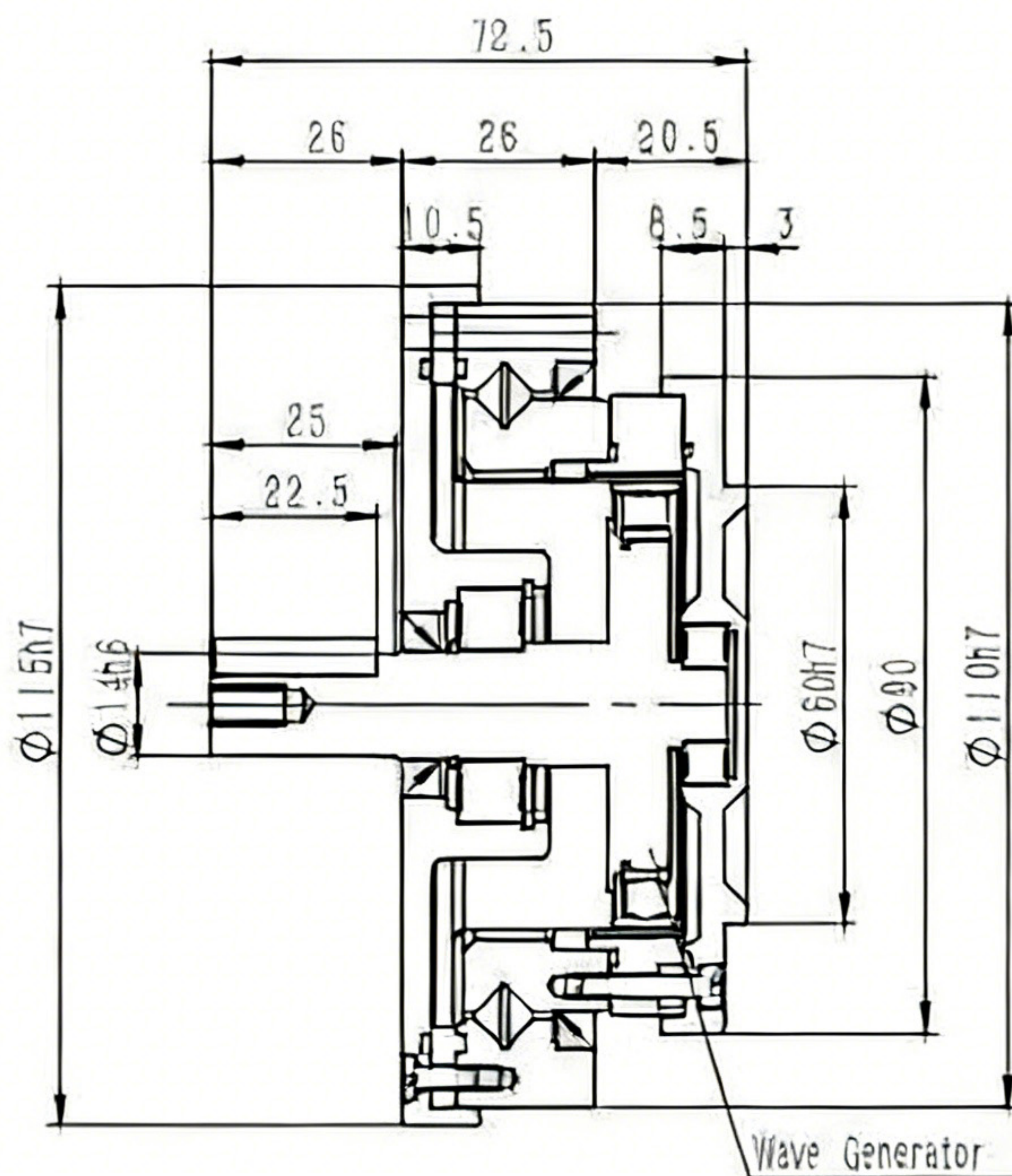
