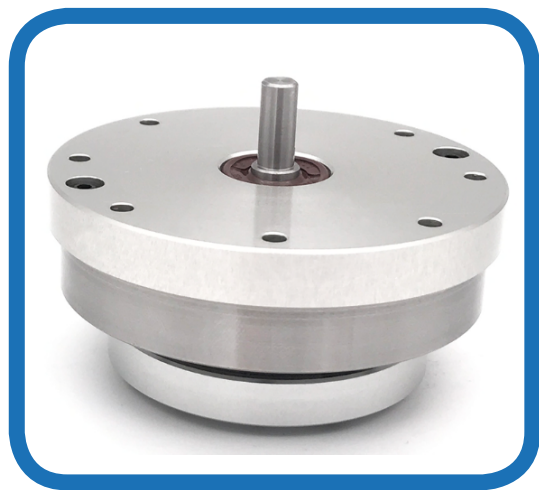
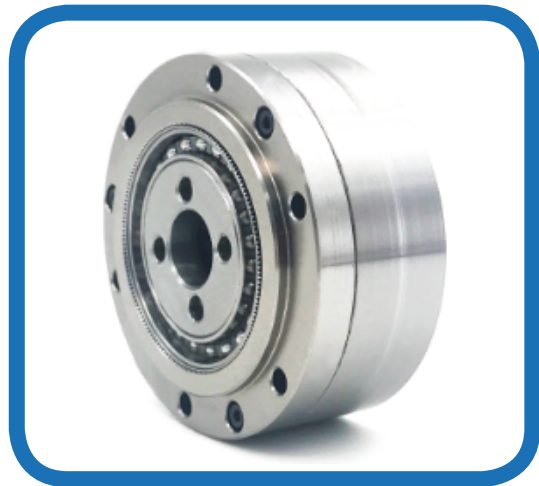
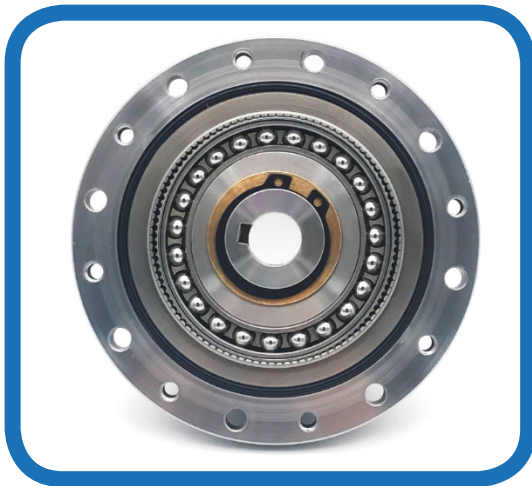


PRODUCT CATALOGUE

Harmonic Drive Reducer





Harmonic Drive Reducer

Compact Design! High Torque! High Rigidity! High Precision!

About GIGAGER Harmonic Drive

GIGAGER harmonic gearbox is widely used in robot joints with features of compact design, light weight, high torque, good quality with competitive price. GIGAGER supplies a full size range of high cost performance harmonic reducers that matches the Japanese and American harmonic drive gearboxes. They are the perfect alternative harmonic speed reducers for your limited budget.

- High strength of flexspline makes GIGAGER harmonic drive gear long life using.
- High torque capacity makes is GIGAGER harmonic gear drive outstanding.
- Low backlash of harmonic gear meeting the requirement of precision applications.
- High rigidity of GIGAGER harmonic drive mostly satisfied good point to our users.
- High efficiency output makes the users' robot application operate smoothly.
- The ultra flat design enable GIGAGER harmonic gearbox to meet the user's space requirement for robot joints' application.
- Hollow shaft designed harmonic drive gearboxes are available for different needs of the users.
- High cost performance makes the perfect alternative harmonic speed reducers for your limited budget

● Gear Transmission Principle

Harmonic gear transmission was invented by the American inventor C.W.Musser in 1955. It is a new type of transmission that utilizes the elastic deformation of the flexible working member into the motion or power transmission. It breaks through the mechanical transmission using rigid members. The mechanism's model uses a flexible member to achieve mechanical transmission, resulting in a range of special features that are difficult to achieve with other transmissions. The deformation process of the intermediate flexible member is basically a symmetrical harmonic. In addition to the former Soviet Union referred to this type of transmission as wave drive or flexible wheel drive, the United States, Britain, Germany, Japan and other countries are called "harmonic transmission."

● Component of Harmonic Drive Reducer

Circular Spline: it has two more teeth than the Flexspline and is generally mounted onto a housing.

Flexspline: It is a non-rigid, thin cylindrical cup with external teeth on the open end of the cup. It fits over the Wave Generator and takes on its elliptical shape. The Flexspline is generally used as the output of the gear.

Wave Generator: The Wave Generator is a thin, raced-ball bearing fitted onto an elliptical hub. This serves as a high-efficiency torque converter and is generally mounted onto the input or motor shaft.

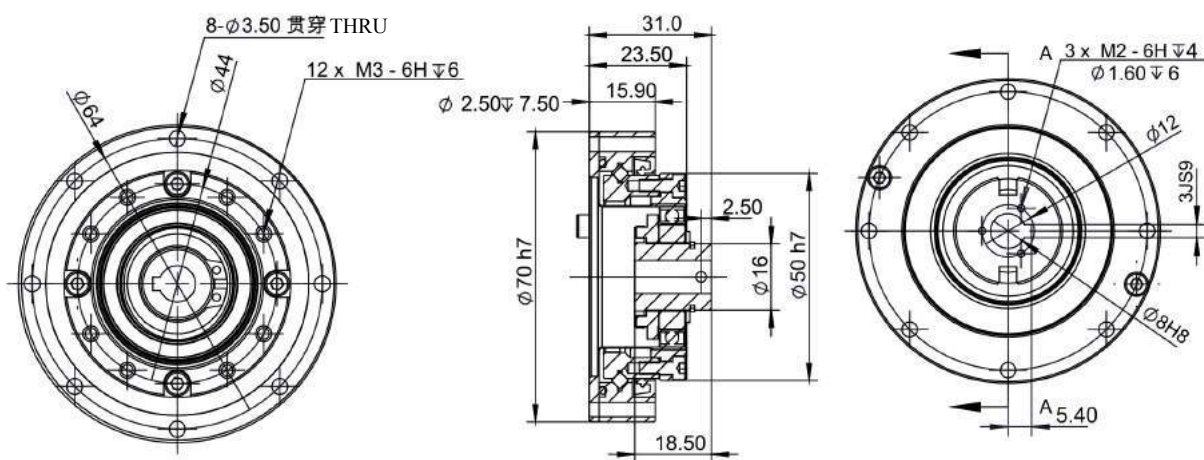
Order Code of Harmonic Drive Reducer

Series	Type	Spec	Gear Ratio					
SHF	Blank (Standard) T (Flat) H (Hollow) S (Shaft)	14	30	50	80	100	-	-
		17	30	50	80	100	-	-
		20	30	50	80	100	120	-
		25	30	50	80	100	120	160
		32	50	80	100	120	-	-
CSF	Blank (Standard) T (Flat)	14	30	50	80	100	-	-
		17	30	50	80	100	-	-
		20	30	50	80	100	120	-
		25	30	50	80	100	120	160
		32	50	80	100	120	-	-
SHD	H (Hollow)	14	50	100	-	-	-	-
CSD		17	50	100	-	-	-	-
		20	50	100	120	-	-	-

Order Code Example 1: SHF-14-30K

Order Code Example 2: SHF-T-32-50K

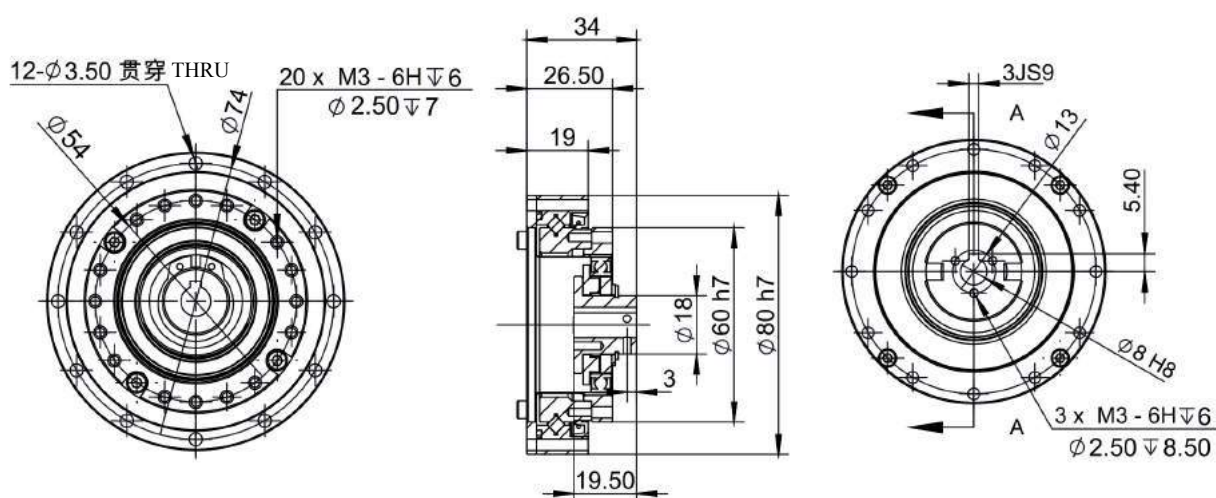
■ SHF-14



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	3.8	5.1	7.4	7.4
Permissible Maximum Torque (Start • Stop)	N.m	8.6	17	22	27
Permissible Maximum Value of Average Load Torque	N.m	7.8	6.6	10.5	10.5
Instantaneous Permissible Maximum Torque	N.m	16	33	45	51
Permissible Maximum Input Rotating Speed	r/min	8000	8000	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000

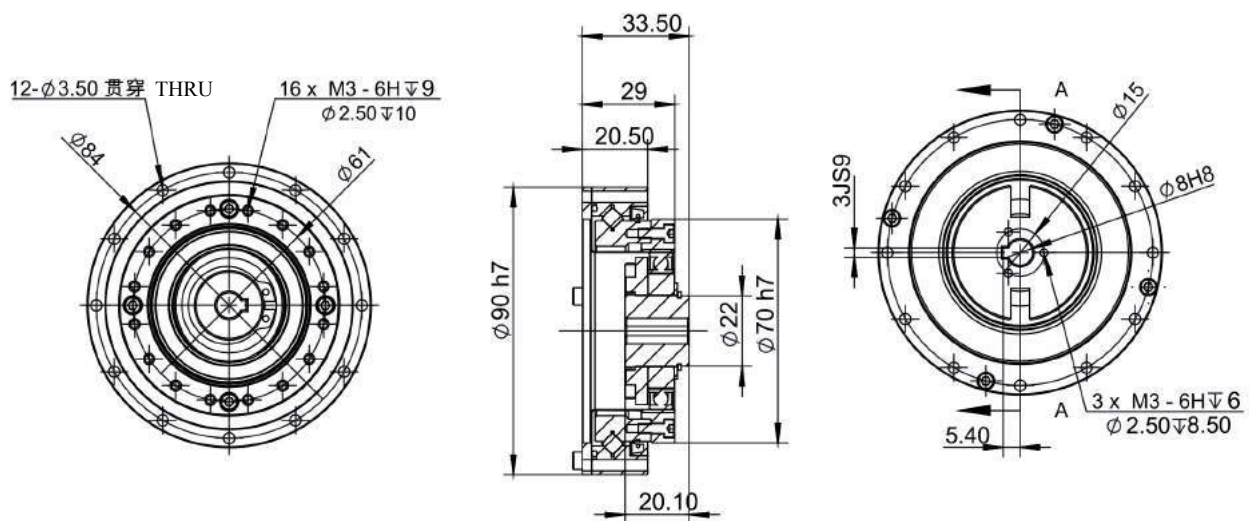
SHF-17



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	8.4	15.2	21	23
Permissible Maximum Torque (Start • Stop)	N.m	15.2	32	41	52
Permissible Maximum Value of Average Load Torque	N.m	11.5	25	26	38
Instantaneous Permissible Maximum Torque	N.m	29	66	83	108
Permissible Maximum Input Rotating Speed	r/min	7000	7000	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	10000

