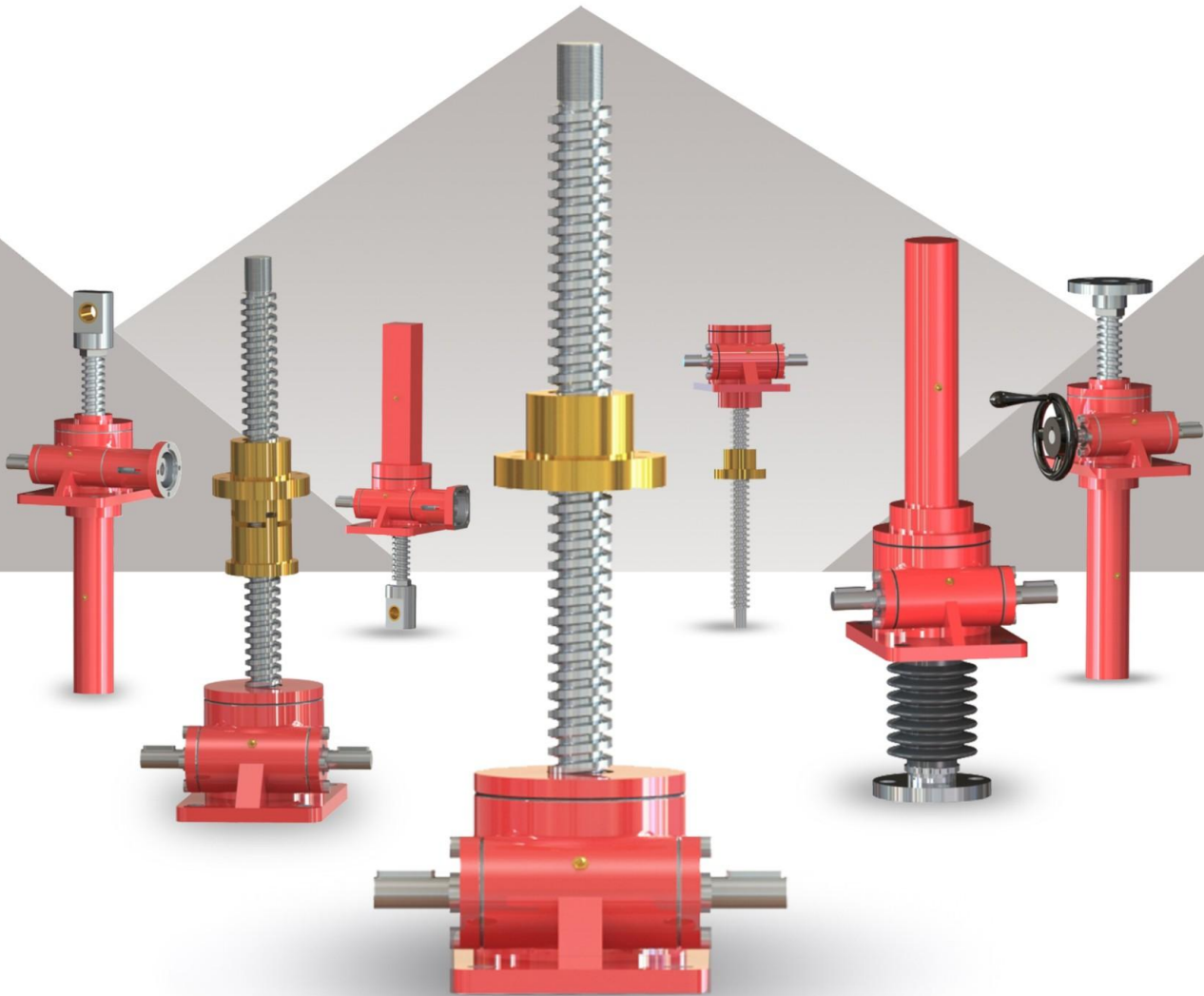




LINEAR MOTION



LUDE TRANSMISSION

JWM Series Screw Jack



JW SERIES SCREW JACK

JWM (Trapezoid screw)

LOW SPEED LOW FREQUENCY

JWM (trapezoidal screw) is suitable for low speed and low frequency.

Main components: Precision trapezoid screw pair and high precision worm-gears pair.

1) Economical:

Compact design, easy operation, convenient maintenance.

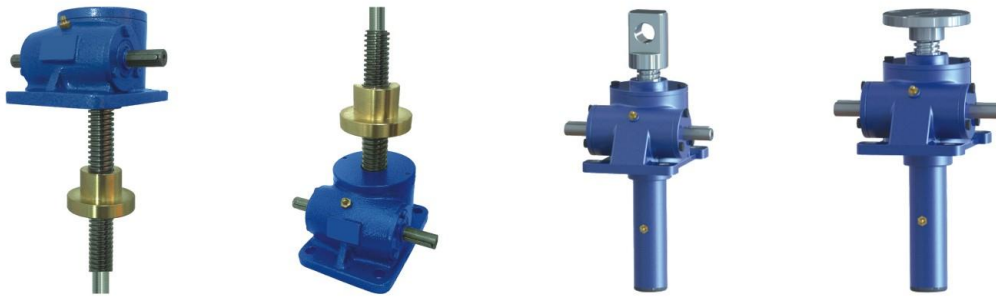
2) Low speed, low frequency:

Be suitable for heavy load, low speed, low service frequency.

3) Self-lock

Trapezoid screw has self-lock function, it can hold up load without braking device when screw stops traveling.

Braking device equipped for self-lock will be of malfunction accidentally when large jolt & impact load occur.



JWM (Trapezoid screw) basic parameter table:

Type		JWM010	JWM025	JWM050	JWM100	JWM150	JWM200	JWM300	JWM500	JWM750	JWM1000	
Maximal load	(kN)	9.80	24.5	49.0	98.0	147	196	294	490	735	980	
Outer diameter of screw	(mm)	20	26	40	50	55	65	85	120	130	150	
Small diameter of screw	d (mm)	14.8	19.7	30.5	38.4	43.4	49.3	67	102	112	127	
Pitch of screw	L1 (mm)	4	5	8	10	10	12	16	16	16	20	
Ratio	i	H Speed	5	6	6	8	8	8	10 ^{2/3}	10 ^{2/3}	10 ^{2/3}	12
	L Speed	20	24	24	24	24	24	24	32	32	32	36
Integrated efficiency	η	H Speed	21	21	22	22	20	20	19	15	13	13
	L Speed	12	12	14	15	14	13	11	10	8	8	
Permissible output maximal power	(kW)	H Speed	0.49	1.0	2.0	2.8	3.1	5.0	8.4	13.4	14.4	21.4
	L Speed	0.36	0.46	0.63	1.4	2.2	3.2	4.6	5.7	7.2	9.4	
No-load torque	T ₀ (N · m)	0.29	0.62	1.4	2.0	2.6	3.9	9.8	19.6	29.4	39.2	
Permissible torque of input shaft	(N · m)	19.6	49.0	153.9	292.0	292.0	292.0	735.0	1372.0	1764.0	2450.0	
Required torque of input shaft at maximal load	(N · m)	H Speed	6.2	16.1	48.7	90.7	149.0	238.1	400.1	856.0	1380.5	2040.9
	L Speed	2.9	7.4	20.0	45.3	72.3	124.0	244.0	453.3	761.3	1278.3	
Axial journey of screw, when input shaft rotate a circle.	(mm)	H Speed	0.80	0.83	1.33	1.25	1.25	1.50	1.50	1.50	1.50	1.67
	L Speed	0.20	0.21	0.33	0.42	0.42	0.50	0.50	0.50	0.50	0.56	
Permissible rotational speed of screw shaft at maximal loading	(rpm)	H Speed	750	600	400	300	200	200	200	150	100	100
	L Speed	1200	600	300	300	290	250	180	120	90	70	
Rotational torque of screw at maximal load	(N · m)	20.1	65.1	201.5	503.6	813.2	1287.7	2531.9	5551.3	8921.8	13878.3	

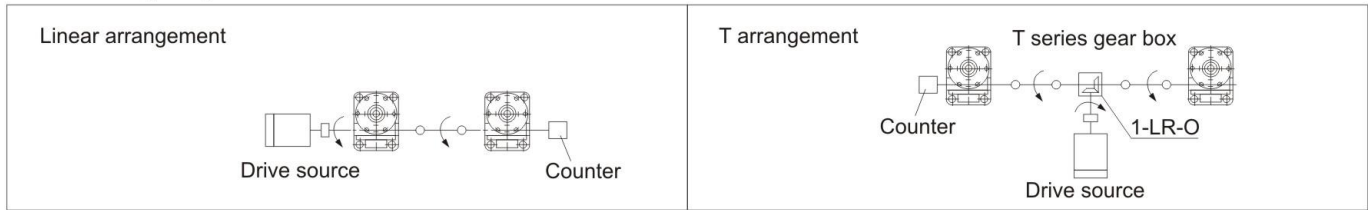
* Permissible torque of shaft of reducer.