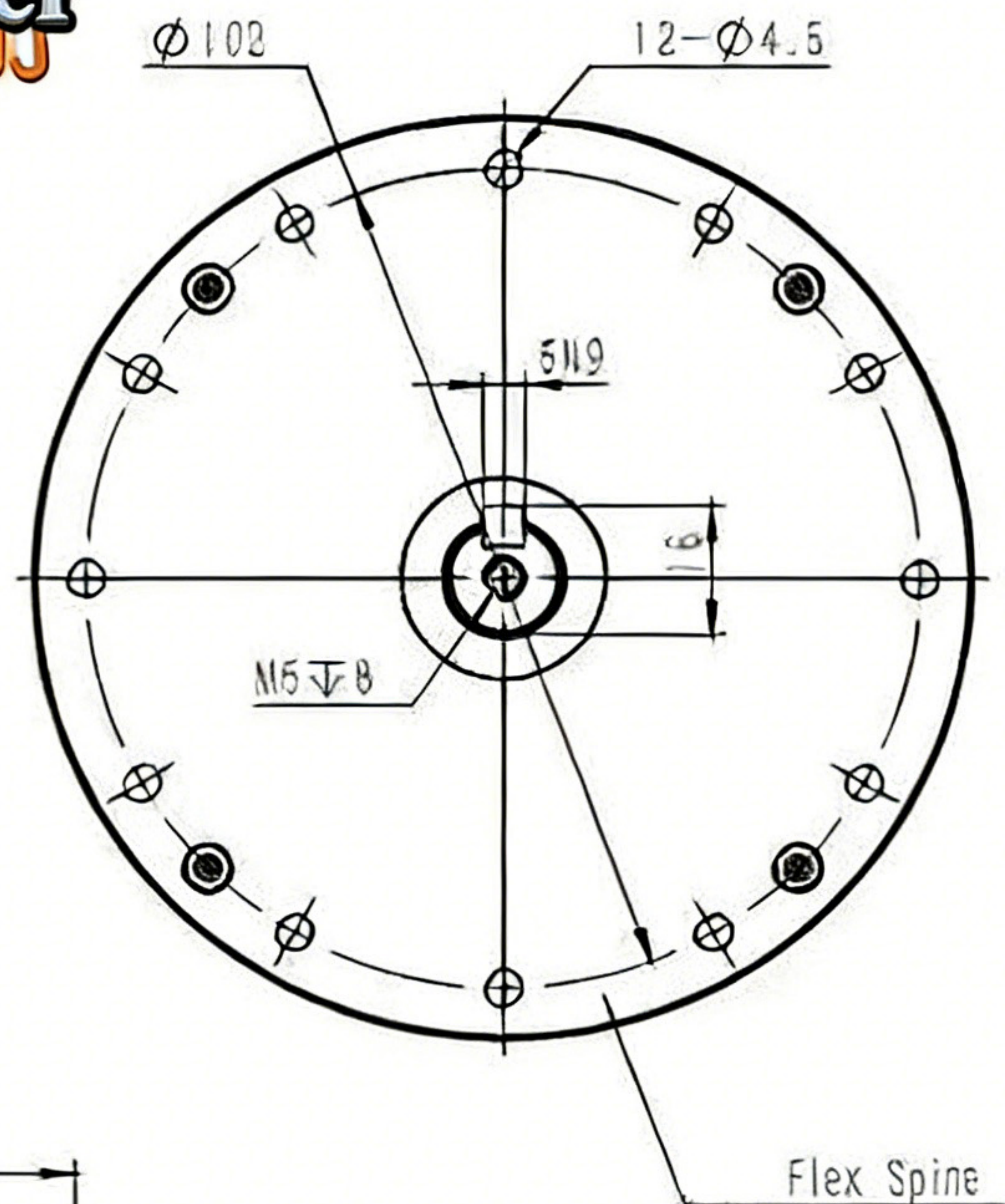