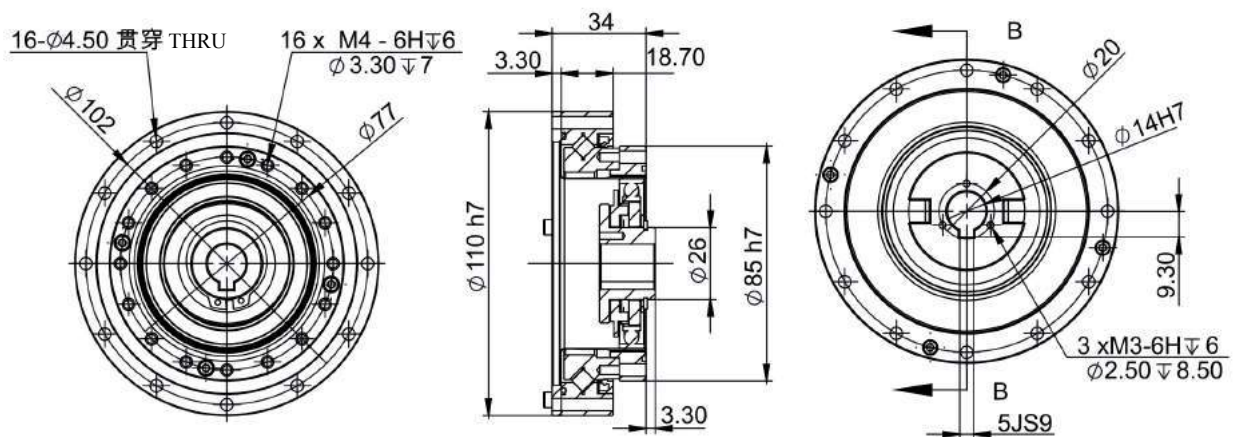
■ SHF-20



Parameter

Items		Gear Ratio				
		30K	50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	14	24	32	38	38
Permissible Maximum Torque (Start • Stop)	N.m	26	53	70	78	83
Permissible Maximum Value of Average Load Torque	N.m	19	32	45	47	47
Instantaneous Permissible Maximum Torque	N.m	48	93	121	140	140
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000

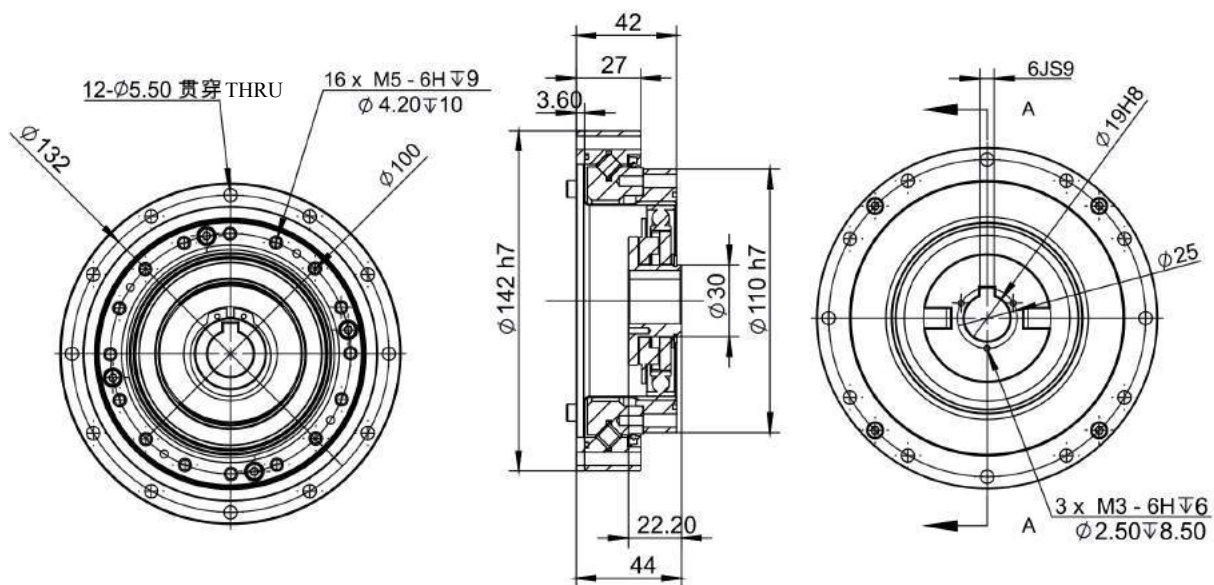
SHF-25



Parameter

Items		Gear Ratio					
		30K	50K	80K	100K	120K	160K
Rated Torque (Input 2000r/min)	N.m	26	37	60	64	64	64
Permissible Maximum Torque (Start • Stop)	N.m	48	93	130	149	159	167
Permissible Maximum Value of Average Load Torque	N.m	36	52	83	103	103	103
Instantaneous Permissible Maximum Torque	N.m	90	177	242	270	289	298
Permissible Maximum Input Rotating Speed	r/min	5500	5500	5500	5500	5500	5500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000	15000

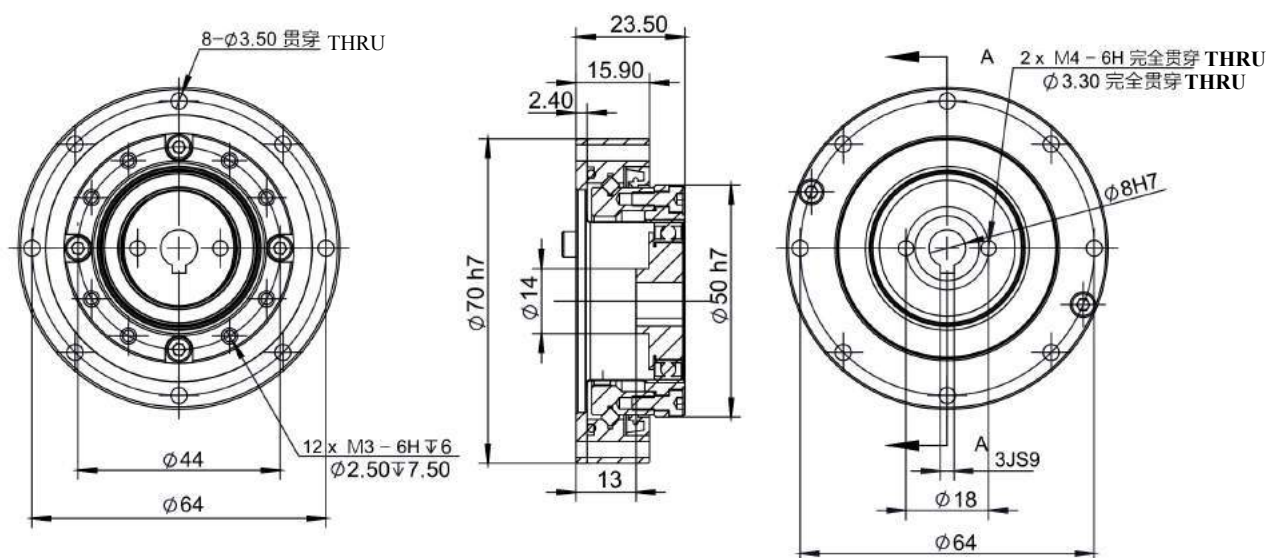
■ SHF-32



Parameter

Items		Gear Ratio			
		50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	72	112	130	130
Permissible Maximum Torque (Start • Stop)	N.m	205	289	325	335
Permissible Maximum Value of Average Load Torque	N.m	103	159	208	205
Instantaneous Permissible Maximum Torque	N.m	363	540	635	652
Permissible Maximum Input Rotating Speed	r/min	4500	4500	4500	4500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000	15000

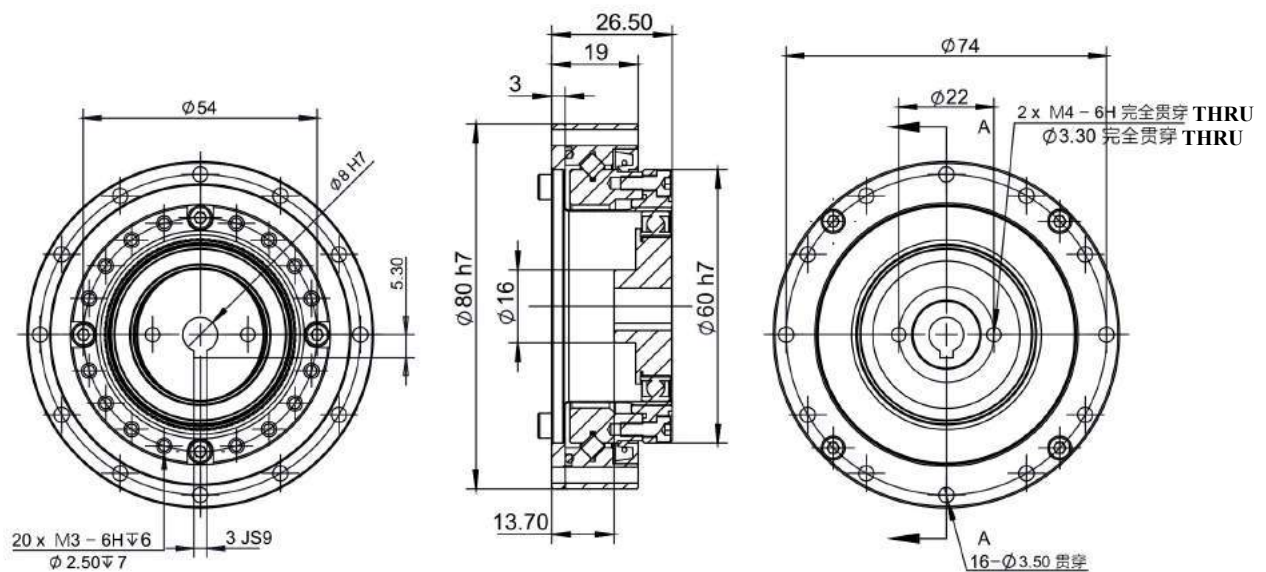
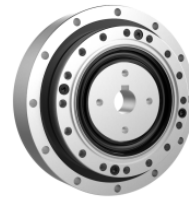
■ SHF-T-14



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	3.8	5.1	7.4	7.4
Permissible Maximum Torque (Start • Stop)	N.m	8.6	17	22	27
Permissible Maximum Value of Average Load Torque	N.m	7.8	6.6	10.5	10.5
Instantaneous Permissible Maximum Torque	N.m	16	33	45	51
Permissible Maximum Input Rotating Speed	r/min	8000	8000	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000

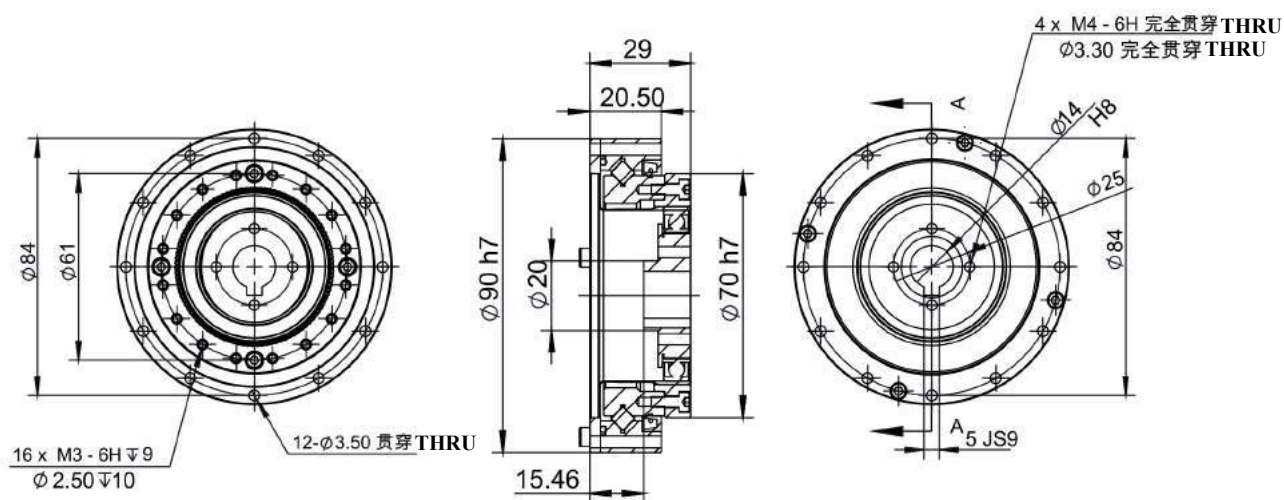
■ SHF-T-17



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	8.4	15.2	21	23
Permissible Maximum Torque (Start • Stop)	N.m	15.2	32	41	52
Permissible Maximum Value of Average Load Torque	N.m	11.5	25	26	38
Instantaneous Permissible Maximum Torque	N.m	29	66	83	108
Permissible Maximum Input Rotating Speed	r/min	7000	7000	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	10000

