



JW series screw jack overview:

JWM (Trapezoid screw)

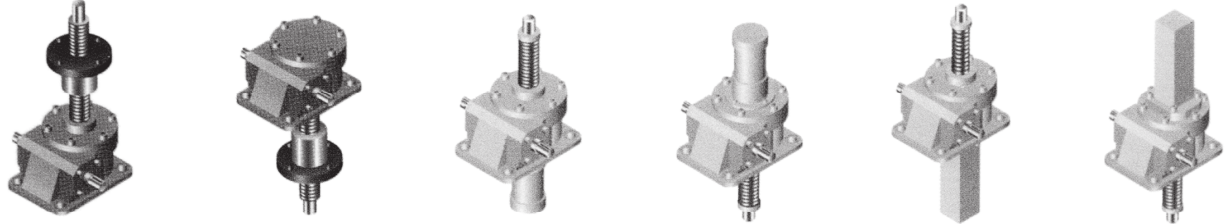
LOW SPEED LOW FREQUENCY

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.



JW

JWB (General ball screw)

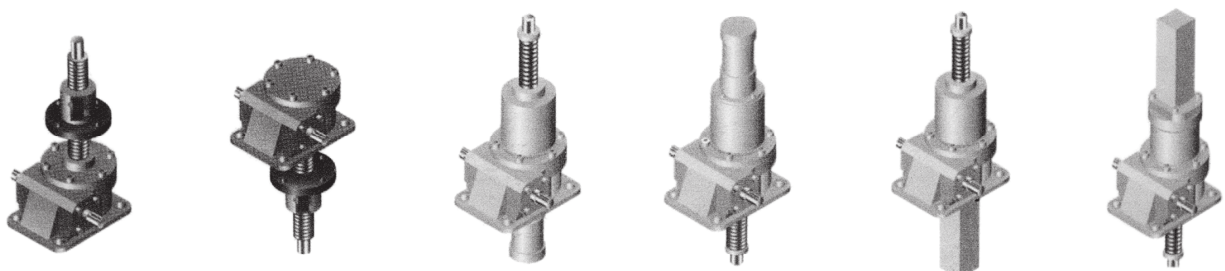
HIGH SPEED HIGH FREQUENCY

JWB (General ball screw) is suitable for high speed, high frequency and excellent performance.

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

- 1) High efficiency
Rolling friction improve efficiency greatly, only a little drive power can generate great thruust force.
- 2) High speed
Rolling friction speed up travel of screw easily.
- 3) Lifetime longer
High precision ball screw can make JWB's lifetime longer by 3 times comparing with JWB.

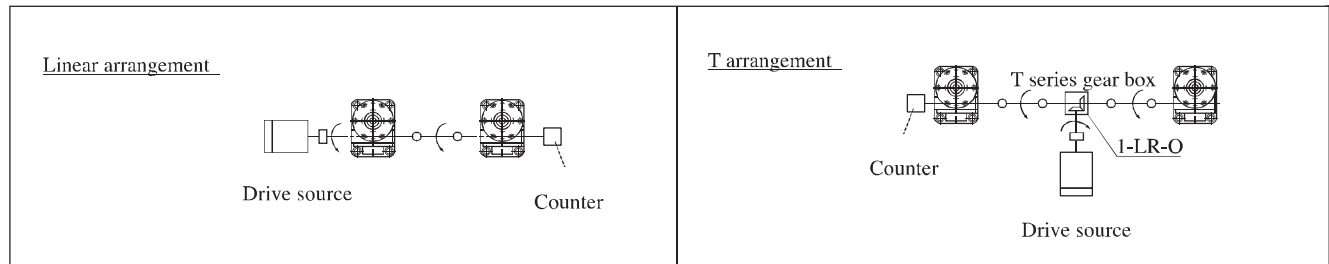
Note: Braking devices or motor with braking devices are necessary when choosing JWB.



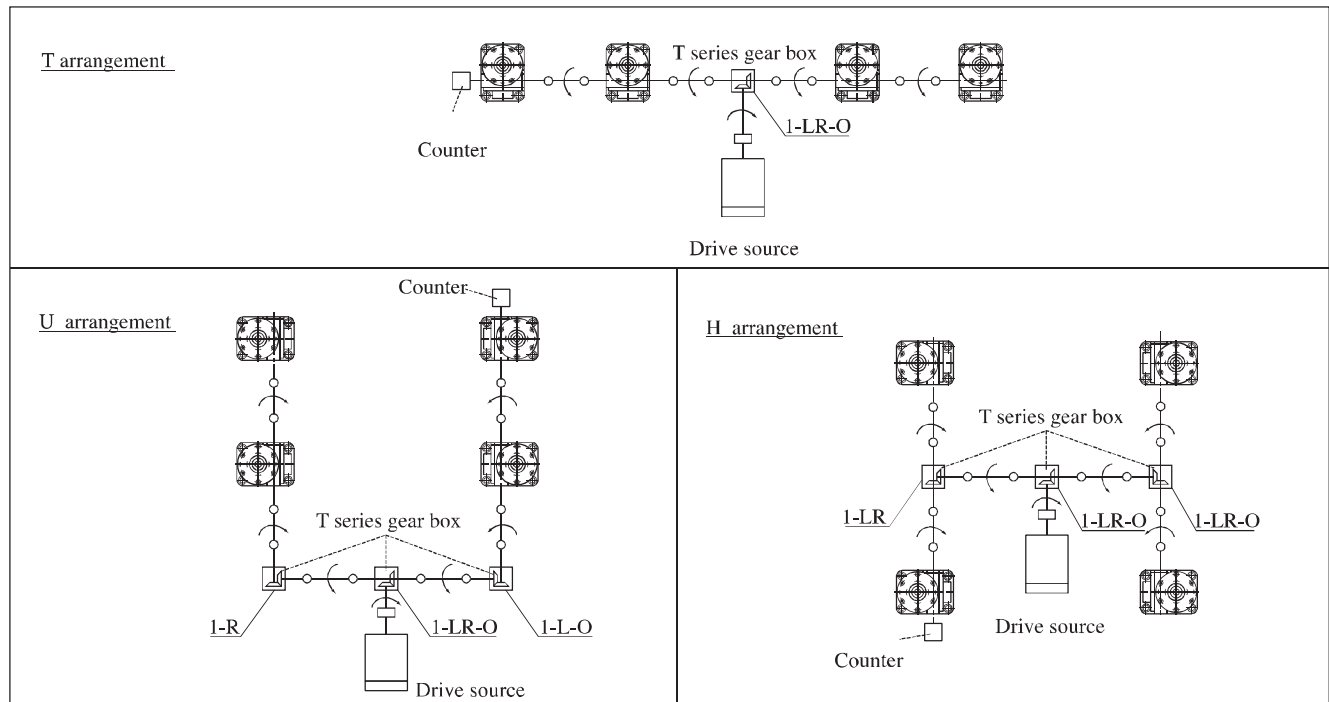


Application example:

Two gear boxes linking:



Four gear boxes linking:



Eight gear boxes linking:

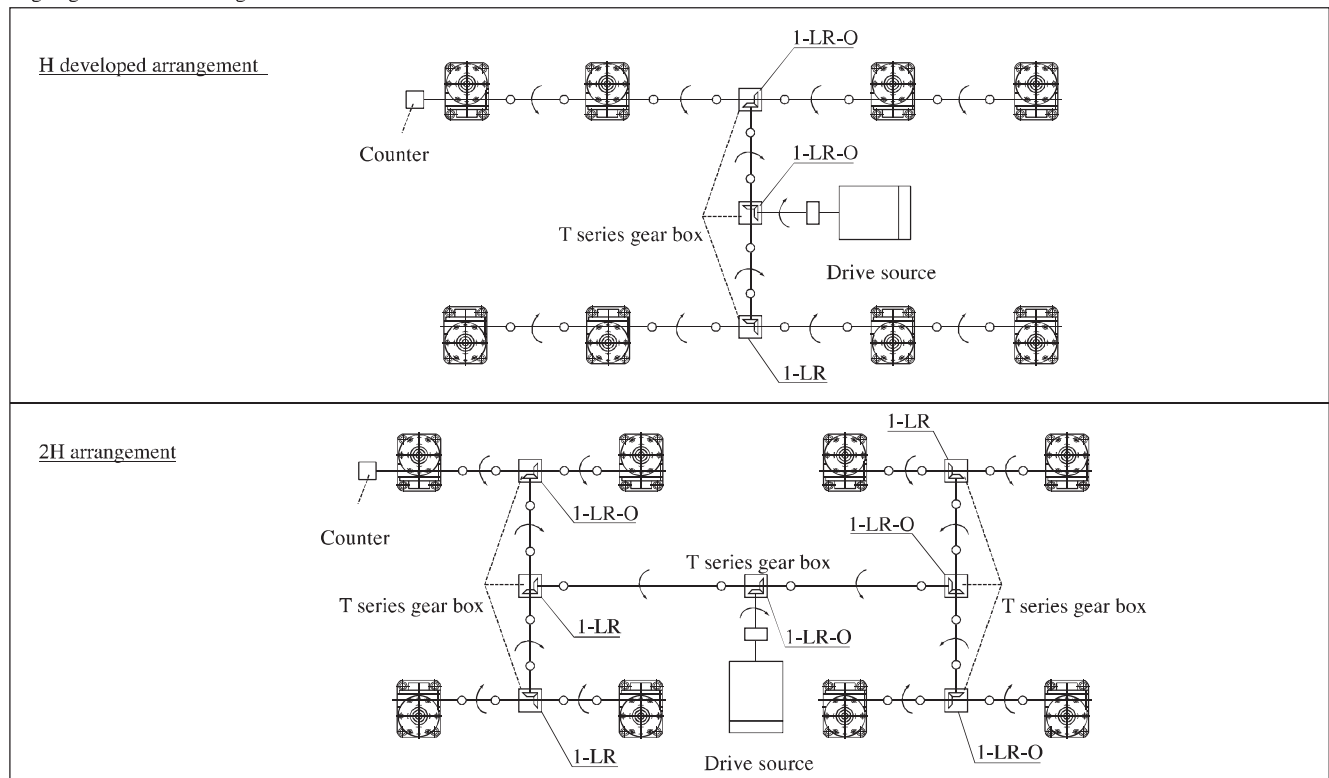
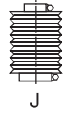
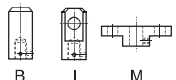




Illustration of types:

Plain mode and Mode with anti-rotation device:

JW	M	050	US	-	A	H	100	J	M	C	-	I
M (Trapezoid screw) B (General ball screw)		US DS UM DM		Ratio		 Dust hood		Support-mounted Normal foot-mounted isn't marked				
JW series	Size of JW		输入轴方向A或B 双向输入时不标 (详细标注外形尺寸图)			Journey(mm)		 Top end fittings		Mounting position I、II、III		

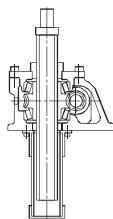
Plain mode (US, DS)

Worm wheel rotating, threaded spindles travel up and down.

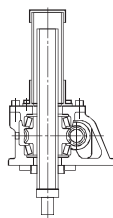
Ordinary mounting mode is applied here,

US: UPRISE DS: DROP

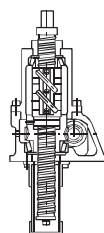
- * Select US or DS according to the load and mounting positions.
- * Anti-rotation measures must be taken because torque on screw will be caused when screw traveling up and down.



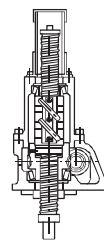
US



DS



US

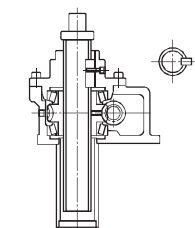


DS

With Anti-rotation device.