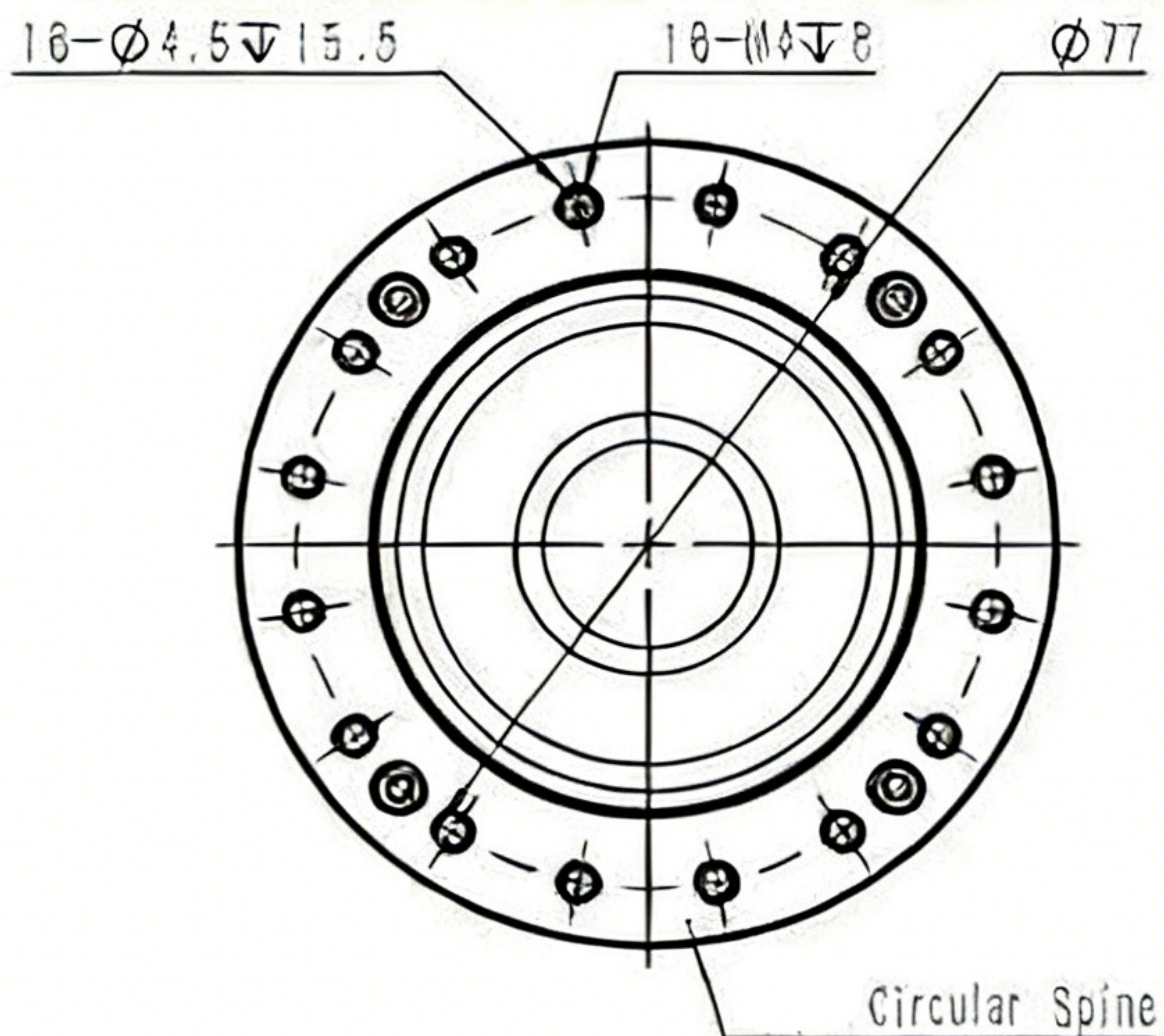
HST20-IV Harmonic Reducer