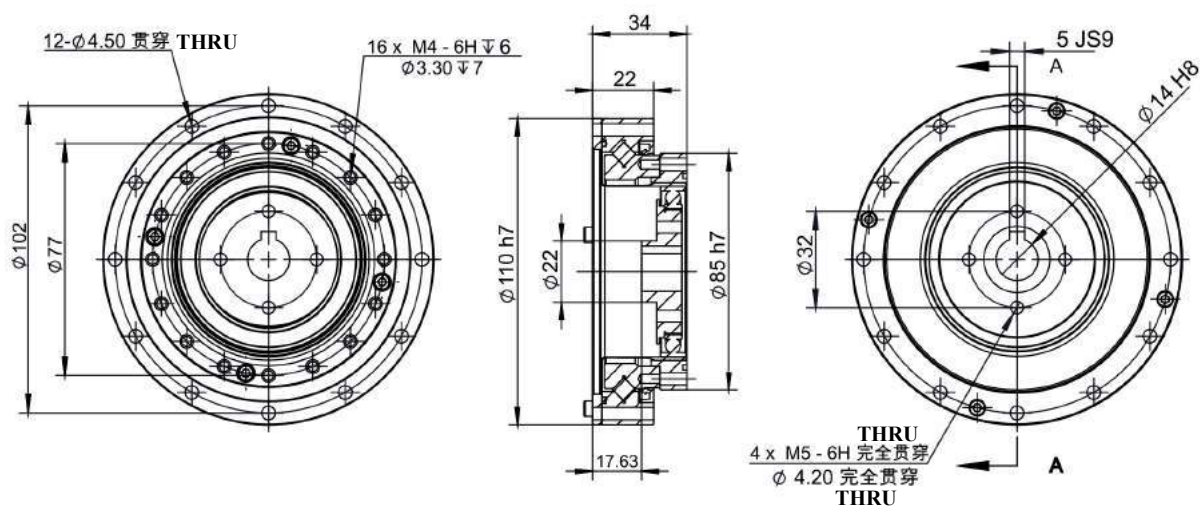
SHF-T-20



Parameter

Items		Gear Ratio				
		30K	50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	14	24	32	38	38
Permissible Maximum Torque (Start • Stop)	N.m	26	53	70	78	83
Permissible Maximum Value of Average Load Torque	N.m	19	32	45	47	47
Instantaneous Permissible Maximum Torque	N.m	48	93	121	140	140
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000

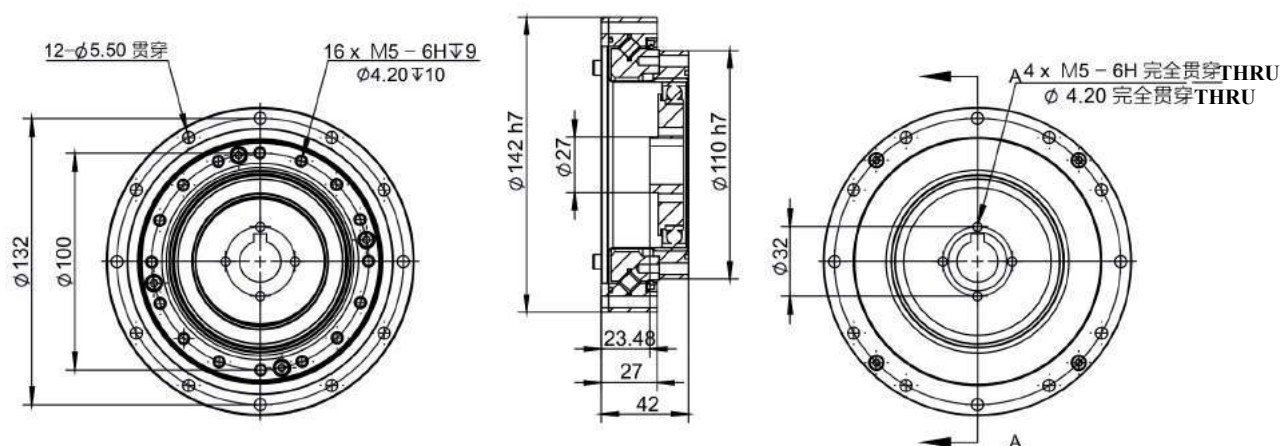
■ SHF-T-25



Parameter

Items		Gear Ratio					
		30K	50K	80K	100K	120K	160K
Rated Torque (Input 2000r/min)	N.m	26	37	60	64	64	64
Permissible Maximum Torque (Start • Stop)	N.m	48	93	130	149	159	167
Permissible Maximum Value of Average Load Torque	N.m	36	52	83	103	103	103
Instantaneous Permissible Maximum Torque	N.m	90	177	242	270	289	298
Permissible Maximum Input Rotating Speed	r/min	5500	5500	5500	5500	5500	5500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000	15000

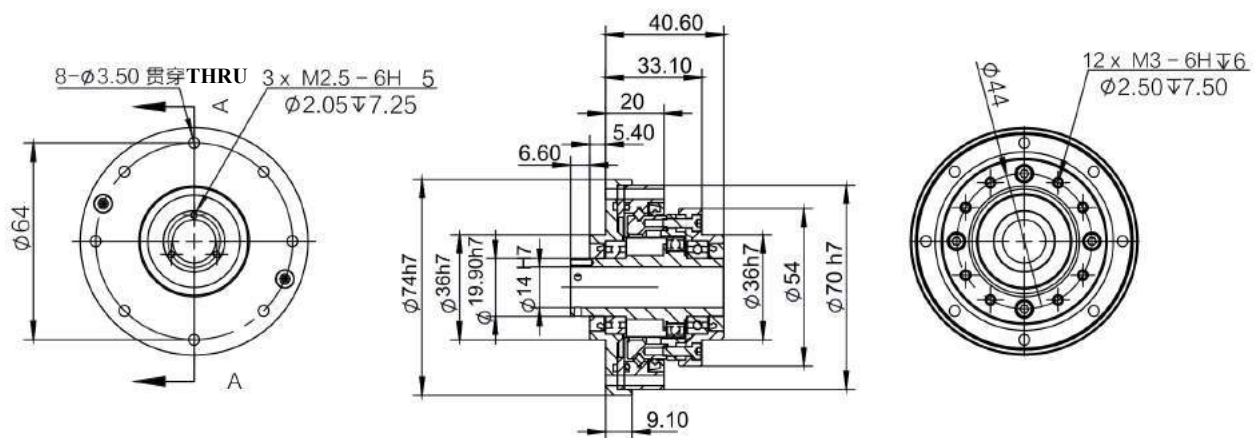
SHF-T-32



Parameter

Items		Gear Ratio			
		50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	72	112	130	130
Permissible Maximum Torque (Start • Stop)	N.m	205	289	325	335
Permissible Maximum Value of Average Load Torque	N.m	103	159	208	205
Instantaneous Permissible Maximum Torque	N.m	363	540	635	652
Permissible Maximum Input Rotating Speed	r/min	4500	4500	4500	4500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000	15000

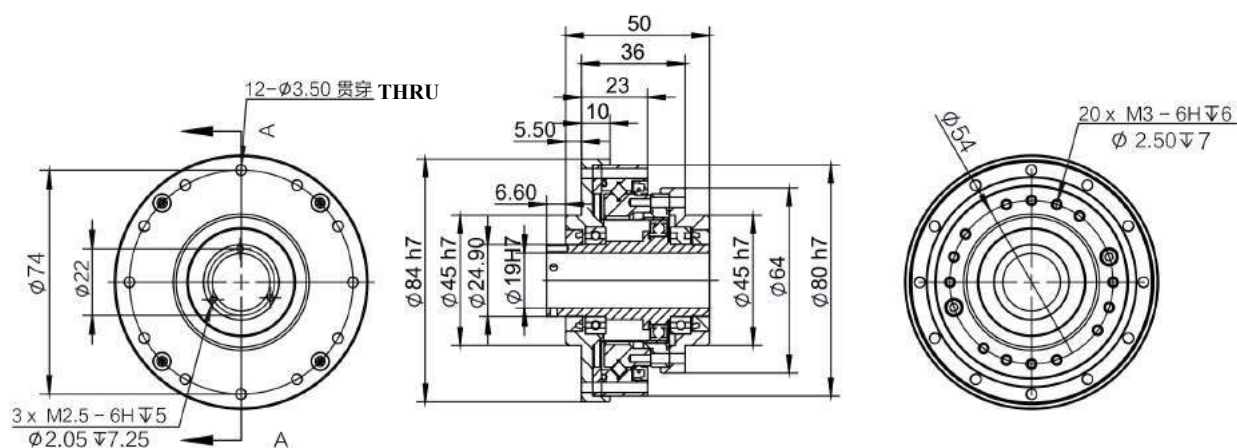
■ SHF-H-14



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	3.8	5.1	7.4	7.4
Permissible Maximum Torque (Start • Stop)	N.m	8.6	17	22	27
Permissible Maximum Value of Average Load Torque	N.m	7.8	6.6	10.5	10.5
Instantaneous Permissible Maximum Torque	N.m	16	33	45	51
Permissible Maximum Input Rotating Speed	r/min	8000	8000	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000

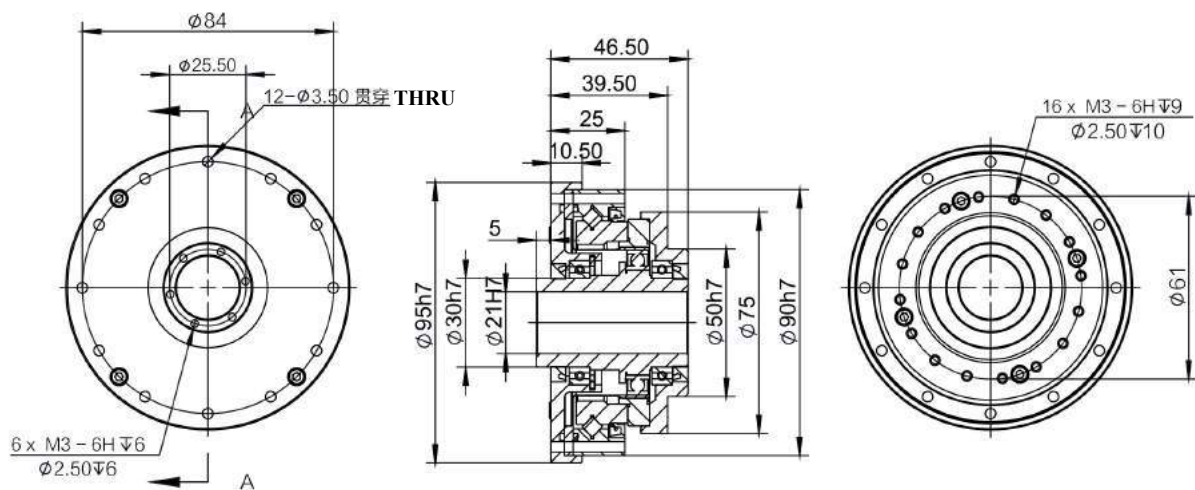
■ SHF-H-17



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	8.4	15.2	21	23
Permissible Maximum Torque (Start • Stop)	N.m	15.2	32	41	52
Permissible Maximum Value of Average Load Torque	N.m	11.5	25	26	38
Instantaneous Permissible Maximum Torque	N.m	29	66	83	108
Permissible Maximum Input Rotating Speed	r/min	7000	7000	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	10000