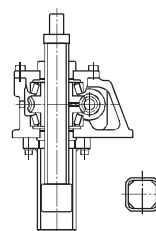
UM: UPRISE DM: DROP

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



(JWM100-JWM200)

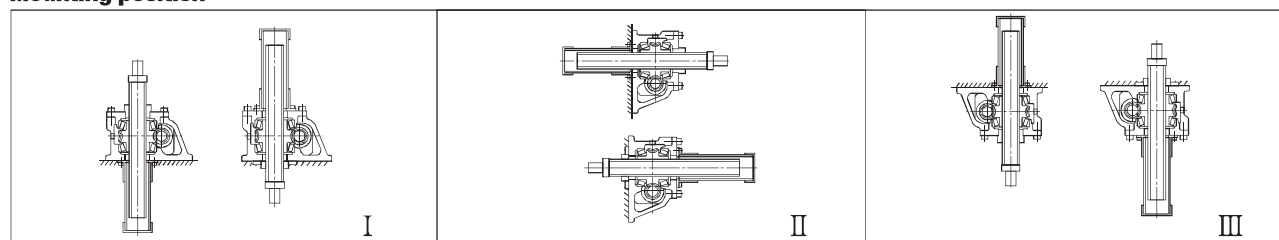
UM



(JWM010-JWM050) (JWB010-JWB200)

DM

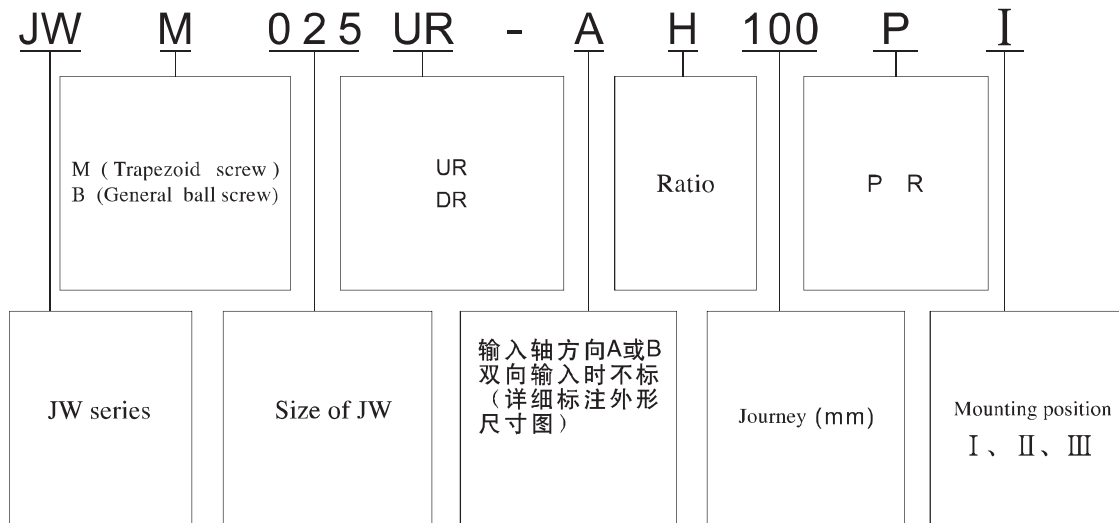
Mounting position



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



Illustration of type with traveling nut



JW with Traveling nut

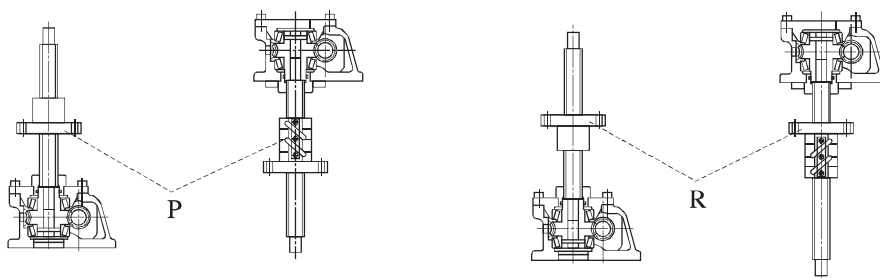
In general, Jack need enough space for screw's traveling journey and dust-hood. Using traveling nut can help jack realize longer traveling journey in limited space. The top end fittings are column, it can be a supporting point for a good transmission effect when a long traveling journey is selected.

UR: uprise DR: drop

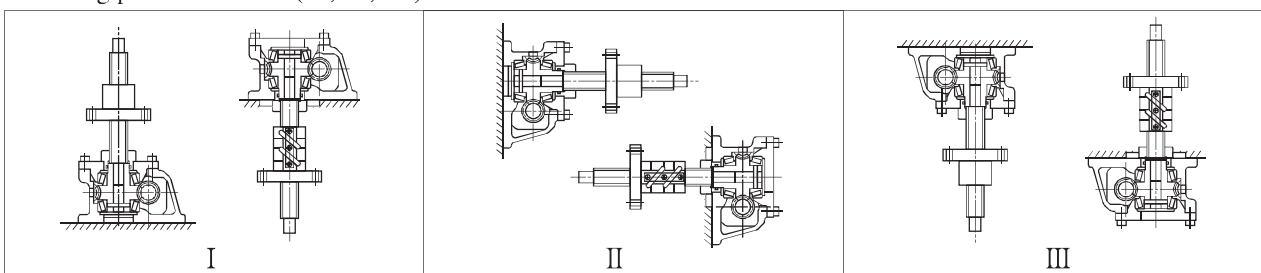
Select UR or DR according to the load and mounting positions.

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.



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 L ₁ (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	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 load (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

* Permission torque of shaft of reducer.

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

JW

JWB (General ball screw) basic parameter table:

Type		JWB010	JWB025	JWB050	JWB100	JWB150	JWB200	JWB300	JWB500
Maximal load (kN)		9.80	24.5	49.0	98.0	147	196	294	490
Outer diameter of screw (mm)		20	25	40	50	55	65	80	100
Small diameter of screw d (mm)		17.5	21.4	31.3	39.1	43.1	55.7	74.8	87
Pitch of screw L ₁ (mm)		5	8	10	12	12	12	16	20
Ratio i	H Speed	5	6	6	8	8	8	10 ^{2/3}	10 ^{2/3}
	L Speed	20	24	24	24	24	24	32	32
Integrated efficiency η	H Speed	61	62	64	63	63	62	56	60
	L Speed	34	35	39	43	43	41	34	38
Permissible output maximal power (kW)	H Speed	0.54	1.3	2.2	3.6	4.0	5.5	8.9	13.3
	L Speed	0.27	0.63	1.0	1.9	2.1	2.8	4.1	6.5
No-load torque T ₀ (N·m)		0.29	0.62	1.37	1.96	2.65	3.92	9.81	19.6
Keeping torque (N·m)	H Speed	1.27	4.31	10.78	19.6	39.2	51.0	68.6	140.1
	L Speed	0.26	0.91	2.4	5.8	11.8	15.0	19.5	41.2
Permissible torque of input shaft (N·m)		19.6	49.0	153.9	292.0	292.0	292.0	735.0	1372.0
Required torque of input shaft at maximal load (N·m)	H Speed	2.8	9.0	21.5	39.1	77.0	104.5	169.6	317.5
	L Speed	1.4	4.3	9.6	20.4	39.6	54.2	98.5	177.9
Axial displacement of screw, when input shaft rotate a circle. (mm)	H Speed	1	1.33	1.67	1.5	1.5	1.5	1.5	1.88
	L Speed	0.25	0.33	0.42	0.5	0.5	0.5	0.5	0.63
Permissible rotational speed of screw shaft at maximal loading (rpm)	H Speed	1500	1400	1000	890	500	500	500	400
	L Speed	1500	1400	1000	890	500	500	400	350
Rotational torque of screw at maximal load (N·m)		8.7	34.7	86.7	208.2	416.3	555.1	1040.9	2081.7

* Permissible torque of shaft of reducer.

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



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 $-15^{\circ} \sim 80^{\circ}$ when jack working to ensure the temperature of traveling nuts in $-15^{\circ} \sim 80^{\circ}$.
- 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	$-15^{\circ}\text{C} \sim 40^{\circ}\text{C}$
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 W_s (N):

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

Service factor for driven machine (f_l):

Load character	Example	Factor for driven machine (f_l)
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,

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

Linkage factor(fd):

连动台数 Number of linkage jack	1	2	3	4	5~8
连动系数 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)	$n_1 = \frac{V}{L} \times i$
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)

(L_1 , 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

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

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

f_m : support factor

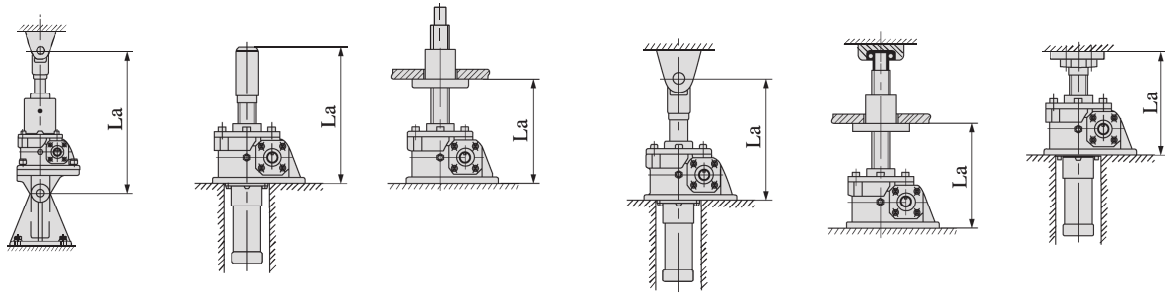
L_a : distance between load-supporting point and mounting point as drawing.

W : equivalent load of single Jack (N)

SF : safety factor (SF=4 as usual)



Verifying the stability of screw, the values of L_a and f_m as follows,



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

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

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

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.

$$n_c = \frac{96 \times f_n \times d \times 10^6}{L_b^2}$$

$$n_s = \frac{n_1}{i}$$

n_c : Permissible rotation speed of screw

n_s : Rotational speed of screw

d : Small diameter of screw (refer to basic parameter table)

n_1 : Rotational speed of input shaft

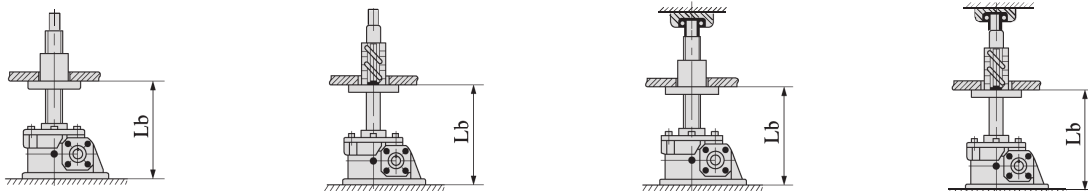
f_n : Length factor

i : ratio

L_b : Distance between both supporting face

JW

Verifying the rotation speed of screw, the values of L_b and f_n as follows,



Movable shaft end $f_n=0.36$

Shaft end supporting $f_n=1.56$

Ensure: $n_c > n_s$

Example for calculation:

Take JWM200UR-H1200PI as example, $n_1=1200$ r/min, connecting mode of top-end : I, we can know $d=49.3$, $L_b=1437$ referring to dimension and transmission capacity table.

$$n_s = \frac{n_1}{i} = \frac{1200}{8} = 150 \text{ r/min}$$

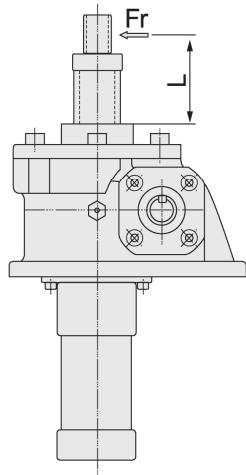
$$n_c = \frac{96 \times f_n \times d \times 10^6}{L_b^2} = \frac{96 \times 1.56 \times 49.3 \times 10^6}{(1437)^2} = 3575 \text{ r/min}$$

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



When there is radial load, please add guiding device.

