

SIJIE INDUSTRIAL CO., LTD

Screw Jack, Bevel Gearbox Manufacturer

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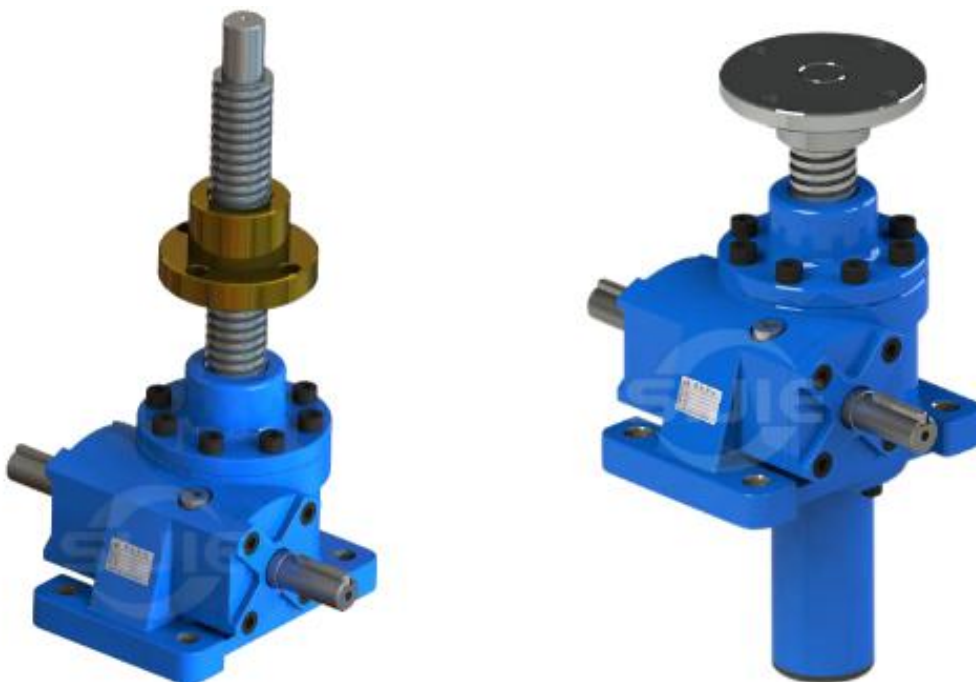
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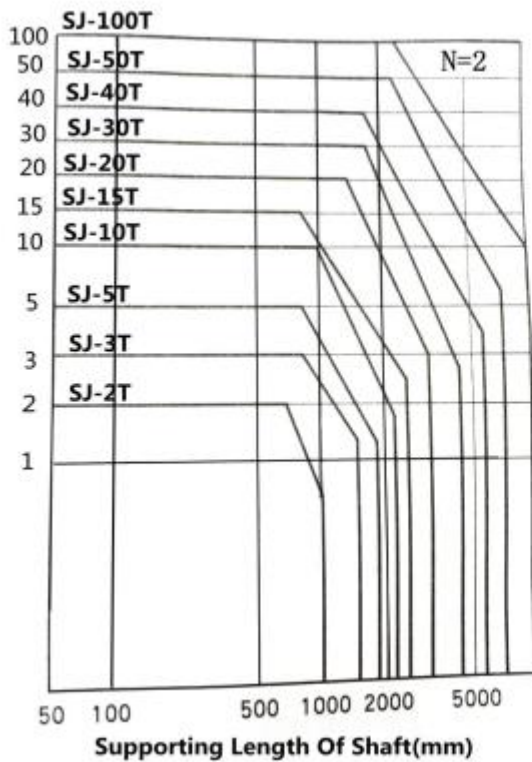
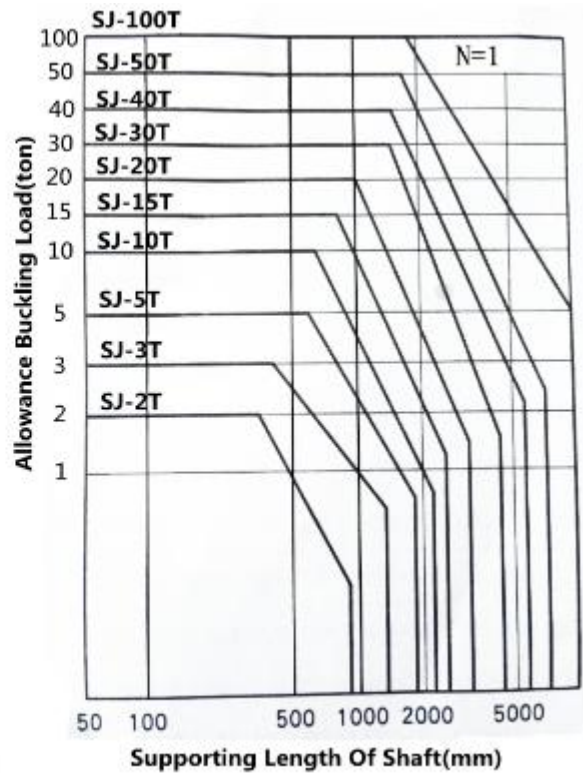
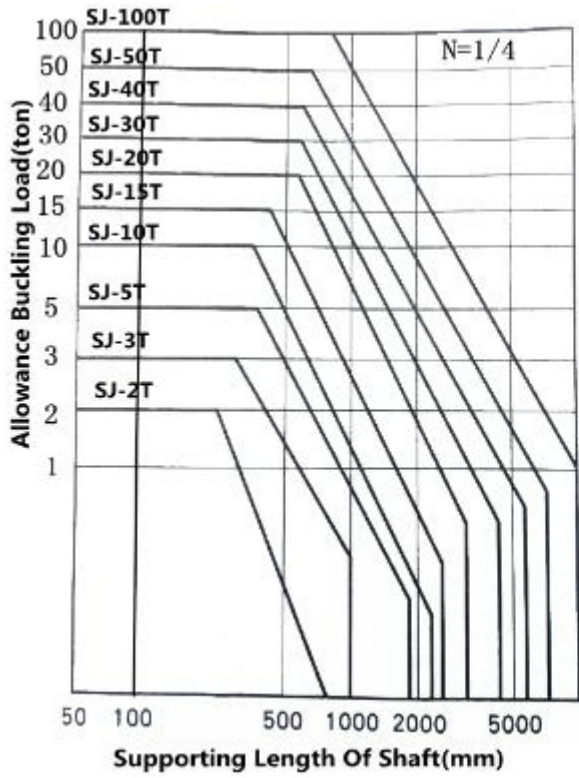
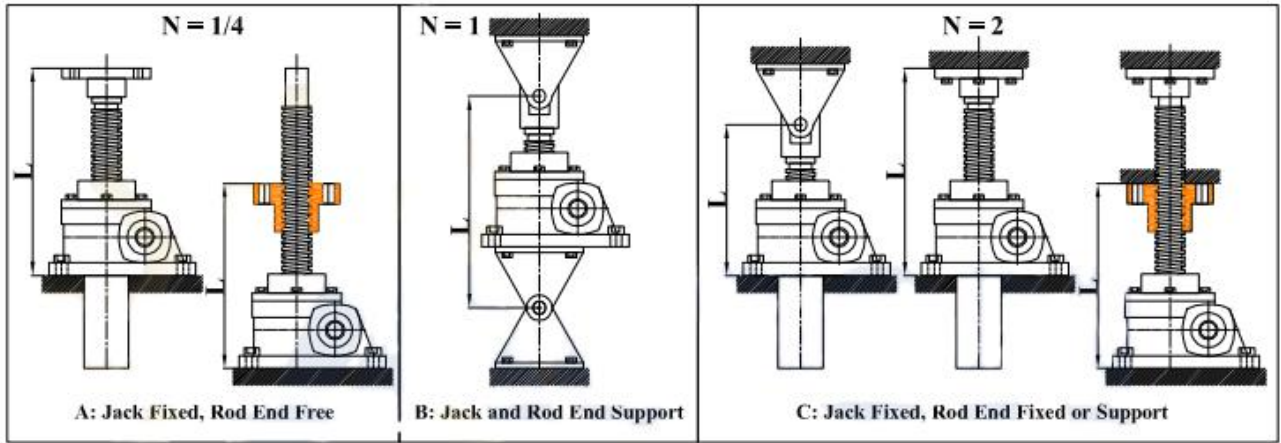
SJ-Series Worm Screw Jack Specifications:

- 1: Model: SJ-2T, SJ-3T, SJ-5T, SJ-10T, SJ-15T, SJ-20T, SJ-30T, SJ-40T, SJ-50T, SJ-100T.
- 2: Load Capacities From 0.5Tons to 100Tons As Standard
- 3: Self Locking Trapezoidal Screw, Max Stroke 6000 mm
- 4: Upright and Inverted mounting
- 5: Top End: Top Plate,Clevis End,Threaded End,Plain End and Forked Head
- 6: Lifting, Lowering, Pushing, Pulling and Rolling Linear Motions
- 7: Single Unit, In Pairs or Multi-Units Arrangement Available
- 8: Electric Driven,Manual Operated or Both Are Available
- 9: Anti-backlash Nut Device Available.
- 10: Special Custom Design Available
- 11: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

SJ-Series Worm Screw Jack Picture:



Allowance Buckling Load



SJ-Series Worm Screw Jack Technical Data sheets:

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-2T	Tr 25*5	1/5	1mm	0.93	500	30	0.86	550	25	0.87	700	20
		1/10	0.5mm	0.5	500	15	0.5	550	12.5	0.5	700	10
		1/20	0.25mm	0.5	600	7.5	0.5	700	6.25	0.5	900	5
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
		Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)		
		1/5	1mm	0.84	900	15	0.62	1000	10	0.5	1000	5
		1/10	0.5mm	0.5	1000	7.5	0.5	1000	5	0.25	1000	2.5
		1/20	0.25mm	0.5	1200	3.75	0.25	1350	2.5	0.25	1350	1.25

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-3T	Tr 32*6	1/6	1mm	1.31	700	30	1.25	800	25	1.18	950	20
		1/12	0.5mm	0.89	950	15	0.86	1100	12.5	0.81	1300	10
		1/24	0.25mm	0.5	950	7.5	0.5	1100	6.25	0.5	1300	5
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
		Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)		
		1/6	1mm	1.22	1300	15	1.12	1600	10	0.56	1800	5
		1/12	0.5mm	0.77	1650	7.5	0.62	2000	5	0.5	2000	2.5
		1/24	0.25mm	0.5	1650	3.75	0.5	2000	2.5	0.25	2000	1.25