Same model as Hamonic SHG-20-2UJ



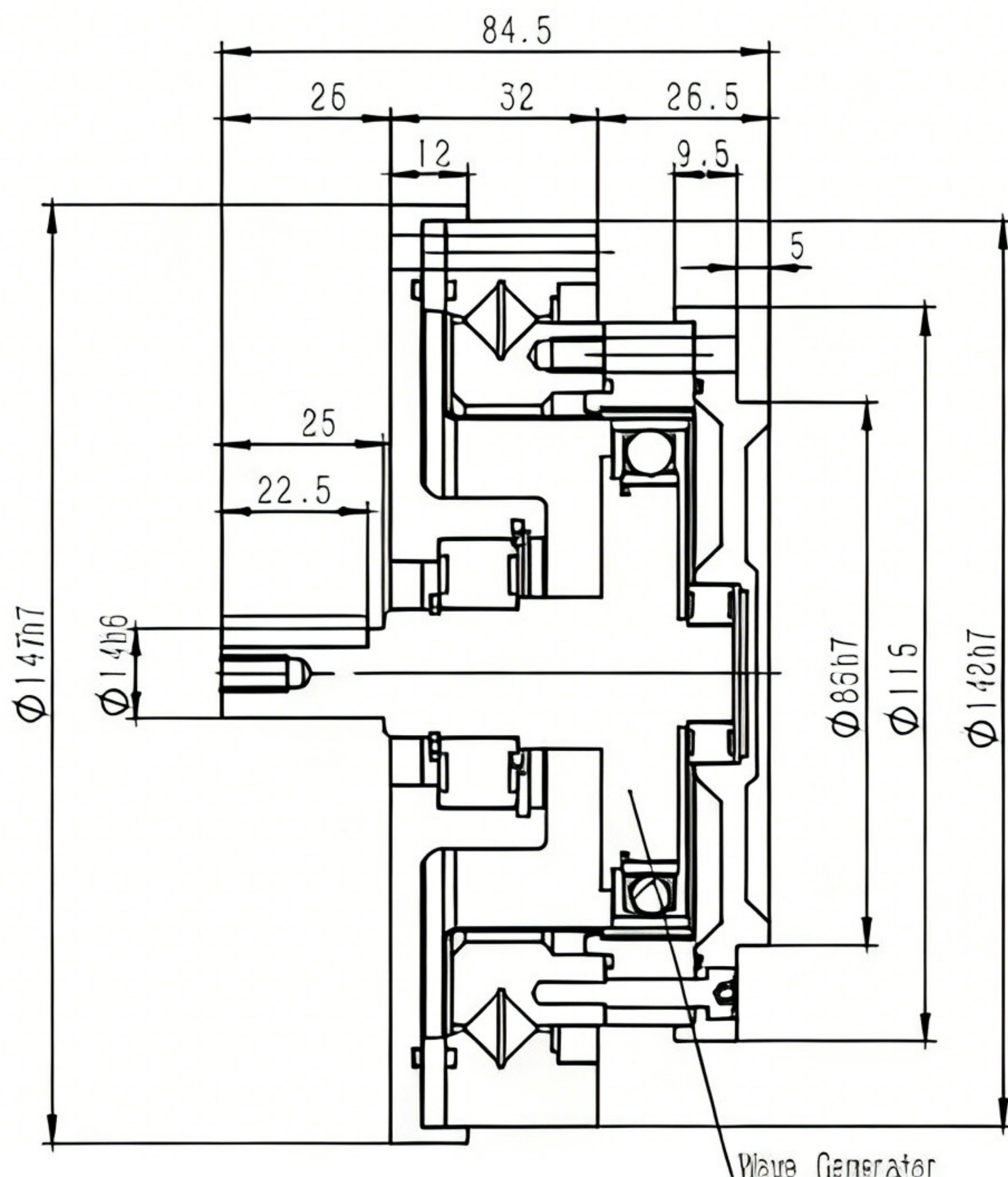