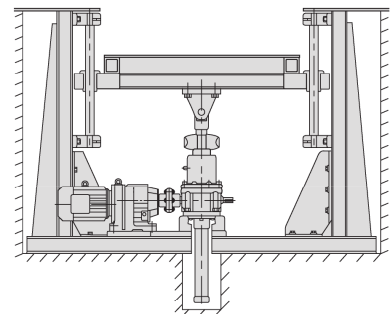
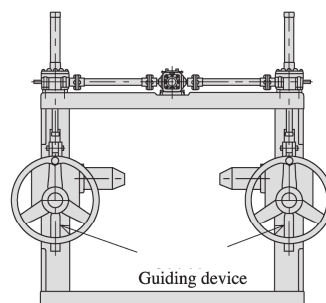
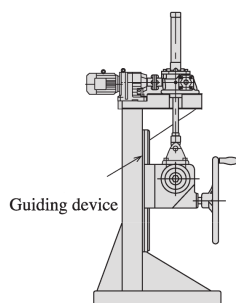
JWM Permitted radial load $F_r(N)$:



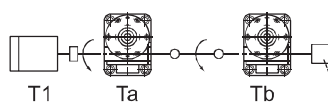
Fr(N) \ Type L (mm)	010	025	050	100	150	200	300	500	750	1000
100	318	570	2500	4010	4610	8210	38200	85300	73500	186200
200	159	290	1250	2010	2300	4110	23000	50400	56800	145000
300	106	190	830	1340	1540	2740	15300	33600	46100	104700
400	79	140	620	1000	1150	2050	11400	25200	39300	78500
500	64	110	500	800	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

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

JW



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 $T_1 = T_a + T_b <$

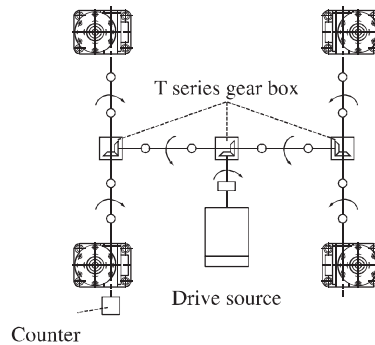
Permitted input torque of jack a.



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 W_s

(Factor for driven machine is 1.3)

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

- 2) Calculate equivalent load of single jack:

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

- 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) Calculate required input power:

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

$$\textcircled{2} T_1 = \frac{W \times L_1}{2 \pi \times i \times \eta} + T_0$$

$$= \frac{33724 \times 0.010}{2 \times 3.14 \times 6 \times 0.64} + 1.37 = 15.4 \text{ Nm}$$

$$\textcircled{3} P_1 = \frac{T_1 \times n_1}{9550}$$

$$= \frac{15.4 \times 360}{9550} = 0.58 \text{ kW}$$

- (2) Refer to basic parameter table, $P_{\max} = 2.2 \text{ kW} > P_1$

... ..OK

- 6) Verify the stability of screw

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

$$d = 31.3 \quad L_a = 604 + 33 = 637 \quad f_m = 20 \times 10^4 \quad SF = 4$$

$$P_{CR} = f_m \times \left(\frac{d^2}{L_a} \right)^2 = 20 \times 10^4 \times \left(\frac{31.3^2}{637} \right)^2 = 473073 \text{ N}$$

$$P_F = \frac{P_{CR}}{SF} = \frac{473073}{4} = 118268 > W = 33724$$

... ..OK



JWM010

(mm) Journey		X		U S		L	m (kg)
				X ⁽¹⁾			
		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	

(mm) Journey		X		D S		L	m (kg)
				X ⁽¹⁾			
		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	

(mm) Journey		X		U M		L	m (kg)
				X ⁽¹⁾			
		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	

(mm) Journey		X		D M		L	m (kg)
				X ⁽¹⁾			
		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	

J		B		I		M	

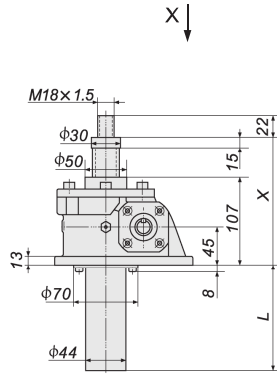
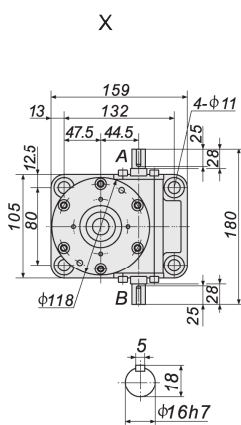
(mm) Journey		X		U R		Y	m (kg)
				X ⁽¹⁾			
		MIN	MAX	MIN	MAX		
100	108	208	246	5.9			
200	108	308	346	6.1			
300	108	408	446	6.2			
400	108	508	546	6.4			
500	108	608	646	6.6			
600	108	708	746	6.8			
800	108	908	946	7.2			

(mm) Journey		X		D R		Y	m (kg)
				X ⁽¹⁾			
		MIN	MAX	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			

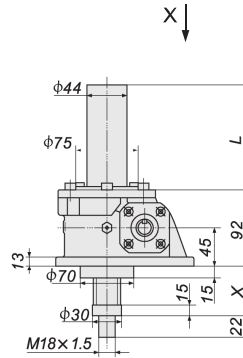
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWM025



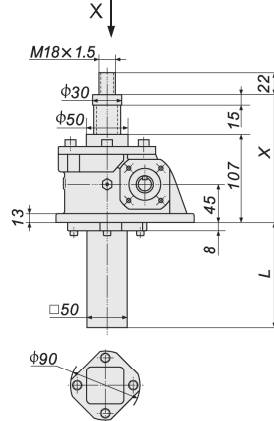
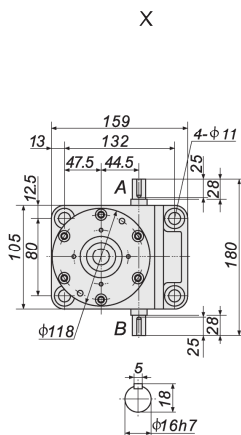
JWM025US



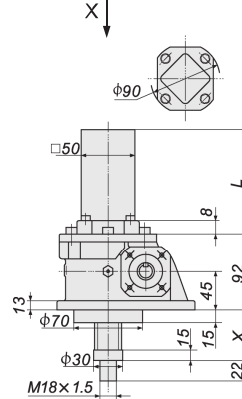
JWM025DS

(mm) Journey	U S				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	
100	132	232	147	247	149
200	132	332	147	347	249
300	132	432	167	467	369
400	132	532	167	567	469
500	132	632	187	687	589
600	132	732	187	787	689
800	132	932	207	1007	909
1000	132	1132	227	1227	1129

(mm) Journey	D S				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	
100	42	142	57	157	149
200	42	242	57	257	249
300	42	342	77	377	369
400	42	442	77	477	469
500	42	542	97	597	589
600	42	642	97	697	689
800	42	842	117	917	909
1000	42	1042	137	1137	1129



JWM025UM

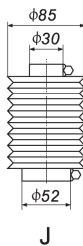


JWM025DM

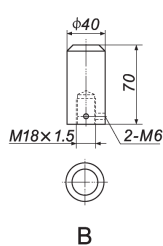
(mm) Journey	U M				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	
100	132	232	147	247	175
200	132	332	147	347	275
300	132	432	167	467	395
400	132	532	167	567	495
500	132	632	187	687	615
600	132	732	187	787	715
800	132	932	207	1007	935
1000	132	1132	227	1227	1155

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

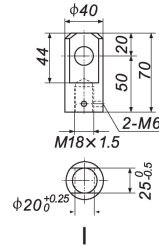
JW



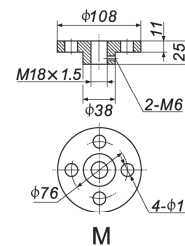
J



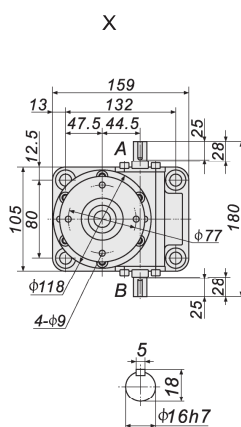
B



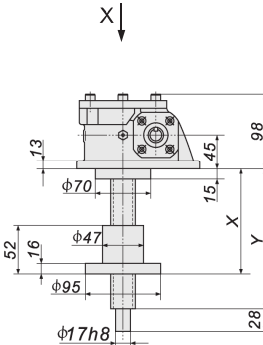
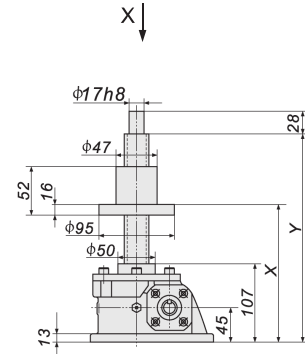
I



M



JWM025UR



JWM025DR

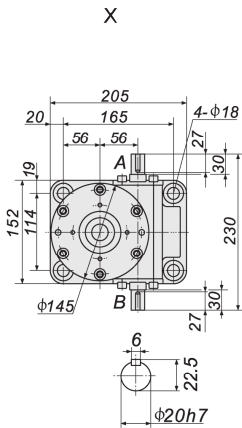
(mm) Journey	U R				
	X		Y		m (kg)
	MIN	MAX	MIN	MAX	
100	133	233	279	379	9.2
200	133	333	379	479	9.5
300	133	433	479	579	9.9
400	133	533	579	679	11
500	133	633	679	779	11
600	133	733	779	879	11
800	133	933	979	1079	12
1000	133	1133	1179	1279	13

(mm) Journey	D R				
	X		Y		m (kg)
	MIN	MAX	MIN	MAX	
100	79	179	189	289	9.2
200	79	279	289	389	9.5
300	79	379	389	489	9.9
400	79	479	489	589	11
500	79	579	589	689	11
600	79	679	689	789	11
800	79	879	889	989	12
1000	79	1079	1089	1189	13

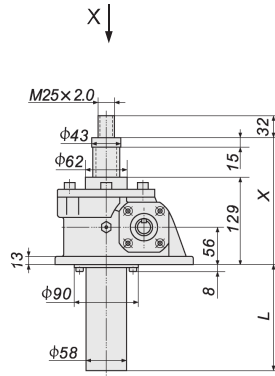
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



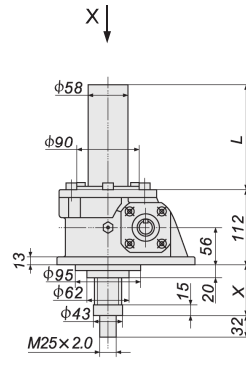
JWM050



JWM050US

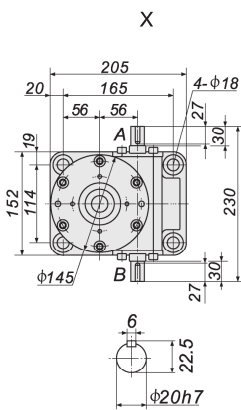


JWM050DS

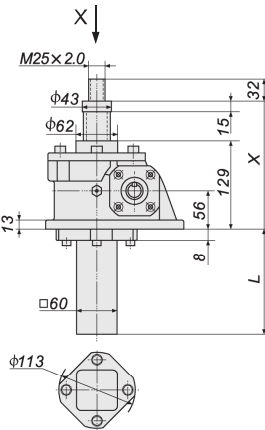


(mm) Journey	U S					m (kg)
	X		X ⁽¹⁾		L	
	MIN	MAX	MIN	MAX		
100	154	254	169	269	147	18
200	154	354	169	369	247	19
300	154	454	189	489	367	20
400	154	554	189	589	467	21
500	154	654	209	709	587	22
600	154	754	209	809	687	23
800	154	954	229	1029	907	25
1000	154	1154	249	1249	1127	27

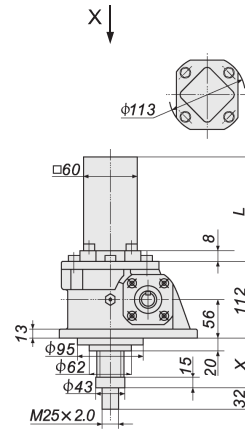
(mm) Journey	D S					m (kg)
	X		X ⁽¹⁾		L	
	MIN	MAX	MIN	MAX		
100	42	142	57	157	147	18
200	42	242	57	257	247	19
300	42	342	77	377	367	20
400	42	442	77	477	467	21
500	42	542	97	597	587	22
600	42	642	97	697	687	23
800	42	842	117	917	907	25
1000	42	1042	137	1137	1127	27