** Include torque under the condition of no-load operating.

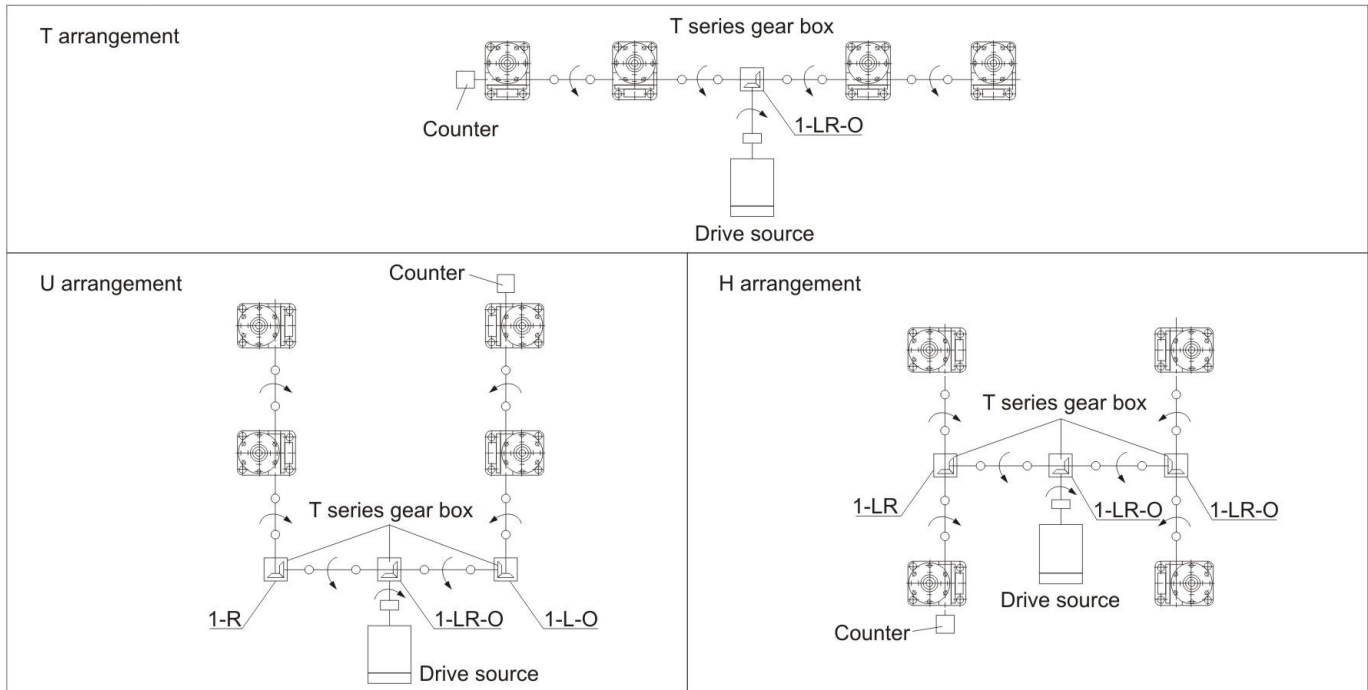


Application example:

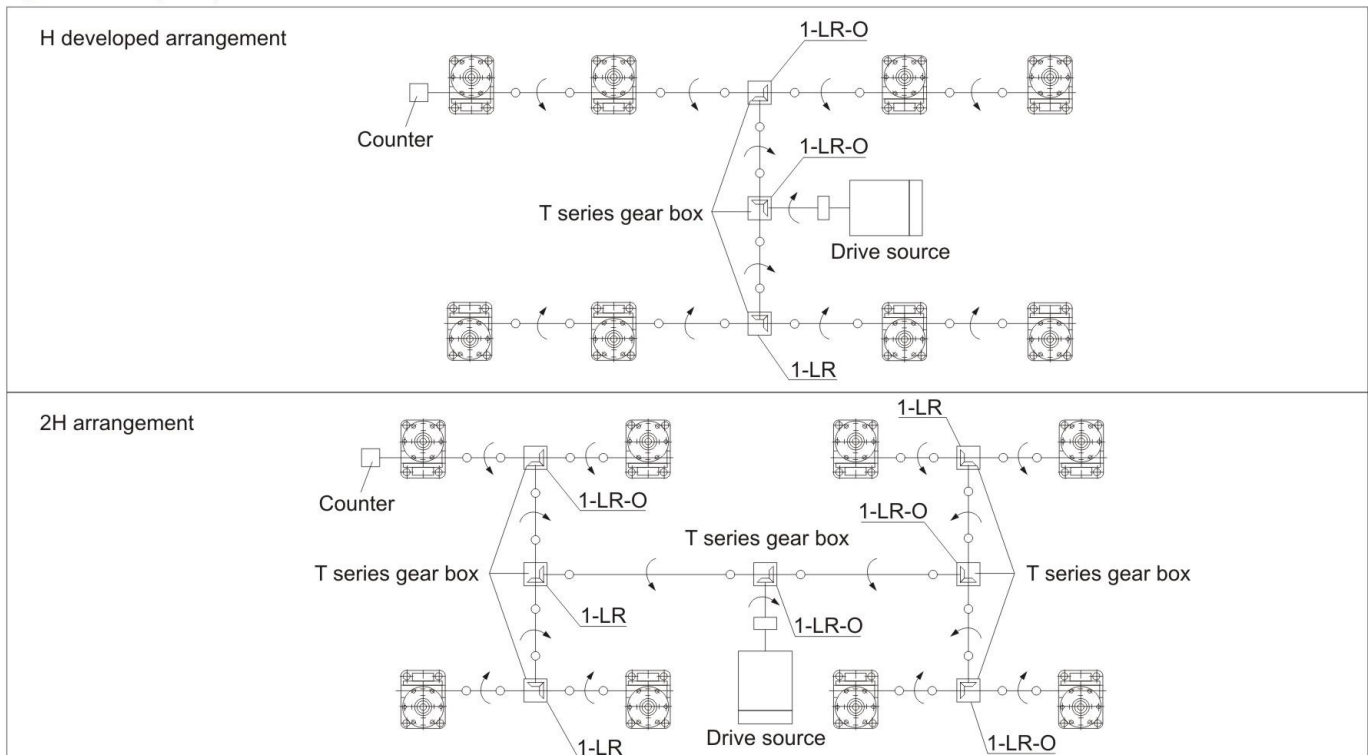
Two-set screw jack system:



Four-set screw jack system:



Eight-set screw jack system:

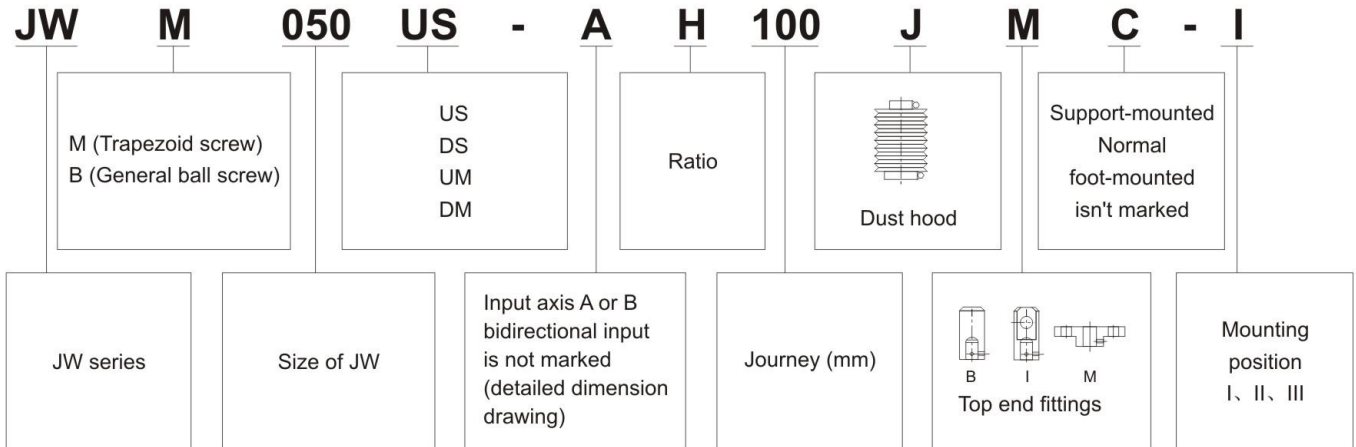




LINEAR MOTION

Illustration of types:

Plain mode and Mode with anti-rotation device:

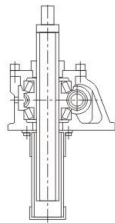


Plain mode (US, DS)

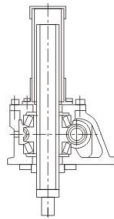
Worm wheel rotating, threaded spindles travel up and down.
Ordinary mounting mode is applied here,

US: UPRISE DS: DROP

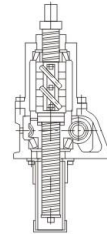
- * Select US or DS according to the load and mounting positions.
- * Anti-rotation measures must be taken because torque on screw will be caused when screw traveling up and down.



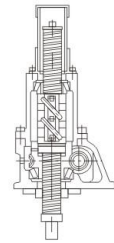
US



DS



US

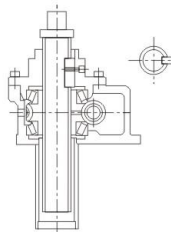


DS

With Anti-rotation device.

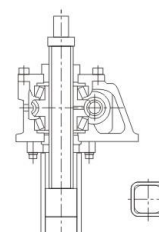
UM: UPRISE DM: DROP

- * No rotation of screw, which only travel up and down.
- * Select UM or DM according to the load and mounting positions.



