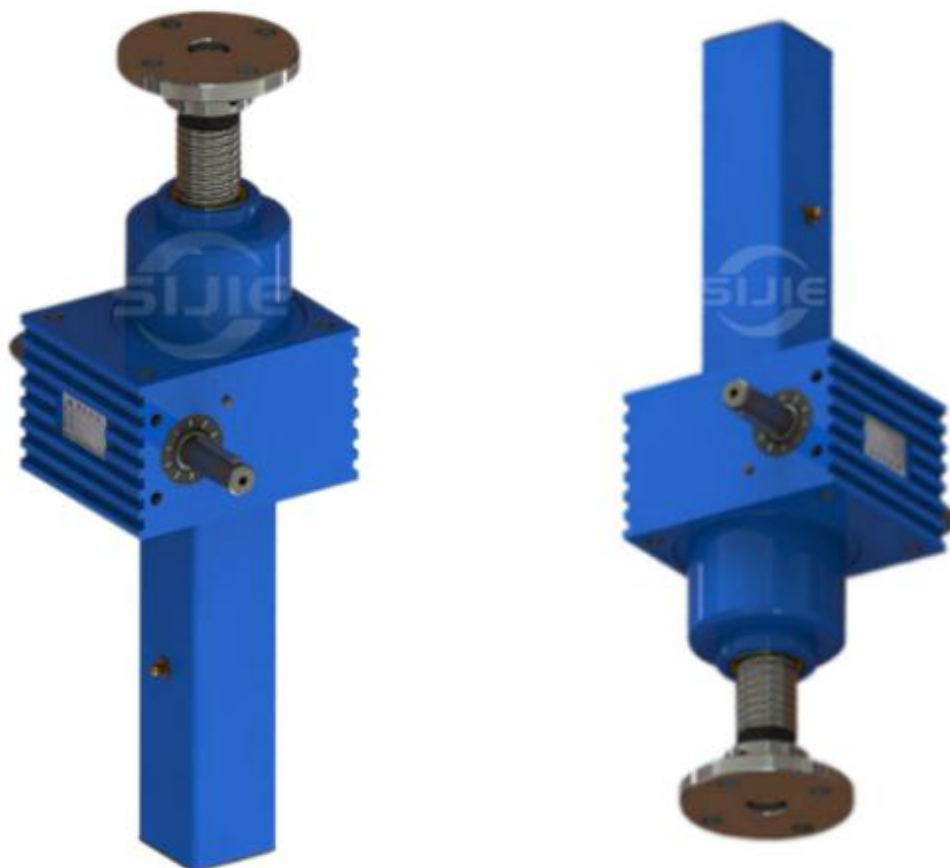


**SJB-Series Ball Screw Jack information**

- 1: Jack Model: SJB10, SJB20, SJB50, SJB80, SJB100, SJB200, SJB300
- 2: Load Capacities From 10KN to 300KN As Standard.
- 3: Ball Lifting Screw With No Self-Locking.
- 4: Translating Screw, Rotating Screw, Keyed Screw Configurations in Upright Or Inverted Mounting Orientation.
- 5: Top End: Top Plate,Clevis End,Threaded End,Plain End,Spherical hinge, Forked head.
- 6: Lifting, Lowering, Pushing, Pulling and Rolling Linear Motions
- 7:Individually Or Multiple Screw Jack Lift System Arrangements Are Available
- 8: Electric Driven,Manual Operated or Both Are Available
- 9: Anti-backlash Nut Device Available, Special Custom Design Available
- 10:Accessories: Protective Tube, Rubber Bellows, Electric Motor, Hand Wheel, Inverter, Limited Switches, Linking Shaft, Coupling, Pillow Block Bearing, Counter, Bevel Gearbox, Swivel Plate and Trunnion Base
- 11: High speed, high precision, high efficiency, high duty cycle, high performance, high frequency operation, low drive torque, long service life.

**SJB-Series Machine Screw Jack Picture:**



**SJB-Series Ball Screw Jack Specifications:**

Jack Model	SJB10	SJB20	SJB50	SJB80	SJB100	SJB200	SJB300
Max. Lifting Force ( KN )	10	20	50	60	80	90	150
Rated Dynamic Load ( KN )	11	17	46	53	71	78	111
Lift Screw Size( mm )	Tr20×5	Tr32×5	Tr40×10	Tr50×10	Tr63×10	Tr80×10	Tr100×20
Gear Ratio ( H )	1/4	1/6	1/7	1/8	1/8	1/8.75	1/10.25
Travel length(mm) per full turn of worm Shaft ( H )	1.25	0.83	1.43	1.25	1.25	2.28	1.95
Starting Efficiency % ( H )	41	32	33	32	32	31	30
Working Efficiency % ( H ) at 1500rpm	59	58	59	58	58	55	53
Max. Permissible power ( KW ) With High Ratio	0.57	1.14	2.2	2.5	3	4	7
Gear Ratio ( L )	1/16	1/24	1/28	1/32	1/32	1/35	1/41
Travel length(mm) per full turn of worm Shaft ( L )	0.31	0.21	0.36	0.31	0.31	0.58	0.488
Starting Efficiency % ( L )	27	20	20	20	20	18	18
Working Efficiency % ( L ) at 1500rpm	42	39	39	39	39	35	35
Max. Permissible power ( KW ) With Low Ratio	0.27	0.55	1.1	1.5	2.2	3.5	5.5
Jack Housing Material	Nodular cast iron						
Weight without stroke ( kg )	6	9.5	23	38	62	78	125
Weight of screw ( kg ), per 100mm stroke	0.5	0.8	1.6	2.5	3.2	4.6	7.3

SJB10 Screw Jack Lifting Load( KN )										
Speed (rpm)	Lifting Speed (mm/s)		10KN				8KN			
			H:1/4		L:1/16		H:1/4		L:1/16	
	H:1/4	L:1/16	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	29.2	7.3	3.37	0.49	1.18	0.17	2.70	0.40	0.95	0.14
900	18.7	4.7	3.62	0.34	1.28	0.12	2.89	0.27	1.02	0.10
700	14.6	3.6	3.75	0.28	1.31	0.10	3.00	0.22	1.05	0.08
500	10.4	2.6	3.98	0.21	1.38	0.07	3.18	0.17	1.11	0.06
300	6.2	1.6	4.14	0.13	1.51	0.05	3.32	0.10	1.21	0.04
100	2.1	0.5	4.42	0.05	1.66	0.02	3.54	0.04	1.33	0.01
50	1.0	0.3	4.63	0.02	1.78	0.01	3.70	0.02	1.42	0.01
Speed (rpm)	Lifting Speed (mm/s)		5KN				2KN			
			H:1/4		L:1/16		H:1/4		L:1/16	
	H:1/4	L:1/16	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	29.2	7.3	1.69	0.247	0.592	0.087	0.674	0.099	0.237	0.035
900	18.7	4.7	1.81	0.170	0.638	0.060	0.723	0.068	0.255	0.024

700	14.6	3.6	1.88	0.138	0.654	0.048	0.751	0.055	0.262	0.019
500	10.4	2.6	1.99	0.104	0.619	0.036	0.796	0.042	0.276	0.014
300	6.2	1.6	2.07	0.065	0.754	0.024	0.829	0.026	0.301	0.009
100	2.1	0.5	2.21	0.023	0.829	0.009	0.884	0.009	0.332	0.003
50	1.0	0.3	2.31	0.012	0.888	0.005	0.925	0.005	0.355	0.002