JWM050UM

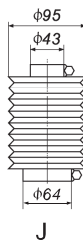


JWM050DM

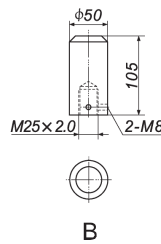


(mm) Journey	U M					m (kg)
	X		X ⁽¹⁾		L	
	MIN	MAX	MIN	MAX		
100	154	254	169	269	175	22
200	154	354	169	369	275	24
300	154	454	189	489	395	26
400	154	554	189	589	495	28
500	154	654	209	709	615	30
600	154	754	209	809	715	32
800	154	954	229	1029	935	36
1000	154	1154	249	1249	1155	40

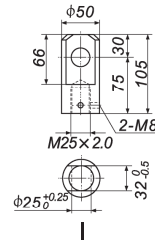
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	175	22
200	42	242	57	257	275	24
300	42	342	77	377	395	26
400	42	442	77	477	495	28
500	42	542	97	597	615	30
600	42	642	97	697	715	32
800	42	842	117	917	935	36
1000	42	1042	137	1137	1155	40



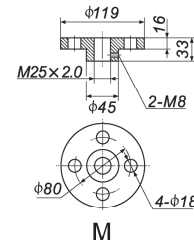
J



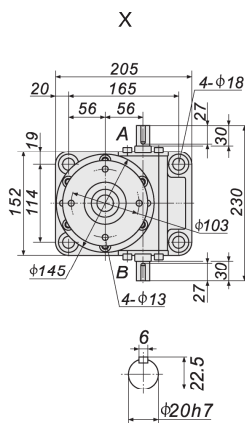
B



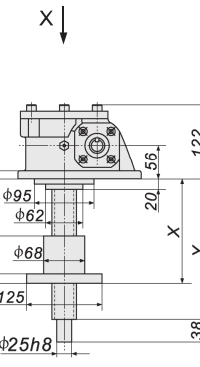
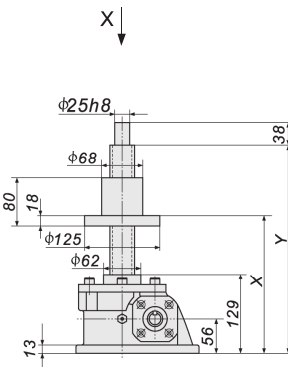
I



M



JWM050UR



JWM050DR

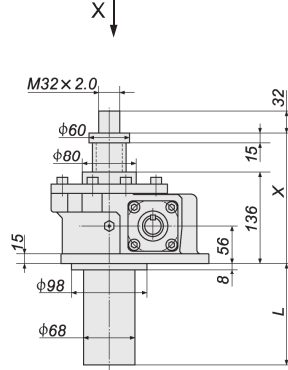
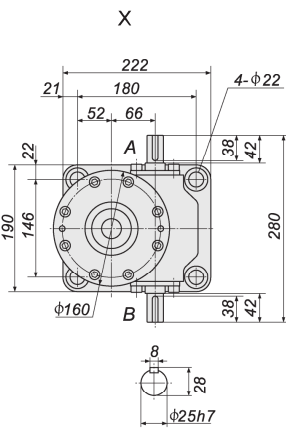
(mm) Journey	U R			
	X		Y	m (kg)
	MIN	MAX		
100	157	257	330	22
200	157	357	430	22
300	157	457	530	23
400	157	557	630	24
500	157	657	730	25
600	157	757	830	26
800	157	957	1030	27
1000	157	1157	1230	29

(mm) Journey	D R			
	X		Y	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

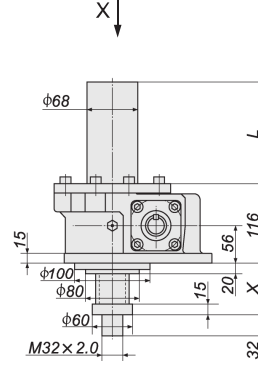
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWM100



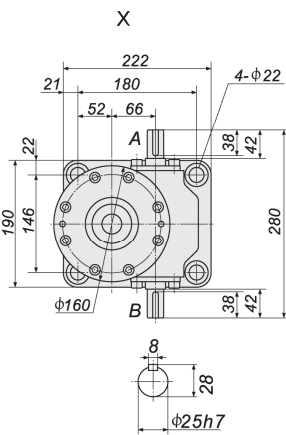
JWM100US



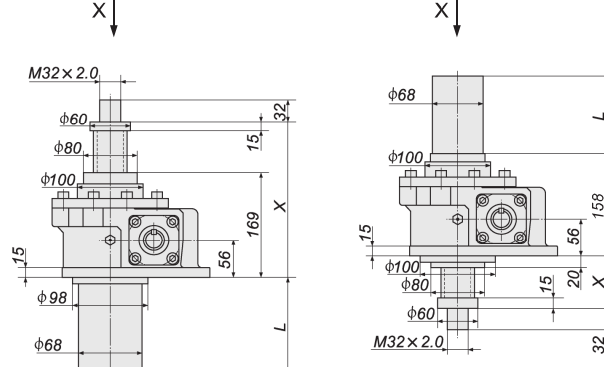
JWM100DS

(mm) Journey	U S					
	X		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

(mm) Journey	D S					
	X		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



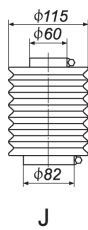
JWM100UM



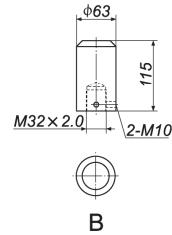
JWM100DM

(mm) Journey	U M					
	X		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

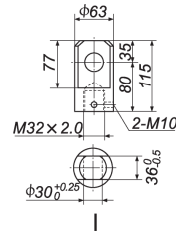
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	30
200	42	242	52	252	252	32
300	42	342	67	367	366	35
400	42	442	67	467	466	37
500	42	542	92	592	591	40
600	42	642	92	692	691	43
800	42	842	107	907	906	48
1000	42	1042	117	1117	1116	53
1200	42	1242	142	1342	1341	58



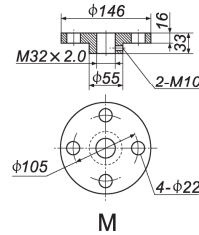
J



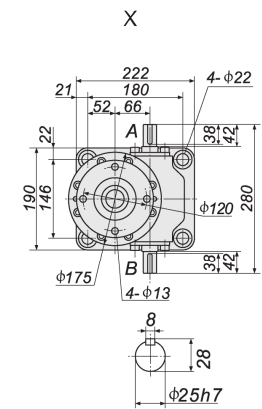
B



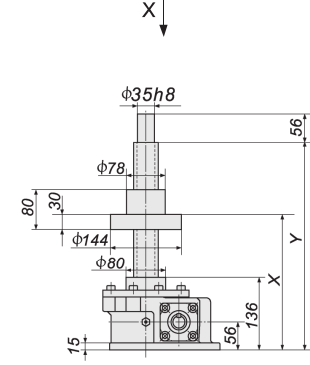
I



M



JWM100UR



JWM100DR

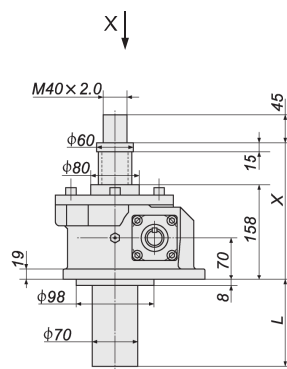
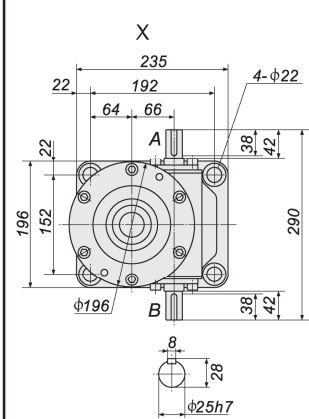
(mm) Journey	U R				
	X		Y	m (kg)	
	MIN	MAX			
100	184	284	344	32	
200	184	384	444	33	
300	184	484	544	34	
400	184	584	644	36	
500	184	684	744	37	
600	184	784	844	38	
800	184	984	1044	41	
1000	184	1184	1244	43	
1200	184	1384	1444	45	

(mm) Journey	D R				
	X		Y	m (kg)	
	MIN	MAX			
100	115	215	225	32	
200	115	315	325	33	
300	115	415	425	34	
400	115	515	525	36	
500	115	615	625	37	
600	115	715	725	38	
800	115	915	925	41	
1000	115	1115	1125	43	
1200	115	1315	1325	45	

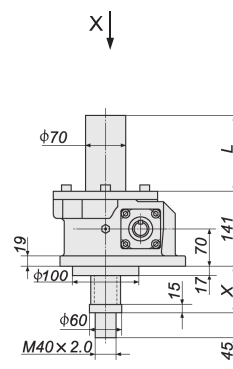
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWM150



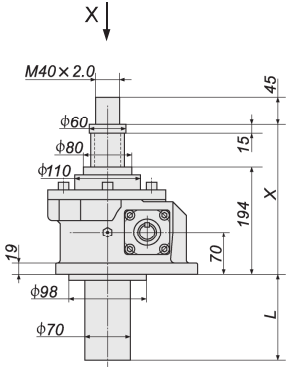
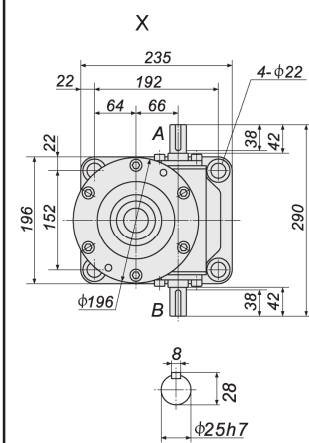
JWM150US



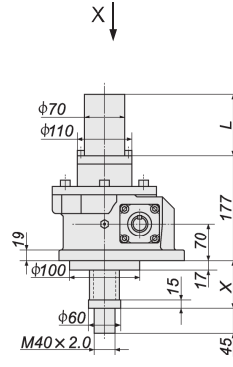
JWM150DS

(mm) Journey	U S					
	X		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

(mm) Journey	D S					
	X		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



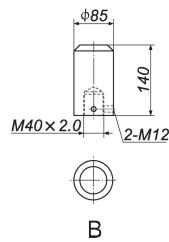
JWM150DM

(mm) Journey	U M					
	X		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

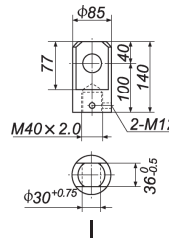
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	37
200	42	242	52	252	252	40
300	42	342	67	367	366	43
400	42	442	67	467	466	46
500	42	542	92	592	591	49
600	42	642	92	692	691	52
800	42	842	107	907	906	58
1000	42	1042	117	1117	1116	64
1200	42	1242	142	1342	1341	69



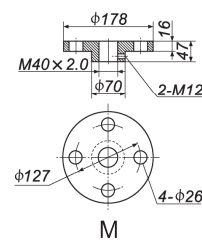
J



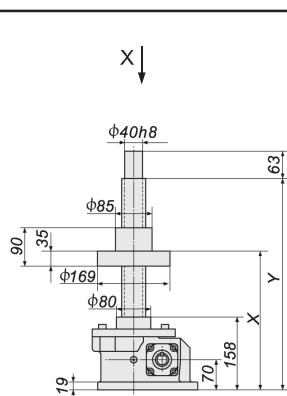
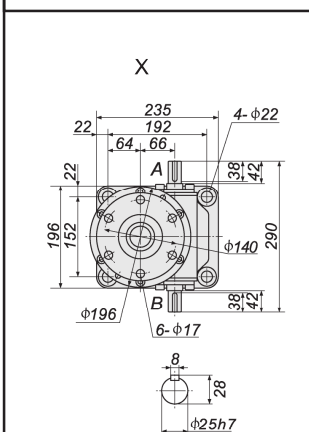
B