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-5T	Tr 38*6	1/6	1mm	1.86	900	30	1.72	1000	25	1.66	1200	20
		1/12	0.5mm	1.47	1350	15	1.36	1500	12.5	1.31	1800	10
		1/24	0.25mm	1.04	1800	7.5	0.96	2000	6.25	0.92	2400	5
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
		Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)		
		1/6	1mm	1.55	1500	15	1.17	1700	10	0.72	2100	5
		1/12	0.5mm	1.17	2150	7.5	0.78	2150	5	0.5	2500	2.5
		1/24	0.25mm	0.73	2550	3.75	0.56	2900	2.5	0.5	2850	1.25

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-10T	Tr 45*8	1/8	1mm	2.84	1300	30	2.64	1450	25	2.48	1700	20
		1/16	0.5mm	1.5	1300	15	1.4	1450	12.5	1.31	1700	10
		1/32	0.25mm	1.07	1750	7.5	1.0	1950	6.25	0.92	2250	5
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
		1/8	1mm	2.3	2100	15	2.22	3050	10	1.75	4800	5
		1/16	0.5mm	1.27	2200	7.5	1.17	3050	5	0.92	4800	2.5
		1/32	0.25mm	0.86	2800	3.75	0.84	4100	2.5	0.65	6400	1.25

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-15T	Tr 50*8	1/8	1mm	2.69	1300	30	2.5	1450	25	2.35	1700	20
		1/16	0.5mm	1.42	1300	15	1.32	1450	12.5	1.24	1700	10
		1/32	0.25mm	1.01	1750	7.5	0.94	1950	6.25	0.87	2250	5
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
		1/8	1mm	2.17	2100	15	2.11	3050	10	1.66	4800	5
		1/16	0.5mm	1.2	2200	7.5	1.11	3050	5	0.87	4800	2.5
		1/32	0.25mm	0.81	2800	3.75	0.79	4100	2.5	0.61	6400	1.25

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-20T	Tr64*10	1/10	1mm	3.57	1400	30	3.24	1850	25	3.01	1950	20
		1/20	0.5mm	1.91	1600	15	1.97	1850	12.5	1.84	2250	10
		1/40	0.25mm	1.53	2400	7.5	1.57	2800	6.25	1.47	3350	5
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
		1/10	1mm	2.31	2450	15	2.23	3350	10	1.75	4900	5
		1/20	0.5mm	1.27	2800	7.5	1.17	3850	5	0.92	5600	2.5
		1/40	0.25mm	0.85	4400	3.75	0.87	5750	2.5	0.75	8400	1.25

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM			
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	
SJ-30T	Tr75*12	1/12	1mm	4.86	1850	30	4.71	2150	25	4.55	2600	20	
		1/18	0.67mm	3.56	1900	20	3.59	2300	16.7	3.44	2750	13.3	
		1/36	0.33mm	2.22	2200	10	2.19	2600	8.3	2.15	3200	6.7	
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM			
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	
		1/12	1mm	4.27	3250	15	3.94	4500	10	2.8	6400	5	
		1/18	0.67mm	3.28	3500	10	2.94	4700	6.7	2.09	6700	3.33	
1/36	0.33mm	1.97	3900	5	1.82	5400	3.33	1.61	9600	1.67			

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM			
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	
SJ-40T	Tr80*12	1/12	1mm	5.56	1975	30	5.39	2300	25	5.11	2725	20	
		1/18	0.67mm	4.29	2125	20	4.29	2550	16.7	4.07	3025	13.3	
		1/36	0.33mm	2.87	2625	10	2.78	3050	8.3	2.66	3650	6.7	
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM			
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	
		1/12	1mm	5.1	3625	15	4.67	4975	10	3.32	7050	5	
		1/18	0.67mm	4.07	4025	10	3.67	5450	6.7	2.6	7725	3.33	
1/36	0.33mm	2.67	4875	5	2.41	6600	3.33	1.88	10300	1.67			

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM			
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	
SJ-50T	Tr90*14	1/7	2mm	12.7	2100	60	12.3	2450	50	12.1	2850	40	
		1/14	1mm	7.72	2350	30	7.66	2800	25	1.47	3300	20	
		1/28	0.5mm	5.46	3050	15	5.22	3500	12.5	5.24	4100	100	
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM			
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	
		1/7	2mm	11.5	4000	30	11	5450	20	7.83	7750	10	
		1/14	1mm	7.23	4550	15	6.79	6200	10	4.79	8750	5	
1/28	0.5mm	4.9	5850	7.5	4.66	7800	5	3.28	11000	2.5			

Model	Lifting Screw (mm)	Worm Gear Ratio	Travel per Full turn of worm (mm)	1800RPM			1500RPM			1200RPM		
				Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)	Power (HP)	Load (kg)	Speed (mm/s)
SJ-100T	Tr100*16	1/8	2mm	21.8	3500	60	21.5	4000	50	21.2	5400	40
		1/16	1mm	15.7	4300	30	15.5	5400	25	14.1	7200	20
		1/32	0.5mm	11.6	5500	15	12.8	6800	12.5	9.86	10000	100
		Worm Gear Ratio	Travel per Full turn of worm (mm)	900RPM			600RPM			300RPM		
		1/8	2mm	20.2	7100	30	19.9	9850	20	13	12950	10
		1/16	1mm	14.7	9450	15	12.9	11800	10	9.5	17350	5
		1/32	0.5mm	10.1	14300	7.5	9.41	15750	5	7.78	26050	2.5

SJ-Series Worm Screw Jack Ordering Information.

SJ - 10T - US - T - C - 1/8 - 300 - Y
1 2 3 4 5 6 7

1: Jack Model

SJ-2T, SJ-3T, SJ-5T, SJ-10T, SJ-15T, SJ-20T, SJ-30T, SJ-40T, SJ-50T, SJ-100T

2: Screw Configuration & Mounting Orientation

US: Upright translating screw

UK: Upright keyed screw

UR: Upright rotating screw

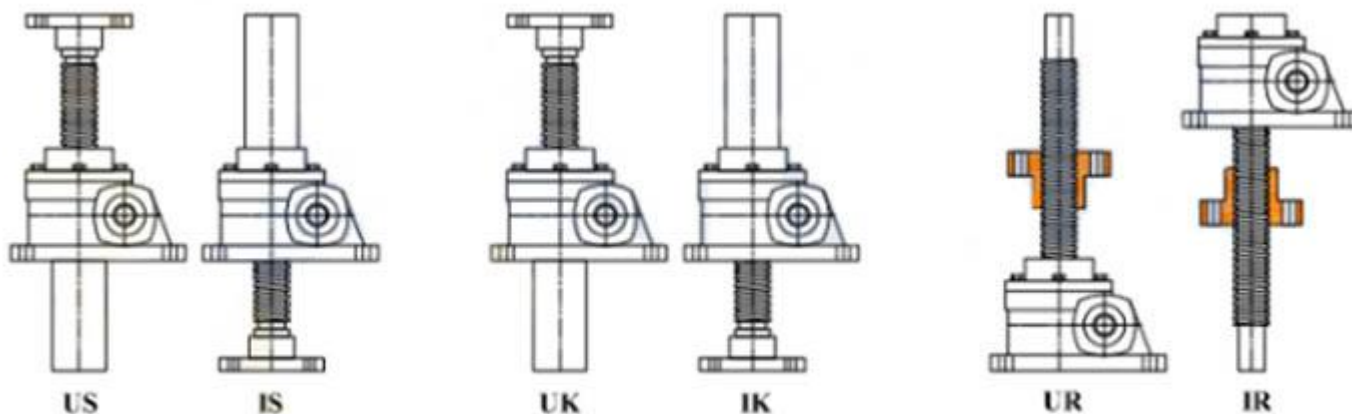
IS: Inverted translating screw

IK: Inverted keyed screw

IR: Inverted rotating screw

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

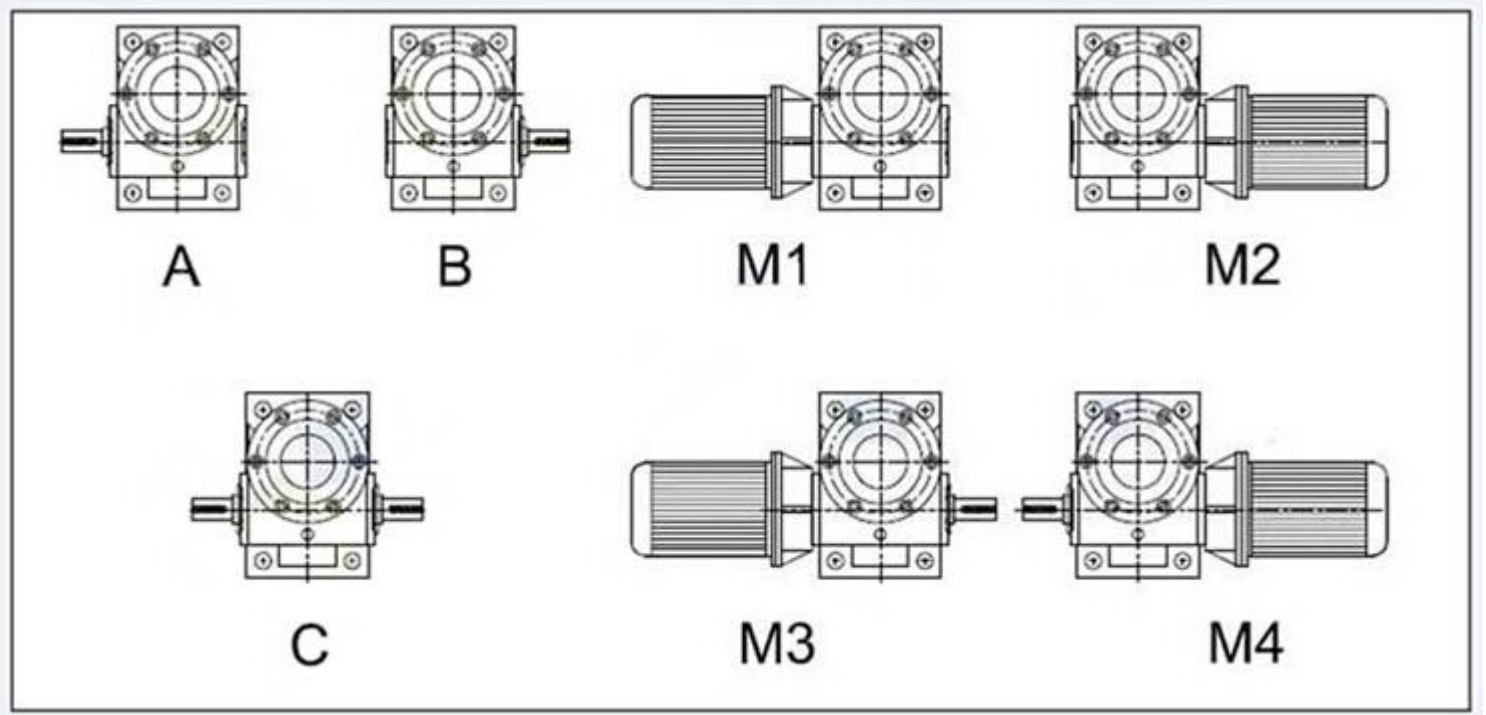
UR,IR(Screw fixed rotation, traveling nut do axial motion)



3: Screw Top End

T (top plate)	H (clevis end)	S (threaded end)	R (plain end)

4: Worm Shaft Input Types



5: Gear Ratio

SJ-2T: 1/5, 1/10, 1/20.