(JWM100-JWM200)

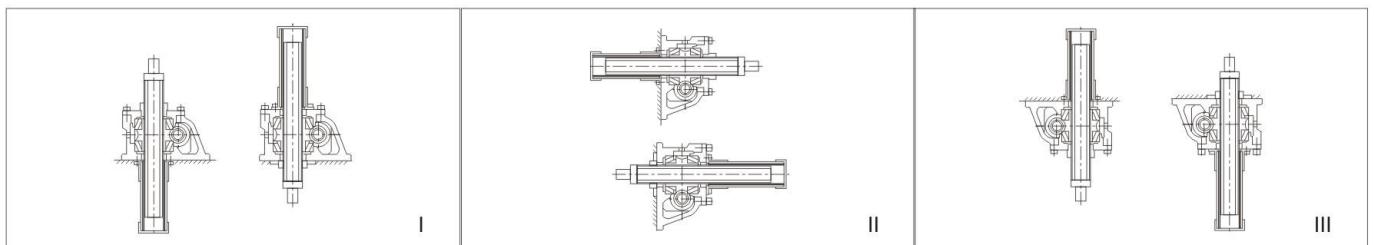
UM



(JWM010-JWM050)(JWB010-JWB200)

DM

Mounting position

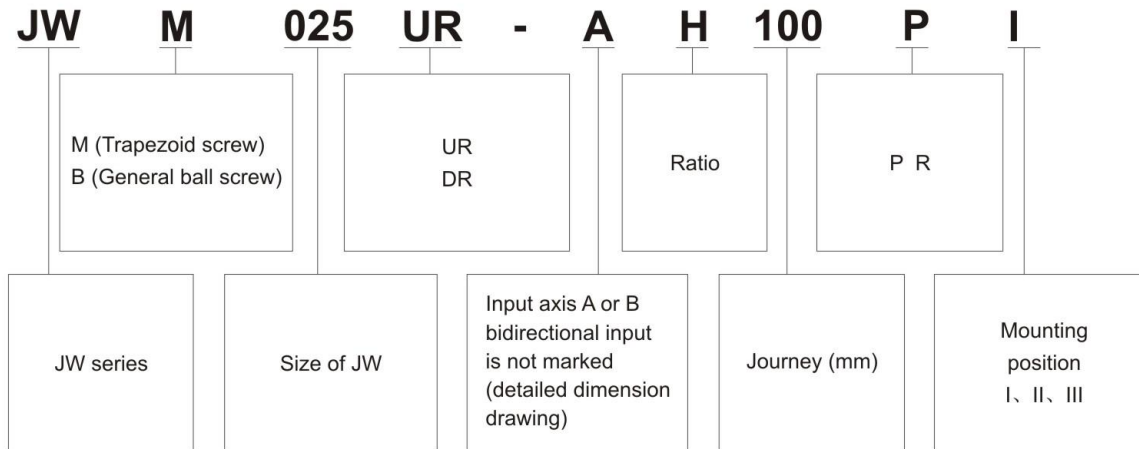


Note: Selecting mounting position III, the quality of bolt on housing feet reaches 10.9.



LINEAR MOTION

Illustration of type with traveling nut



JW with Traveling nut

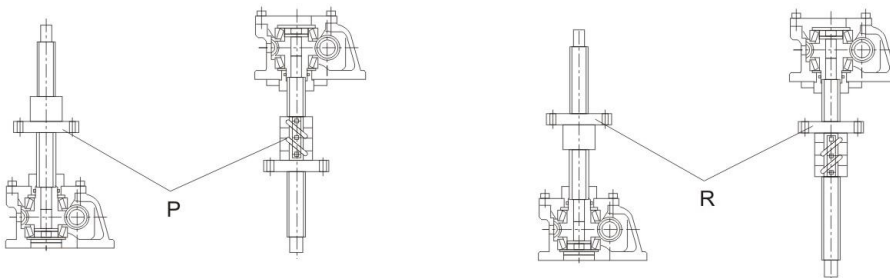
In general, Jack need enough space for screw's traveling journey and dust-hood.
Using traveling nut can help jack realize longer traveling journey in limited space.
The top end fittings are column, it can be a supporting point for a good transmission effect
when a long traveling journey is selected.

UR: UPRISE DR: DROP

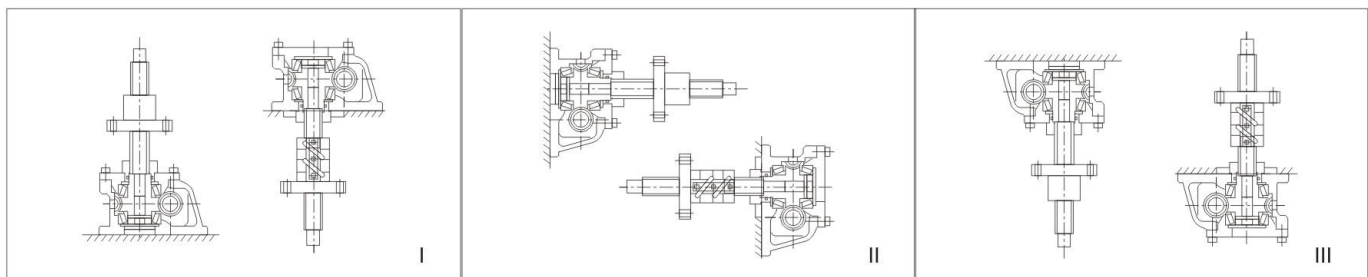
Select UR or DR according to the load and mounting positions.

Mounting direction of traveling nut (P, R)

The mounting direction of traveling nut should be signed on drawing when selecting types.



Mounting position of Jack (I, II, III)



Note: Selecting mounting position III, the quality of bolt on housing feet reaches 10.9.



LINEAR MOTION

Note:

- 1) Select a Jack with sufficient capacity according to safety factor, service journey and stability. And stationary load, dynamic load and shock load must be lower than permissible maximum load.
- 2) Please note that rotation speed of screw must match load, permissible maximum load, permissible maximum outer load, and permissible rotation speed of screw must be verified. If these figures exceed that of products, jacks will be damaged greatly.
- 3) The surface temperature will be limited in -15° ~80° when jack working to ensure the temperature of traveling nuts in -15° ~80° .
- 4) Maximum input speed is 1500r/min.
- 5) JWM and JWB aren't suitable for continuous operation,
 Jack Duty(%ED)
 JWM duty(%ED) cannot exceed 20%ED,
 JWB duty(%ED) cannot exceed 30%ED,

Duty %ED=

$$\frac{\text{jack operating time(lift \& lower cycle)}}{\text{Elapsed cycle time}} \times 100\%$$

- 6) When several Jacks are connected on the same axial line, the loaded torque with each Jack must be verified and limited within permissible input torque.
- 7) Starting torque must be 200% of service torque.
- 8) At below 0° ambient temperature, changed adhesion of lubrication will lower Jack's efficiency so that sufficient drive is necessary.
- 9) JWM has self-lock function, but an Extra braking device or drive source with braking device is necessary to be equipped because self-lock will be of mal-function When Jack is loaded a heavy shock.
 JWB has no self-lock function, to avoid backspin of screw under axial load and its weight, a braking device or drive source with braking device is necessary to be equipped and braking torque must be larger than operating torque of jack.
- 10) Jack's operating conditions

Working Location	Indoor location without rainwater
Ambient Air	Normal
Ambient Temperature	-15°C~40°C
Relative Humidity	Less than 85%

- 11) When working in dusty space, Jack must be equipped with elastic dust-hood on screw; in open air, shield must be equipped to prevent exposure to wind and rain.
- 12) When working, Jack cannot be forced to stop, or it will be damaged seriously.
- 13) Under load, don't change motor drive mode into manual drive, or which will cause backspin of screw and cause great danger.

How to select type:

Determine Jack's type:

calculate total equivalent load Ws (N):

$$W_s = W_{max} \times f_1$$

Service factor for driven machine (f1):

Load character	Example	Factor for driven machine (f1)
shockless load & small inertia load	Switch, valve transmission belt swithing device	1.0~1.3
moderate shock & moderate inertia	All kinds of moving devices, all kinds of elevators	1.3~1.5
heavy shock & large inertia	Carrying something by trolley; to keep the position of idling gear	1.5~3.0

Calculate equivalent load of single Jack,

$$W = \frac{W_s}{\text{Number} \times \text{Linkage factor (fd)}}$$



LINEAR MOTION

Linkage factor(fd):

Number of linkage jack	1	2	3	4	5-8
Linkage factor	1	0.95	0.9	0.85	0.8

Temporarily determine Jack type:

Temporarily determine Jack type after taking full consideration of load, speed, journey, efficiency and drive source. Determine JW type according to service journey, ambient conditions, connection mode of end-fittings.

Verify input power

If required input power under load exceeds permissible maximum input power, please select larger type or lower the speed of screw rotation.

Calculation of required input power under load:

Required rotation speed of input shaft	n_1 (r/min)	$n_1 = \frac{V}{L_1} \times i$
Required torque of input shaft	T_1 (N · m)	$T_1 = \frac{W \times L_1}{2 \pi \times i \times \eta} + T_0$
Required input power	P_1 (kW)	$P_1 = \frac{T_1 \times n_1}{9550}$

V: linear speed of screw mm/min L: Pitch of screw (m)
 i: ratio W: equivalent load of single jack π :pi
 η : Integrated efficiency T_0 : No-load torque (Nm)
 (L1、i、 η 、 T_0 refer to basic parameter table)

Verify the stability of screw:

Please verify the stability of screw under axial load, larger type should be used when load exceed the critical load.