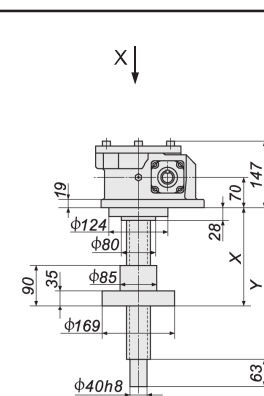
I



M



JWM150UR



JWM150DR

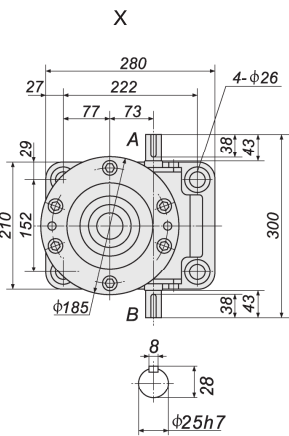
(mm) Journey	U R			
	X		Y	m (kg)
	MIN	MAX		
100	214	314	379	40
200	214	414	479	42
300	214	514	579	43
400	214	614	679	45
500	214	714	779	46
600	214	814	879	48
800	214	1014	1079	51
1000	214	1214	1279	54
1200	214	1414	1479	57

(mm) Journey	D R			
	X		Y	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

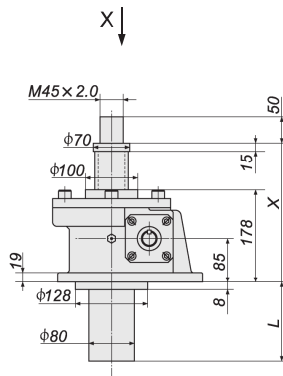
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



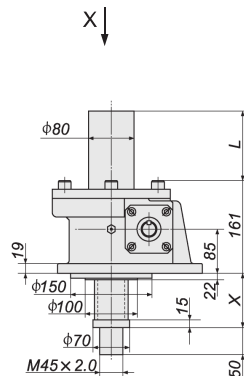
JWM200



JWM200US

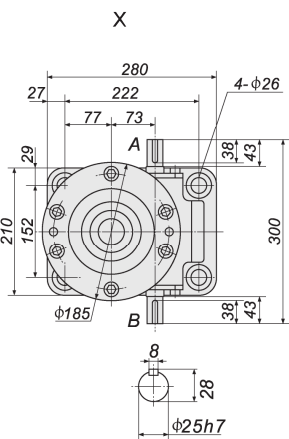


JWM200DS

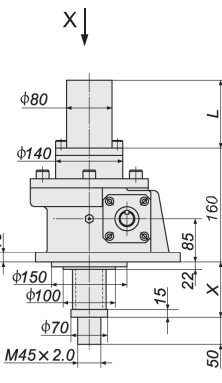
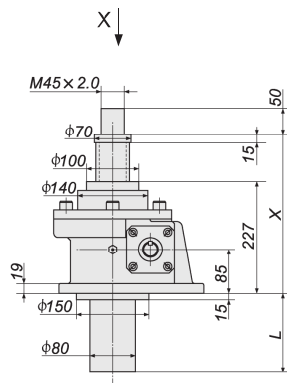


(mm) Journey	U S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	203	303	213	313	151	42
200	203	403	213	413	252	45
300	203	503	228	528	366	49
400	203	603	228	628	466	53
500	203	703	253	753	591	57
600	203	803	253	853	691	60
800	203	1003	268	1068	906	67
1000	203	1203	278	1278	1116	74
1200	203	1403	303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

(mm) Journey	D S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	42
200	42	242	52	252	252	45
300	42	342	67	367	366	49
400	42	442	67	467	466	53
500	42	542	92	592	591	57
600	42	642	92	692	691	60
800	42	842	107	907	906	67
1000	42	1042	117	1117	1116	74
1200	42	1242	142	1342	1341	81



JWM200UM

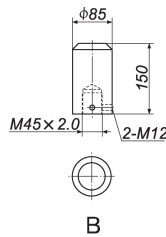


(mm) Journey	U M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	252	352	262	362	151	51
200	252	452	262	462	252	55
300	252	552	277	577	366	58
400	252	652	277	677	466	62
500	252	752	302	802	591	66
600	252	852	302	902	691	69
800	252	1052	317	1117	906	76
1000	252	1252	327	1327	1116	83
1200	252	1452	352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

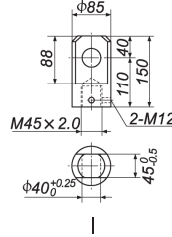
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	51
200	42	242	52	252	252	55
300	42	342	67	367	366	58
400	42	442	67	467	466	62
500	42	542	92	592	591	66
600	42	642	92	692	691	69
800	42	842	107	907	906	76
1000	42	1042	117	1117	1116	83
1200	42	1242	142	1342	1341	90



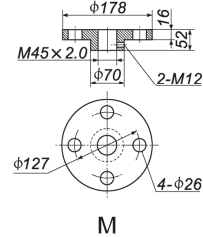
J



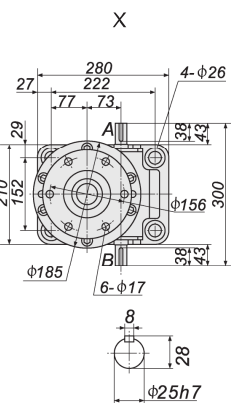
B



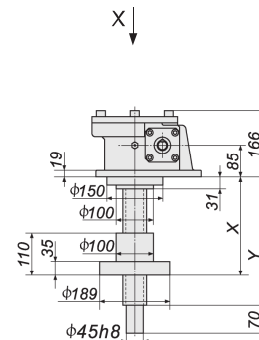
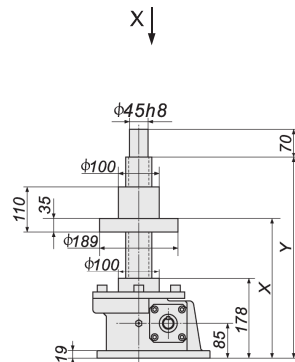
I



M



JWM200UR



JWM200DR

(mm) Journey	U R			
	X		Y	m (kg)
	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

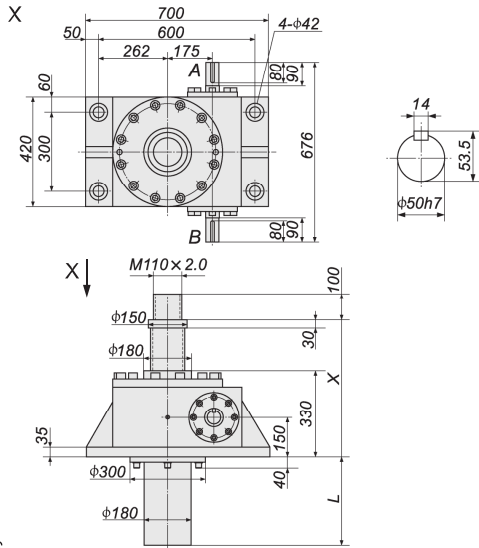
(mm) Journey	D R			
	X		Y	m (kg)
	MIN	MAX		
100	151	251	261	56
200	151	351	361	58
300	151	451	461	60
400	151	551	561	62
500	151	651	661	64
600	151	751	761	66
800	151	951	961	71
1000	151	1151	1161	75
1200	151	1351	1361	79

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

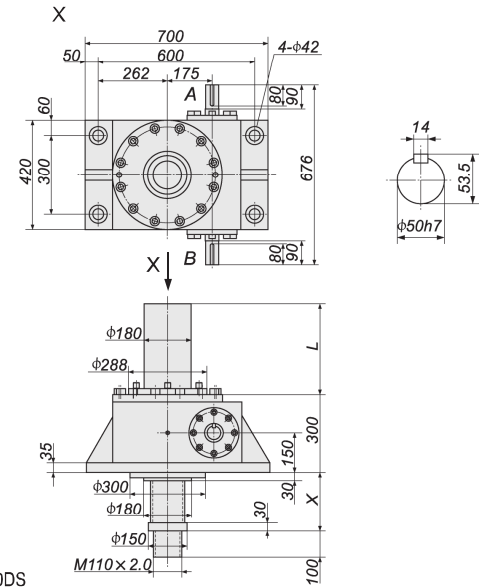


JWM750

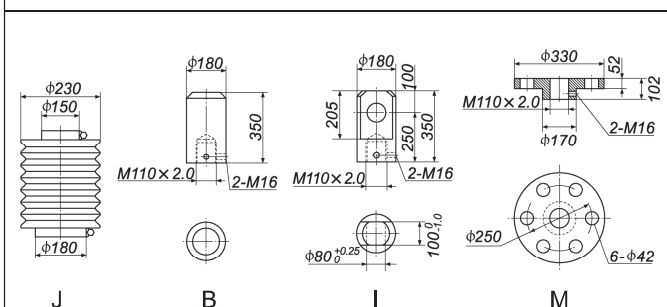
(mm) Journey	U S					D S					m (kg)
	X		X ⁽¹⁾		L	X		X ⁽¹⁾		L	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX		
100	370	470	380	480	165	70	170	80	180	165	370
200	370	570	380	580	265	70	270	80	280	265	384
300	370	670	395	695	385	70	370	95	395	385	401
400	370	770	395	795	485	70	470	95	495	485	415
500	370	870	410	910	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



JWM750DS



J

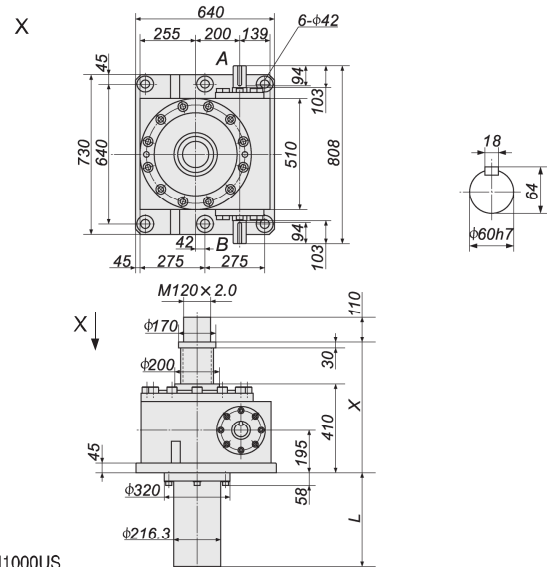
B

I

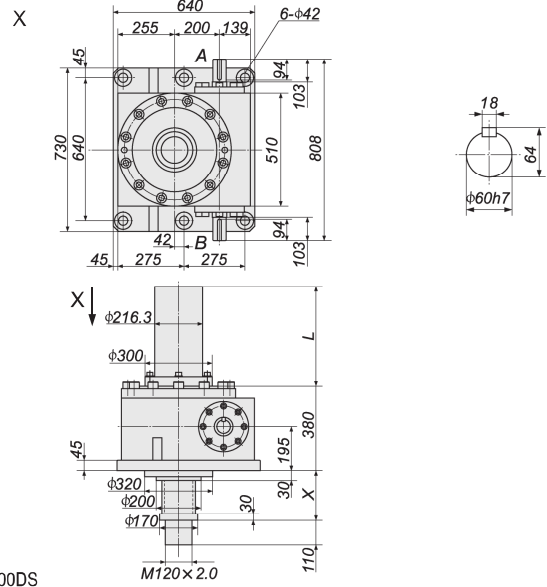
M

JWM1000

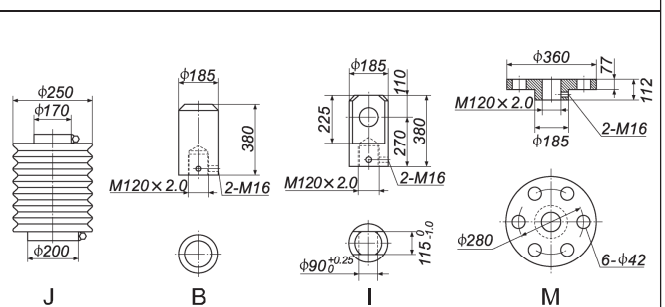
(mm) Journey	U S					D S					m (kg)
	X		X ⁽¹⁾		L	X		X ⁽¹⁾		L	
	MIN	MAX	MIN	MAX		MIN	MAX	MIN	MAX		
100	450	550	460	560	165	70	170	80	180	165	748
200	450	650	460	660	265	70	270	80	280	265	766
300	450	750	475	775	385	70	370	95	395	385	787
400	450	850	475	875	485	70	470	95	495	485	805
500	450	950	485	985	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