SJ-3T: 1/6, 1/12, 1/24.

SJ-5T: 1/6, 1/12, 1/24.

SJ-10T: 1/8, 1/16, 1/32.

SJ-15T: 1/8, 1/16, 1/32.

SJ-20T: 1/10, 1/20, 1/40.

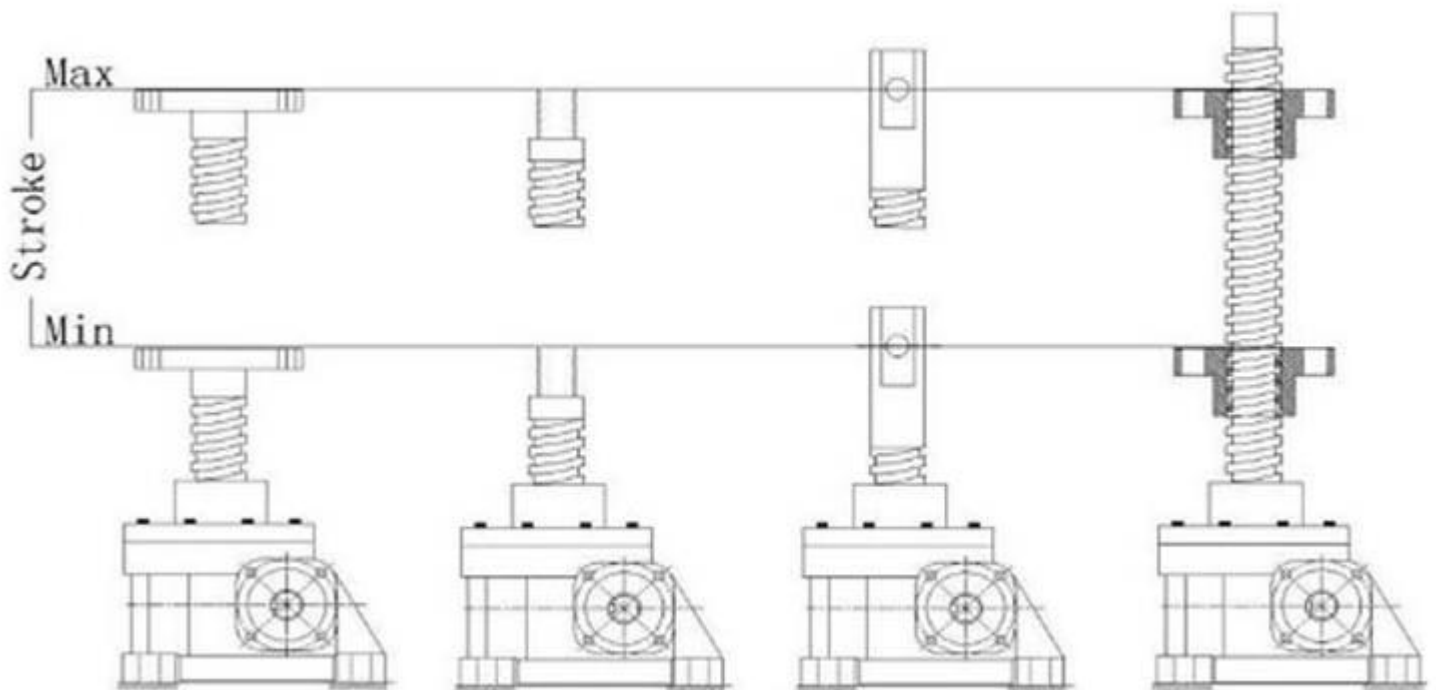
SJ-30T: 1/12, 1/18, 1/36.

SJ-40T: 1/12, 1/18, 1/36.

SJ-50T: 1/7, 1/14, 1/28.

SJ-50T: 1/8, 1/16, 1/32.

6: Travel Stroke



7: Accessories

N: Standard Jack, No additional accessories

P: Protective Tube

R: Rubber Bellow

Y: Hand Wheel



Steel cover



Rubber bellows



Hand wheel



Bevel Gearbox



swivel plate
mounting base



limited switches



inverter



pillow block bearing



Gear Motor



Planetary Gear Reducer



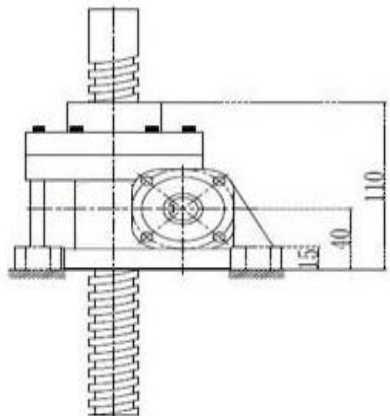
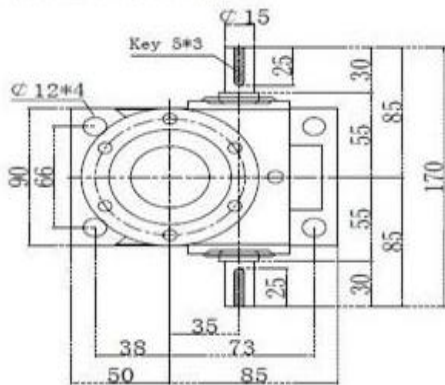
DC12V/24V Motor



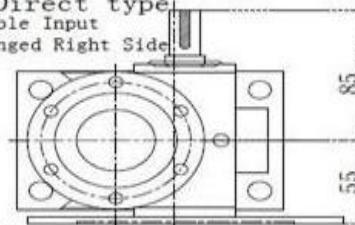
AC 100V-460V Motor

SJ-2T Worm Screw Jack Dimensions

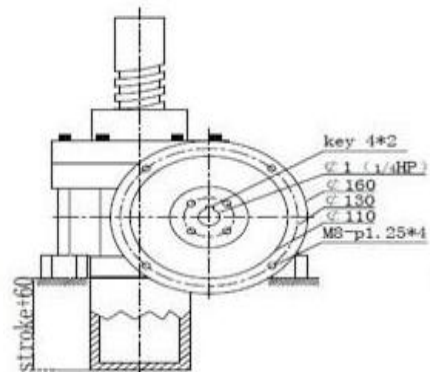
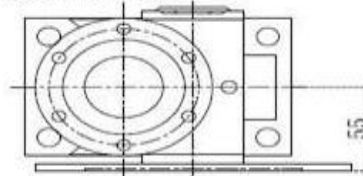
Double Input (Standard type)



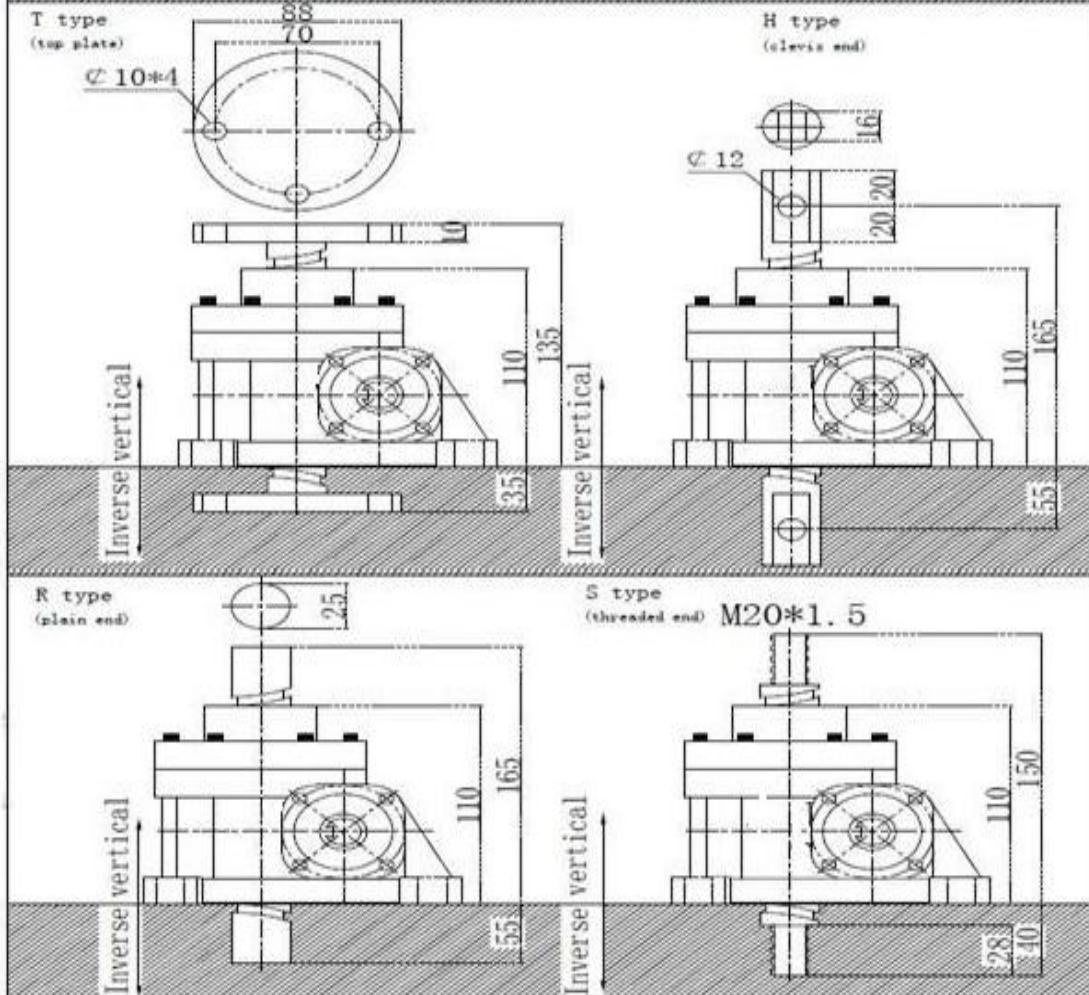
① Direct type Double Input Flanged Right Side