The formula to calculate the critical load as follows:

$P_{CR} = fm \times \left(\frac{d^2}{L_a}\right)^2$	ensure	$P_{CR} > W \times SF$ (SF=4)
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Pcr: Critical load (N)

d: small diameter of screw end (mm)(refer to basic parameter table)

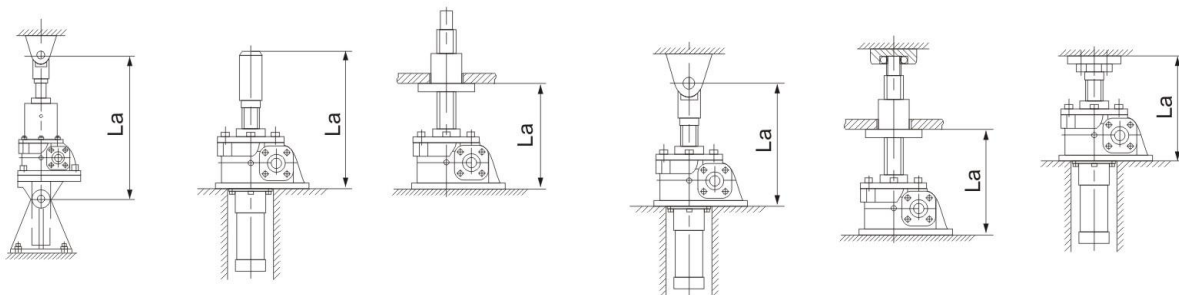
fm: support factor

La: distance between load-supporting point and mounting point as drawing.

W: equivalent load of single jack (N)

SF: safety factor (SF=4 as usual)

Verifying the stability of screw, the values of La and fm as follows,



support at both ends $fm=10 \times 10^4$

Foot-mounted & movable shaft end $fm=2.5 \times 10^4$

Foot-mounted & shaft end supporting or fixed $fm=20 \times 10^4$

Verifying critical rotation speed:

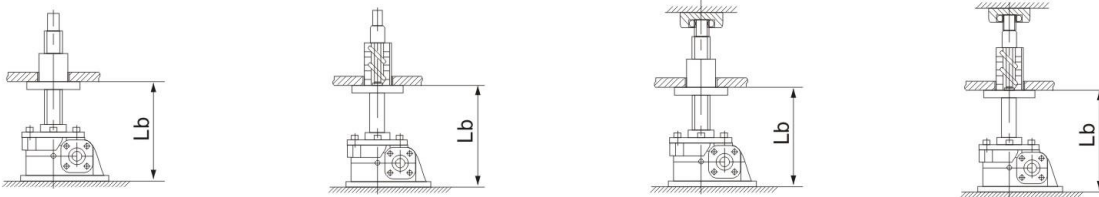
Using traveling nut, the rotation speed of screw must be lower than critical speed, if no, please select larger type and calculate again.



$$n_c = \frac{96 \times fn \times d \times 10^6}{L_b^2} \qquad n_s = \frac{n1}{i}$$

- n_c : Permissible rotation speed of screw
- n_s : Rotational speed of screw
- d: Small diameter of screw (refer to basic parameter table)
- n1: Rotational speed of input shaft
- fn: Length factor
- i: ratio
- Lb: Distance between both supporting face

Verifying the rotation speed of screw, the values of Lb and fn as follows,



Movable shaft end fn=0.36

Shaft end supporting fn=1.56

Ensure: $n_c > n_s$

Example for calculation:

Take JWM200UR-H1200PI as example, n1=1200r/min, connecting mode of top-end : I, we can know d=49.3, Lb=1437 referring to dimension and transmission capacity table.

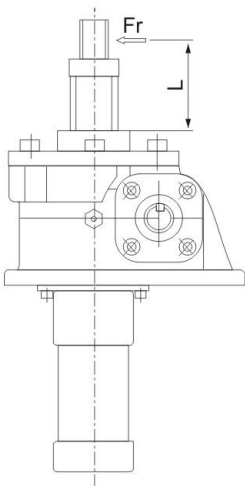
$$n_s = \frac{n1}{i} = \frac{1200}{8} = 150r/min$$

$$n_c = \frac{96 \times fn \times d \times 10^6}{L_b^2} = \frac{96 \times 1.56 \times 49.3 \times 10^6}{(1437)^2} = 3575r/min$$

$n_c = 3575r/min > n_s = 150r/min \dots \dots \dots ok.$

When there is radial load, please add guiding device.

JWM Permitted radial load Fr(N):

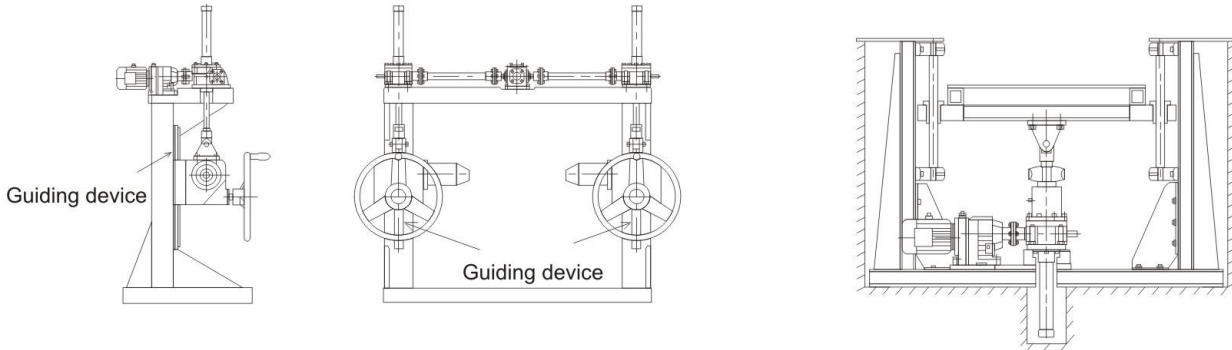


Fr(N) \ Type	010	025	050	100	150	200	300	500	750	1000
100	318	570	2500	4010	4610	8210	38200	85300	73500	186200
200	159	290	1250	2010	2300	4110	23000	50400	56800	145000
300	106	190	830	1340	1540	2740	15300	33600	46100	104700
400	79	140	620	1000	1150	2050	11400	25200	39300	78500
500	64	110	500	800	920	1640	9100	20200	33900	62800
600	53	100	420	670	770	1370	7600	16800	29900	52300
700	51	90	360	570	660	1170	6500	14400	26700	44800
800	48	90	310	500	580	1030	5700	12600	24100	39200
900	45	90	280	450	510	910	5000	11200	22000	34800
1000	42	90	250	400	460	820	4500	10100	20200	31300

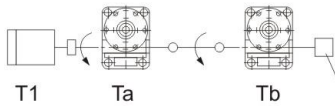


LINEAR MOTION

When operating radial load exceeds critical radial load, please add guiding device, for example,



Please verify input torque of each Jack when several Jack are connected on the same input axial line as the following,

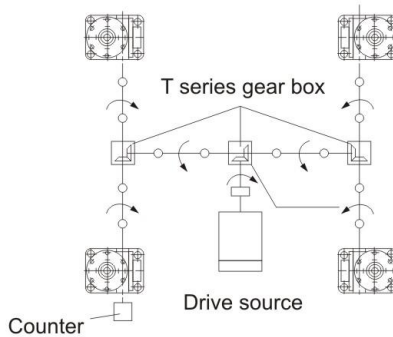


Ta: Required torque of input shaft of jack a.
 Tb: Required torque of input shaft of jack b.
 Required torque of motor T1=Ta+Tb<Promitted input torque of jack a.

Jack selection example:

Example: Four Jacks, linked as the following drawing, normal temperature, thin dust, radial load, with guiding devices on one side, foot-mounted, fixed the screw top-end, 380v/50Hz, service frequency: 2 times/hour,service time: 8 hours.

1. Maximum axial load; 88.2KN/4 Jacks
2. Linear speed: 10mm/s (600mm/min)
3. Service journey: 260mm



Determine Jack type,

1) Calculate total equivalent load Ws (Factor for driven machinc is 1.3)

$$W_s = W_{max} \cdot f_1 = 88200 \times 1.3 = 114660N$$

2) Calculate equivalent load of single jack:

$$w = \frac{114660}{4 \times 0.85} = 33724N$$

3) Temporarily determine type,

Temporarily determine JWB050USH according to speed, efficiency, drive and Load (refer to basic parameter table)

4) Verify journey:

Service journey is 260mm, determine journey should be 300 after considering surplus. (Please refer to dimension sheet of JWB050US).

5) Check input power:

(1) Calculatc required input power:

$$\textcircled{1} n_1 = \frac{V}{L_1} \times i = \frac{0.60}{0.010} \times 6 = 360r/min$$

$$\textcircled{2} T_1 = \frac{W \times L_1}{2 \pi \times i \times \eta} + T_0 = \frac{33724 \times 0.010}{2 \times 3.14 \times 6 \times 0.64} + 1.37 = 15.4Nm$$

$$\textcircled{3} P_1 = \frac{T_1 \times n_1}{9550} = \frac{15.4 \times 360}{9550} = 0.58kW$$



(2) Verify the stability of screw

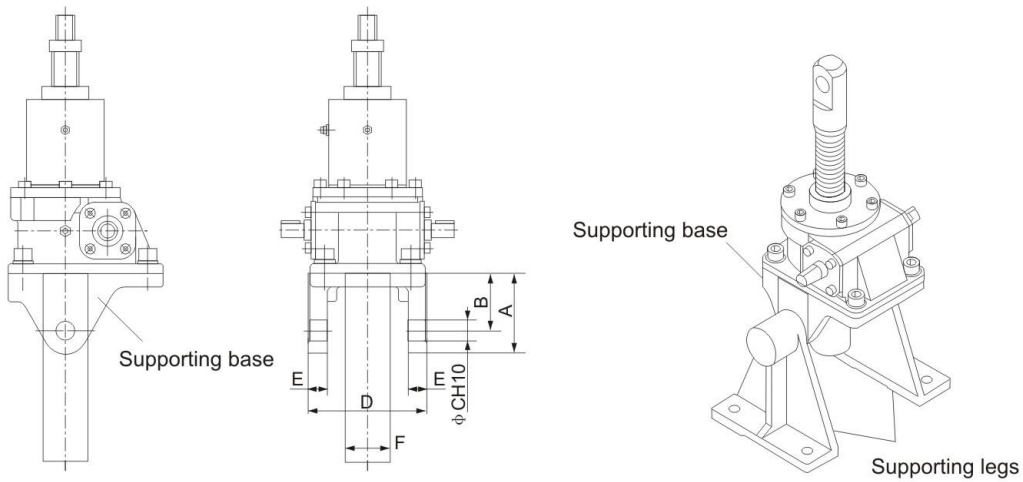
For under axial load, refer to transmission table and dimension for the following figures,