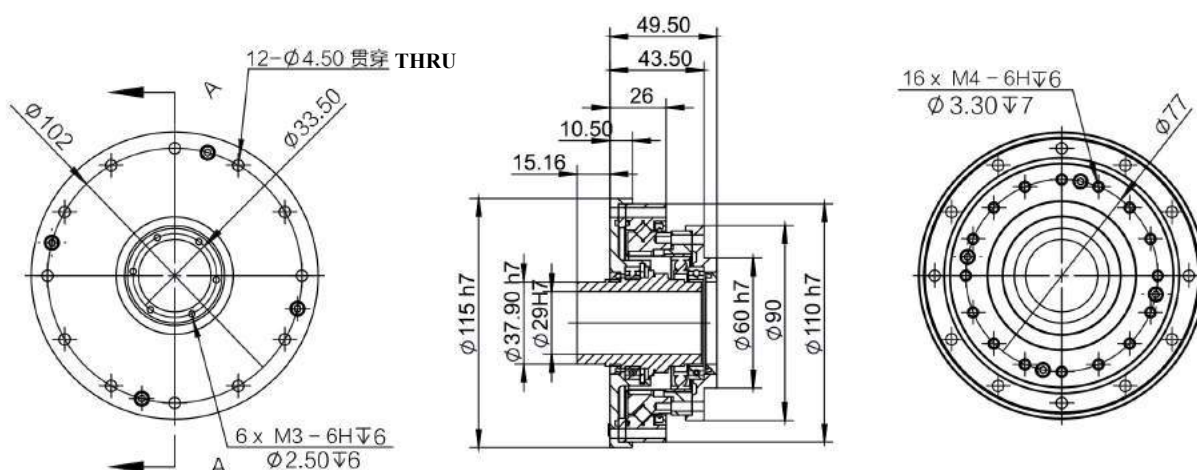
■ SHF-H-20



Parameter

Items		Gear Ratio				
		30K	50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	14	24	32	38	38
Permissible Maximum Torque (Start • Stop)	N.m	26	53	70	78	83
Permissible Maximum Value of Average Load Torque	N.m	19	32	45	47	47
Instantaneous Permissible Maximum Torque	N.m	48	93	121	140	140
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000

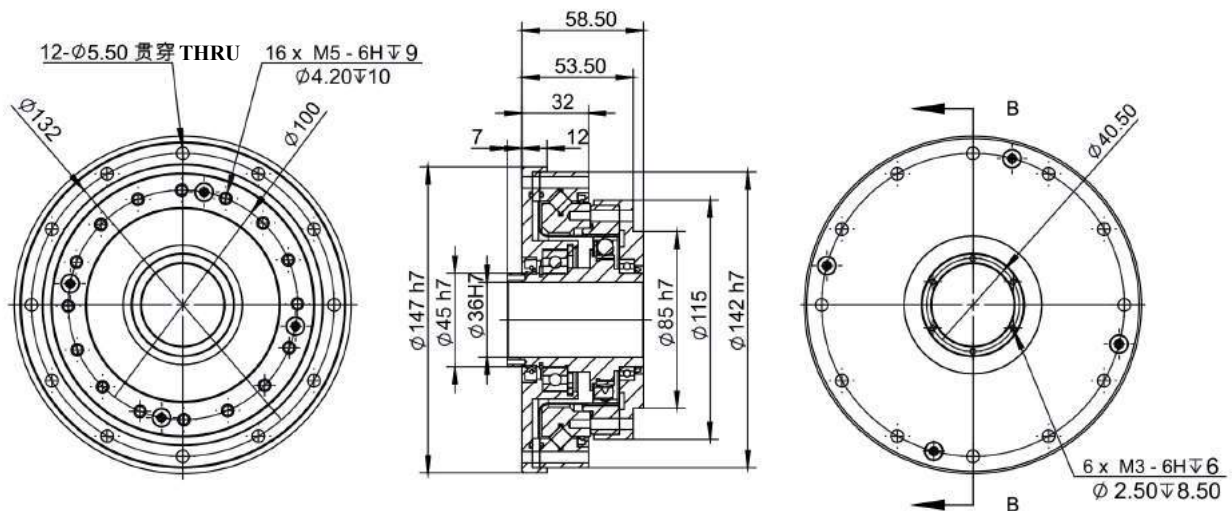
SHF-H-25



Parameter

Items		Gear Ratio					
		30K	50K	80K	100K	120K	160K
Rated Torque (Input 2000r/min)	N.m	26	37	60	64	64	64
Permissible Maximum Torque (Start • Stop)	N.m	48	93	130	149	159	167
Permissible Maximum Value of Average Load Torque	N.m	36	52	83	103	103	103
Instantaneous Permissible Maximum Torque	N.m	90	177	242	270	289	298
Permissible Maximum Input Rotating Speed	r/min	5500	5500	5500	5500	5500	5500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000	15000

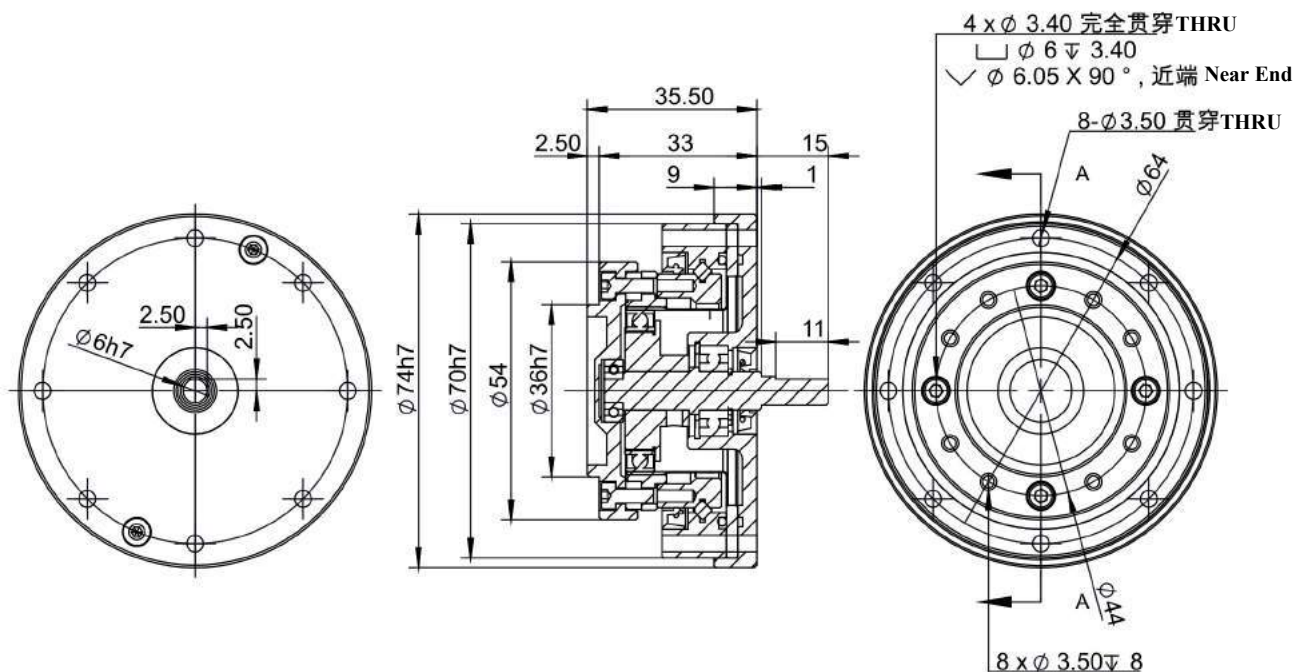
■ SHF-H-32



Parameter

Items		Gear Ratio			
		50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	72	112	130	130
Permissible Maximum Torque (Start • Stop)	N.m	205	289	325	335
Permissible Maximum Value of Average Load Torque	N.m	103	159	208	205
Instantaneous Permissible Maximum Torque	N.m	363	540	635	652
Permissible Maximum Input Rotating Speed	r/min	4500	4500	4500	4500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000	15000

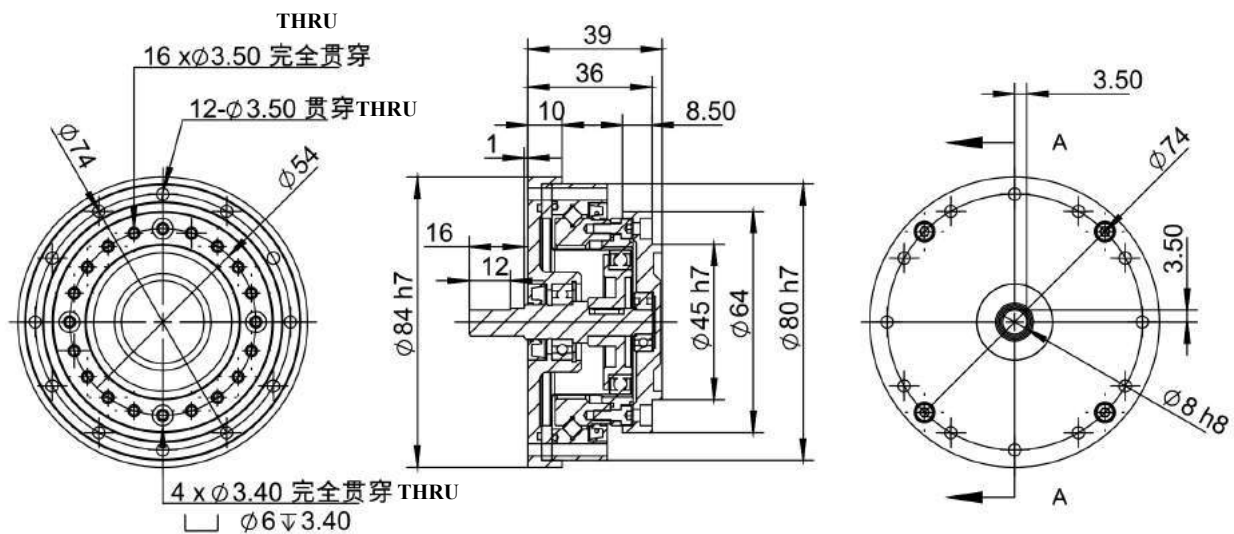
■ SHF-S-14



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	3.8	5.1	7.4	7.4
Permissible Maximum Torque (Start • Stop)	N.m	8.6	17	22	27
Permissible Maximum Value of Average Load Torque	N.m	7.8	6.6	10.5	10.5
Instantaneous Permissible Maximum Torque	N.m	16	33	45	51
Permissible Maximum Input Rotating Speed	r/min	8000	8000	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000

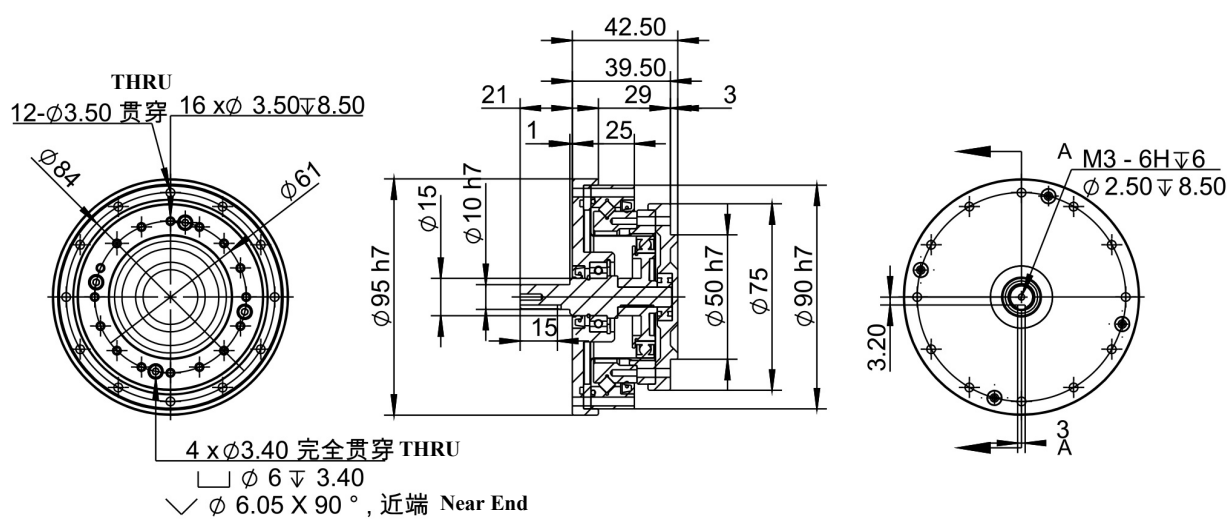
■ SHF-S-17



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	8.4	15.2	21	23
Permissible Maximum Torque (Start • Stop)	N.m	15.2	32	41	52
Permissible Maximum Value of Average Load Torque	N.m	11.5	25	26	38
Instantaneous Permissible Maximum Torque	N.m	29	66	83	108
Permissible Maximum Input Rotating Speed	r/min	7000	7000	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	10000