② Direct type Single Input Flanged Right Side

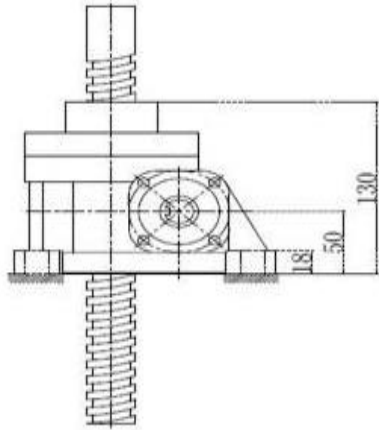
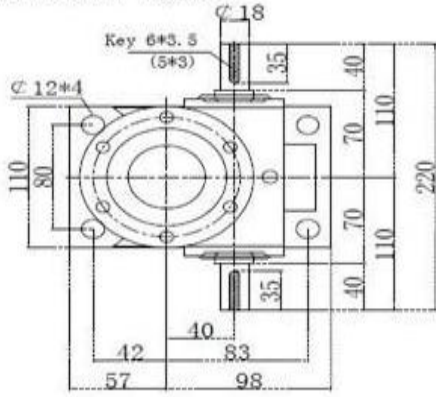


top end and allowance shortest sizes

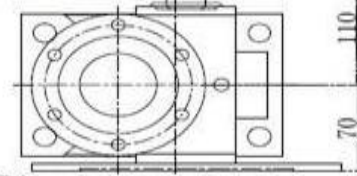


SJ-3T Worm Screw Jack Dimensions

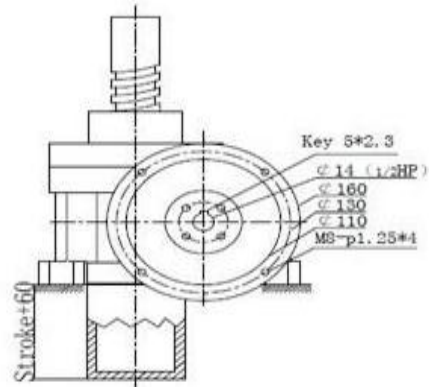
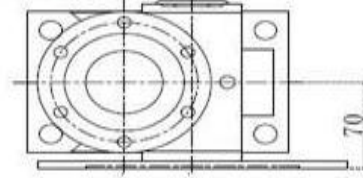
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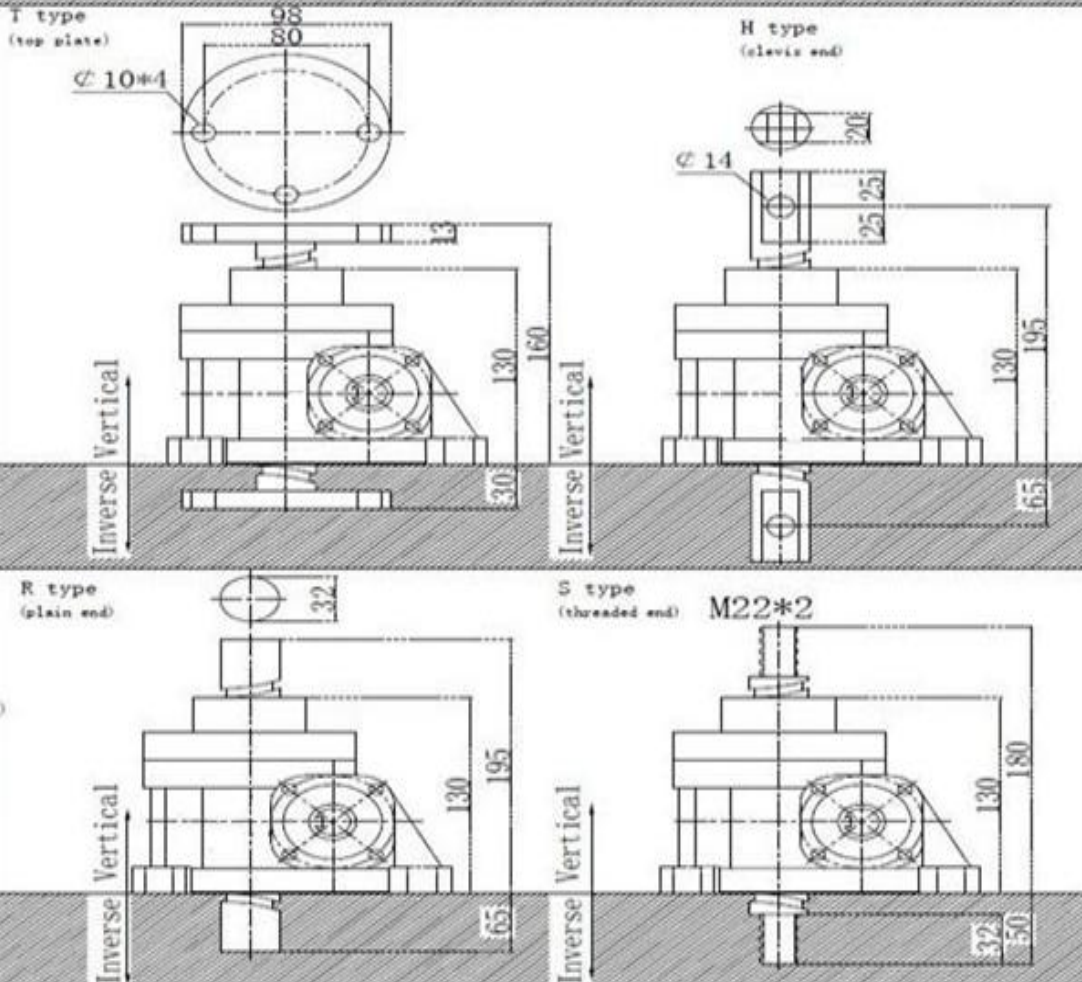
① Direct type Double Input Flanged Right Side



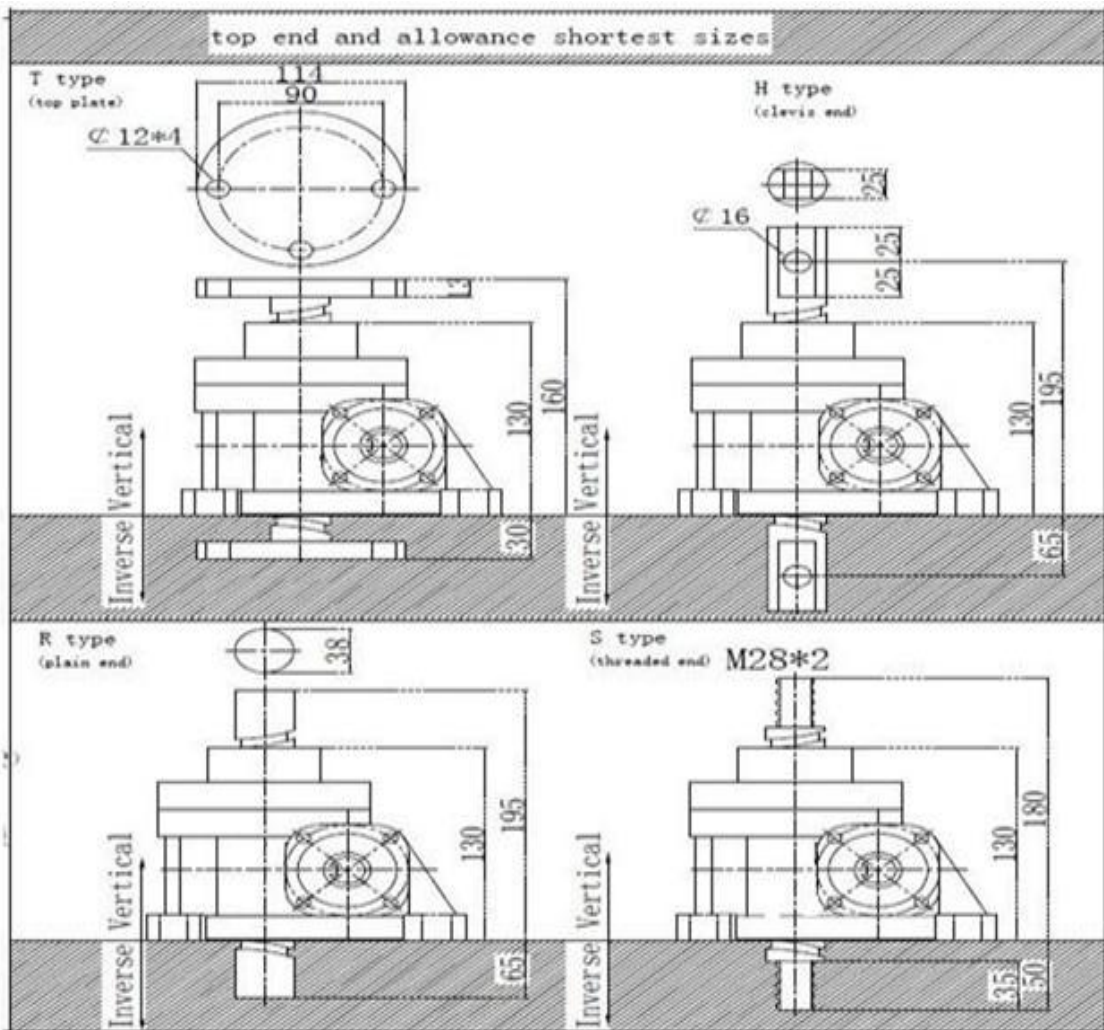
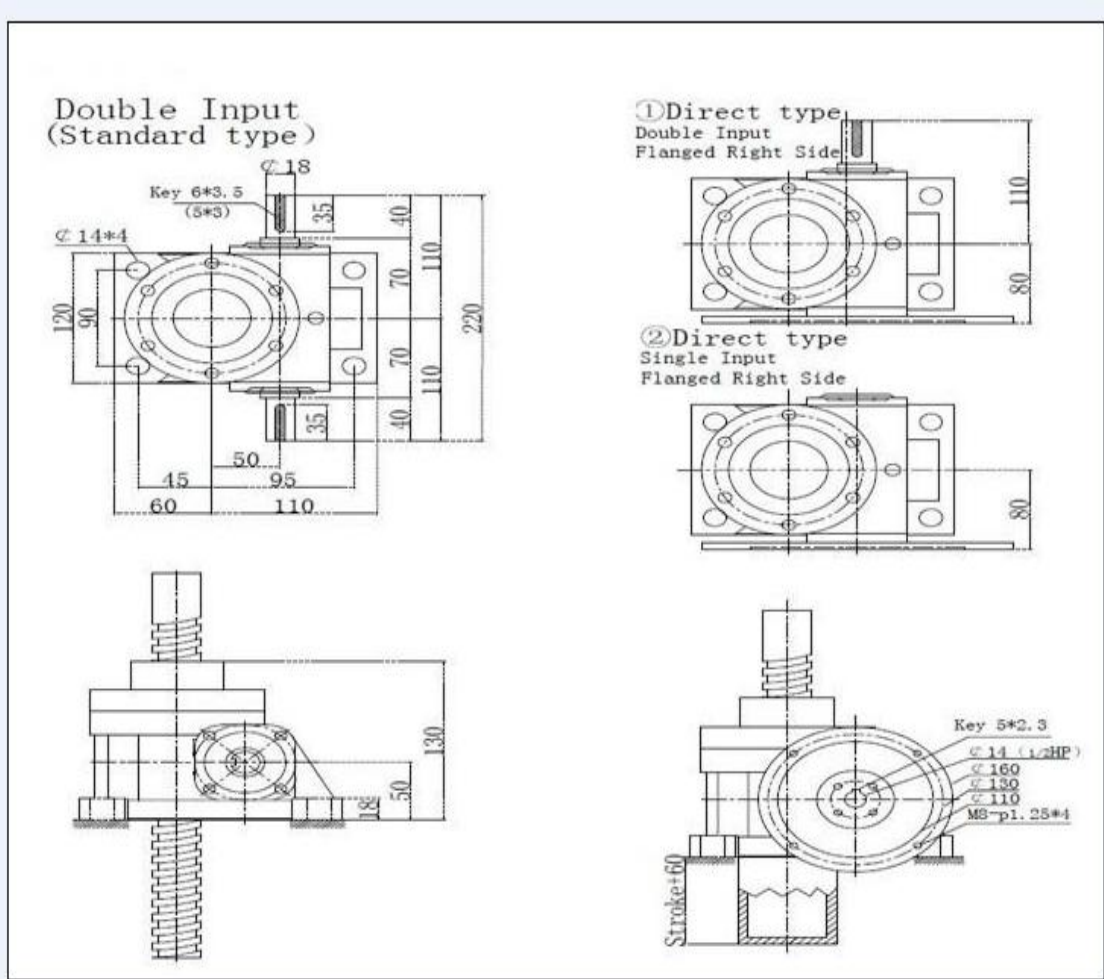
② Direct type Single Input Flanged Right Side