$d=31.3$	$La=604+33=637$	$fm=20 \times 10^4$	$SF=4$
$P_{CR}=fm \times \left(\frac{d^2}{L_a}\right)^2 = 20 \times 10^4 \times \left(\frac{31.3^2}{637}\right)^2 = 473073N$			
$P_F = \frac{P_{CR}}{SF} = \frac{473073}{4} = 118268 > W = 33724$			
		OK

Accessory confirmation:

Support (Mode C mounting):

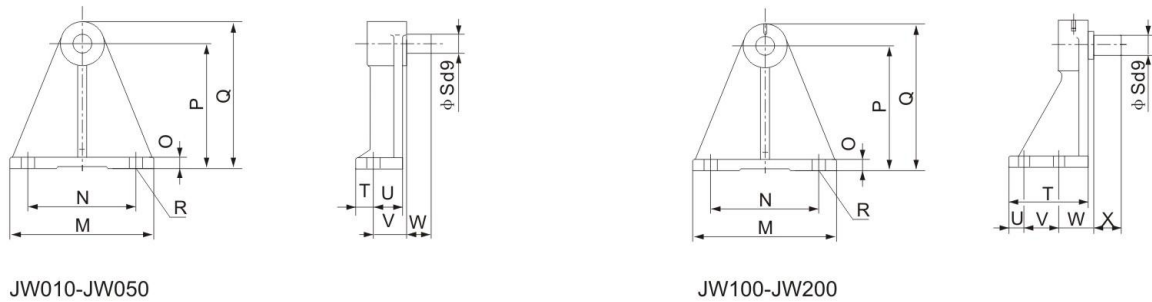
support-mounted mode widely apply to tilting equipment.



Type	A	B	C	D	E	F
010	75	60	15	86	15	35
025	100	75	20	115	20	45
050	105	75	25	158	25	58
100	145	100	40	201	30	76.3
150	155	105	50	224	44	76.3
200	173	110	63	244	50	89.1

Supporting legs:

Matching supporting base and legs realizes multi-angles lifting and lowering.





LINEAR MOTION

Type	M	N	O	P	Q	R	S	T	U	V	W	X
010	180	130	15	150	178	2-φ 18	15	25	40	45	17	-
025	180	130	15	150	178	2-φ 18	20	25	40	45	30	-
050	200	150	15	170	200	2-φ 18	25	25	40	45	35	-
100	280	220	22	240	290	4-φ 22	40	159	30	70	70	55
150	360	280	27	300	360	4-φ 33	50	195	40	85	85	70
200	400	320	30	380	450	4-φ 33	63	210	40	90	90	75

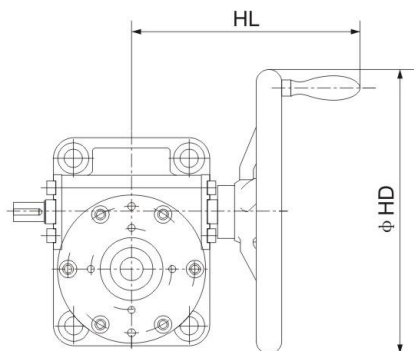
Hand wheel:

Hand wheel only apply to JWM under light shock or vibration condition but not for JWB.

$$M_{\text{handwheel}} = M_{\text{required}} / R_{\text{handwheel}}$$

JWM025US-H200MI

Refer to 180



NV100

Hand wheel mode



Dimension sheet:

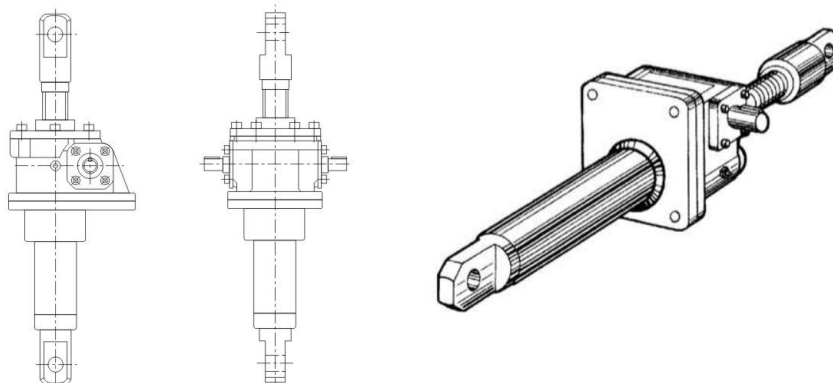
(mm)

Type	NV80		NV100		NV200		NV250		NV450	
	HD	HL	HD	HL	HD	HL	HD	HL	HD	HL
JWM010	80	122	100	125	—	—	—	—	—	—
JWM025	—	—	100	140	200	198	—	—	—	—
JWM050	—	—	—	—	200	221	250	229	—	—
JWM100	—	—	—	—	—	—	250	242	450	295
JWM150	—	—	—	—	—	—	250	247	450	300
JWM200	—	—	—	—	—	—	—	—	450	304

Note: The dimension of hand wheel is subject to product purchased from other factories.

Double end output :

Apply to open and close devices, reversing devices.





LINEAR MOTION

Combination of JW series:

Direct-connected-motor:

Illustration of types:

JWM050US-H200MI

Refer to 180

Y

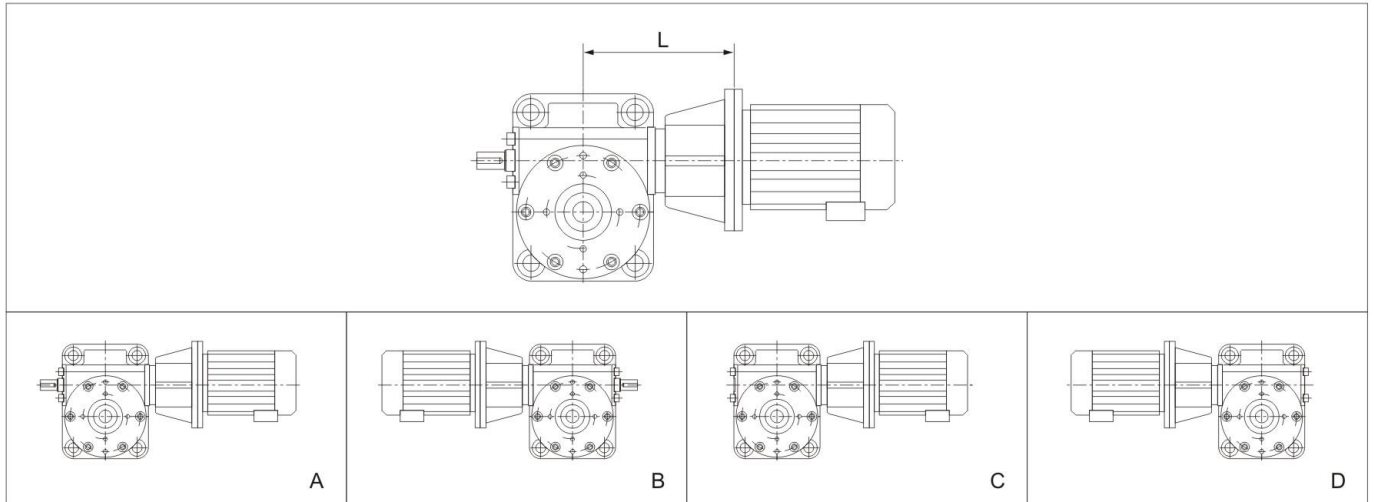
Motor mode

0.55

Motor power

A

Combination



Type	JWM010				JWM025						JWM050					
Motor Power (kW)	0.12	0.18	0.25*	0.37*	0.12	0.18	0.25	0.37	0.55*	0.75*	0.25	0.37	0.55	0.75	1.1*	1.5*
L (mm)	136				142						170					

Type	JWM100						JWM150						JWM200					
Motor Power (kW)	0.37	0.55	0.75	1.1	1.5	2.2*	0.55	0.75	1.1	1.5	2.2*	3*	0.75	1.1	1.15	2.2	3	4*
L (mm)	225						232						260					

Note: 1. Motor power must accord with JM basic parameter table.

2. 4-pole motor power are available in the table.

3. 6-pole motors or "*" frequency conversion and braking motors should be foot-mounted for their heavy weight.