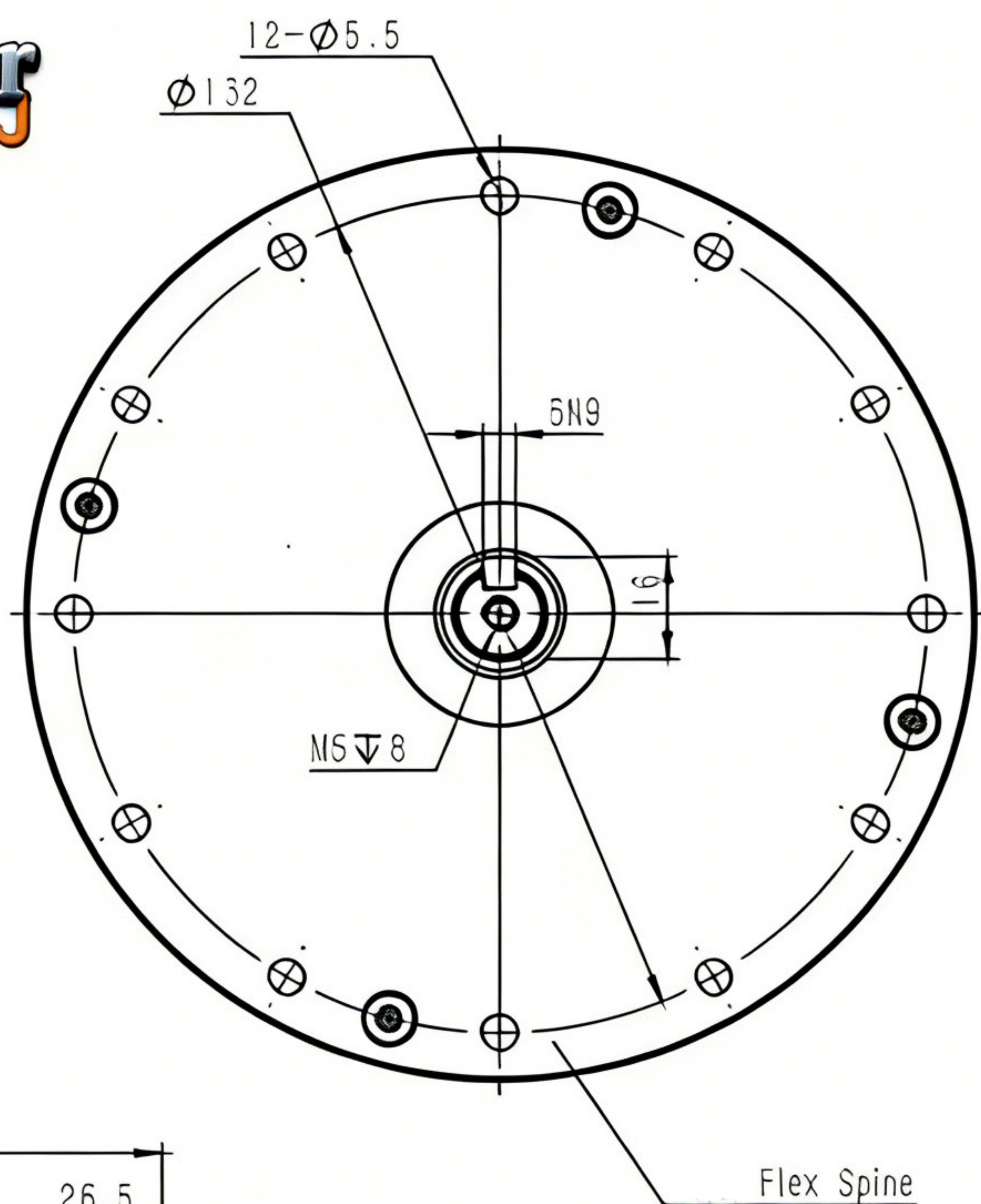