top end and allowance shortest sizes

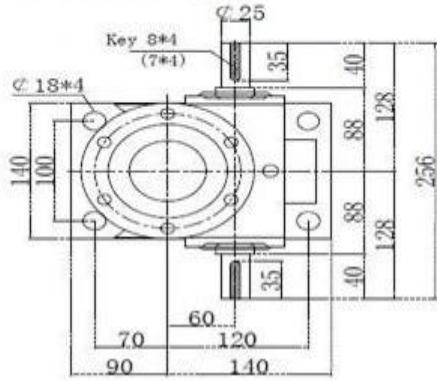


SJ-5T Worm Screw Jack Dimensions

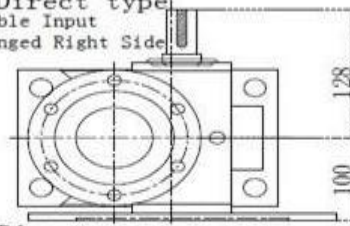


SJ-10T Worm Screw Jack Dimensions

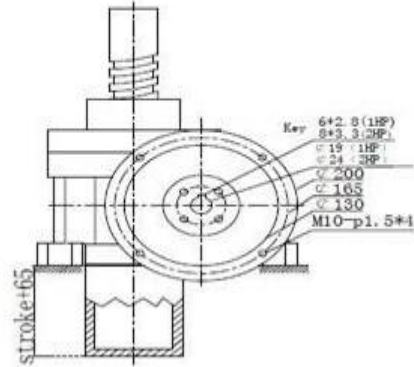
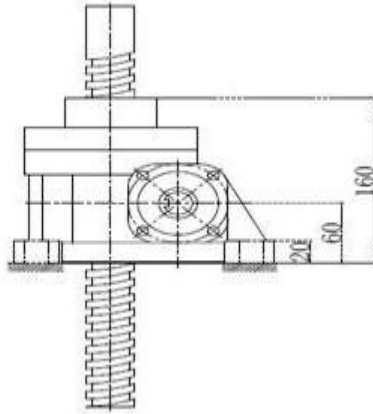
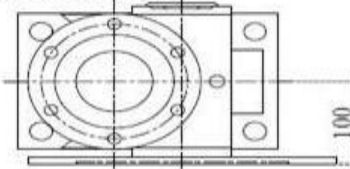
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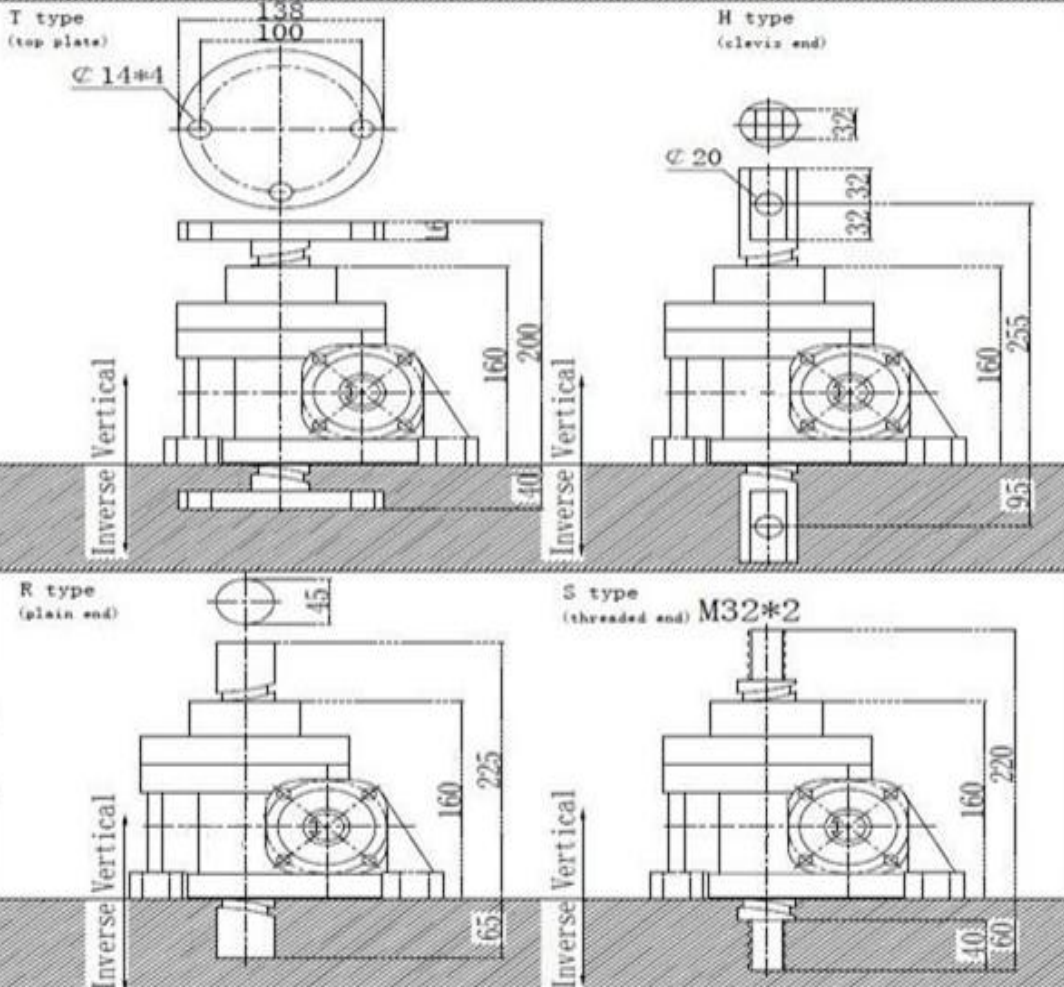
① Direct type Double Input Flanged Right Side