SJB20 Screw Jack Lifting Load( KN )										
Speed (rpm)	Lifting Speed (mm/s)		20KN				15KN			
			H:1/6		L:1/24		H:1/6		L:1/24	
	H:1/6	L:1/24	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	19.4	4.8	4.56	0.67	1.69	0.25	3.42	0.50	1.27	0.19
900	12.4	3.1	4.80	0.45	1.74	0.16	3.60	0.34	1.30	0.12
700	9.7	2.4	4.99	0.37	1.79	0.13	3.74	0.27	1.34	0.10
500	6.9	1.7	5.28	0.28	1.83	0.10	3.96	0.21	1.38	0.07
300	4.1	1.0	5.50	0.17	2.00	0.06	4.13	0.13	1.50	0.05
100	1.4	0.3	5.87	0.06	2.20	0.02	4.40	0.05	1.65	0.02
50	0.7	0.2	6.14	0.03	2.36	0.01	4.61	0.02	1.77	0.01
Speed (rpm)	Lifting Speed (mm/s)		10KN				5KN			
			H:1/6		L:1/24		H:1/6		L:1/24	
	H:1/6	L:1/24	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	19.4	4.8	2.28	0.334	0.847	0.124	1.139	0.167	0.423	0.062
900	12.4	3.1	2.40	0.226	0.869	0.082	1.201	0.113	0.435	0.041
700	9.7	2.4	2.49	0.183	0.893	0.065	1.246	0.091	0.446	0.033
500	6.9	1.7	2.64	0.138	0.917	0.048	1.321	0.069	0.459	0.024
300	4.1	1.0	2.75	0.086	1.001	0.031	1.376	0.043	0.500	0.016
100	1.4	0.3	2.94	0.031	1.101	0.012	1.468	0.015	0.550	0.006
50	0.7	0.2	3.07	0.016	1.180	0.006	1.536	0.008	0.590	0.003

SJB50 Screw Jack Lifting Load( KN )										
Speed (rpm)	Lifting Speed (mm/s)		50KN				35KN			
			H:1/7		L:1/28		H:1/7		L:1/28	
	H:1/7	L:1/28	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	33.4	8.3	19.29	2.83	7.30	1.07	13.50	1.98	5.11	0.75
900	21.4	5.4	20.69	1.95	7.49	0.71	14.48	1.36	5.24	0.49
700	16.7	4.2	21.47	1.57	7.69	0.56	15.03	1.10	5.38	0.369
500	11.9	3.0	22.76	1.19	7.90	0.41	15.93	0.83	5.53	0.29
300	7.1	1.8	23.71	0.74	8.62	0.27	16.60	0.52	6.04	0.19
100	2.4	0.6	25.29	0.26	9.48	0.10	17.70	0.19	6.64	0.07
50	1.2	0.3	26.47	0.14	10.16	0.05	18.53	0.10	7.11	0.04
Speed (rpm)	Lifting Speed (mm/s)		25KN				10KN			
			H:1/7		L:1/28		H:1/7		L:1/28	
	H:1/7	L:1/28	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	33.4	8.3	9.64	1.414	3.648	0.535	3.858	0.566	1.459	0.214
900	21.4	5.4	10.35	0.975	3.774	0.353	4.138	0.390	1.497	0.141

700	16.7	4.2	10.74	0.787	3.845	0.282	4.294	0.315	1.538	0.113
500	11.9	3.0	11.38	0.596	3.952	0.207	4.552	0.238	1.581	0.083
300	7.1	1.8	11.85	0.372	4.311	0.135	4.742	0.149	1.724	0.054
100	2.4	0.6	12.64	0.132	4.742	0.050	5.058	0.053	1.897	0.020
50	1.2	0.3	13.23	0.069	5.081	0.027	5.293	0.028	2.032	0.011

SJB80 Screw Jack Lifting Load( KN )										
Speed (rpm)	Lifting Speed (mm/s)		80KN				60KN			
			H:1/8		L:1/32		H:1/8		L:1/32	
	H:1/8	L:1/32	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	29.2	7.3	27.44	4.02	10.20	1.50	20.58	3.02	7.65	1.12
900	18.7	4.7	28.94	2.73	10.47	0.99	21.70	2.05	7.85	0.74
700	14.6	3.6	30.03	2.20	10.75	0.79	22.52	1.65	8.07	0.59
500	10.4	2.6	31.83	1.67	11.05	0.58	23.87	1.25	8.29	0.43
300	6.2	1.6	33.16	1.04	12.06	0.38	24.87	0.78	9.04	0.28
100	2.1	0.5	35.37	0.37	13.26	0.14	26.53	0.28	9.95	0.10
50	1.0	0.3	37.02	0.19	14.21	0.07	27.76	0.15	10.66	0.06
Speed (rpm)	Lifting Speed (mm/s)		40KN				20KN			
			H:1/8		L:1/32		H:1/8		L:1/32	
	H:1/8	L:1/32	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	29.2	7.3	13.72	2.001	5.101	0.748	6.681	1.006	2.551	0.374
900	18.7	4.7	14.47	1.364	5.236	0.493	7.235	0.682	2.618	0.247
700	14.6	3.6	15.02	1.101	5.377	0.394	7.508	0.550	2.689	0.197
500	10.4	2.6	15.92	0.833	5.527	0.289	7.958	0.417	2.763	0.145
300	6.2	1.6	16.58	0.521	6.029	0.189	8.290	0.260	3.105	0.095
100	2.1	0.5	17.69	0.185	6.632	0.069	8.843	0.093	3.316	0.035
50	1.0	0.3	18.51	0.097	7.106	0.037	9.254	0.048	3.553	0.019

SJB100 Screw Jack Lifting Load( KN )										
Speed (rpm)	Lifting Speed (mm/s)		100KN				80KN			
			H:1/8		L:1/32		H:1/8		L:1/32	
	H:1/8	L:1/32	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	29.2	7.3	34.30	5.03	12.75	1.87	27.44	4.02	10.20	1.50
900	18.7	4.7	26.17	3.41	13.09	1.23	28.94	2.73	10.47	0.99
700	14.6	3.6	37.54	2.75	13.44	0.99	30.03	2.20	10.75	0.79
500	10.4	2.6	39.79	2.08	13.82	0.72	31.83	1.67	11.05	0.58
300	6.2	1.6	41.45	1.30	15.07	0.47	33.16	1.04	12.06	0.38
100	2.1	0.5	44.21	0.46	16.58	0.17	35.37	0.37	13.26	0.14
50	1.0	0.3	46.27	0.24	17.76	0.09	37.02	0.19	14.21	0.07
Speed (rpm)	Lifting Speed (mm/s)		50KN				20KN			
			H:1/8		L:1/32		H:1/8		L:1/32	
	H:1/8	L:1/32	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	29.2	7.3	17.15	2.514	6.377	0.935	6.861	1.006	2.551	0.374
900	18.7	4.7	18.09	1.705	6.545	0.617	7.235	0.682	2.618	0.247

700	14.6	3.6	18.77	1.376	6.722	0.493	7.508	0.550	2.689	0.197
500	10.4	2.6	19.90	1.042	6.908	0.362	7.958	0.417	3.763	0.145
300	6.2	1.6	20.72	0.651	7.536	0.237	8.290	0.260	3.015	0.095
100	2.1	0.5	22.11	0.231	8.290	0.087	8.843	0.093	3.316	0.035
50	1.0	0.3	23.13	0.121	8.882	0.047	9.254	0.048	3.553	0.019