JWM1000DS



J

B

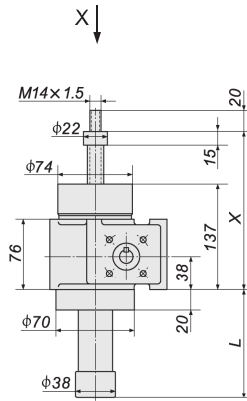
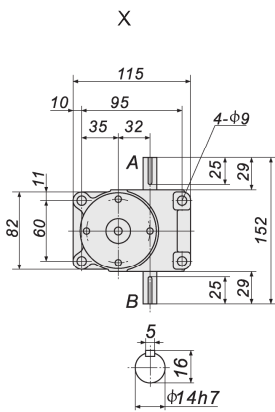
I

M

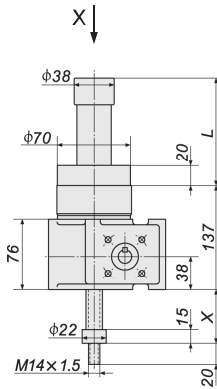
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWB010



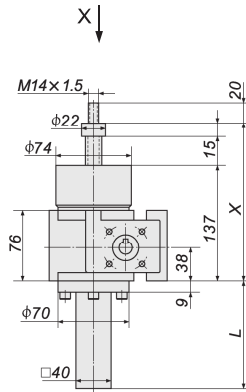
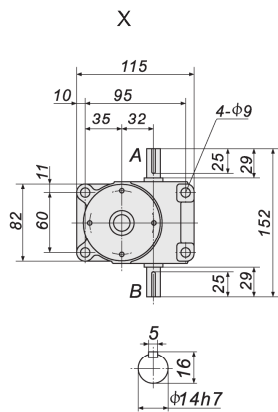
JWB010US



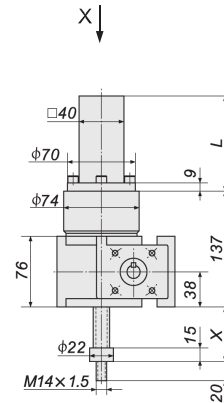
JWB010DS

(mm) Journey	U S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	162	262	212	312	194	6.7
200	162	362	212	412	294	7.0
300	162	462	252	552	434	7.4
400	162	562	252	652	534	7.6
500	162	662	287	787	669	8.0
600	162	762	287	887	769	8.2

(mm) Journey	D S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	25	125	75	175	194	6.7
200	25	225	75	275	294	7.0
300	25	325	115	415	434	7.4
400	25	425	115	515	534	7.6
500	25	525	150	650	669	8.0
600	25	625	150	750	769	8.2



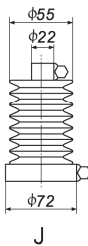
JWB010UM



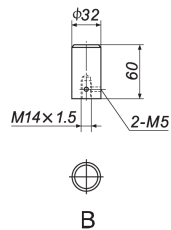
JWB010DM

(mm) Journey	U M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	162	262	212	312	194	7.5
200	162	362	212	412	294	8.2
300	162	462	252	552	434	9.1
400	162	562	252	652	534	9.8
500	162	662	287	787	669	11
600	162	762	287	887	769	12

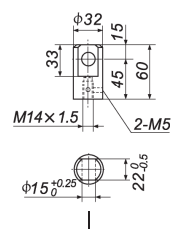
行程 (mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	25	125	75	175	194	7.5
200	25	225	75	275	294	8.2
300	25	325	115	415	434	9.1
400	25	425	115	515	534	9.8
500	25	525	150	650	669	11
600	25	625	150	750	769	12



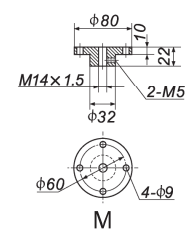
J



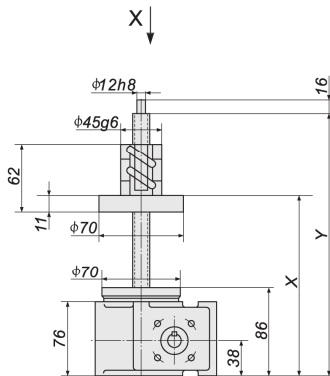
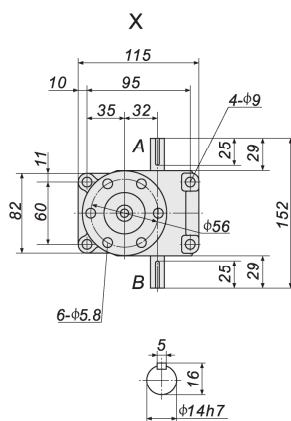
B



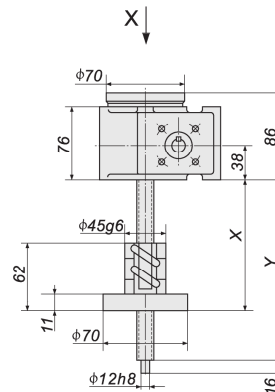
I



M



JWB010UR



JWB010DR

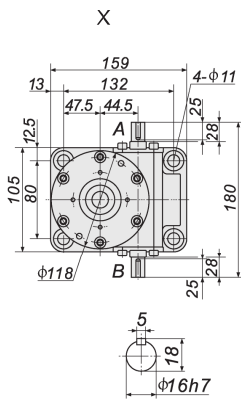
(mm) Journey	U R			
	X		Y	m (kg)
	MIN	MAX		
100	108	208	265	5.9
200	108	308	365	6.1
300	108	408	465	6.4
400	108	508	565	6.6
500	108	608	665	6.8
600	108	708	765	7.0

(mm) Journey	D R			
	X		Y	m (kg)
	MIN	MAX		
100	69	169	179	5.9
200	69	269	279	6.1
300	69	369	379	6.4
400	69	469	479	6.6
500	69	569	579	6.8
600	69	669	679	7.0

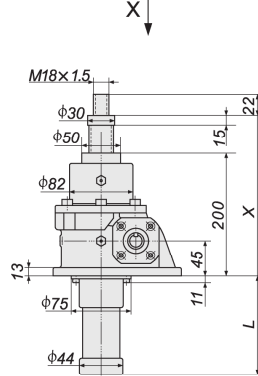
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWB025



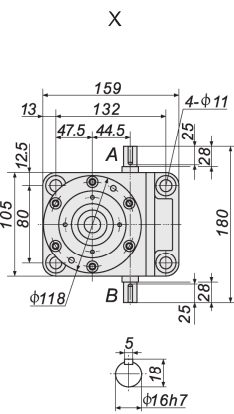
JWB025US



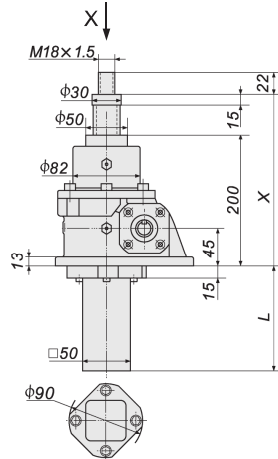
JWB025DS

(mm) Journey	U S				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	225	325	240	340	149
200	225	425	240	440	249
300	225	525	260	560	369
400	225	625	260	660	469
500	225	725	280	780	589
600	225	825	280	880	689
800	225	1025	300	1100	909

(mm) Journey	D S				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	42	142	57	157	156
200	42	242	57	257	256
300	42	342	77	377	376
400	42	442	77	477	476
500	42	542	97	597	596
600	42	642	97	697	696
800	42	842	117	917	916



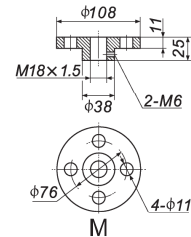
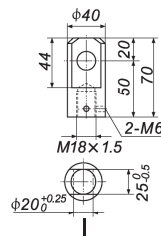
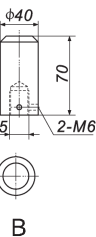
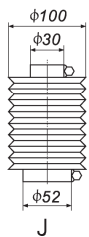
JWB025UM



JWB025DM

(mm) Journey	U M				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	225	325	240	340	175
200	225	425	240	440	275
300	225	525	260	560	395
400	225	625	260	660	495
500	225	725	280	780	615
600	225	825	280	880	715
800	225	1025	300	1100	935

(mm) Journey	D M				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	42	142	57	157	182
200	42	242	57	257	282
300	42	342	77	377	402
400	42	442	77	477	502
500	42	542	97	597	622
600	42	642	97	697	722
800	42	842	117	917	942



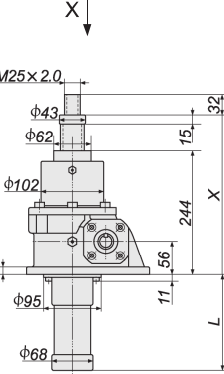
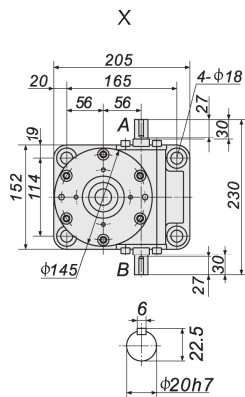
(mm) Journey	U R				
	X		Y		m (kg)
	MIN	MAX	MIN	MAX	
100	133	233	309	9.2	
200	133	333	409	9.5	
300	133	433	509	9.9	
400	133	533	609	11	
500	133	633	709	11	
600	133	733	809	11	
800	133	933	1009	12	

(mm) Journey	D R				
	X		Y		m (kg)
	MIN	MAX	MIN	MAX	
100	108	208	219	9.2	
200	108	308	319	9.5	
300	108	408	419	9.9	
400	108	508	519	11	
500	108	608	619	11	
600	108	708	719	11	
800	108	808	819	12	

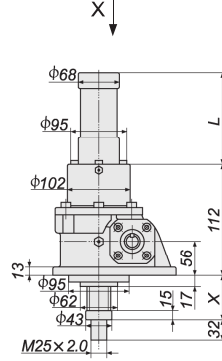
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWB050



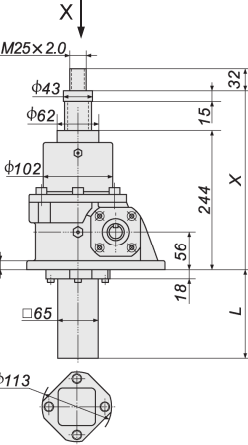
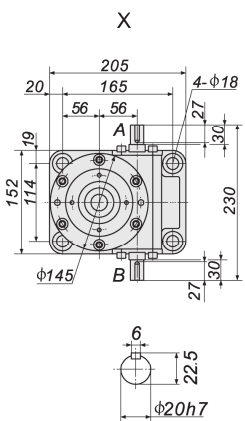
JWB050US



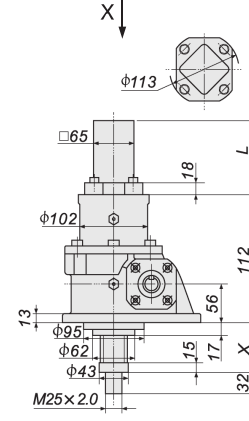
JWB050DS

(mm) Journey	U S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	269	369	284	384	147	23
200	269	469	284	484	247	23
300	269	569	304	604	367	24
400	269	669	304	704	467	25
500	269	769	324	824	587	26
600	269	869	324	924	687	27
800	269	1069	344	1144	907	29
1000	269	1269	364	1364	1127	30

(mm) Journey	D S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	147	23
200	42	242	57	257	247	23
300	42	342	77	377	367	24
400	42	442	77	477	467	25
500	42	542	97	597	587	26
600	42	642	97	697	687	27
800	42	842	117	917	907	29
1000	42	1042	137	1137	1127	30



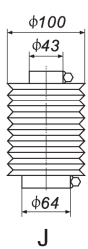
JWB050UM



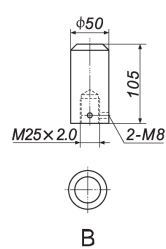
JWB050DM

(mm) Journey	U M					m (kg)
	X		X ⁽¹⁾		L	
	MIN	MAX	MIN	MAX		
100	269	369	284	384	175	25
200	269	469	284	484	275	27
300	269	569	304	604	395	29
400	269	669	304	704	495	31
500	269	769	324	824	615	33
600	269	869	324	924	715	35
800	269	1069	344	1144	935	39
1000	269	1269	364	1364	1155	43