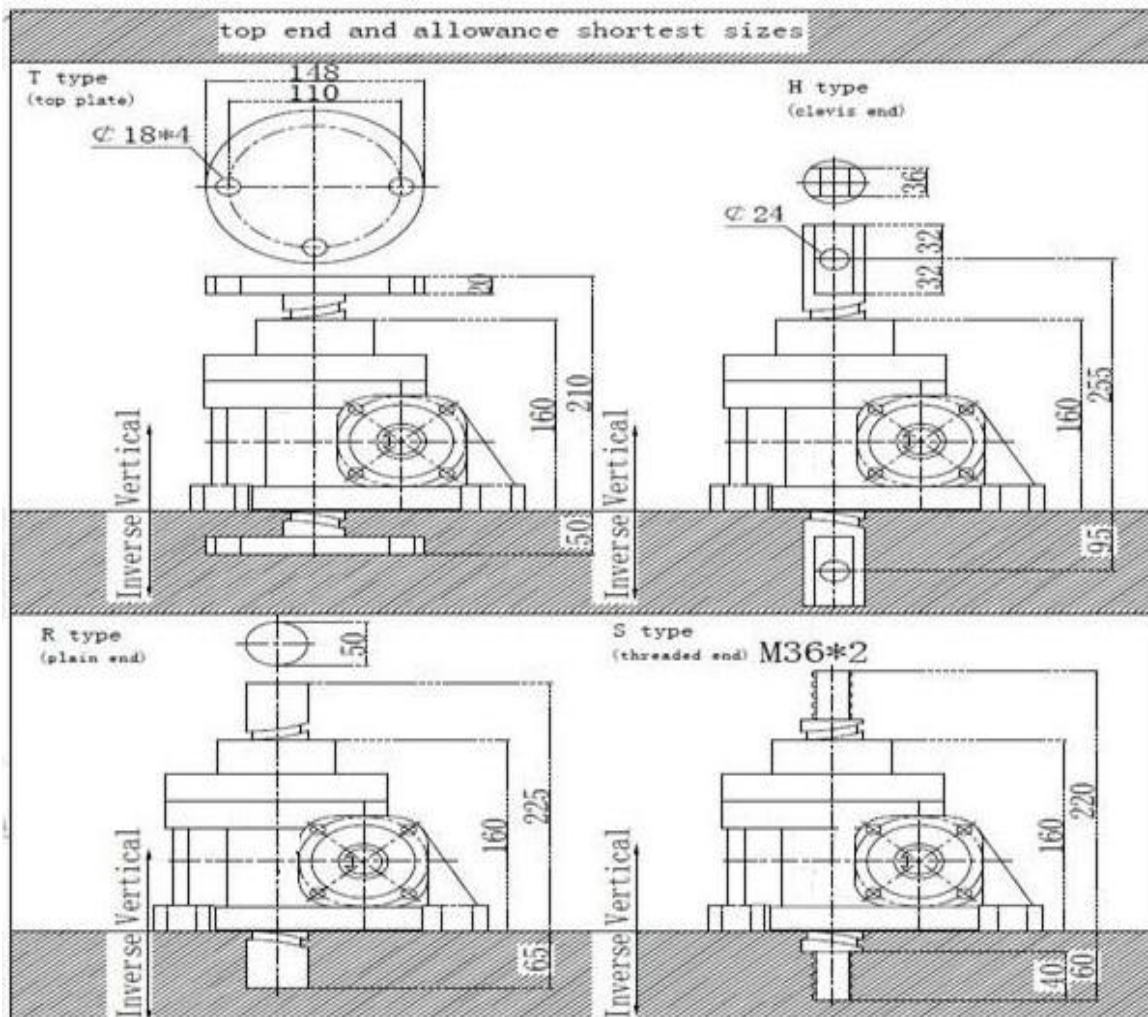
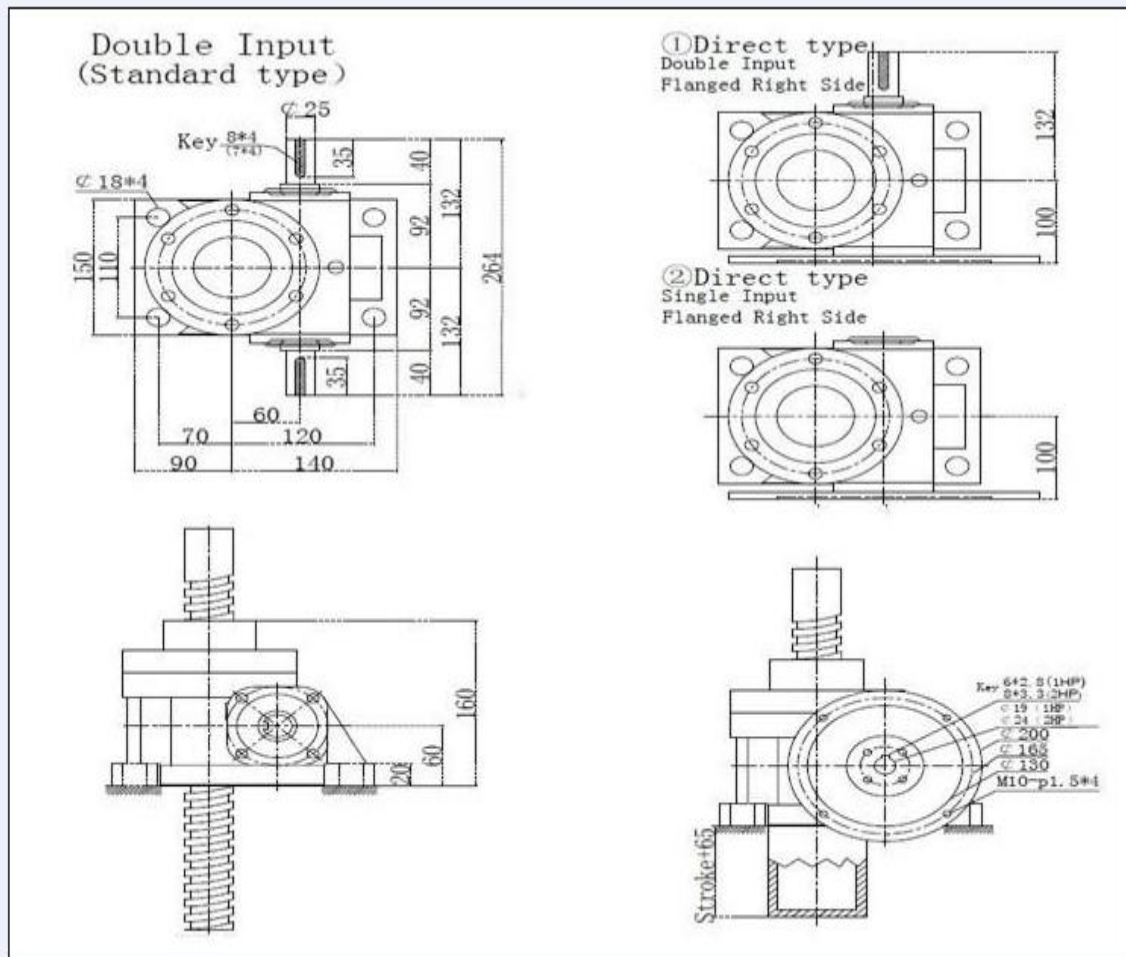
② Direct type Single Input Flanged Right Side



top end and allowance shortest sizes

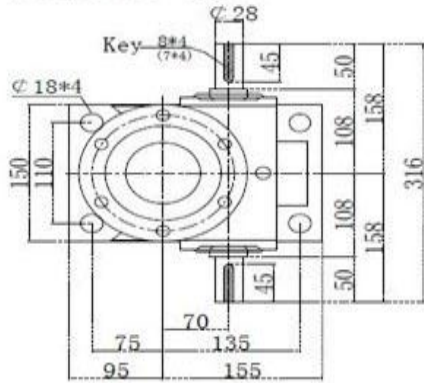


SJ-15T Worm Screw Jack Dimensions

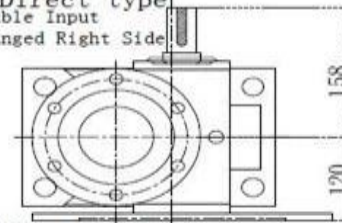


SJ-20T Worm Screw Jack Dimensions

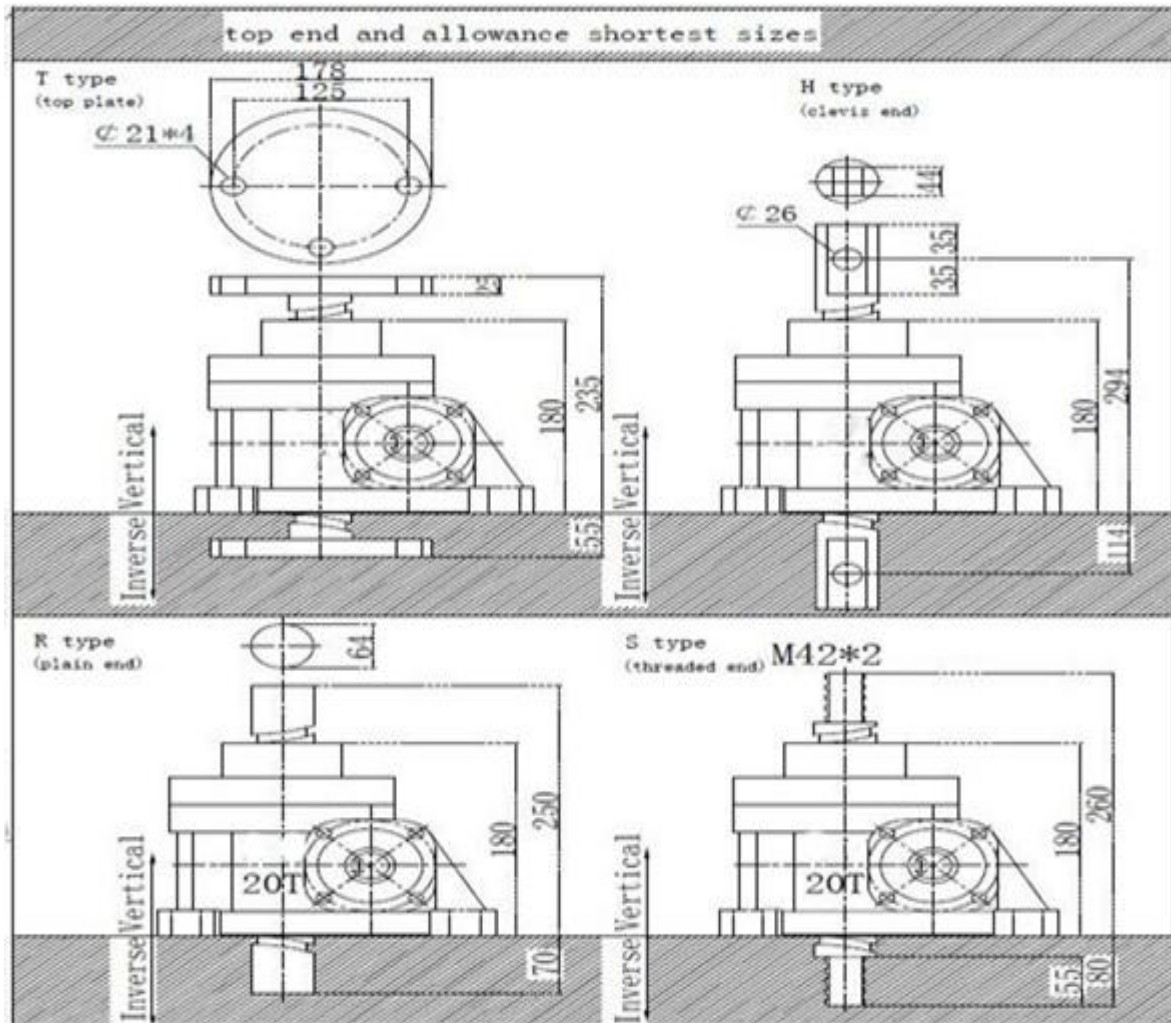
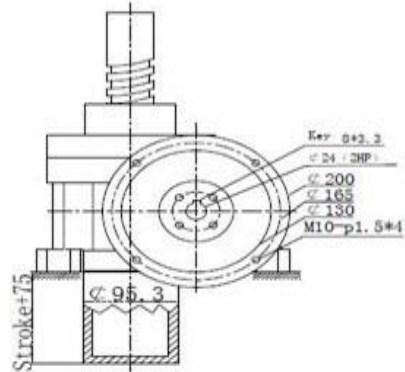
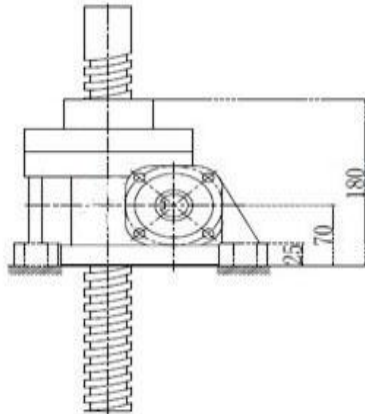
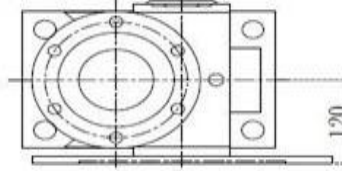
Double Input
(Standard type)