### SJB300 Screw Jack Lifting Load( KN )

Speed (rpm)	Lifting Speed (mm/s)		300KN				200KN			
			H:1/10.25		L:1/41		H:1/10.25		L:1/41	
	H:1/10.25	L:1/41	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	45.5	11.4	175.68	25.75	66.51	9.75	117.12	17.17	44.34	6.50
900	29.2	7.3	182.57	17.21	70.54	6.65	121.72	11.47	47.03	4.43
700	22.7	5.7	186.22	13.65	75.09	5.50	124.15	9.10	50.06	3.67
500	16.2	4.1	190.03	9.95	80.27	4.20	126.68	6.63	53.51	2.80
300	9.7	2.4	198.11	6.22	83.14	2.61	132.07	4.15	55.42	1.74
100	3.2	0.8	206.92	2.17	86.22	0.90	137.94	1.44	57.48	0.60
50	1.6	0.4	216.54	1.13	89.53	0.47	144.36	0.76	59.69	0.31

Speed (rpm)	Lifting Speed (mm/s)		150KN				100KN			
			H:1/10.25		L:1/41		H:1/10.25		L:1/41	
	H:10.25	L:1/41	N.m	KW	N.m	KW	N.m	KW	N.m	KW
1400	45.5	11.4	87.84	12.877	33.254	4.875	58.561	8.585	22.170	3.250
900	29.2	7.3	91.29	8.063	35.027	3.324	60.858	5.735	23.513	2.216
700	22.7	5.7	93.11	6.825	37.545	2.752	62.075	4.550	25.030	1.835
500	16.2	4.1	95.01	4.874	40.135	2.101	63.342	3.316	26.756	1.401
300	9.7	2.4	99.06	3.112	41.568	1.306	66.037	2.074	27.712	0.871
100	3.2	0.8	103.46	1.083	43.108	0.451	68.972	0.722	28.738	0.301
50	1.6	0.4	108.27	0.567	29.844	0.156	72.180	0.378	29.844	0.156

### SJB-Series Ball Screw Jack Ordering information

**SJB100 - US - T - C - 1/8 - 300 -P**

**1 2 3 4 5 6 7**

#### 1: Jack Model

SJB10, SJB20, SJB50, SJB80, SJB100, SJB200, SJB300

#### 2: Screw Configuration & Mounting Orientation

**US:** Upright translating screw

**UK:** Upright keyed screw

**UR:** Upright rotating screw

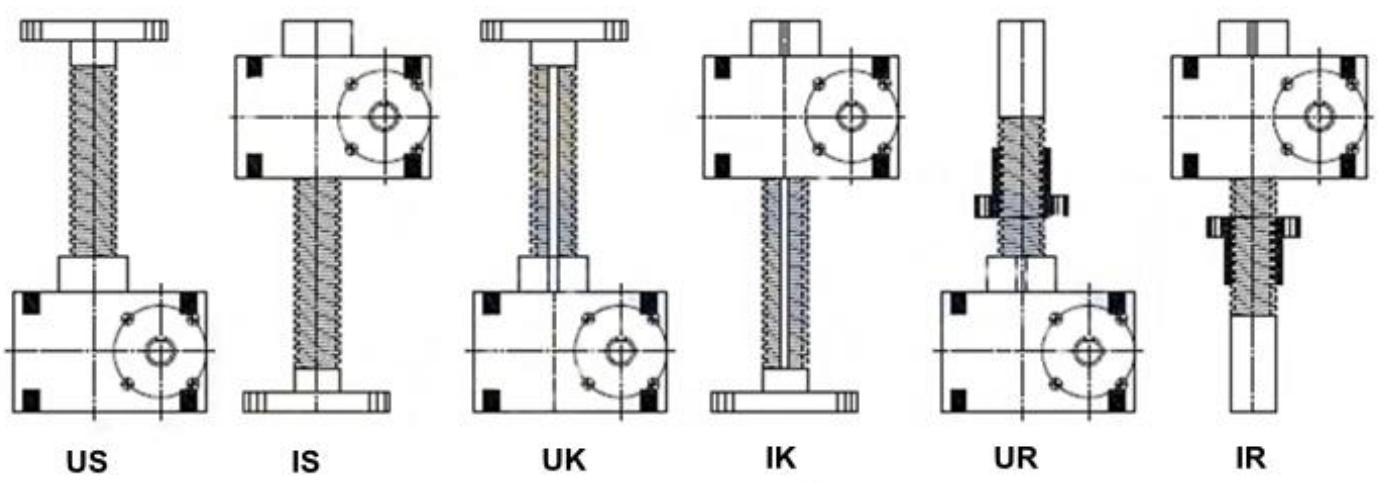
**IS:** Inverted translating screw

**IK:** Inverted keyed screw







**IR:** Inverted rotating screw

Note: US, IS (Screw rotation, do axial motion) UK, IK (Screw anti-rotation, do axial motion)

UR,IR(Screw fixed rotation, traveling nut do axial motion)



**3: Screw Top End**

					
<b>Top plate</b>	<b>Clevis end</b>	<b>Thread end</b>	<b>Plain end</b>	<b>Spherical hinge</b>	<b>Forked head</b>

**4: Worm Shaft Input Types**

**A:** left side worm shaft input.

**B:** right side worm shaft input.

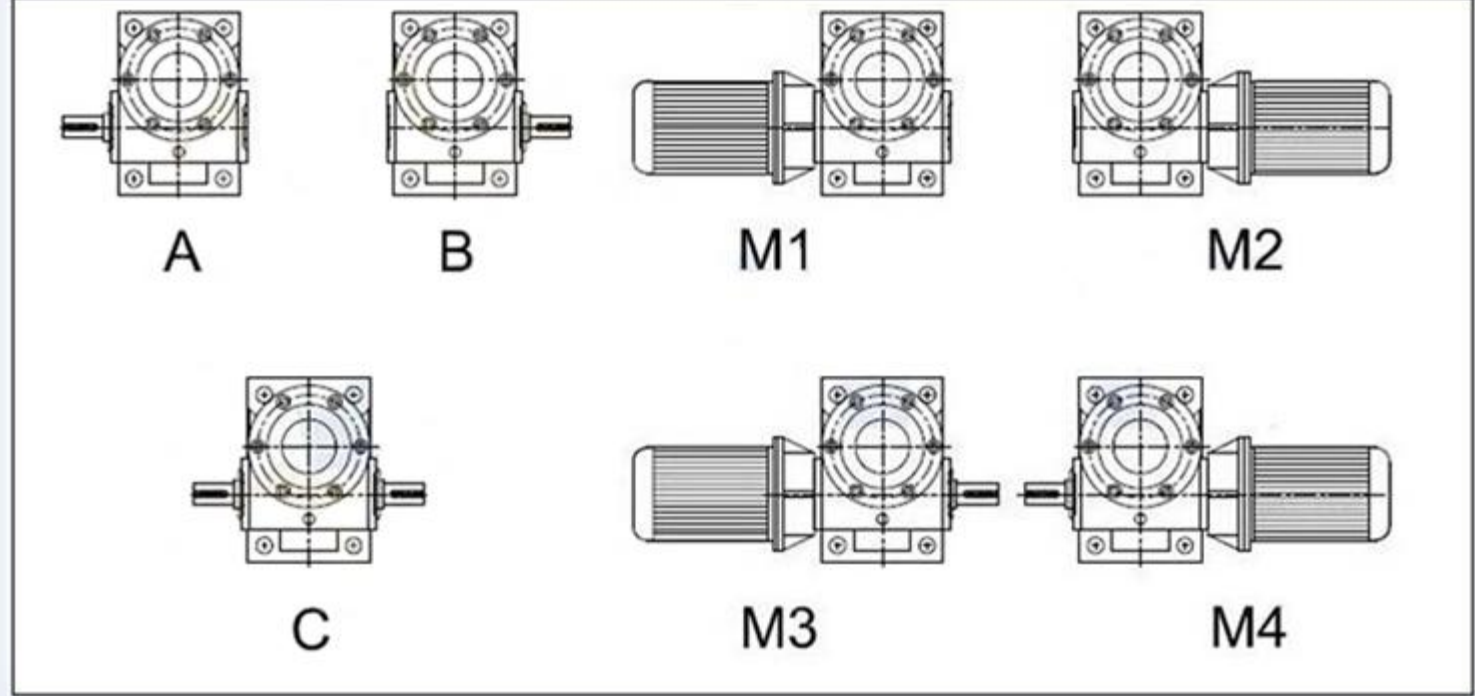
**C:** double worm shaft input.