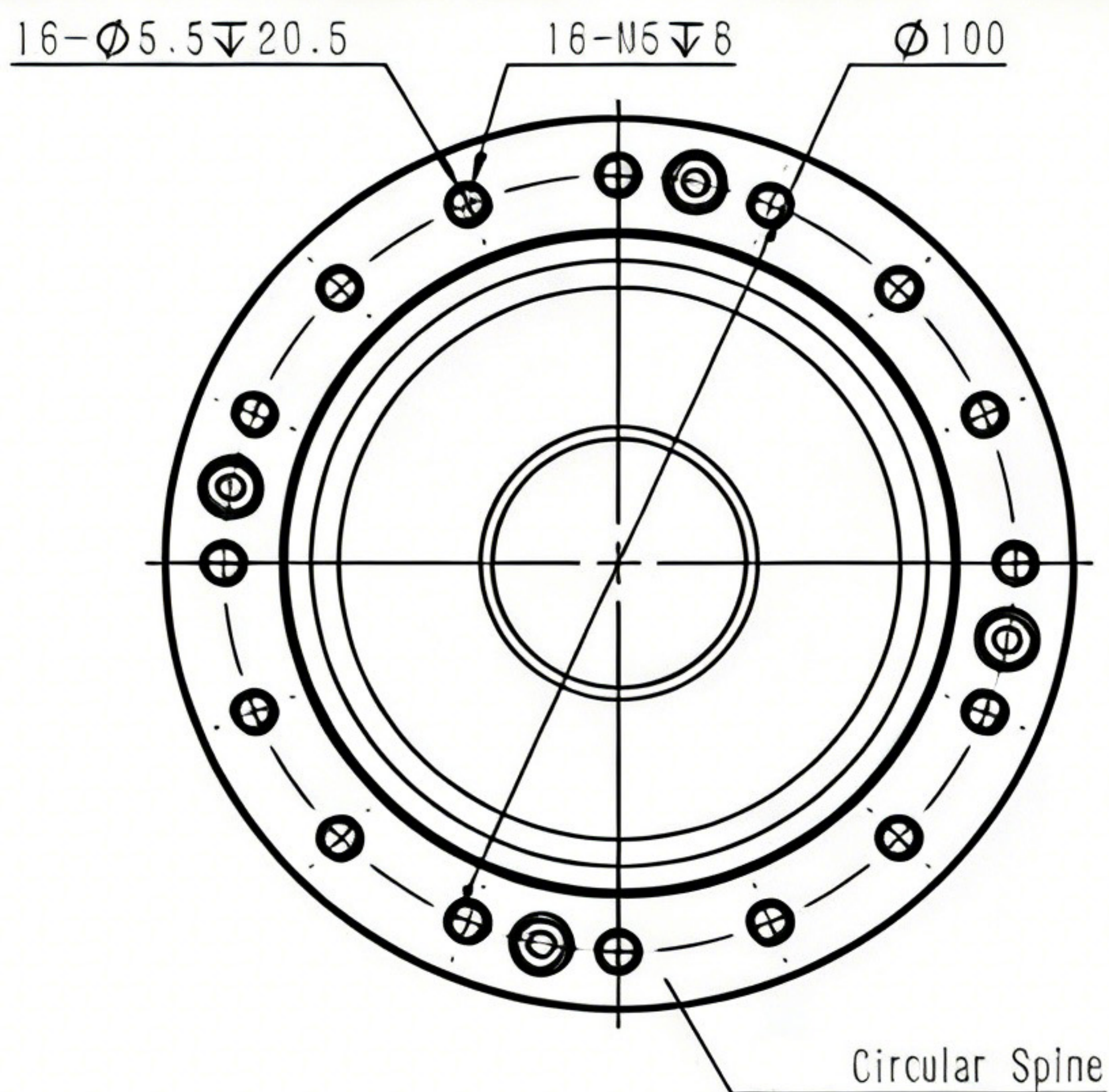
HST25-IV Harmonic Reducer