① Direct type
Double Input
Flanged Right Side

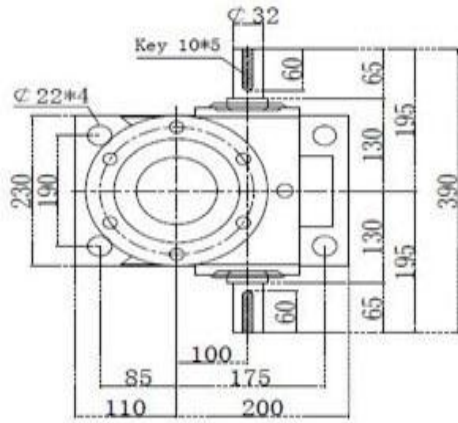


② Direct type
Single Input
Flanged Right Side



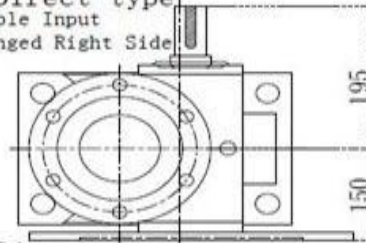
SJ-30T Worm Screw Jack Dimensions

Double Input
(Standard type)



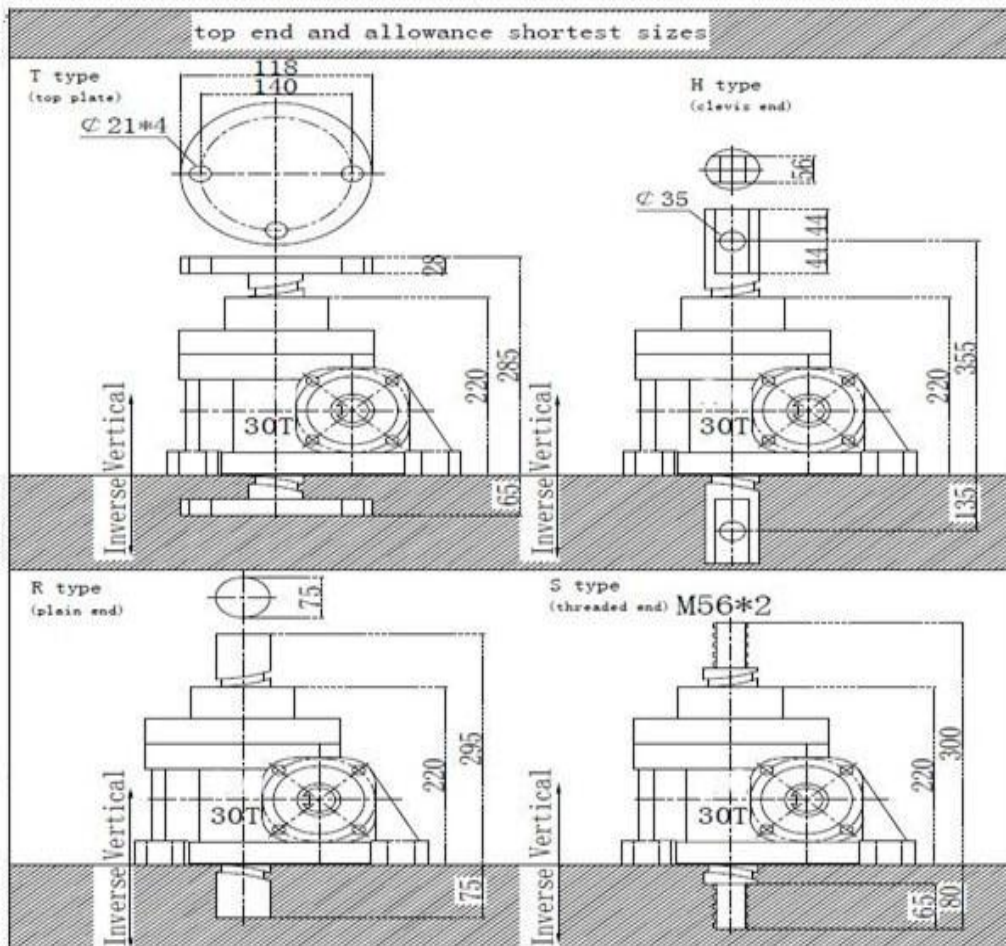
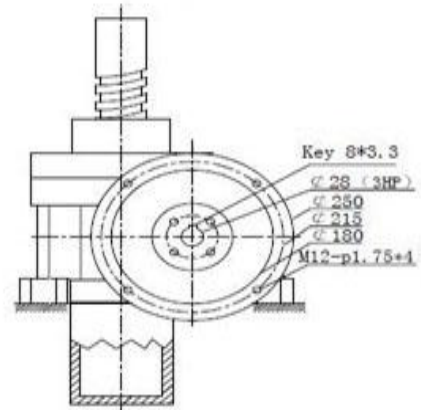
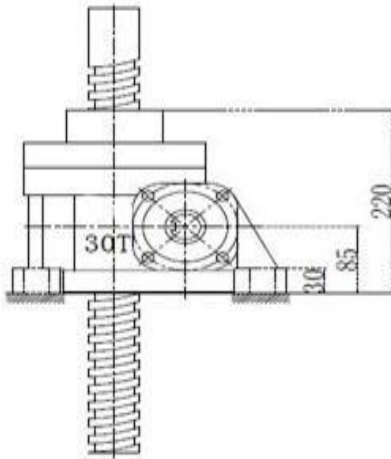
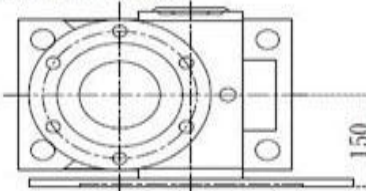
① Direct type