**M1:** left side motor flange direct input.

**M2:** right side motor flange direct input.

**M3:** left side motor flange direct input, right side worm shaft input.

**M4:** right side motor flange direct input, left side worm shaft input.



**5: Gear Ratio:**

SJB10: 1/4, 1/16.

SJB20: 1/6, 1/24.

SJC50: 1/7, 1/28.

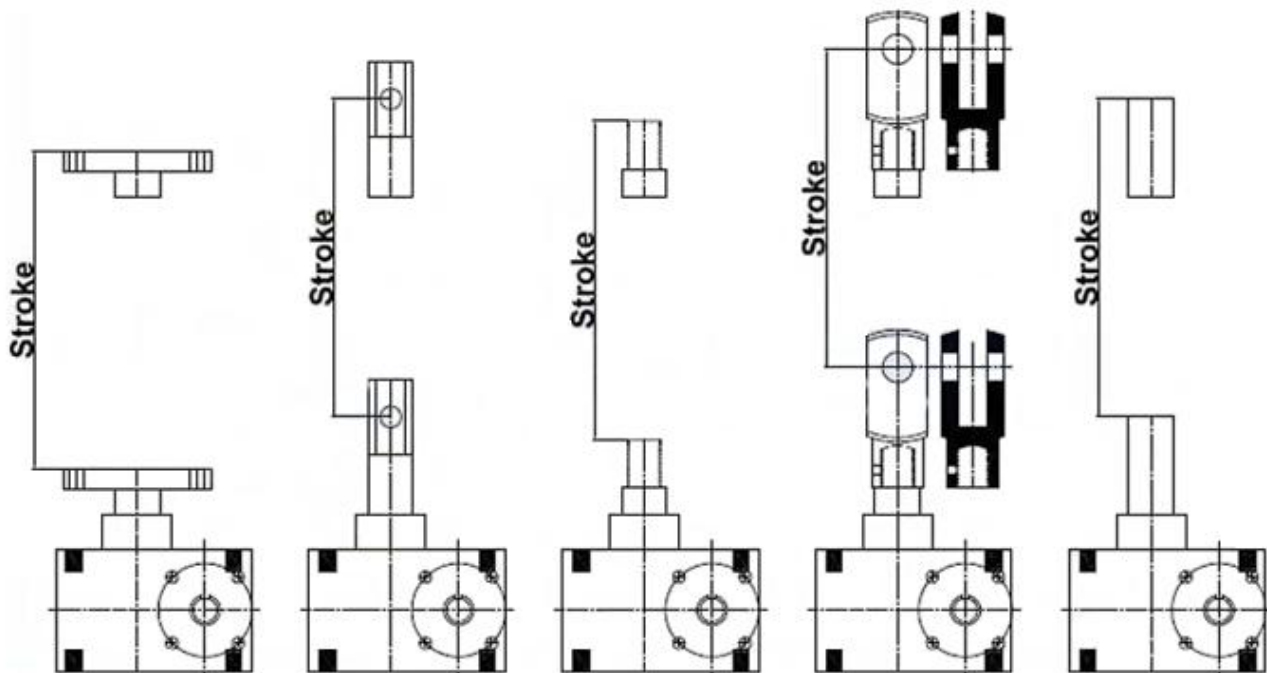
SJC80: 1/8, 1/32.

SJC100: 1/8, 1/32

SJC200: 1/8.75, 1/35.

SJC300: 1/10.25, 1/41

**6: Travel Stroke**



**7: Accessories**

N: Standard Jack, No additional accessories

P: Protective Tube

R: Rubber Bellow

Y: Hand Wheel

Other accessories, please check below picture



**Steel cover**



**Rubber bellows**



**Hand wheel**



**Bevel Gearbox**



**swivel plate  
mounting base**



**limited switches**



**inverter**



**pillow block bearing**



**Gear Motor**



**Planetary Gear Reducer**

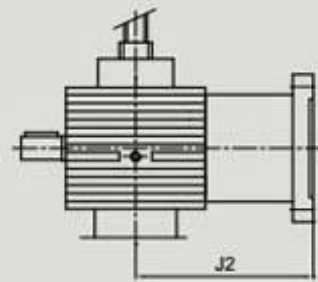
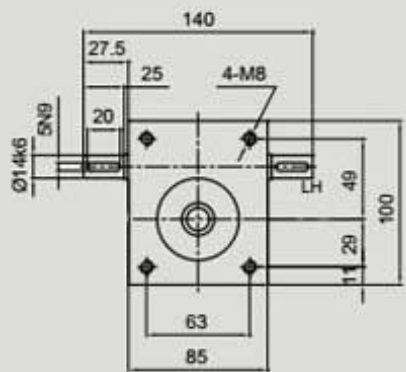
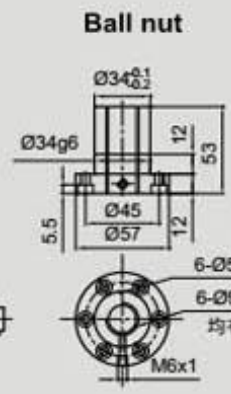
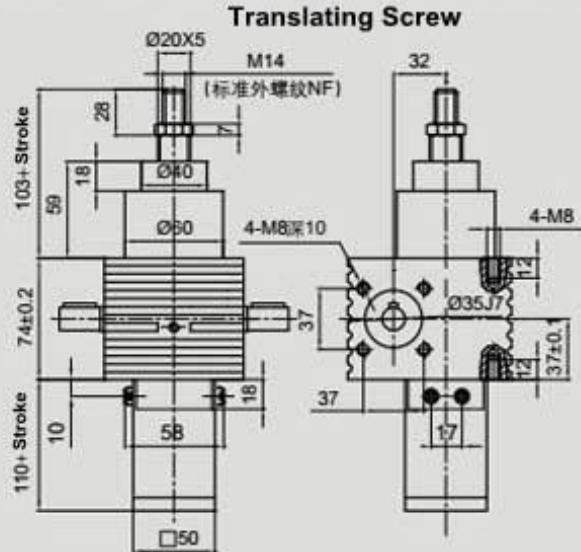
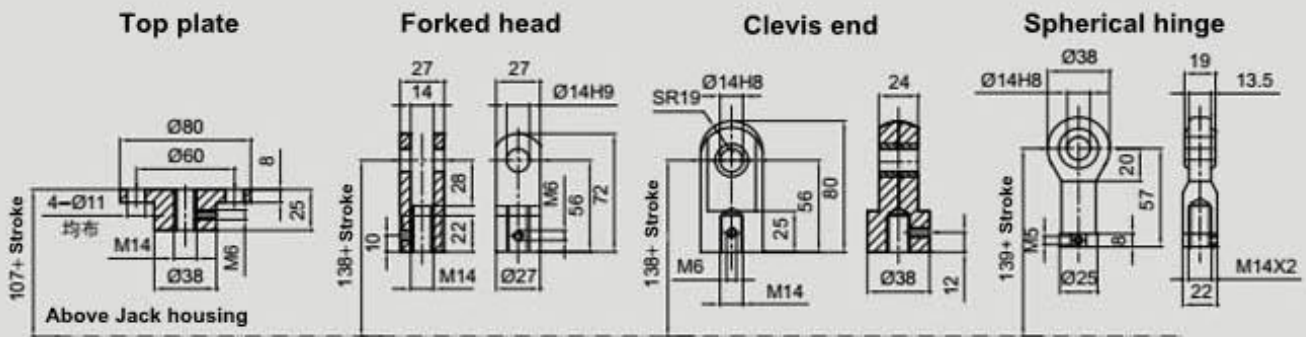