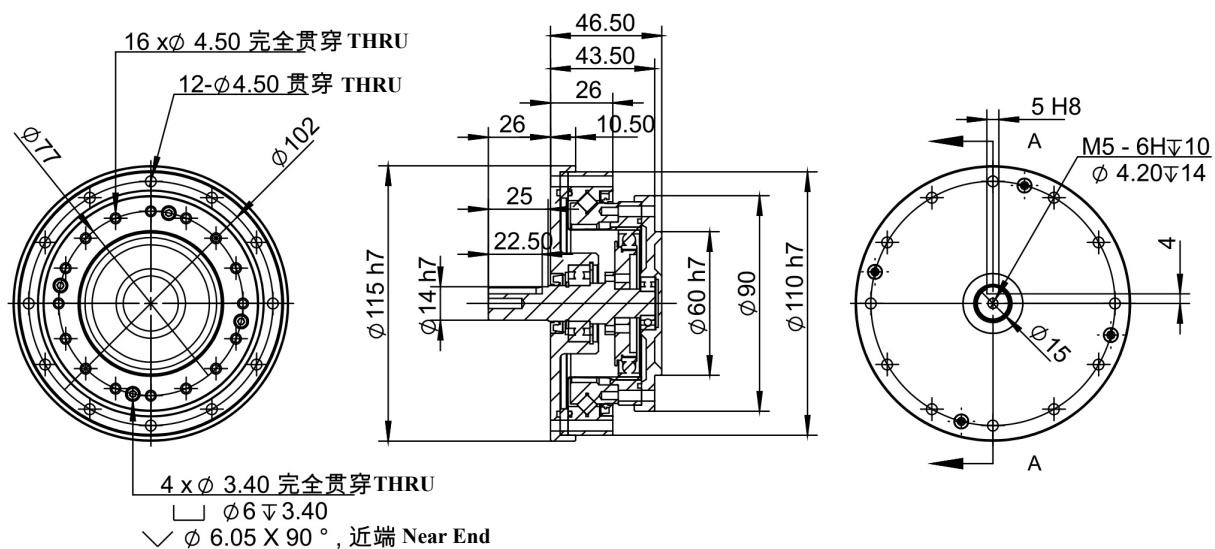
■ SHF-S-20



Parameter

Items		Gear Ratio				
		30K	50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	14	24	32	38	38
Permissible Maximum Torque (Start • Stop)	N.m	26	53	70	78	83
Permissible Maximum Value of Average Load Torque	N.m	19	32	45	47	47
Instantaneous Permissible Maximum Torque	N.m	48	93	121	140	140
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000

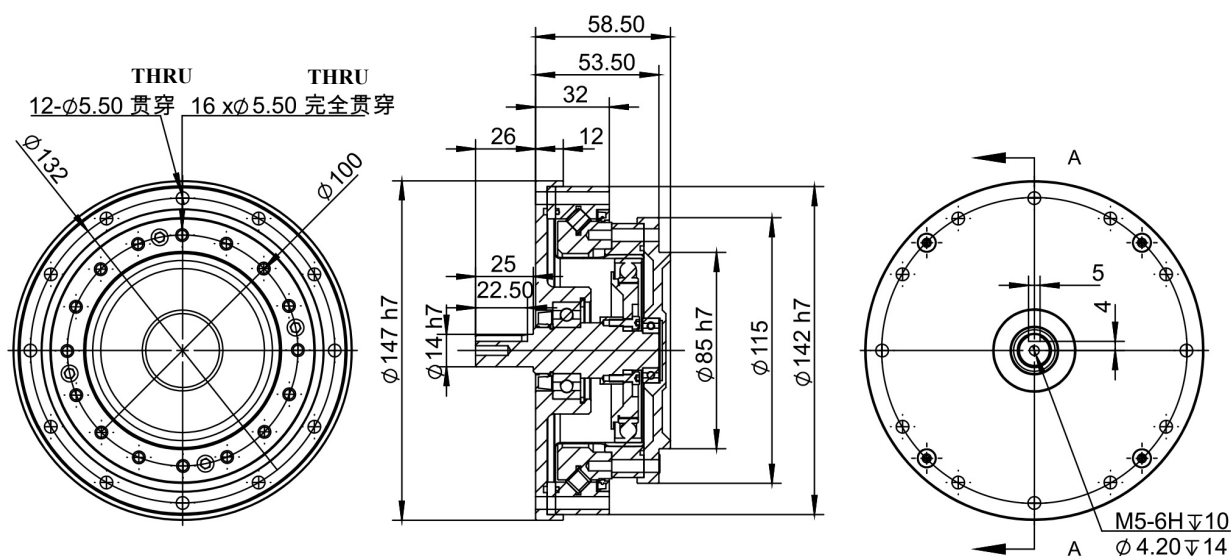
■ SHF-S-25



Parameter

Items		Gear Ratio					
		30K	50K	80K	100K	120K	160K
Rated Torque (Input 2000r/min)	N.m	26	37	60	64	64	64
Permissible Maximum Torque (Start • Stop)	N.m	48	93	130	149	159	167
Permissible Maximum Value of Average Load Torque	N.m	36	52	83	103	103	103
Instantaneous Permissible Maximum Torque	N.m	90	177	242	270	289	298
Permissible Maximum Input Rotating Speed	r/min	5500	5500	5500	5500	5500	5500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000	15000

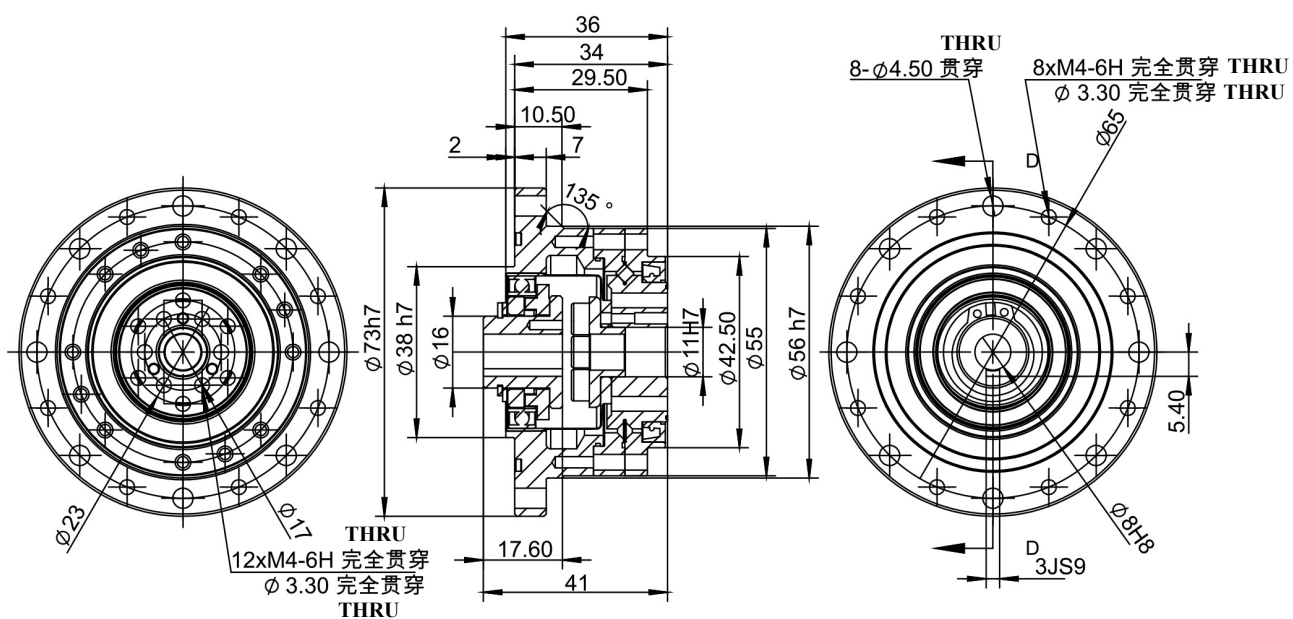
SHF-S-32



Parameter

Items		Gear Ratio			
		50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	72	112	130	130
Permissible Maximum Torque (Start • Stop)	N.m	205	289	325	335
Permissible Maximum Value of Average Load Torque	N.m	103	159	208	205
Instantaneous Permissible Maximum Torque	N.m	363	540	635	652
Permissible Maximum Input Rotating Speed	r/min	4500	4500	4500	4500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000	15000

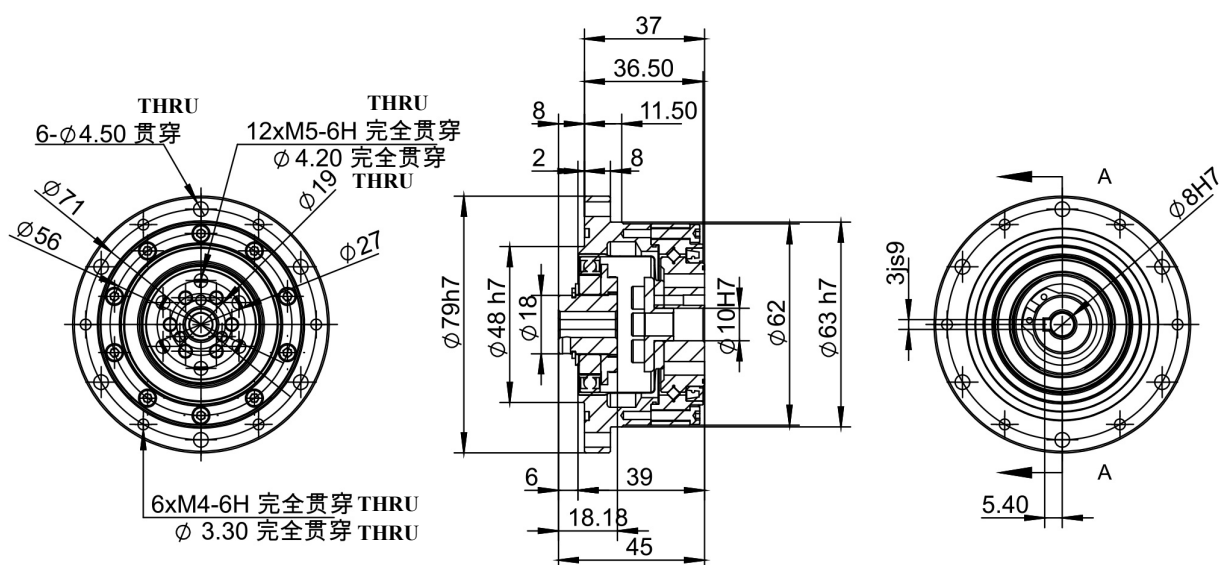
■ CSF-14



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	4.0	5.4	7.8	7.8
Permissible Maximum Torque (Start • Stop)	N.m	9	18	23	28
Permissible Maximum Value of Average Load Torque	N.m	6.8	6.9	11	11
Instantaneous Permissible Maximum Torque	N.m	17	35	47	54
Permissible Maximum Input Rotating Speed	r/min	8000	8000	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000

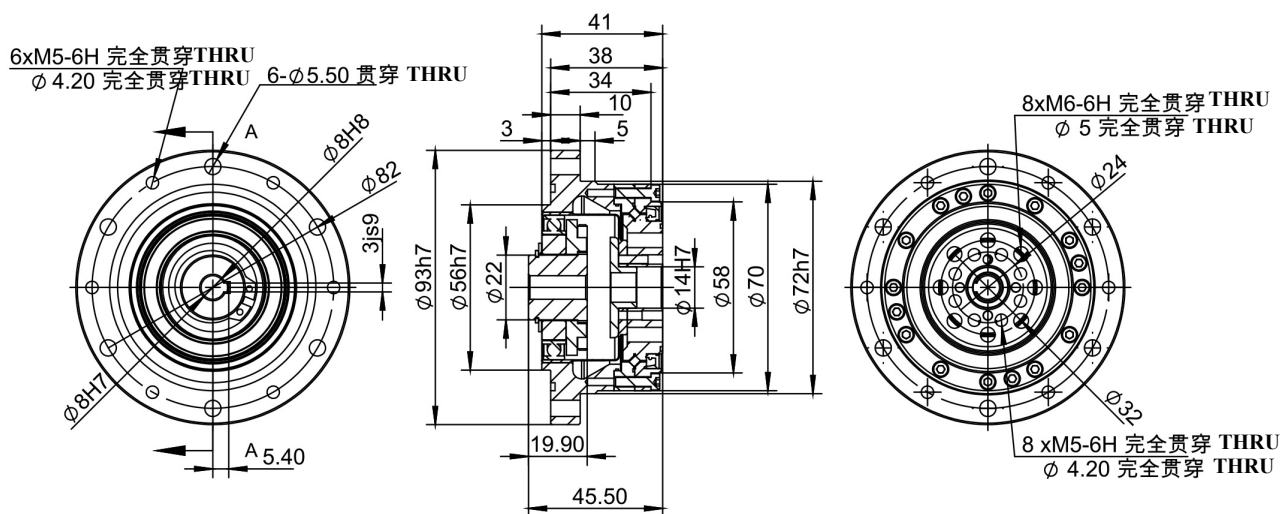
■ **CSF-17**



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	8.8	16	22	24
Permissible Maximum Torque (Start • Stop)	N.m	16	34	43	54
Permissible Maximum Value of Average Load Torque	N.m	12	26	27	39
Instantaneous Permissible Maximum Torque	N.m	30	70	87	108
Permissible Maximum Input Rotating Speed	r/min	7000	7000	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	10000