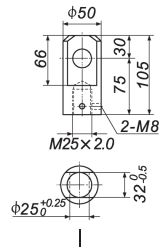
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	57	157	175	25
200	42	242	57	257	275	27
300	42	342	77	377	395	29
400	42	442	77	477	495	31
500	42	542	97	597	615	33
600	42	642	97	697	715	35
800	42	842	117	917	935	39
1000	42	1042	137	1137	1155	43



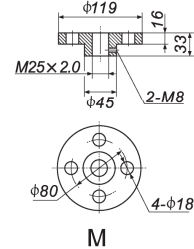
J



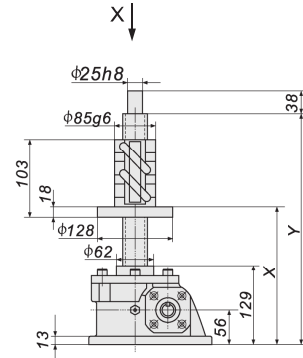
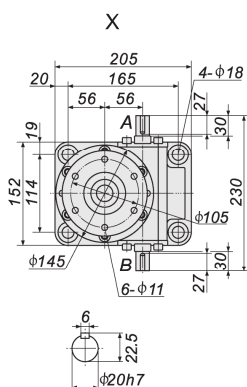
B



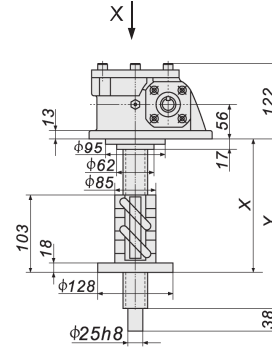
I



M



JWB050UR



JWB050DR

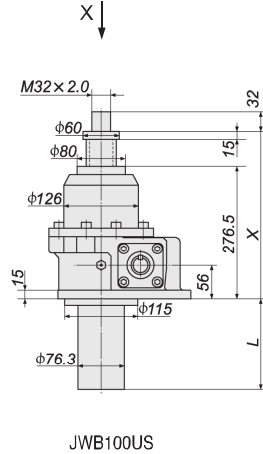
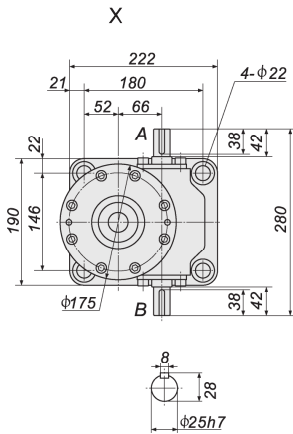
(mm) Journey	U R			
	X		Y	m (kg)
	MIN	MAX		
100	157	257	354	21
200	157	357	454	22
300	157	457	554	22
400	157	557	654	23
500	157	657	754	24
600	157	757	854	24
800	157	957	1054	26
1000	157	1157	1254	27

(mm) Journey	D R			
	X		Y	m (kg)
	MIN	MAX		
100	130	230	242	21
200	130	330	342	22
300	130	430	442	22
400	130	530	542	23
500	130	630	642	24
600	130	730	742	24
800	130	930	942	26
1000	130	1130	1142	27

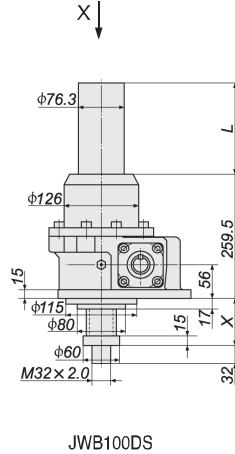
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWB100



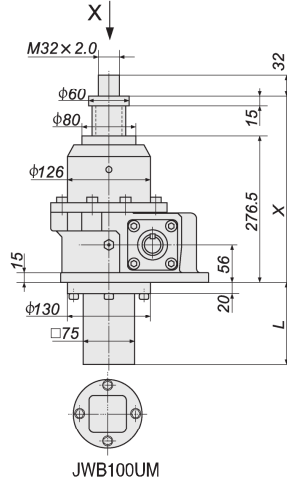
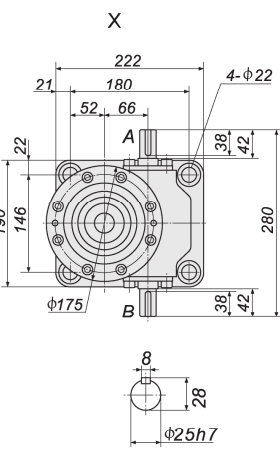
JWB100US



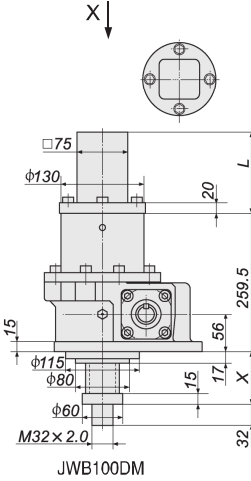
JWB100DS

(mm) Journey	U S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	302	402	312	412	151	36
200	302	502	312	512	252	38
300	302	602	327	627	366	41
400	302	702	327	727	466	43
500	302	802	352	852	591	46
600	302	902	352	952	691	48
800	302	1102	367	1167	906	53
1000	302	1302	377	1377	1116	58
1200	302	1502	402	1602	1341	63

(mm) Journey	D S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	36
200	42	242	52	252	252	38
300	42	342	67	367	366	41
400	42	442	67	467	466	43
500	42	542	92	592	591	46
600	42	642	92	692	691	48
800	42	842	107	907	906	53
1000	42	1042	117	1117	1116	58
1200	42	1242	142	1342	1341	63



JWB100UM



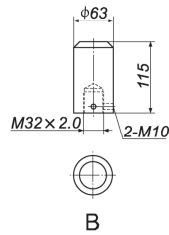
JWB100DM

(mm) Journey	U M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	302	402	312	412	192	39
200	302	502	312	512	292	42
300	302	602	327	627	407	45
400	302	702	327	727	507	48
500	302	802	352	852	632	52
600	302	902	352	952	732	55
800	302	1102	367	1167	947	61
1000	302	1302	377	1377	1157	67
1200	302	1502	402	1602	1382	74

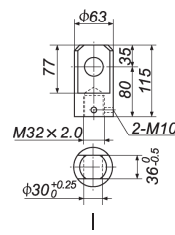
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	192	39
200	42	242	52	252	292	42
300	42	342	67	367	407	45
400	42	442	67	467	507	48
500	42	542	92	592	632	52
600	42	642	92	692	732	55
800	42	842	107	907	947	61
1000	42	1042	117	1117	1157	67
1200	42	1242	142	1342	1382	74



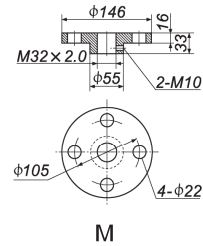
J



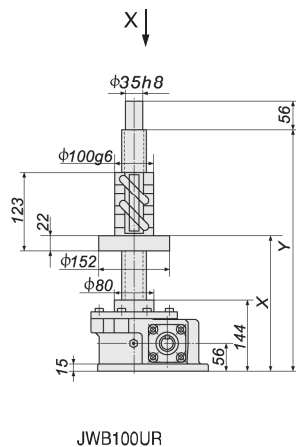
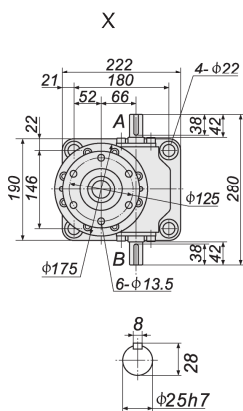
B



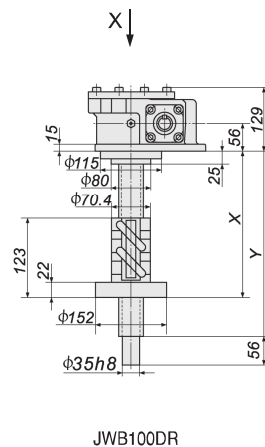
I



M



JWB100UR



JWB100DR

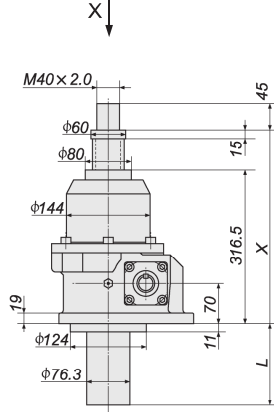
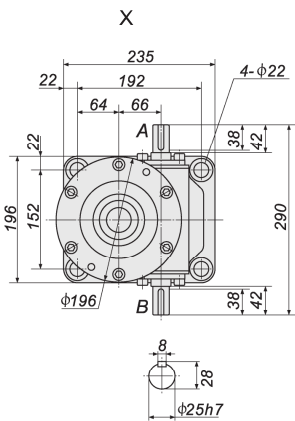
(mm) Journey	U R					
	X		Y		L	m (kg)
	MIN	MAX	MIN	MAX		
100	176	276	387	31		
200	176	376	487	32		
300	176	476	587	33		
400	176	576	687	34		
500	176	676	787	35		
600	176	776	887	36		
800	176	976	1087	39		
1000	176	1176	1287	41		
1200	176	1376	1487	43		

(mm) Journey	D R					
	X		Y		L	m (kg)
	MIN	MAX	MIN	MAX		
100	158	258	268	31		
200	158	358	368	32		
300	158	458	468	33		
400	158	558	568	34		
500	158	658	668	35		
600	158	758	768	36		
800	158	958	968	39		
1000	158	1158	1168	41		
1200	158	1358	1368	43		

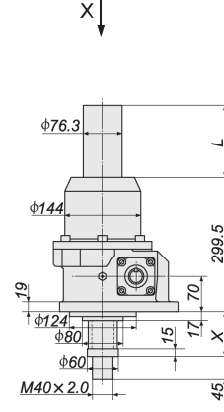
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWB150



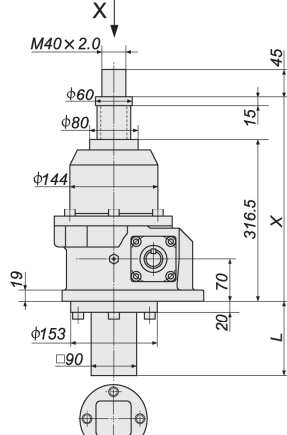
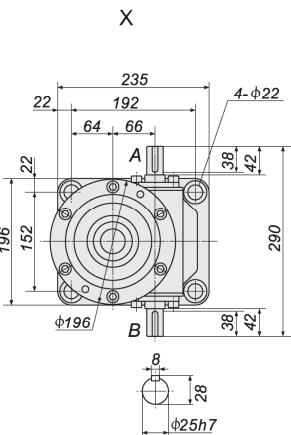
JWB150US



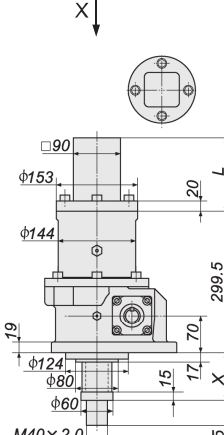
JWB150DS

(mm) Journey	U S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	342	442	352	452	151	46
200	342	542	352	552	252	48
300	342	642	367	667	366	51
400	342	742	367	767	466	54
500	342	842	392	892	591	57
600	342	942	392	992	691	60
800	342	1142	407	1207	906	65
1000	342	1342	417	1417	1116	70
1200	342	1542	442	1642	1341	76

(mm) Journey	D S					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	46
200	42	242	52	252	252	48
300	42	342	67	367	366	51
400	42	442	67	467	466	54
500	42	542	92	592	591	57
600	42	642	92	692	691	60
800	42	842	107	907	906	65
1000	42	1042	117	1117	1116	70
1200	42	1242	142	1342	1341	76