**DC12V/24V Motor**

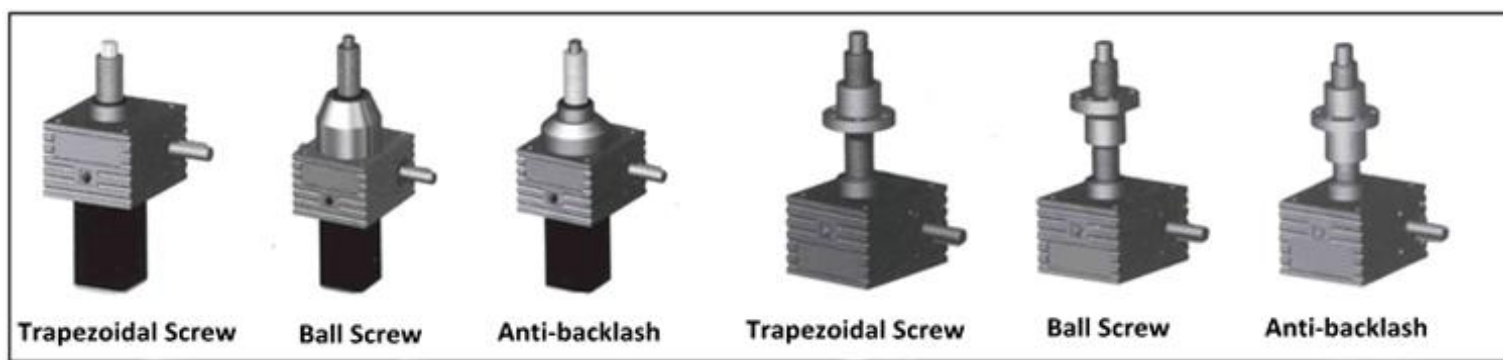


**AC 100V-460V Motor**



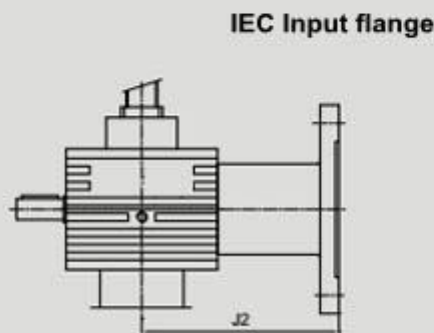
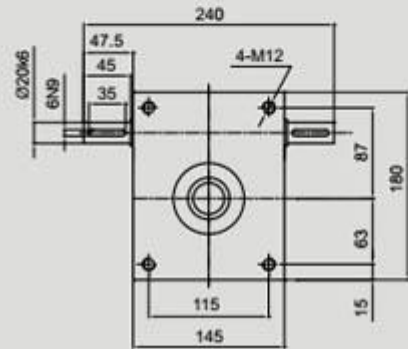
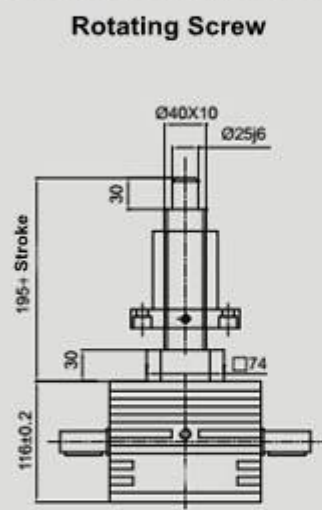
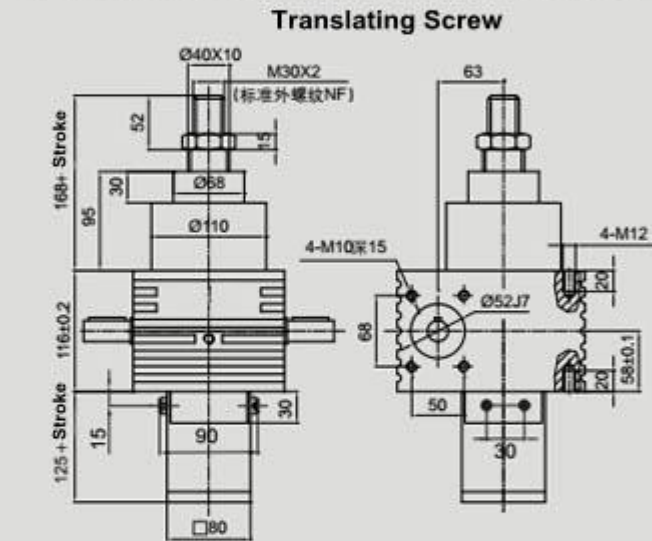
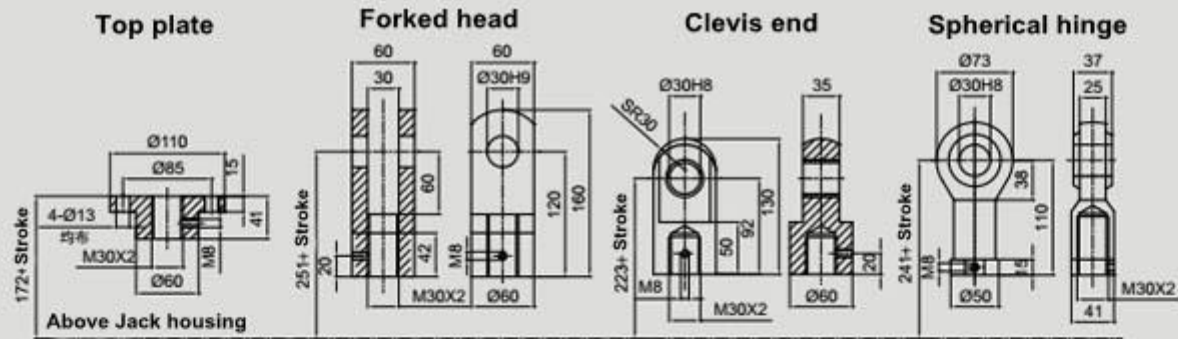