Same model as Hamonic SHG-25-20J

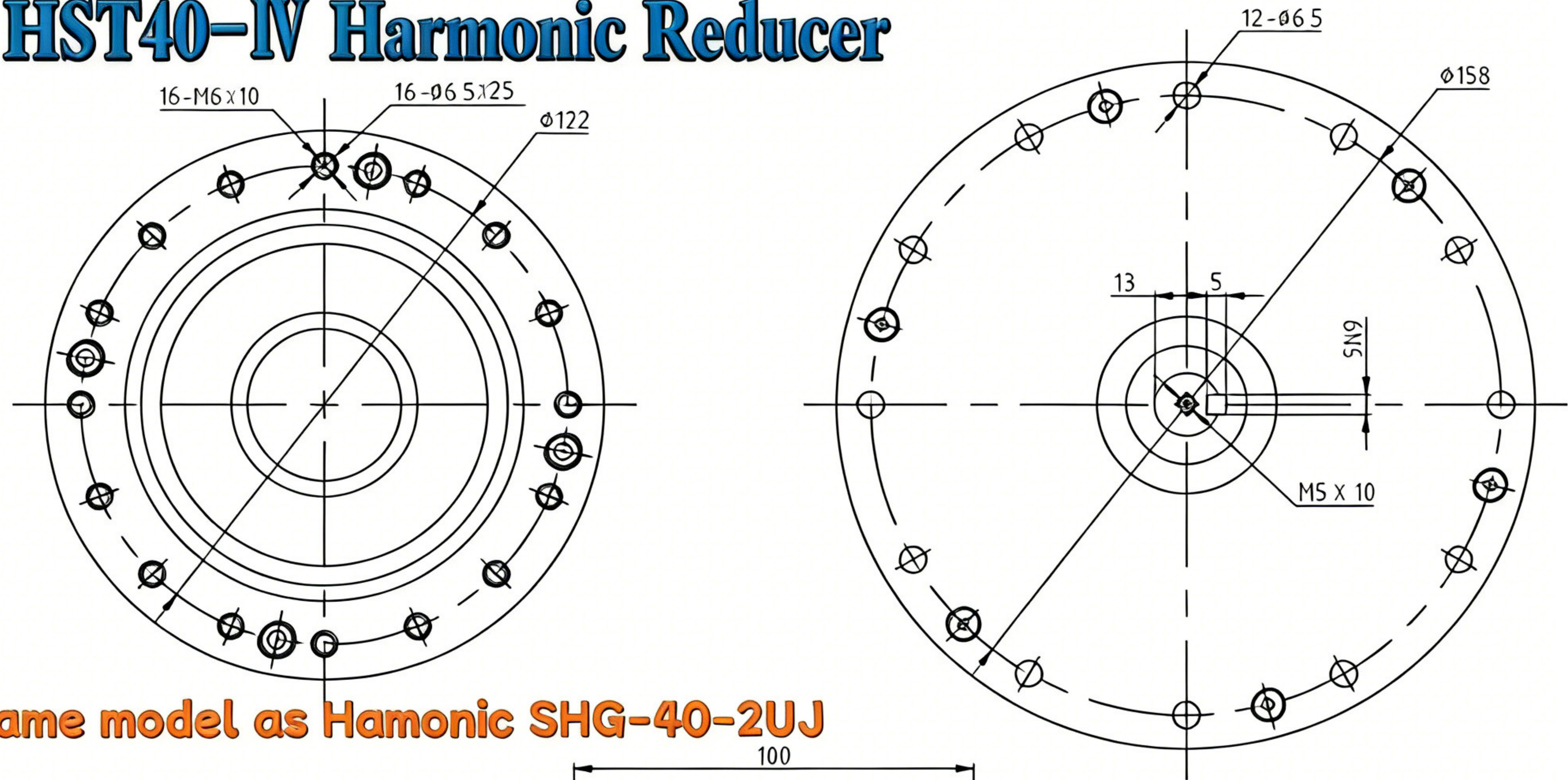


HST32-IV Harmonic Reducer

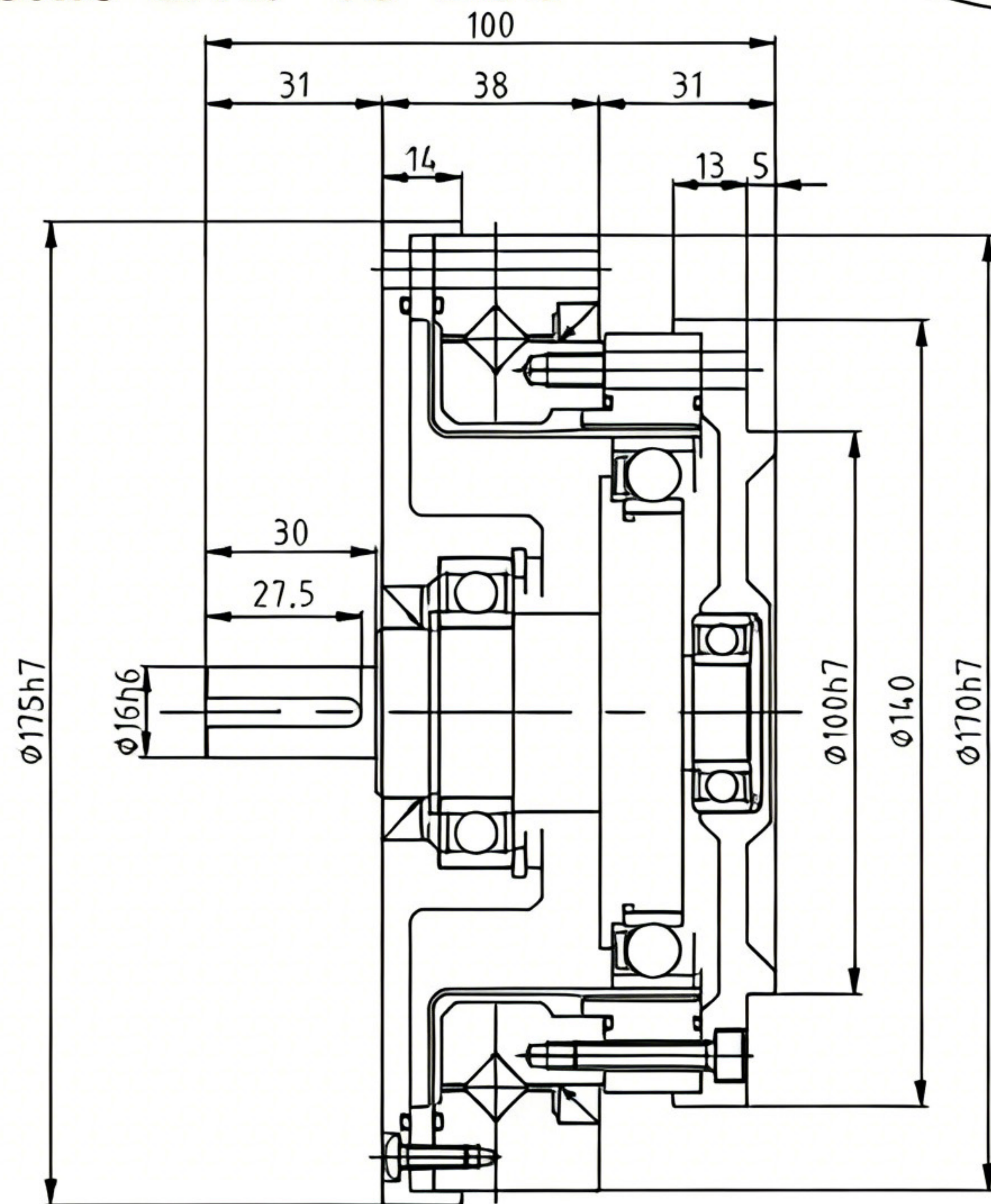
Same model as Hamonic SHG-32-20J



HST40-IV Harmonic Reducer



Same model as Hamonic SHG-40-2UJ



unit: cNm

Input Axial Type Harmonic Drive Starting torque

Type Reduction ratio	14	17	20	25	32	40
50	5.7	9.7	14	22	41	72
80	4.4	7.2	11	15	29	52
100	3.7	6.5	9.9	14	27	47
120	3.4	6.2	9.3	13	24	44
160	-	-	8.6	-	-	-

unit: Nm

Input Axial Type Harmonic Drive timing belt tension torque recommended value

Generator load torque	Model	14	17	20	25	32
最大Maximum	HS-IV	13	19	25	25	52

Input Axial Type Harmonic Drive Specification

Type	Basic rated load				Allowable static moment Mc		Weight
	Basic rated dynamic load Cr		Basic rated static load Cr				
	KN	kgf	KN	kgf	Nm	Kgfm	kg
14	5.8	590	8.6	880	74	7.6	0.39
17	10.4	1060	16.3	1670	124	12.6	0.56
20	14.6	1490	22	2250	187	19.1	0.73
25	21.8	2230	35.8	3660	258	26.3	1.23
32	38.2	3900	65.4	6680	580	59.1	2.54
40	43.3	4410	81.6	8330	849	86.6	7.2