Combination with gear motor:

Illustration of types:

JWM050US-H200MI

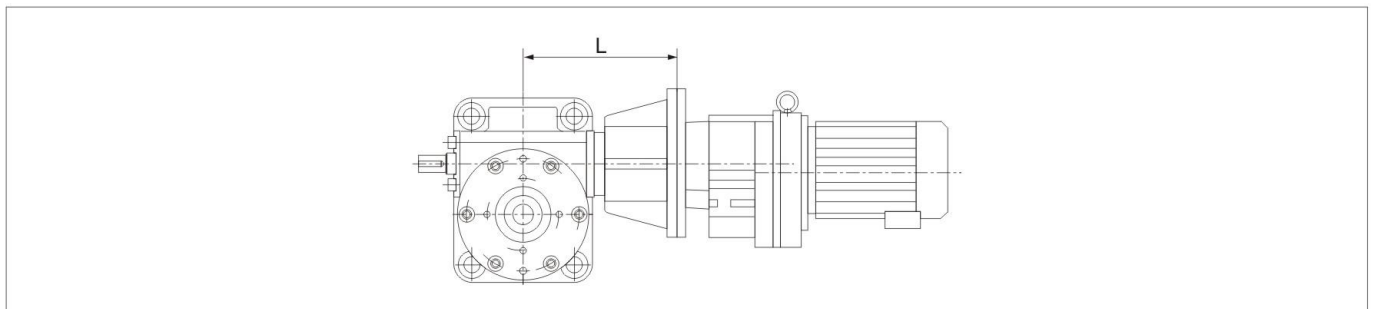
Refer to 180

R37-5-Y-0.55

Illustration of the gear motor

A

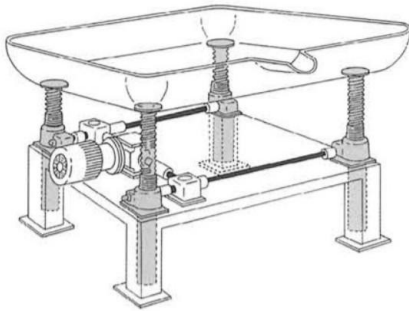
Combination



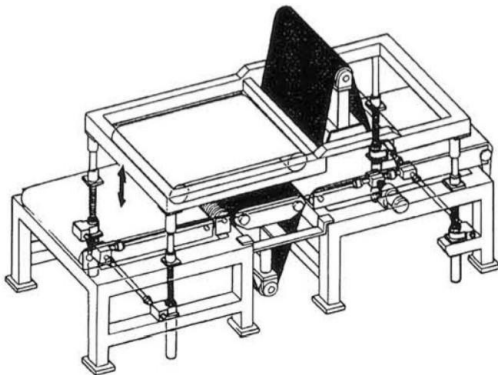
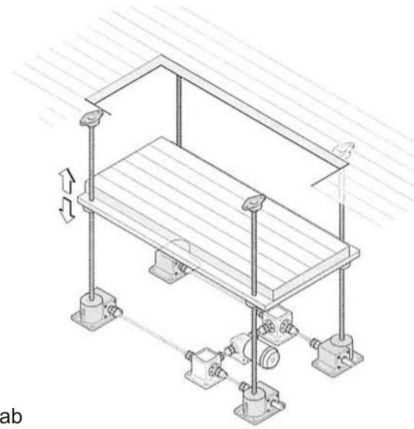
Note: If gear motor is over weight, consult us please.



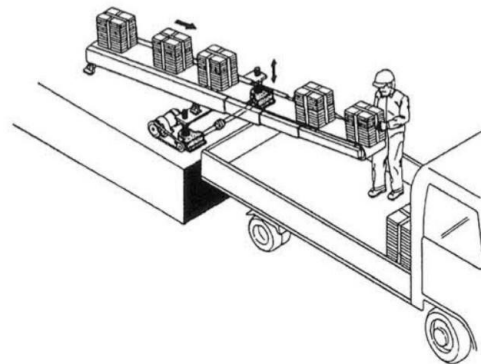
Application example:



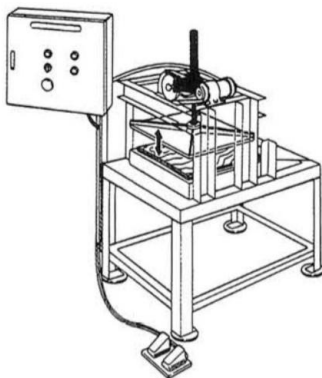
Ascending and descending of flat slab



Adjust operation height of surface machining tool



Adjust inclination pitch of conveyer apron



Operation height of straightening machine



Automatic switch on large windows (doors)



JWM010

JWM010US

JWM010DS

Journey (mm)	U S					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	101	201	161	261	194	5.5
200	101	301	161	361	294	5.7
300	101	401	201	501	434	6.1
400	101	501	201	601	534	6.3
500	101	601	236	736	669	6.6
600	101	701	236	836	769	6.9
800	101	901	271	1071	1004	7.5

Journey (mm)	D S					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	25	125	75	175	194	5.5
200	25	225	75	275	294	5.7
300	25	325	115	415	434	6.1
400	25	425	115	515	534	6.3
500	25	525	150	650	669	6.6
600	25	625	150	750	769	6.9
800	25	825	185	985	1004	7.5

JWM010UM

JWM010DM

Journey (mm)	U M					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	101	201	161	261	194	6.6
200	101	301	161	361	294	7.2
300	101	401	201	501	434	8.1
400	101	501	201	601	534	8.8
500	101	601	236	736	669	9.6
600	101	701	236	836	769	11
800	101	901	271	1071	1004	12

Journey (mm)	D M					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	25	125	75	175	194	6.6
200	25	225	75	275	294	7.2
300	25	325	115	415	434	8.1
400	25	425	115	515	534	8.8
500	25	525	150	650	669	9.6
600	25	625	150	750	769	11
800	25	825	185	985	1004	12

JWM010UR

JWM010DR

Journey (mm)	U R			
	X		L	m (kg)
	MIN	MAX		
100	108	208	246	5.9
200	108	308	346	6.1
300	108	408	446	6.2
400	108	508	546	6.4
500	108	608	646	6.6
600	108	708	746	6.8
800	108	908	946	7.2

Journey (mm)	D R			
	X		L	m (kg)
	MIN	MAX		
100	50	150	160	5.9
200	50	250	260	6.1
300	50	350	360	6.2
400	50	450	460	6.4
500	50	550	560	6.6
600	50	650	660	6.8
800	50	850	860	7.2

Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWM025

JWM025US

JWM025DS

JWM025UM

JWM025DM

JWM025UR

JWM025DR

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Journey (mm)	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	132	232	147	247	149	7.7
200	132	332	147	347	249	8.1
300	132	432	167	467	369	8.5
400	132	532	167	567	469	8.9
500	132	632	187	687	589	9.4
600	132	732	187	787	689	9.8
800	132	932	207	1007	909	11
1000	132	1132	227	1227	1129	12

Journey (mm)	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	149	7.7
200	42	242	57	257	249	8.1
300	42	342	77	377	369	8.5
400	42	442	77	477	469	8.9
500	42	542	97	597	589	9.4
600	42	642	97	697	689	9.8
800	42	842	117	917	909	11
1000	42	1042	137	1137	1129	12

Journey (mm)	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	132	232	147	247	175	10
200	132	332	147	347	275	12
300	132	432	167	467	395	13
400	132	532	167	567	495	14
500	132	632	187	687	615	15
600	132	732	187	787	715	17
800	132	932	207	1007	935	19
1000	132	1132	227	1227	1155	21

Journey (mm)	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	175	10
200	42	242	57	257	275	12
300	42	342	77	377	395	13
400	42	442	77	477	495	14
500	42	542	97	597	615	15
600	42	642	97	697	715	17
800	42	842	117	917	935	19
1000	42	1042	137	1137	1155	21

Journey (mm)	X		L	m (kg)
	MIN	MAX		
100	133	233	279	9.2
200	133	333	379	9.5
300	133	433	479	9.9
400	133	533	579	11
500	133	633	679	11
600	133	733	779	11
800	133	933	979	12
1000	133	1133	1179	13

Journey (mm)	X		L	m (kg)
	MIN	MAX		
100	79	179	189	9.2
200	79	279	289	9.5
300	79	379	389	9.9
400	79	479	489	11
500	79	579	589	11
600	79	679	689	11
800	79	879	889	12
1000	79	1079	1089	13

Note: "X(1)" is the dimension of jack with dust hood.



JWM050

JWM050US

JWM050DS

Journey (mm)	U S					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	154	254	169	269	147	18
200	154	354	169	369	247	19
300	154	454	189	489	367	20
400	154	554	189	589	467	21
500	154	654	209	709	587	22
600	154	754	209	809	687	23
800	154	954	229	1029	907	25
1000	154	1154	249	1249	1127	27

Journey (mm)	D S					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	147	18
200	42	242	57	257	247	19
300	42	342	77	377	367	20
400	42	442	77	477	467	21
500	42	542	97	597	587	22
600	42	642	97	697	687	23
800	42	842	117	917	907	25
1000	42	1042	137	1137	1127	27

JWM050UM

JWM050DM

Journey (mm)	U M					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	154	254	169	269	175	22
200	154	354	169	369	275	24
300	154	454	189	489	395	26
400	154	554	189	589	495	28
500	154	654	209	709	615	30
600	154	754	209	809	715	32
800	154	954	229	1029	935	36
1000	154	1154	249	1249	1155	40

Journey (mm)	D M					
	X		X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	175	22
200	42	242	57	257	275	24
300	42	342	77	377	395	26
400	42	442	77	477	495	28
500	42	542	97	597	615	30
600	42	642	97	697	715	32
800	42	842	117	917	935	36
1000	42	1042	137	1137	1155	40

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JWM050UR

JWM050DR

Journey (mm)	U R				
	X		L	m (kg)	
	MIN	MAX			
100	157	257	330	22	
200	157	357	430	22	
300	157	457	530	23	
400	157	557	630	24	
500	157	657	730	25	
600	157	757	830	26	
800	157	957	1030	27	
1000	157	1157	1230	29	

Journey (mm)	D R				
	X		L	m (kg)	
	MIN	MAX			
100	107	207	218	22	
200	107	307	318	22	
300	107	407	418	23	
400	107	507	518	24	
500	107	607	618	25	
600	107	707	718	26	
800	107	907	918	27	
1000	107	1107	1118	29	

Note: "X⁽¹⁾" is the dimension of jack with dust hood.