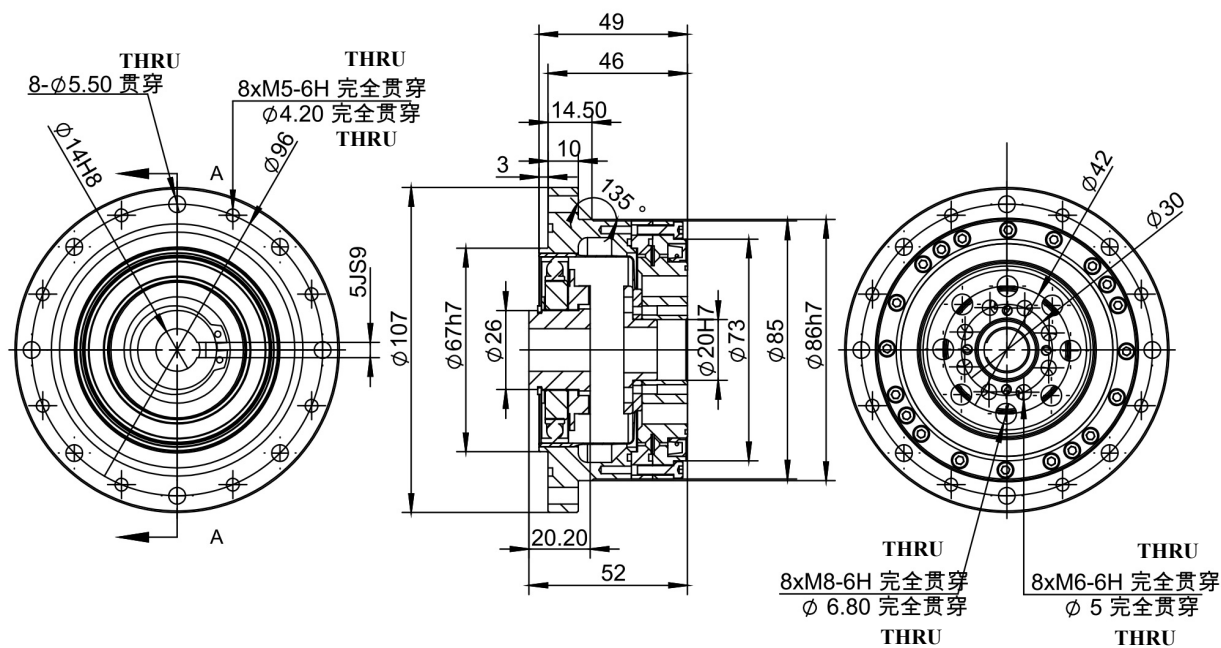
■ CSF-20



Parameter

Items		Gear Ratio				
		30K	50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	15	25	34	40	40
Permissible Maximum Torque (Start • Stop)	N.m	27	56	74	82	87
Permissible Maximum Value of Average Load Torque	N.m	20	34	47	49	49
Instantaneous Permissible Maximum Torque	N.m	50	98	127	147	147
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000

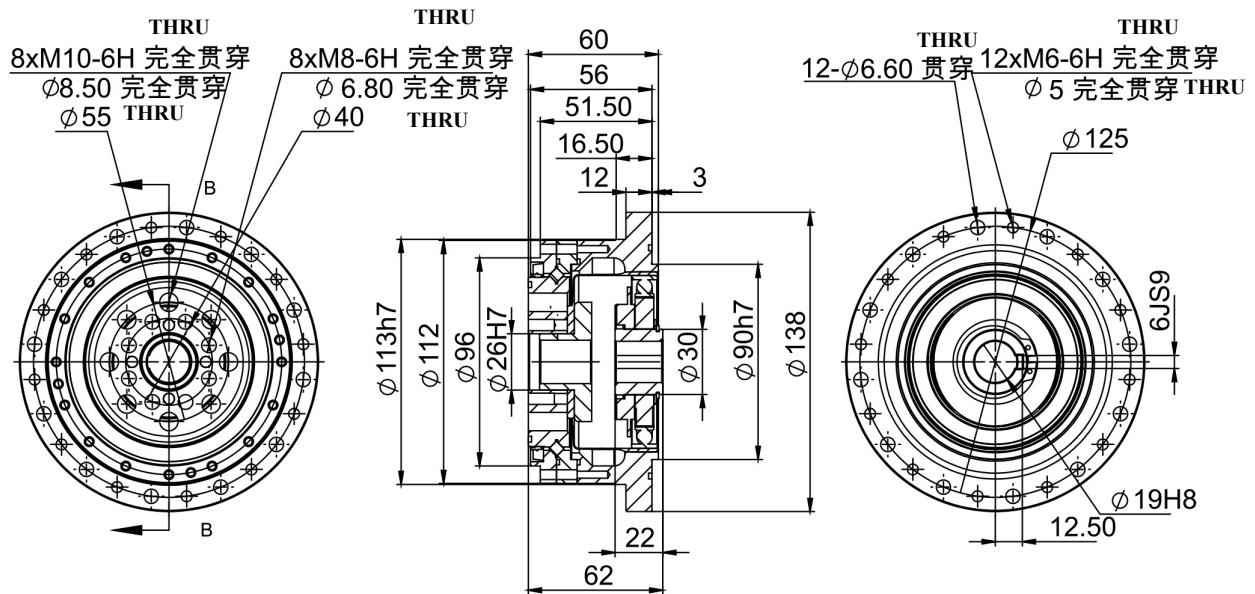
CSF-25



Parameter

Items		Gear Ratio					
		30K	50K	80K	100K	120K	160K
Rated Torque (Input 2000r/min)	N.m	27	39	63	67	67	67
Permissible Maximum Torque (Start • Stop)	N.m	50	98	137	157	167	176
Permissible Maximum Value of Average Load Torque	N.m	38	55	87	108	108	108
Instantaneous Permissible Maximum Torque	N.m	95	186	255	304	289	314
Permissible Maximum Input Rotating Speed	r/min	5500	5500	5500	5500	5500	5500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000	15000

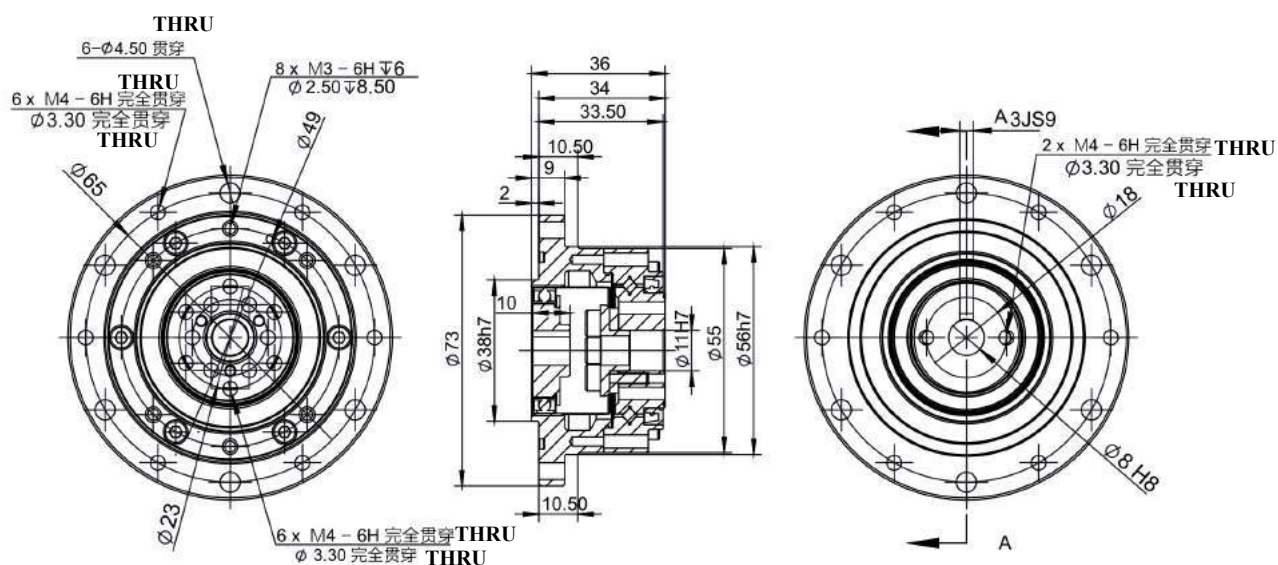
■ CSF-32



Parameter

Items		Gear Ratio			
		50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	76	118	137	137
Permissible Maximum Torque (Start • Stop)	N.m	216	304	333	353
Permissible Maximum Value of Average Load Torque	N.m	75	167	216	216
Instantaneous Permissible Maximum Torque	N.m	200	568	647	686
Permissible Maximum Input Rotating Speed	r/min	4500	4500	4500	4500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000	15000

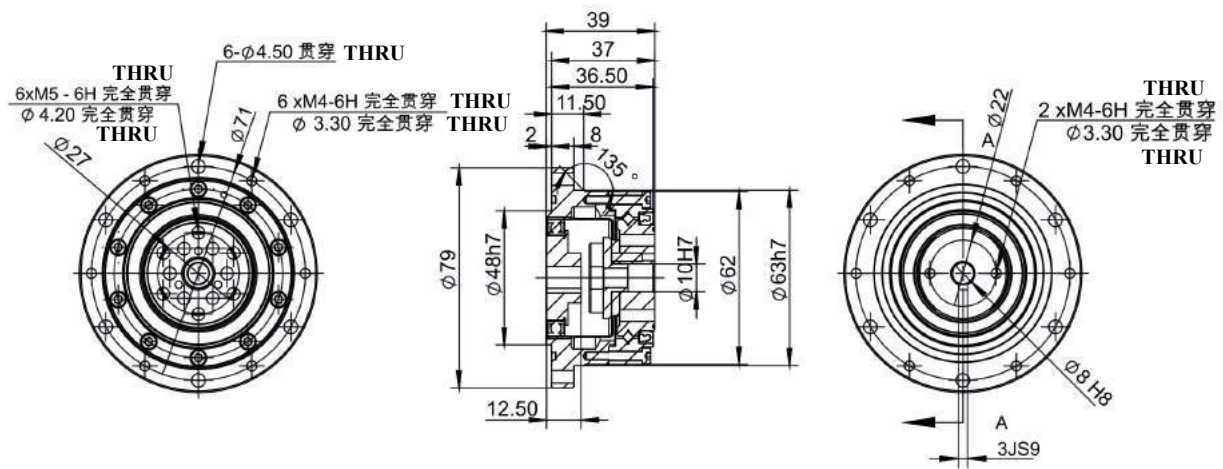
■ **CSF-T-14**



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	4.0	5.4	7.8	7.8
Permissible Maximum Torque (Start • Stop)	N.m	9	18	23	28
Permissible Maximum Value of Average Load Torque	N.m	6.8	6.9	11	11
Instantaneous Permissible Maximum Torque	N.m	17	35	47	54
Permissible Maximum Input Rotating Speed	r/min	8000	8000	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000