Input Axial Type Harmonic Drive Moment Load

Model	Design value	Permissible value at start and stop	Instant permissible value
HST14-IV	M b di 41Nm	M b peak 80Nm	M b max 160Nm
	F t di 270N	F t peak 490N	F t max 830N
	F a di 270N	F a peak 490N	F a max 830N
HST17-IV	M b di 72Nm	M b peak 140Nm	M b max 290Nm
	F t di 400N	F t peak 700N	F t max 1200N
	F a di 400N	F a peak 700N	F a max 1200N
HST20-IV	M b di 140Nm	M b peak 280Nm	M b max 560Nm
	F t di 650N	F t peak 1150N	F t max 1980N
	F a di 650N	F a peak 1150N	F a max 1980N
HST25-IV	M b di 243Nm	M b peak 480Nm	M b max 974Nm
	F t di 900N	F t peak 1600N	F t max 2800N
	F a di 900N	F a peak 1600N	F a max 2800N
HST32-IV	M b di 460Nm	M b peak 900Nm	M b max 1860Nm
	F t di 1350N	F t peak 2300N	F t max 4000N
	F a di 1350N	F a peak 2300N	F a max 4000N
HST40-IV	M b di 600Nm	M b peak 1200Nm	M b max 3000Nm
	F t di 2000N	F t peak 3500N	F t max 6000N
	F a di 2000N	F a peak 3500N	F a max 6000N

Note: Output load M b-bending moment, F t-radial force, F a-axial force