Double Input
Flanged Right Side



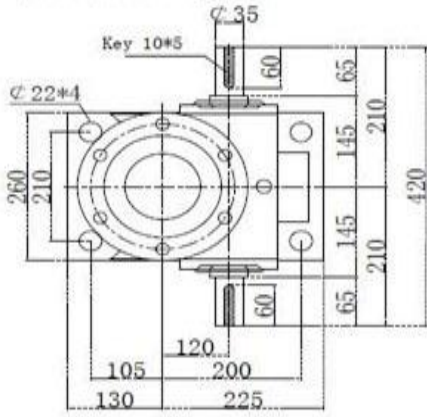
② Direct type

Single Input
Flanged Right Side

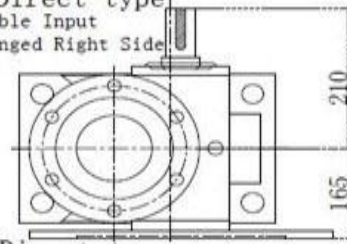


SJ-40T Worm Screw Jack Dimensions

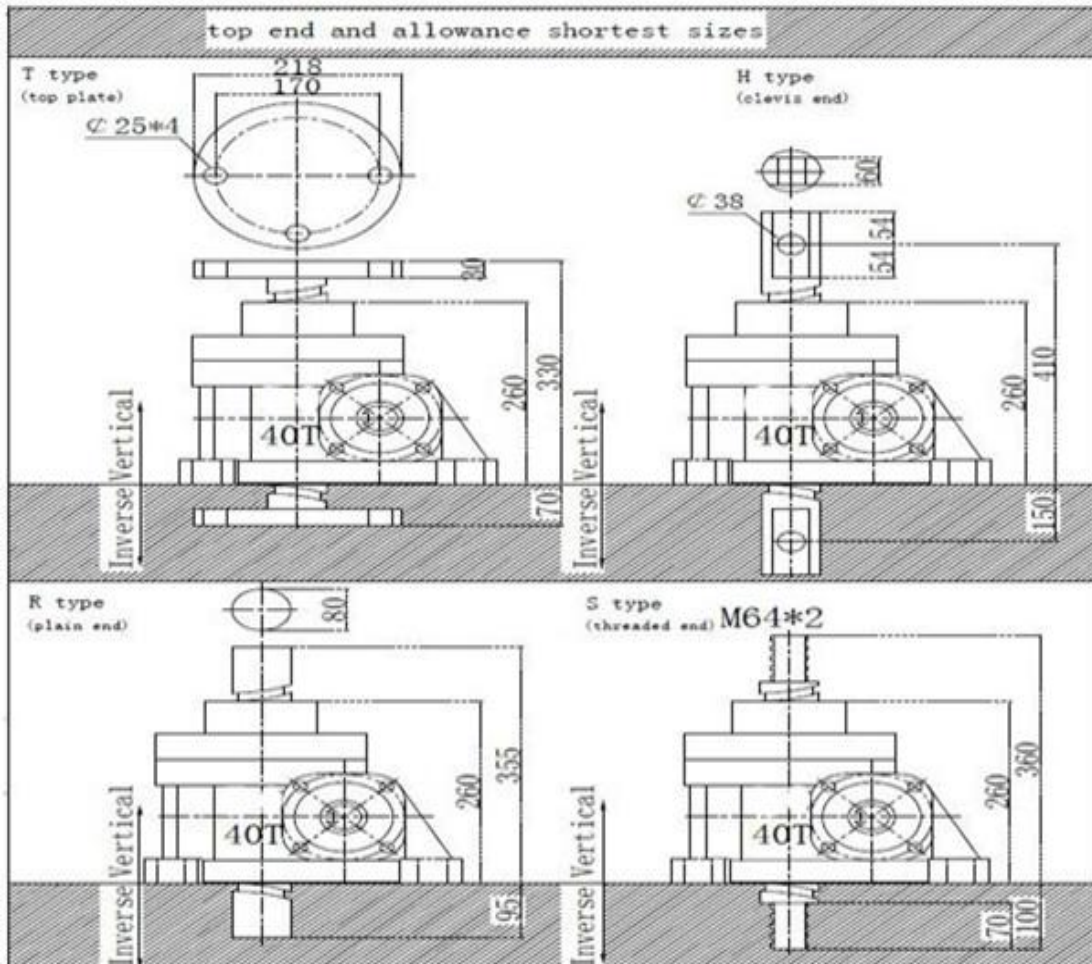
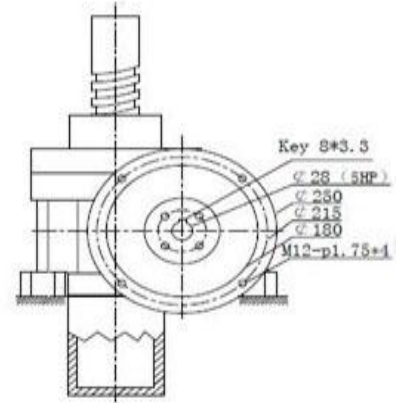
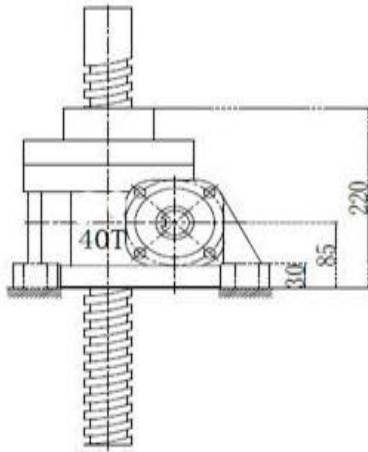
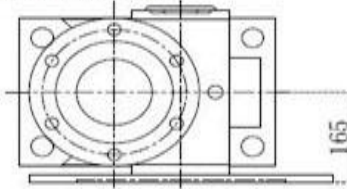
Double Input (Standard type)



① Direct type Double Input Flanged Right Side

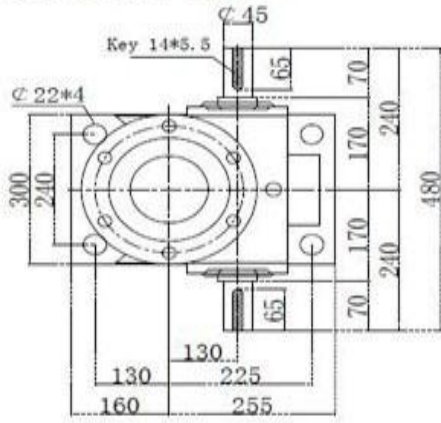


② Direct type Single Input Flanged Right Side

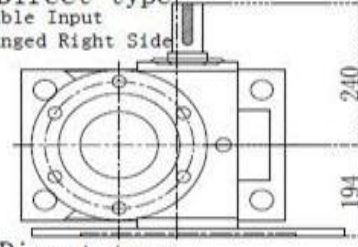


SJ-50T Worm Screw Jack Dimensions

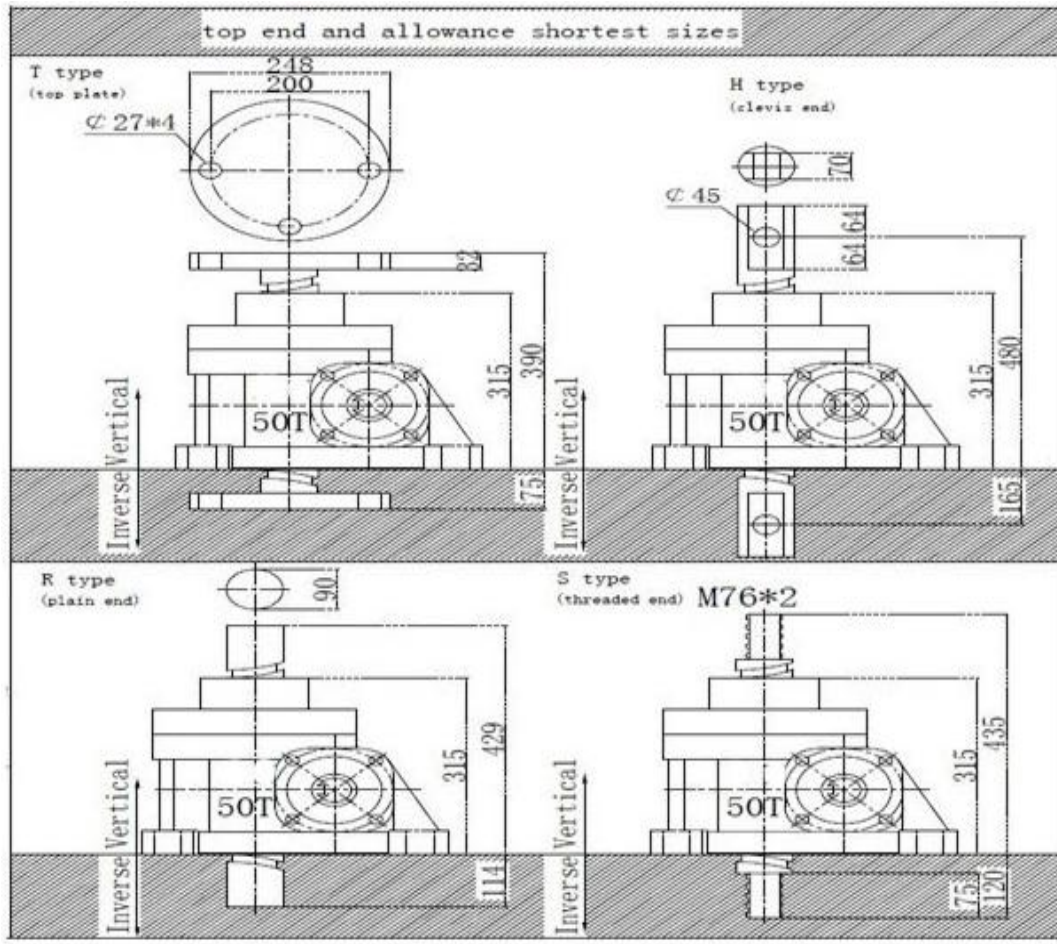
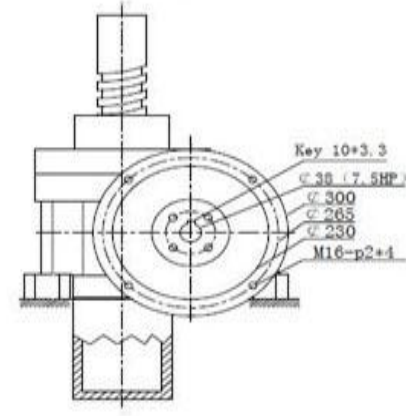
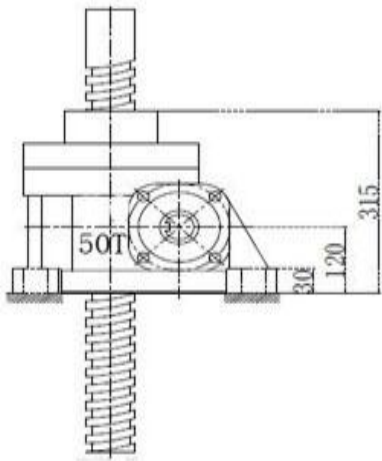
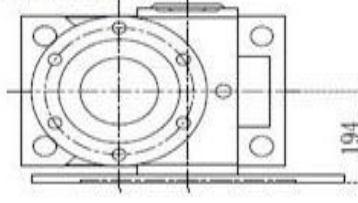
Double Input
(Standard type)



① Direct type
Double Input
Flanged Right Side

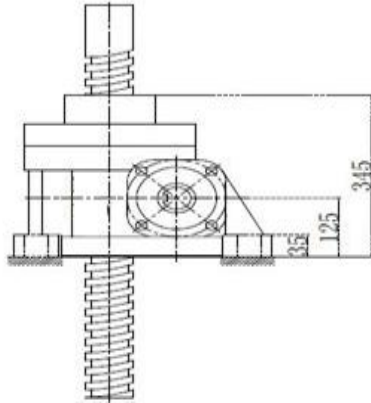
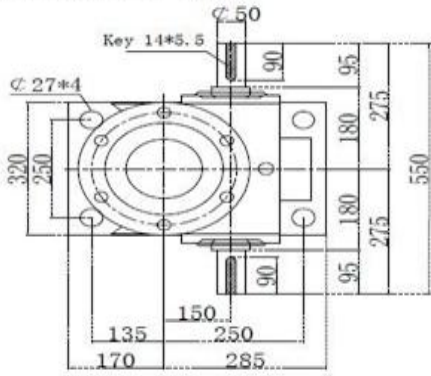


② Direct type
Single Input
Flanged Right Side

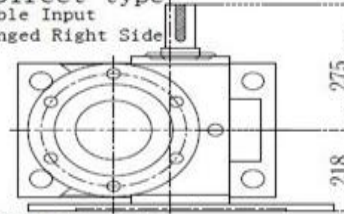


SJ-100T Worm Screw Jack Dimensions

Double Input
(Standard type)



① Direct type
Double Input
Flanged Right Side



② Direct type
Single Input
Flanged Right Side