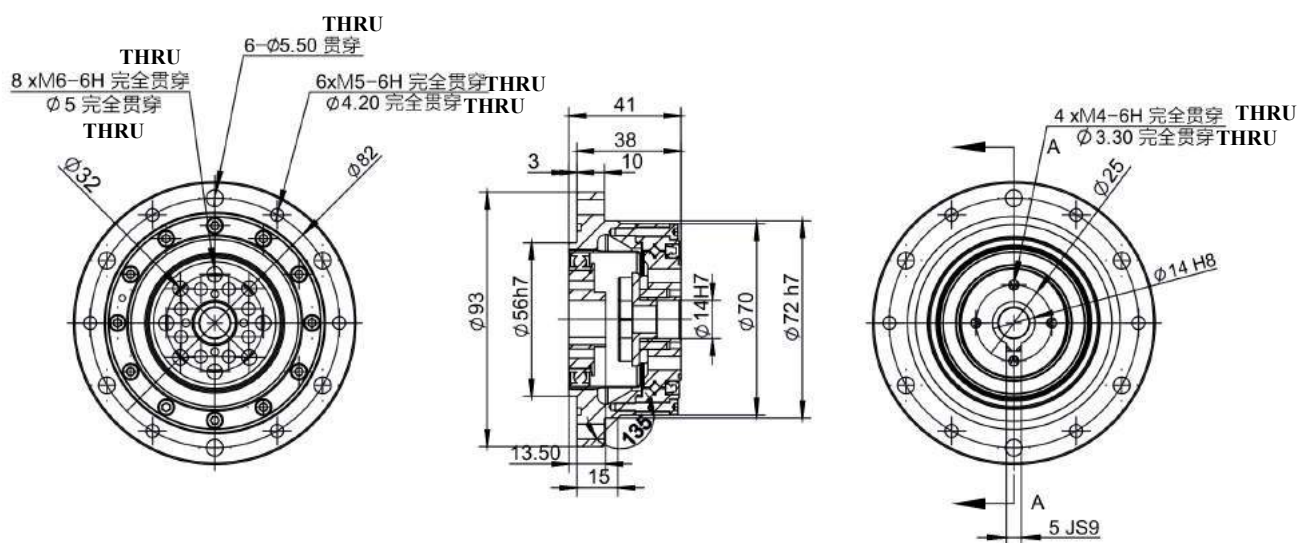
■ CSF-T-17



Parameter

Items		Gear Ratio			
		30K	50K	80K	100K
Rated Torque (Input 2000r/min)	N.m	8.8	16	22	24
Permissible Maximum Torque (Start • Stop)	N.m	16	34	43	54
Permissible Maximum Value of Average Load Torque	N.m	12	26	27	39
Instantaneous Permissible Maximum Torque	N.m	30	70	87	108
Permissible Maximum Input Rotating Speed	r/min	7000	7000	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	10000

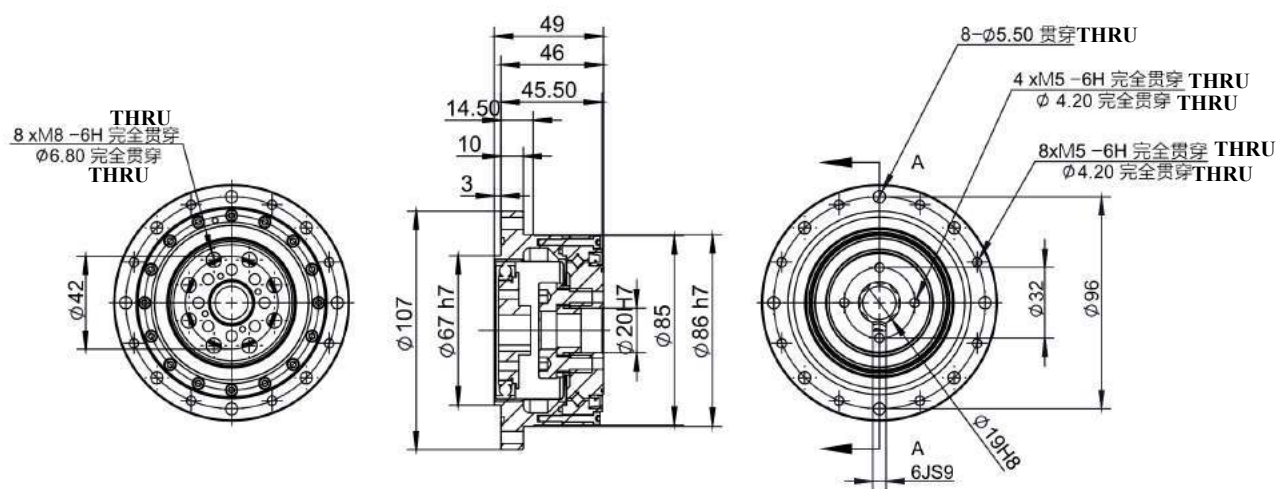
CSF-T-20



Parameter

Items		Gear Ratio				
		30K	50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	15	25	34	40	40
Permissible Maximum Torque (Start • Stop)	N.m	27	56	74	82	87
Permissible Maximum Value of Average Load Torque	N.m	20	34	47	49	49
Instantaneous Permissible Maximum Torque	N.m	50	98	127	147	147
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000

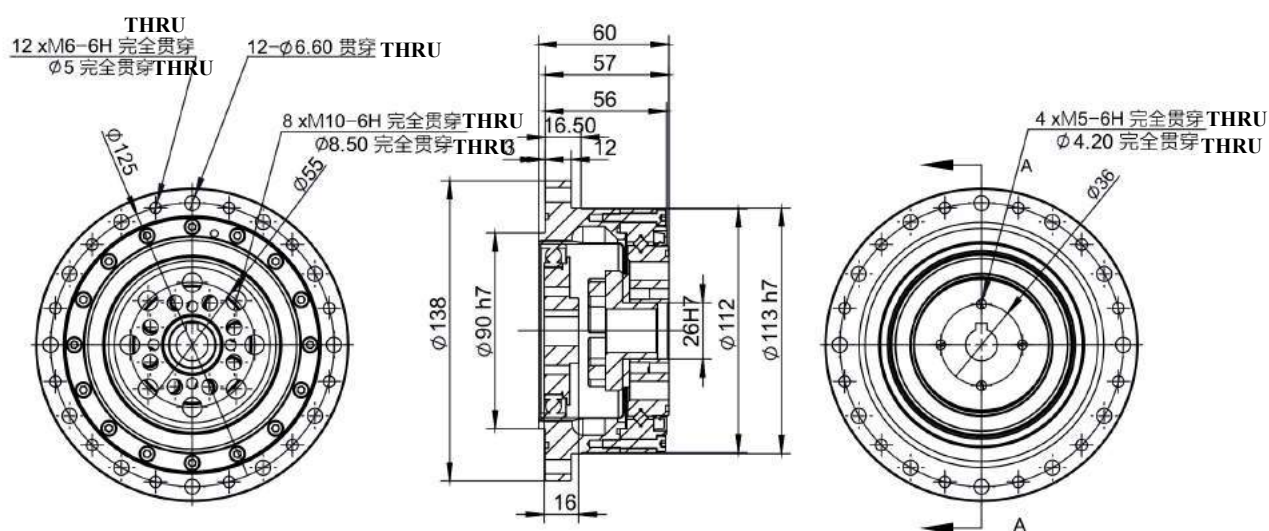
■ CSF-T-25



Parameter

Items		Gear Ratio					
		30K	50K	80K	100K	120K	160K
Rated Torque (Input 2000r/min)	N.m	27	39	63	67	67	67
Permissible Maximum Torque (Start • Stop)	N.m	50	98	137	157	167	176
Permissible Maximum Value of Average Load Torque	N.m	38	55	87	108	108	108
Instantaneous Permissible Maximum Torque	N.m	95	186	255	304	289	314
Permissible Maximum Input Rotating Speed	r/min	5500	5500	5500	5500	5500	5500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 20	≤ 10	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	10000	15000	15000	15000	15000

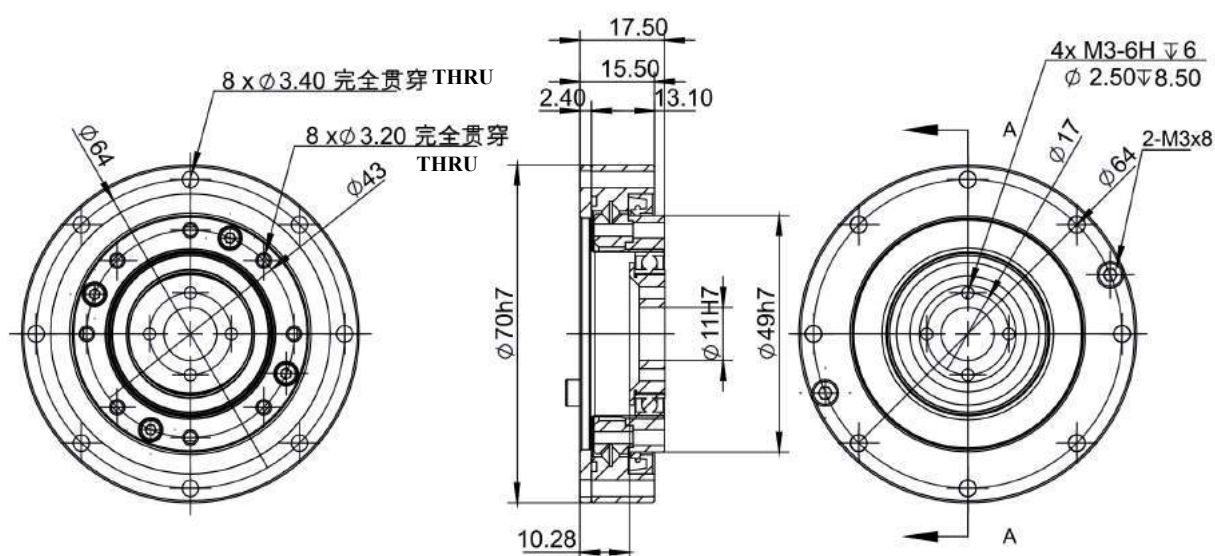
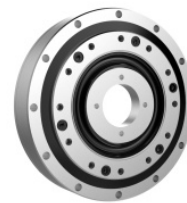
CSF-T-32



Parameter

Items		Gear Ratio			
		50K	80K	100K	120K
Rated Torque (Input 2000r/min)	N.m	76	118	137	137
Permissible Maximum Torque (Start • Stop)	N.m	216	304	333	353
Permissible Maximum Value of Average Load Torque	N.m	75	167	216	216
Instantaneous Permissible Maximum Torque	N.m	200	568	647	686
Permissible Maximum Input Rotating Speed	r/min	4500	4500	4500	4500
Permissible Average Input Rotating Speed	r/min	3500	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000	15000

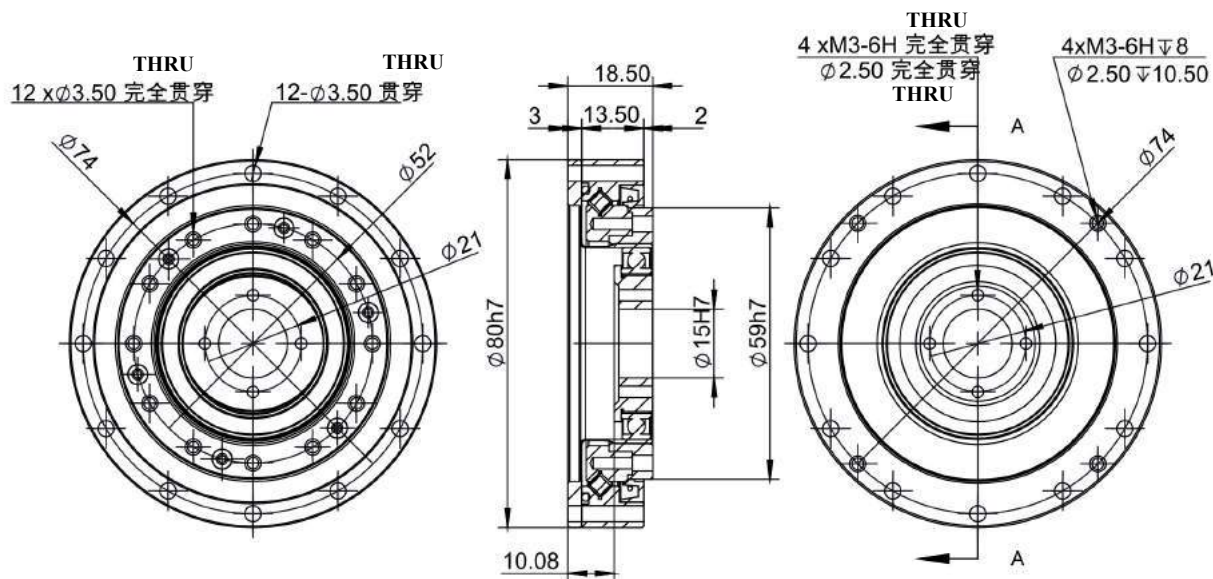
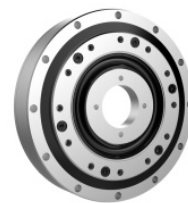
■ SHD-H-14