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JWM100

JWM100US

Journey (mm)	X		U S X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	161	261	171	271	151	27
200	161	361	171	371	252	29
300	161	461	186	486	366	32
400	161	561	186	586	466	34
500	161	661	211	711	591	37
600	161	761	211	811	691	40
800	161	961	226	1026	906	45
1000	161	1161	236	1236	1116	50
1200	161	1361	261	1461	1341	56

JWM100UM

Journey (mm)	X		U M X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	194	294	204	304	151	30
200	194	394	204	404	252	32
300	194	494	219	519	366	35
400	194	594	219	619	466	37
500	194	694	244	744	591	40
600	194	794	244	844	691	43
800	194	994	259	1059	906	48
1000	194	1194	269	1269	1116	53
1200	194	1394	294	1494	1341	58

JWM100UR

Journey (mm)	X		U R X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	184	284	344	32		
200	184	384	444	33		
300	184	484	544	34		
400	184	584	644	36		
500	184	684	744	37		
600	184	784	844	38		
800	184	984	1044	41		
1000	184	1184	1244	43		
1200	184	1384	1444	45		

JWM100DS

Journey (mm)	X		D S X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	27
200	42	242	52	252	252	29
300	42	342	67	367	366	32
400	42	442	67	467	466	34
500	42	542	92	592	591	37
600	42	642	92	692	691	40
800	42	842	107	907	906	45
1000	42	1042	117	1117	1116	50
1200	42	1242	142	1342	1341	56

JWM100DM

Journey (mm)	X		D M X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	30
200	42	242	52	252	252	32
300	42	342	67	367	366	35
400	42	442	67	467	466	37
500	42	542	92	592	591	40
600	42	642	92	692	691	43
800	42	842	107	907	906	48
1000	42	1042	117	1117	1116	53
1200	42	1242	142	1342	1341	58

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Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWM150

JWM150US

Journey (mm)	X		U S X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	183	283	193	293	151	33
200	183	383	193	393	252	35
300	183	483	208	508	366	38
400	183	583	208	608	466	41
500	183	683	233	733	591	45
600	183	783	233	833	691	47
800	183	983	248	1048	906	53
1000	183	1183	258	1258	1116	59
1200	183	1383	283	1483	1341	65

Journey (mm)	X		D S X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	33
200	42	242	52	252	252	35
300	42	342	67	367	366	38
400	42	442	67	467	466	41
500	42	542	92	592	591	45
600	42	642	92	692	691	47
800	42	842	107	907	906	53
1000	42	1042	117	1117	1116	59
1200	42	1242	142	1342	1341	65

JWM150UM

Journey (mm)	X		U M X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	219	319	229	329	151	37
200	219	419	229	429	252	40
300	219	519	244	544	366	43
400	219	619	244	644	466	46
500	219	719	269	769	591	49
600	219	819	269	869	691	52
800	219	1019	284	1084	906	58
1000	219	1219	294	1294	1116	64
1200	219	1419	319	1519	1341	69

Journey (mm)	X		D M X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	37
200	42	242	52	252	252	40
300	42	342	67	367	366	43
400	42	442	67	467	466	46
500	42	542	92	592	591	49
600	42	642	92	692	691	52
800	42	842	107	907	906	58
1000	42	1042	117	1117	1116	64
1200	42	1242	142	1342	1341	69

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JWM150UR

JWM150DR

Journey (mm)	X		L	m (kg)
	MIN	MAX		
100	214	314	379	40
200	214	414	479	42
300	214	514	579	43
400	214	614	679	45
500	214	714	779	46
600	214	814	879	48
800	214	1014	1079	51
1000	214	1214	1279	54
1200	214	1414	1479	57

Journey (mm)	X		L	m (kg)
	MIN	MAX		
100	128	228	239	40
200	128	328	339	42
300	128	428	439	43
400	128	528	539	45
500	128	628	639	46
600	128	728	739	48
800	128	928	939	51
1000	128	1128	1139	54
1200	128	1328	1339	57

Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWM200

JWM200US

JWM200DS

Journey (mm)	X		U S X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	203	303	213	313	151	42
200	203	403	213	413	252	45
300	203	503	228	528	366	49
400	203	603	228	628	466	53
500	203	703	253	753	591	57
600	203	803	253	853	691	60
800	203	1003	268	1068	906	67
1000	203	1203	278	1278	1116	74
1200	203	1403	303	1503	1341	81

JWM200UM

JWM200DM

Journey (mm)	X		U M X(1)		L	m (kg)
	MIN	MAX	MIN	MAX		
100	252	352	262	362	151	51
200	252	452	262	462	252	55
300	252	552	277	577	366	58
400	252	652	277	677	466	62
500	252	752	302	802	591	66
600	252	852	302	902	691	69
800	252	1052	317	1117	906	76
1000	252	1252	327	1327	1116	83
1200	252	1452	352	1552	1341	90

JWM200UR

JWN200DR

Journey (mm)	X		U R		L	m (kg)
	MIN	MAX	MIN	MAX		
100	237	337	422	56		
200	237	437	522	58		
300	237	537	622	60		
400	237	637	722	62		
500	237	737	822	64		
600	237	837	922	66		
800	237	1037	1122	71		
1000	237	1237	1322	75		
1200	237	1437	1522	79		

Journey (mm)	X		D M		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	51
200	42	242	52	252	252	55
300	42	342	67	367	366	58
400	42	442	67	467	466	62
500	42	542	92	592	591	66
600	42	642	92	692	691	69
800	42	842	107	907	906	76
1000	42	1042	117	1117	1116	83
1200	42	1242	142	1342	1341	90

J B I M

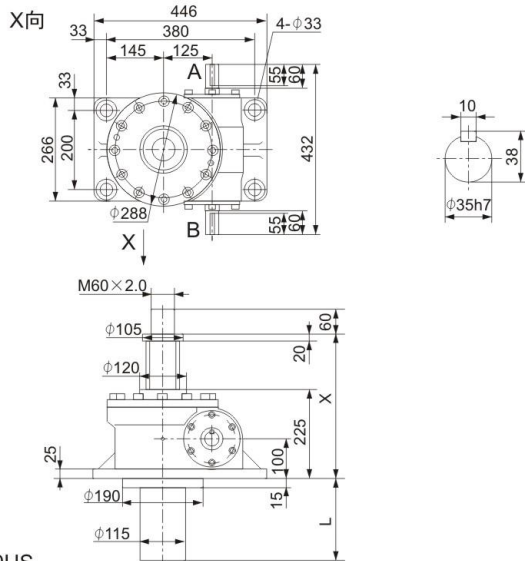
Note: "X(1)" is the dimension of jack with dust hood.



LINEAR MOTION

JWM300

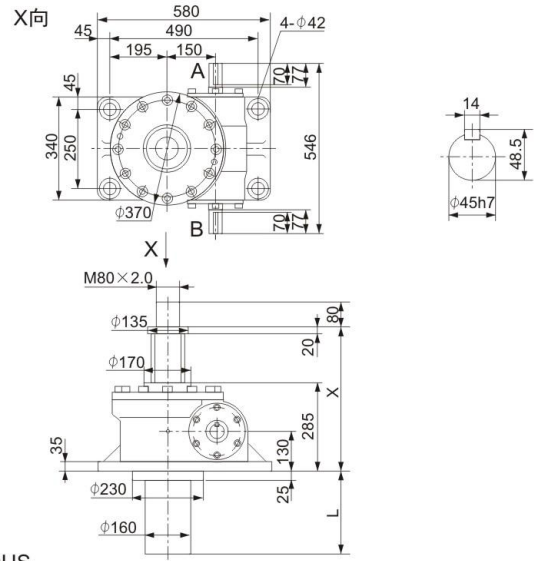
Journey (mm)	U S					D S					m (kg)
	X		X(1)		L	X		X(1)		L	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX		
100	255	355	265	365	160	55	155	65	165	160	118
200	255	455	265	465	260	55	255	65	265	260	123
300	255	555	280	580	375	55	355	80	380	375	128
400	255	655	280	680	475	55	455	80	480	475	134
500	255	755	295	795	590	55	555	95	595	590	139
600	255	855	295	895	690	55	655	95	695	690	145
800	255	1055	310	1110	905	55	855	110	910	905	155
1000	255	1255	330	1330	1125	55	1055	130	1130	1125	167
1200	255	1455	340	1540	1335	55	1255	140	1340	1335	177
1500	255	1755	365	1865	1660	55	1555	165	1665	1660	194