Motor frame	J2
63B14	62.5
71B14	115.5
80B14	125.5

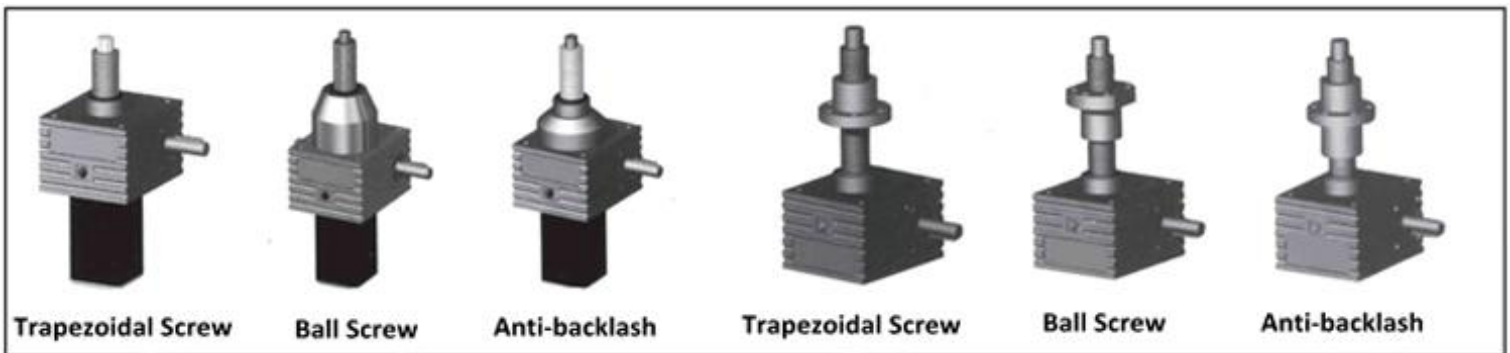


SJB20 Ball Screw Jack Dimensions



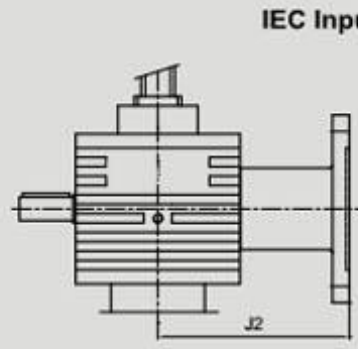
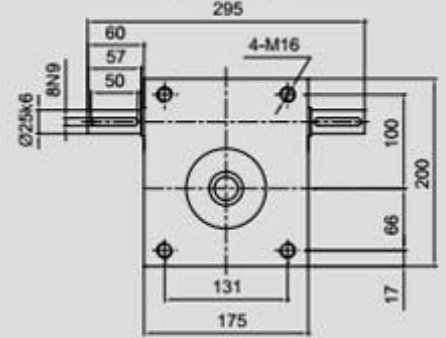
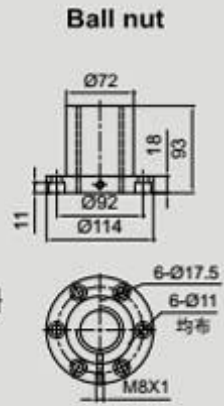
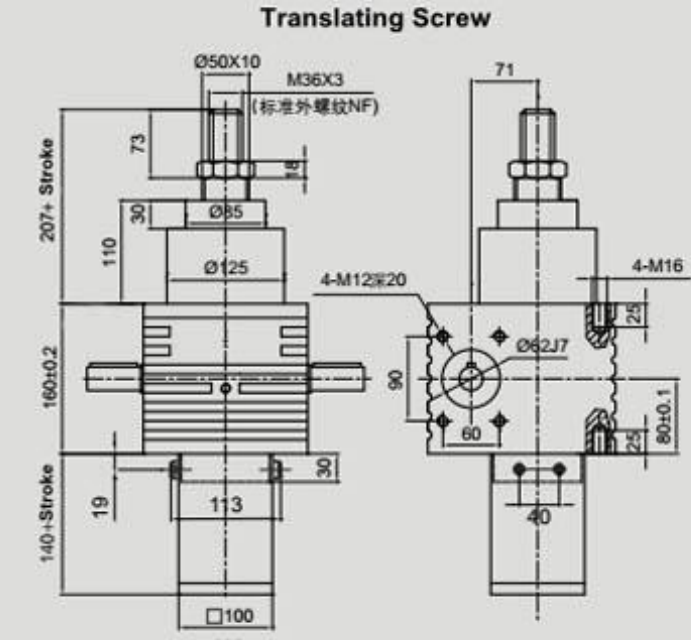
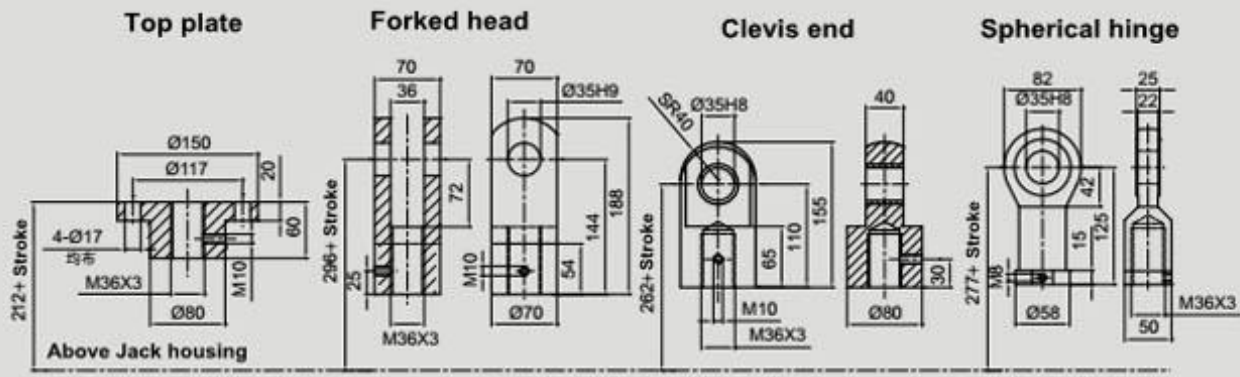