Parameter

Items		Gear Ratio	
		50K	100K
Rated Torque (Input 2000r/min)	N.m	3.7	5.4
Permissible Maximum Torque (Start • Stop)	N.m	12	19
Permissible Maximum Value of Average Load Torque	N.m	4.8	7.7
Instantaneous Permissible Maximum Torque	N.m	23	35
Permissible Maximum Input Rotating Speed	r/min	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500
Backlash	Arc sec	≤ 20	≤ 10
Designed Lifespan	hour	10000	15000

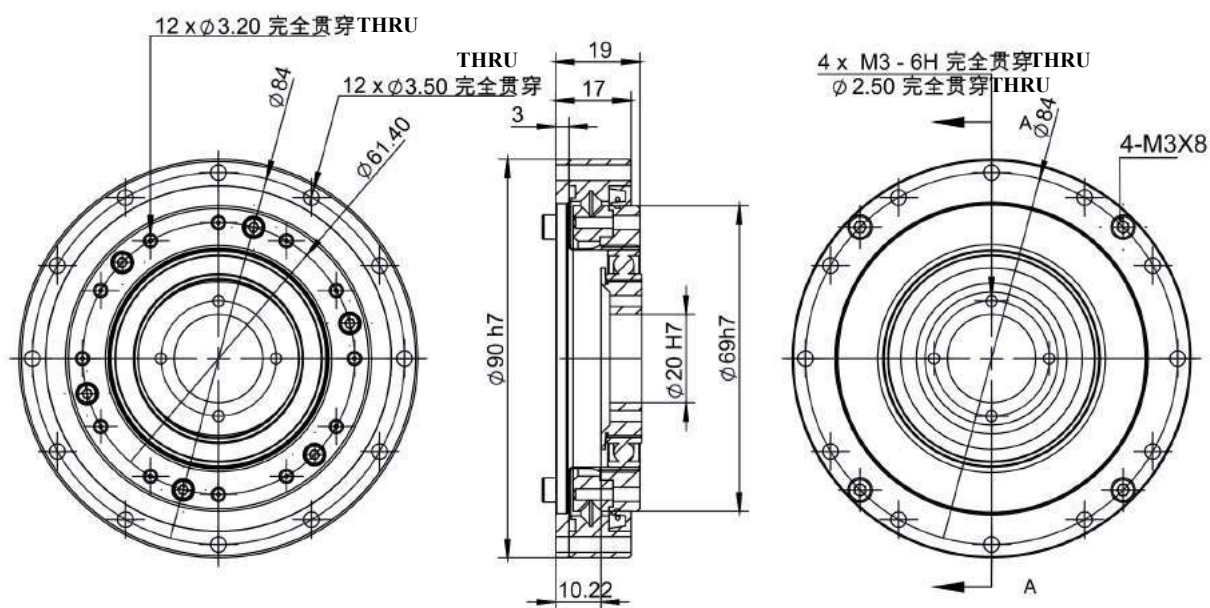
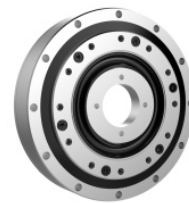
SHD-H-17



Parameter

Items		Gear Ratio	
		50K	100K
Rated Torque (Input 2000r/min)	N.m	11	16
Permissible Maximum Torque (Start • Stop)	N.m	23	37
Permissible Maximum Value of Average Load Torque	N.m	18	27
Instantaneous Permissible Maximum Torque	N.m	48	71
Permissible Maximum Input Rotating Speed	r/min	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500
Backlash	Arc sec	≤ 20	≤ 10
Designed Lifespan	hour	10000	10000

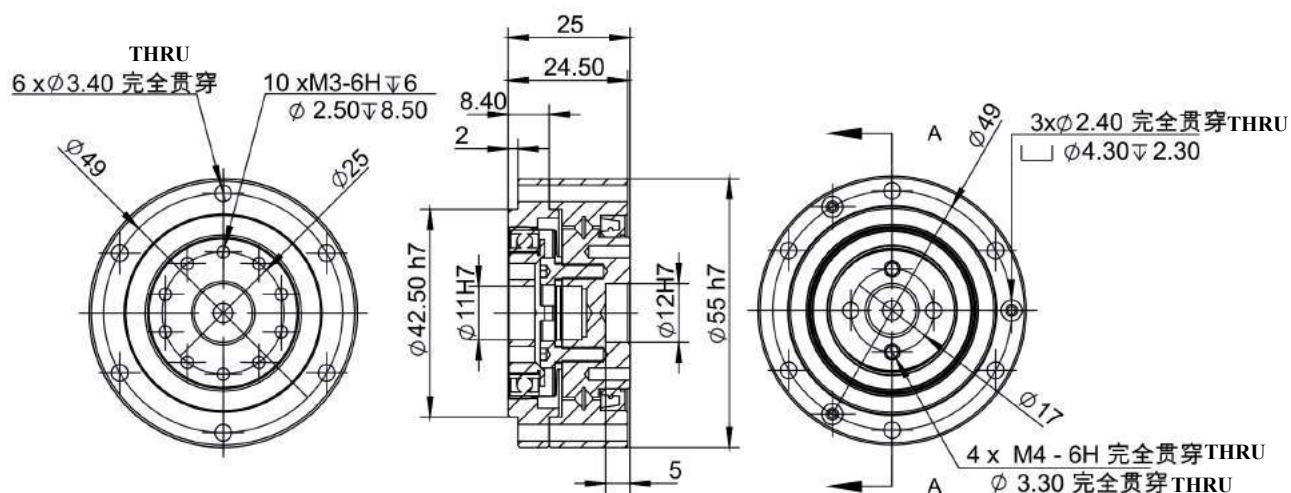
■ SHD-H-20



Parameter

Items		Gear Ratio		
		50K	100K	120K
Rated Torque (Input 2000r/min)	N.m	17	28	28
Permissible Maximum Torque (Start • Stop)	N.m	39	57	61
Permissible Maximum Value of Average Load Torque	N.m	24	34	34
Instantaneous Permissible Maximum Torque	N.m	69	95	95
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000

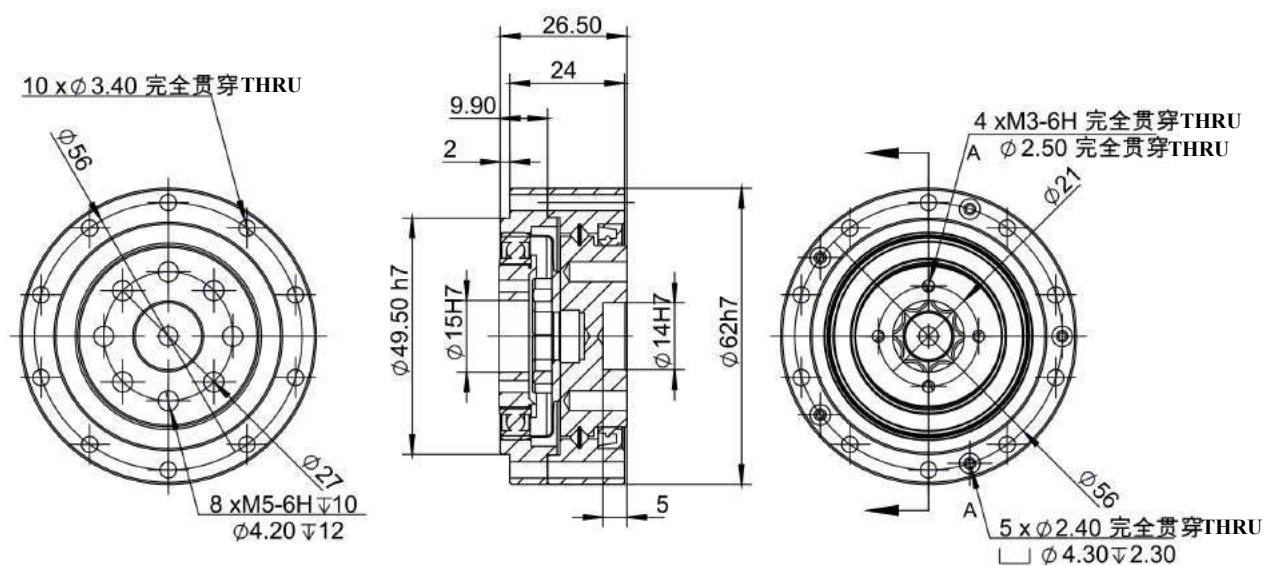
■ CSD-H-14



Parameter

Items		Gear Ratio	
		50K	100K
Rated Torque (Input 2000r/min)	N.m	3.7	5.4
Permissible Maximum Torque (Start • Stop)	N.m	19	19
Permissible Maximum Value of Average Load Torque	N.m	4.8	7.7
Instantaneous Permissible Maximum Torque	N.m	24	35
Permissible Maximum Input Rotating Speed	r/min	8000	8000
Permissible Average Input Rotating Speed	r/min	3500	3500
Backlash	Arc sec	≤ 20	≤ 10
Designed Lifespan	hour	10000	15000

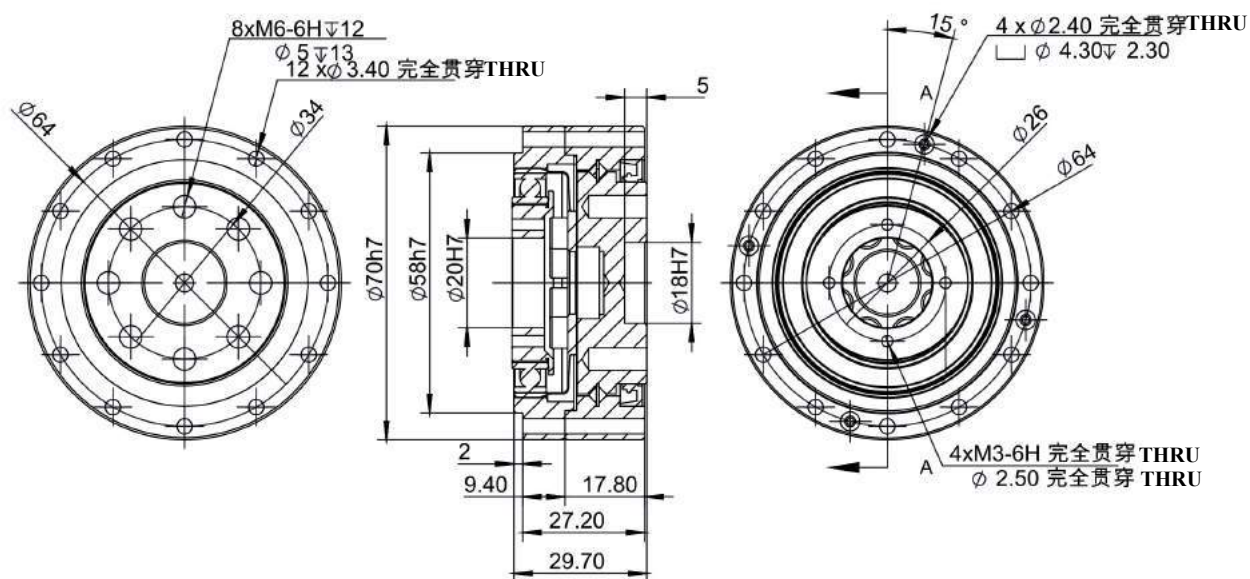
■ CSD-H-17



Parameter

Items		Gear Ratio	
		50K	100K
Rated Torque (Input 2000r/min)	N.m	11	16
Permissible Maximum Torque (Start • Stop)	N.m	23	37
Permissible Maximum Value of Average Load Torque	N.m	18	27
Instantaneous Permissible Maximum Torque	N.m	48	71
Permissible Maximum Input Rotating Speed	r/min	7000	7000
Permissible Average Input Rotating Speed	r/min	3500	3500
Backlash	Arc sec	≤ 20	≤ 10
Designed Lifespan	hour	10000	10000

■ CSD-H-20



Parameter

Items		Gear Ratio		
		50K	100K	120K
Rated Torque (Input 2000r/min)	N.m	17	28	28
Permissible Maximum Torque (Start • Stop)	N.m	39	57	61
Permissible Maximum Value of Average Load Torque	N.m	24	34	34
Instantaneous Permissible Maximum Torque	N.m	69	95	95
Permissible Maximum Input Rotating Speed	r/min	6000	6000	6000
Permissible Average Input Rotating Speed	r/min	3500	3500	3500
Backlash	Arc sec	≤ 20	≤ 10	≤ 10
Designed Lifespan	hour	10000	15000	15000



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