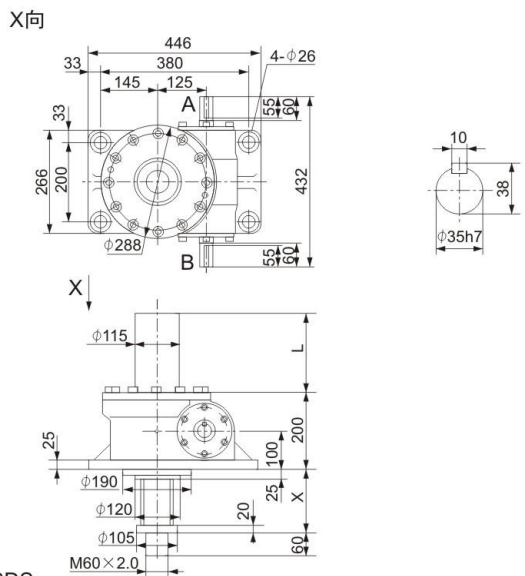
JWM300US

JWM500

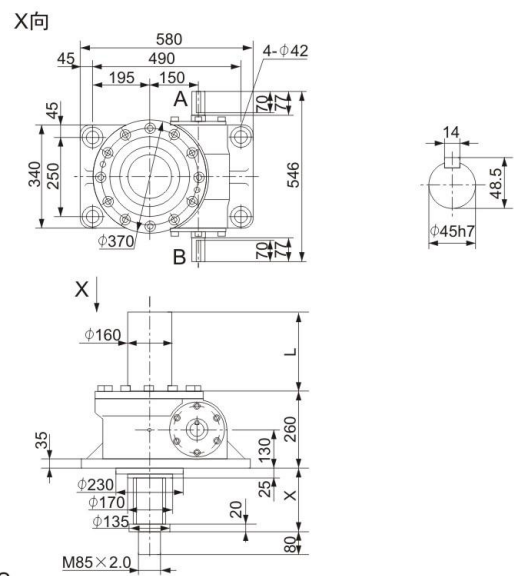
Journey (mm)	U S					D S					m (kg)
	X		X(1)		L	X		X(1)		L	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX		
100	315	415	320	420	165	55	155	60	160	165	248
200	315	515	320	520	265	55	255	60	260	265	260
300	315	615	340	640	385	55	355	80	380	385	273
400	315	715	340	740	485	55	455	80	480	485	284
500	315	815	350	850	595	55	555	90	590	595	297
600	315	915	350	950	695	55	655	90	690	695	308
800	315	1115	365	1165	910	55	855	105	905	910	332
1000	315	1315	380	1380	1125	55	1055	120	1120	1125	357
1200	315	1515	390	1590	1335	55	1255	130	1330	1335	380
1500	315	1815	410	1910	1665	55	1555	150	1650	1665	417
2000	315	2315	445	2445	2190	55	2055	185	2185	2190	477



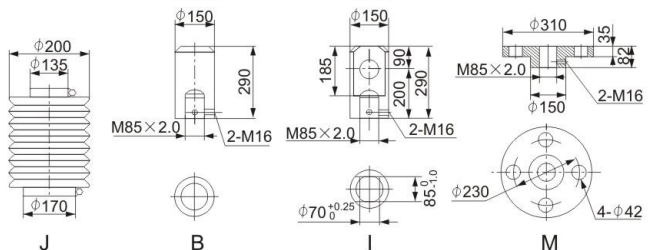
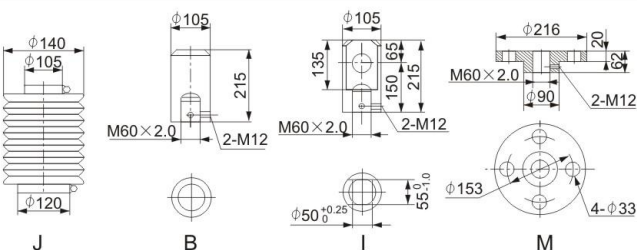
JWM500US



JWM300DS



JWM500DS

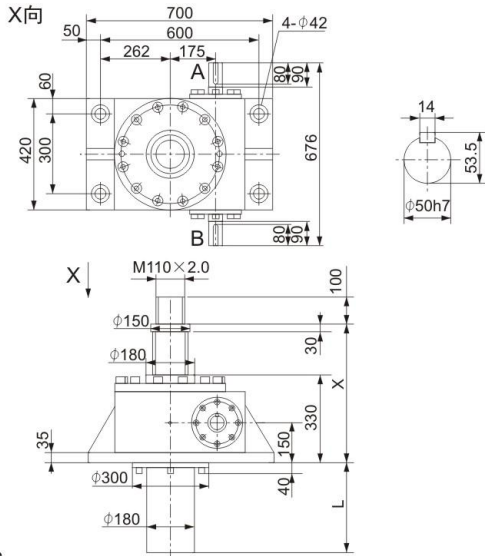


Note: "X(1)" is the dimension of jack with dust hood.



JWM750

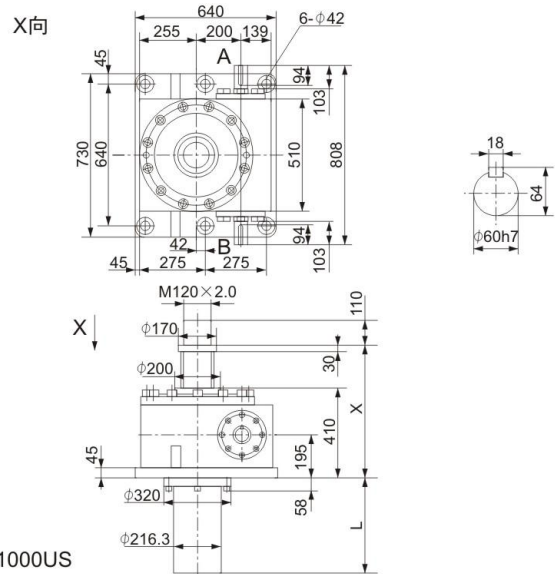
Journey (mm)	U S				L	D S				m (kg)	
	X		X(1)			X		X(1)			
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX		
100	370	470	380	480	165	70	170	80	180	165	370
200	370	570	380	580	265	70	270	80	280	265	384
300	370	670	395	695	385	70	370	95	395	385	401
400	370	770	395	795	485	70	470	95	495	485	415
500	370	870	410	910	595	70	570	110	610	595	431
600	370	970	410	1010	695	70	670	110	710	695	445
800	370	1170	425	1225	910	70	870	125	925	910	476
1000	370	1370	435	1435	1125	70	1070	135	1135	1125	506
1200	370	1570	450	1650	1335	70	1270	150	1350	1335	536
1500	370	1870	465	1965	1665	70	1570	165	1665	1665	581
2000	370	2370	500	2500	2190	70	2070	200	2200	2190	657



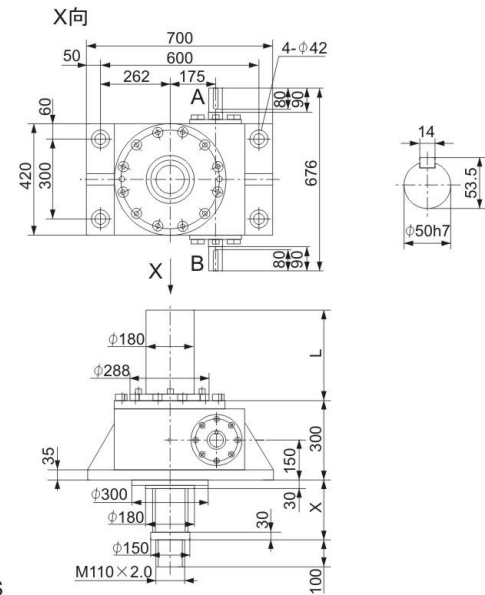
JWM750US

JWM1000

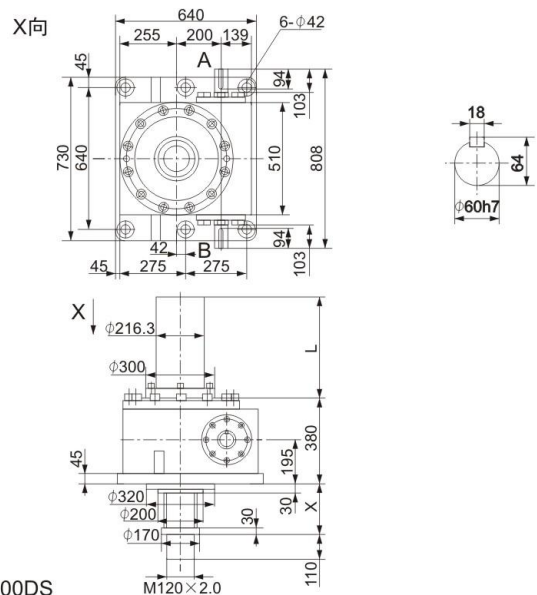
Journey (mm)	U S				L	D S				m (kg)	
	X		X(1)			X		X(1)			
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX		
100	450	550	460	560	165	70	170	80	180	165	748
200	450	650	460	660	265	70	270	80	280	265	766
300	450	750	475	775	385	70	370	95	395	385	787
400	450	850	475	875	485	70	470	95	495	485	805
500	450	950	485	985	595	70	570	105	605	595	824
600	450	1050	485	1085	695	70	670	105	705	695	842
800	450	1250	500	1300	910	70	870	120	920	910	881
1000	450	1450	510	1510	1125	70	1070	130	1130	1125	918
1200	450	1650	525	1725	1335	70	1270	145	1345	1335	957
1500	450	1950	545	2045	1665	70	1570	165	1665	1665	1014
2000	450	2450	575	2575	2190	70	2070	195	2195	2190	1109



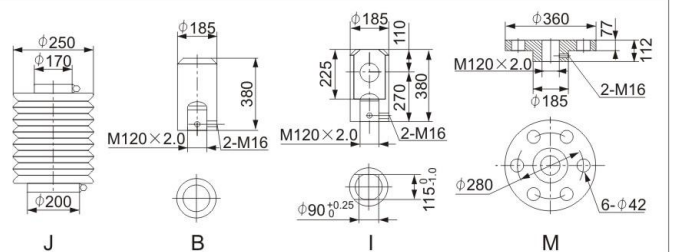
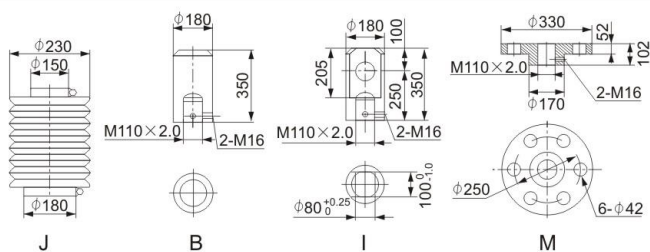
JWM1000US



JWM750DS



JWM1000DS



Note: "X(1)" is the dimension of jack with dust hood.



LINEAR MOTION

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