Motor frame	J2
80B14	98
90B5	190
100B14	200

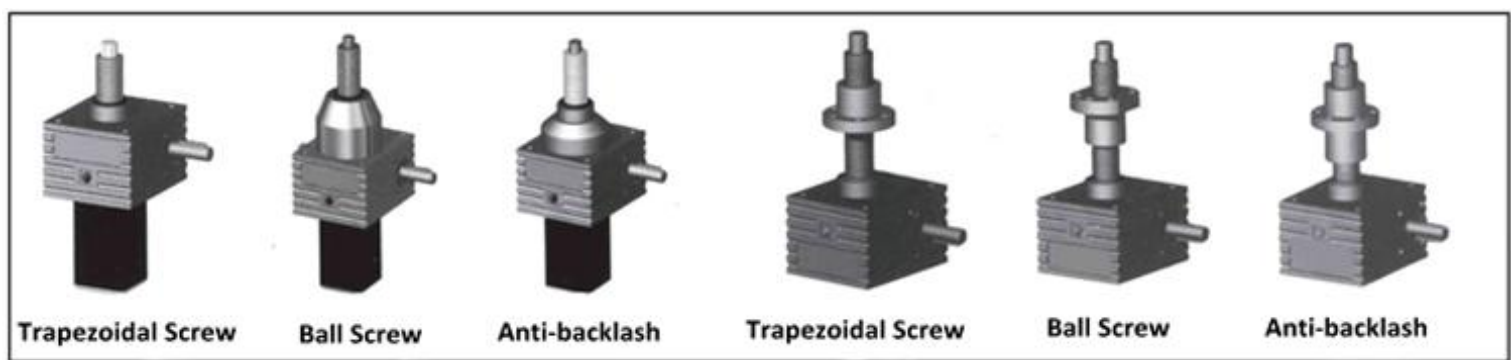


SJB80 Ball Screw Jack Dimensions

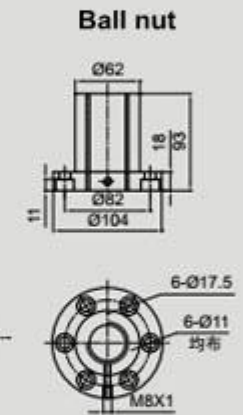
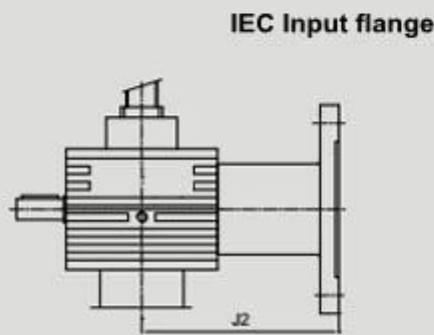
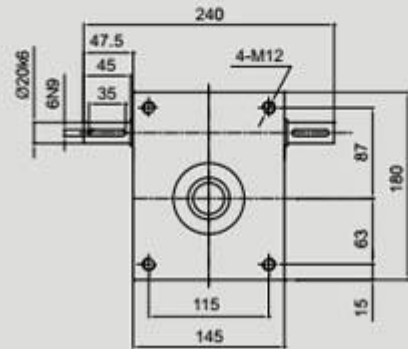
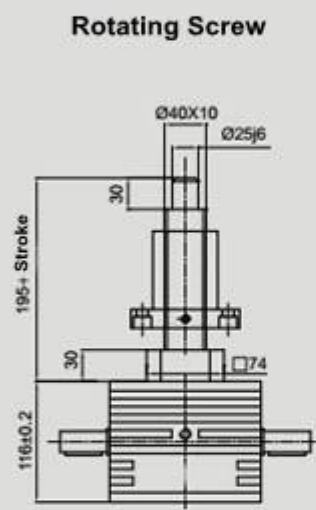
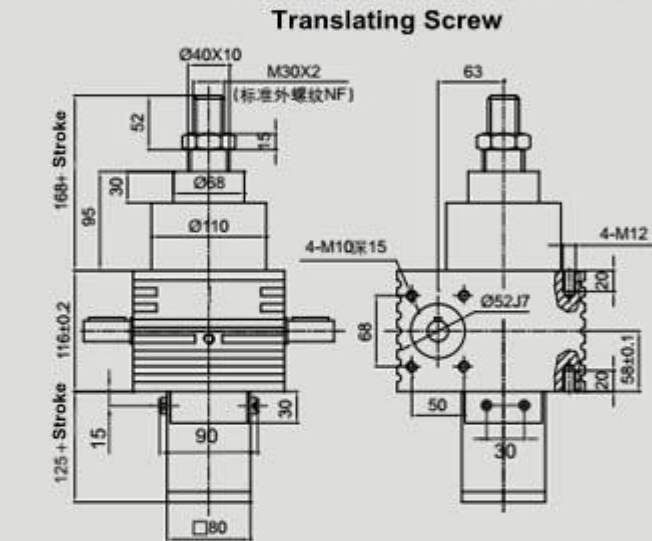
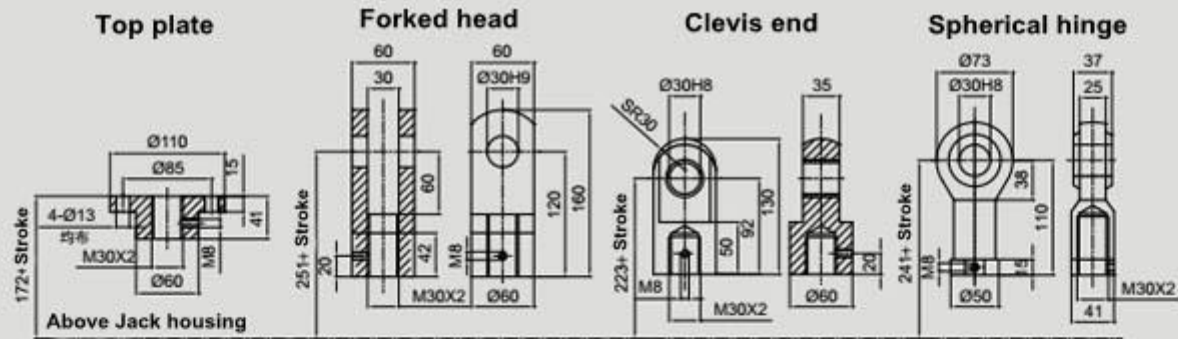




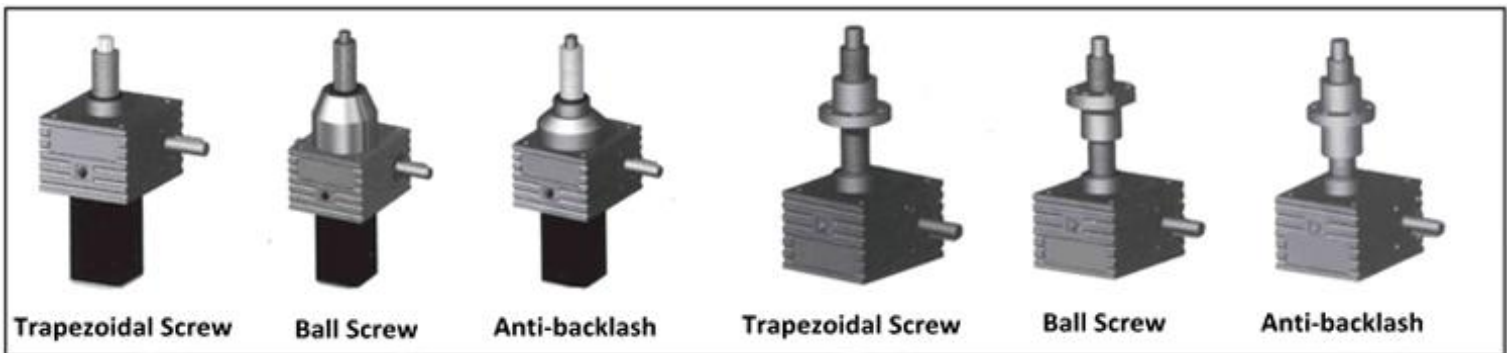
Motor frame	J2
80B14	115
90B14	115
100B5	231



SJB100 Ball Screw Jack Dimensions



Motor frame	J2
80B14	98
90B5	190
100B14	200

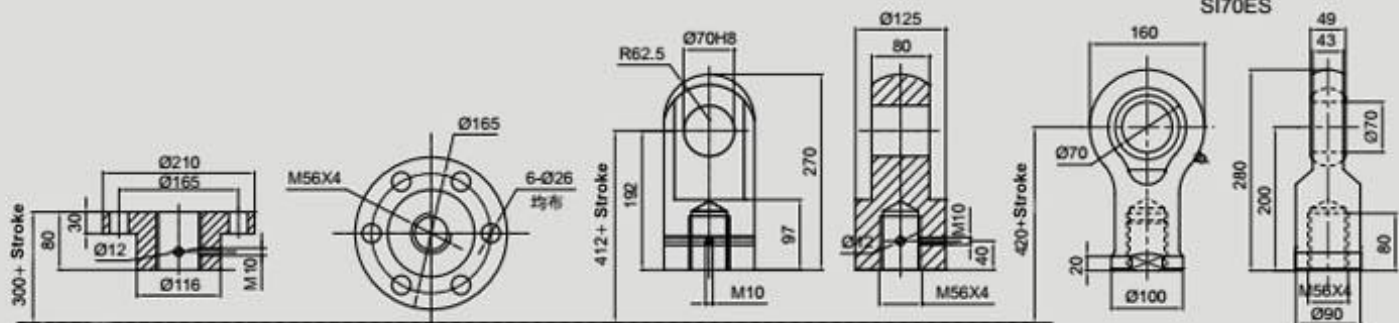


SJB200 Ball Screw Jack Dimensions

**Top plate**

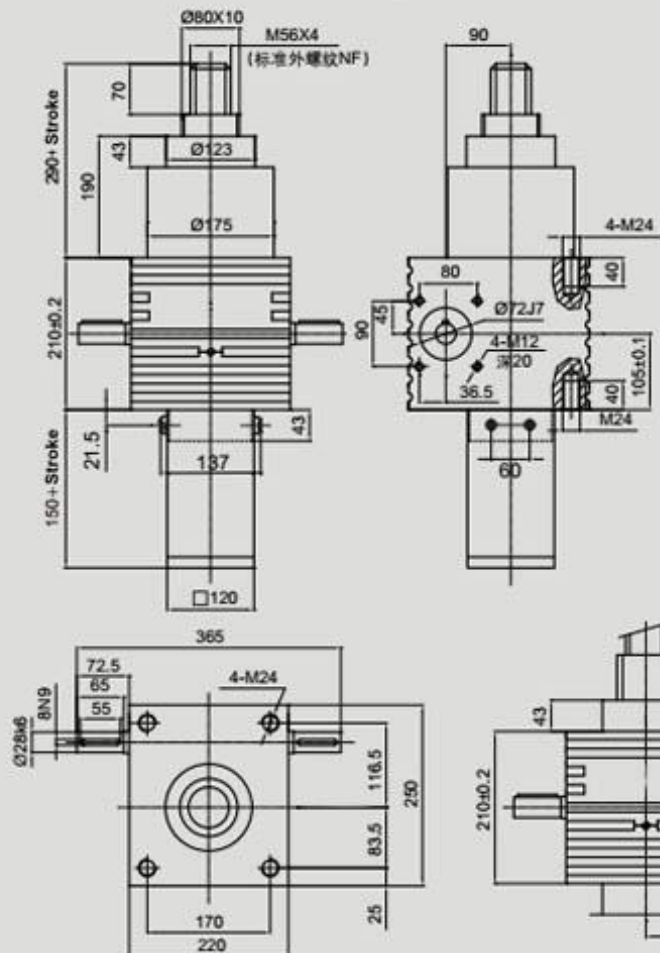
**Clevis end**

**Spherical hinge**

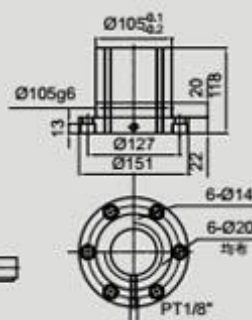


**Translating Screw**

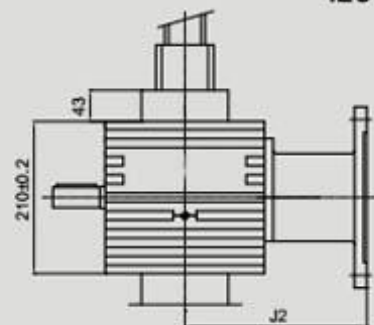
**Rotating Screw**



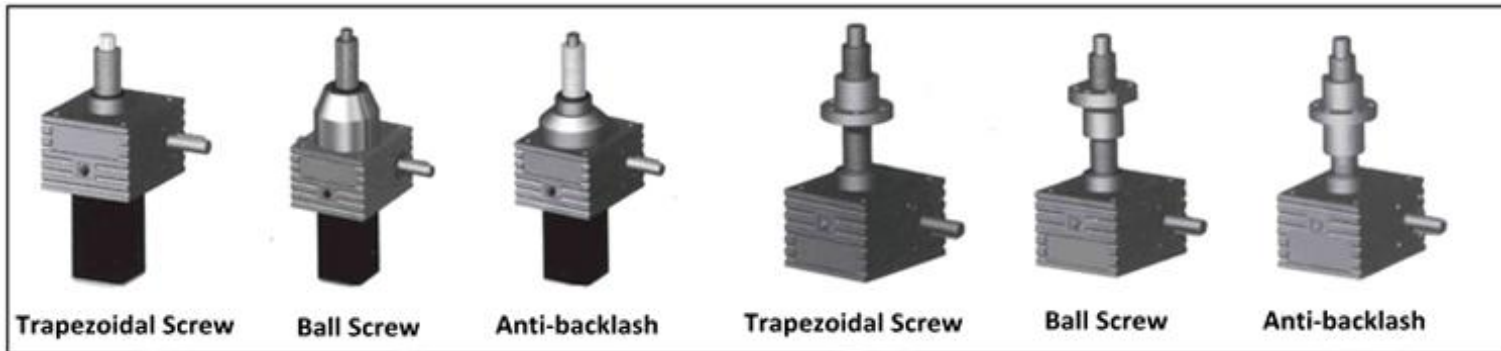
**Ball nut**



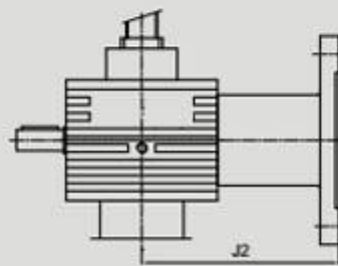
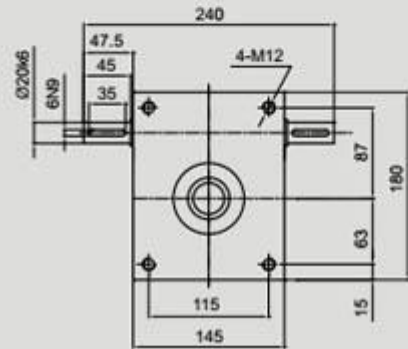
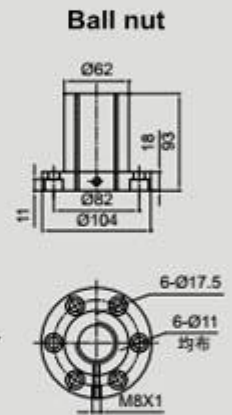
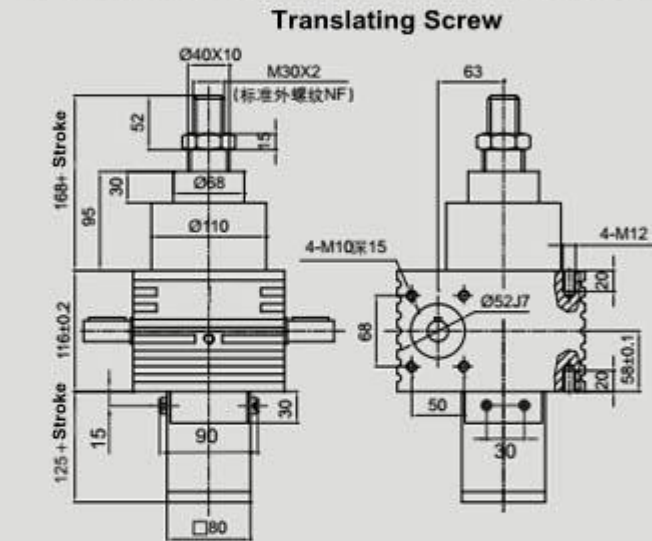
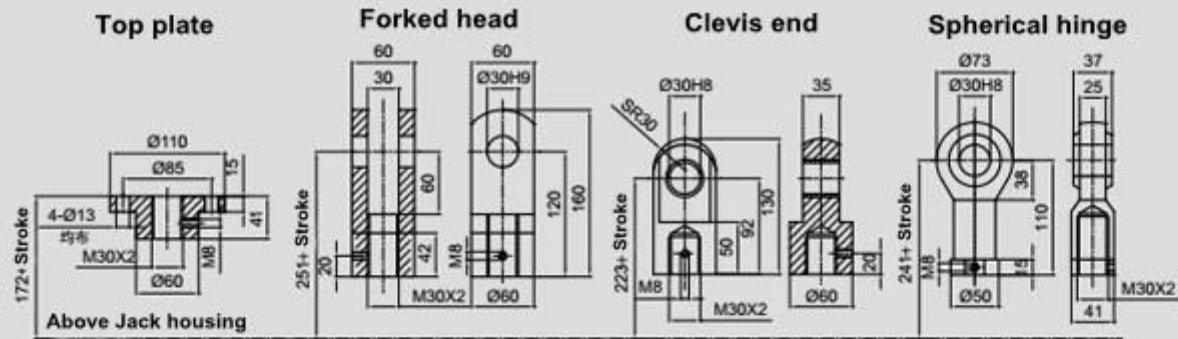
**IEC Input flange**



Motor frame	J2
90B5	138
100B5	268
112B5	268







Motor frame	J2
80B14	98
90B5	190
100B14	200