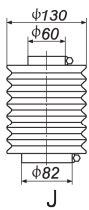
JWB150UM



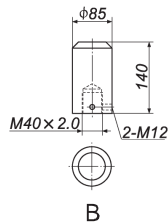
JWB150DM

(mm) Journey	U M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	342	442	352	452	221	52
200	342	542	352	552	321	55
300	342	642	367	667	436	59
400	342	742	367	767	536	62
500	342	842	392	892	661	66
600	342	942	392	992	761	69
800	342	1142	407	1207	976	75
1000	342	1342	417	1417	1186	82
1200	342	1542	442	1642	1411	89

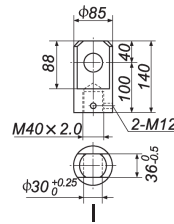
(mm) Journey	D M					
	X		X ⁽¹⁾		L	m (kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	221	52
200	42	242	52	252	321	55
300	42	342	67	367	436	59
400	42	442	67	467	536	62
500	42	542	92	592	661	66
600	42	642	92	692	761	69
800	42	842	107	907	976	75
1000	42	1042	117	1117	1186	82
1200	42	1242	142	1342	1411	89



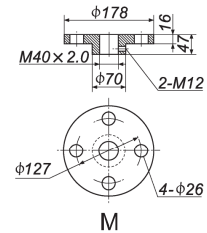
J



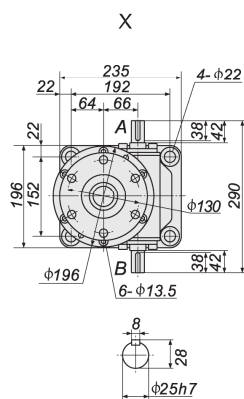
B



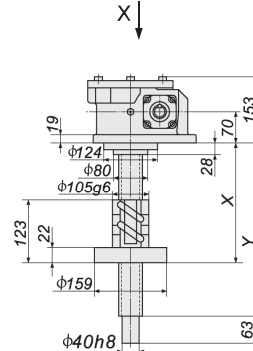
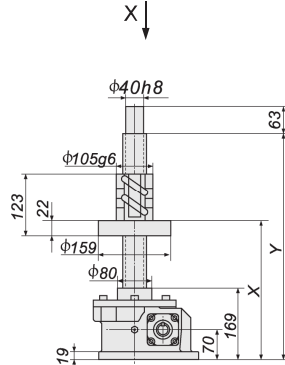
I



M



JWB150UR



JWB150DR

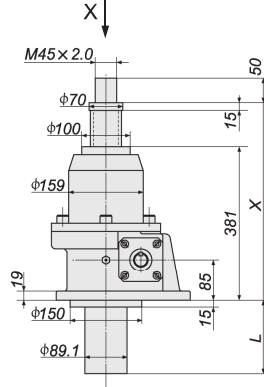
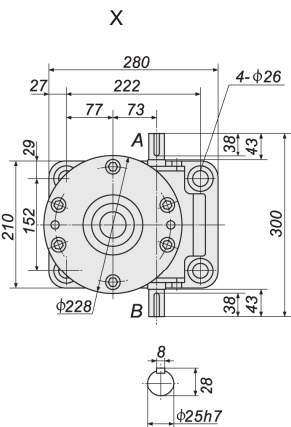
(mm) Journey	U R				m (kg)
	X		Y		
	MIN	MAX			
100	201	301	412	41	
200	201	401	512	42	
300	201	501	612	43	
400	201	601	712	45	
500	201	701	812	46	
600	201	801	912	47	
800	201	1001	1112	50	
1000	201	1201	1312	53	
1200	201	1401	1512	55	

(mm) Journey	D R			
	X		Y	m (kg)
	MIN	MAX		
100	161	261	272	41
200	161	361	372	42
300	161	461	472	43
400	161	561	572	45
500	161	661	672	46
600	161	761	772	47
800	161	961	972	50
1000	161	1161	1172	53
1200	161	1361	1372	55

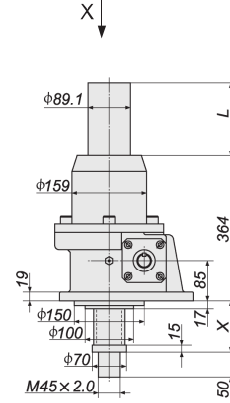
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



JWB200



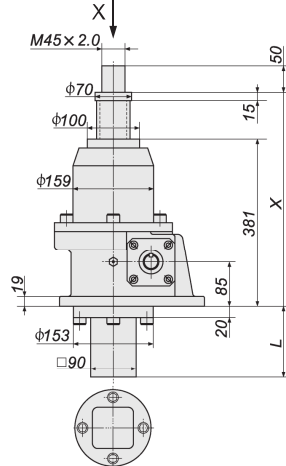
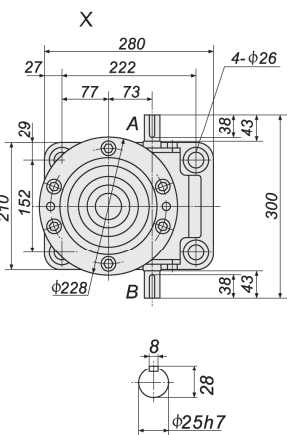
JWB200US



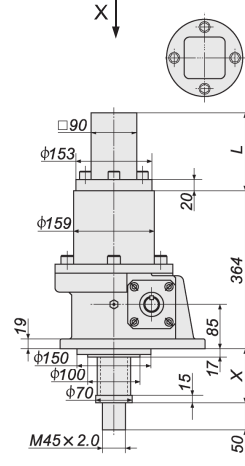
JWB200DS

(mm) Journey	U S				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	406	506	416	516	151 65
200	406	606	416	616	252 68
300	406	706	431	731	366 72
400	406	806	431	831	466 76
500	406	906	456	956	591 80
600	406	1006	456	1056	691 83
800	406	1206	471	1271	906 90
1000	406	1406	481	1481	1116 97
1200	406	1606	506	1706	1357 105

(mm) Journey	D S				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	42	142	52	152	151 65
200	42	242	52	252	252 68
300	42	342	67	367	366 72
400	42	442	67	467	466 76
500	42	542	92	592	591 80
600	42	642	92	692	691 83
800	42	842	107	907	906 90
1000	42	1042	117	1117	1116 97
1200	42	1242	142	1342	1357 105



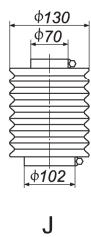
JWB200UM



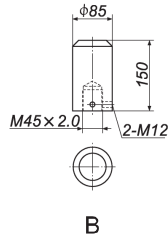
JWB200DM

(mm) Journey	U M				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	406	506	416	516	230 72
200	406	606	416	616	330 76
300	406	706	431	731	445 80
400	406	806	431	831	545 84
500	406	906	456	956	670 89
600	406	1006	456	1056	770 93
800	406	1206	471	1271	985 102
1000	406	1406	481	1481	1195 110
1200	406	1606	506	1706	1420 119

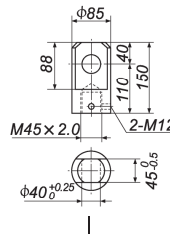
(mm) Journey	D M				
	X		X ⁽¹⁾		L
	MIN	MAX	MIN	MAX	m (kg)
100	42	142	52	152	230 72
200	42	242	52	252	330 76
300	42	342	67	367	445 80
400	42	442	67	467	545 84
500	42	542	92	592	670 89
600	42	642	92	692	770 93
800	42	842	107	907	985 102
1000	42	1042	117	1117	1195 110
1200	42	1242	142	1342	1420 119



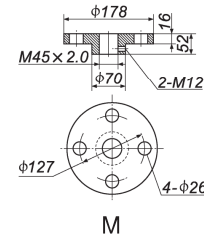
J



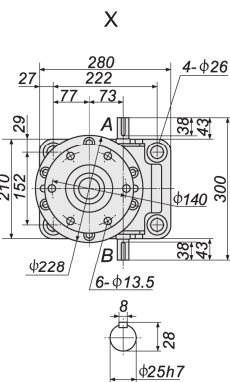
B



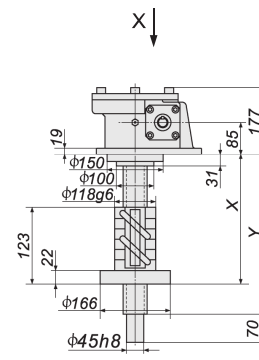
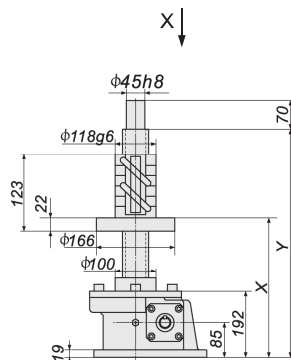
I



M



JWB200UR



JWB200DR

(mm) Journey	U R				
	X		Y		m (kg)
	MIN	MAX	MIN	MAX	
100	224	324	435	56	
200	224	424	535	58	
300	224	524	635	60	
400	224	624	735	62	
500	224	724	835	65	
600	224	824	935	67	
800	224	1024	1135	71	
1000	224	1224	1335	76	
1200	224	1424	1535	80	

(mm) Journey	D R				
	X		Y		m (kg)
	MIN	MAX	MIN	MAX	
100	164	264	274	56	
200	164	364	374	58	
300	164	464	474	60	
400	164	564	574	62	
500	164	664	674	65	
600	164	764	774	67	
800	164	964	974	71	
1000	164	1164	1174	76	
1200	164	1364	1374	80	

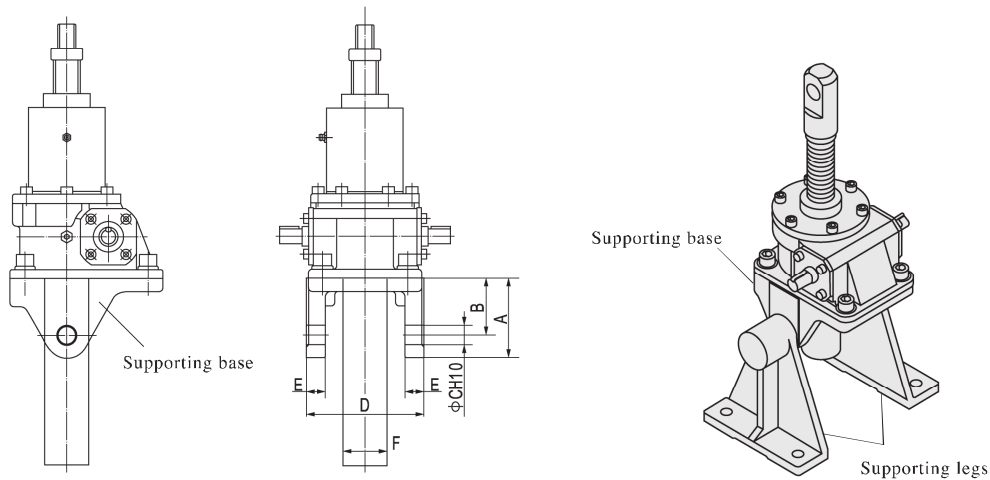
Note: "X⁽¹⁾" is the dimension of jack with dust hood.



Accessory confirmation:

Support (Mode C mounting):

Support-mounted mode widely apply to tilting equipment.

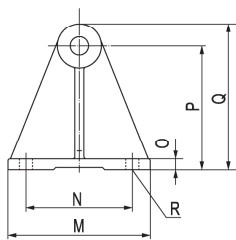


Type	A	B	C	D	E	F
010	75	60	15	86	15	35
025	100	75	20	115	20	45
050	105	75	25	158	25	58
100	145	100	40	201	30	76.3
150	155	105	50	224	44	76.3
200	173	110	63	244	50	89.1

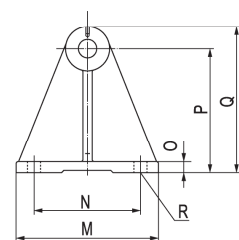
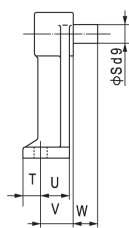
JW

Supporting legs:

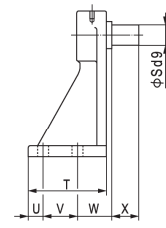
Matching supporting base and legs realizes multi-angles lifting and lowering.



JW010-JW050



JW100-JW200

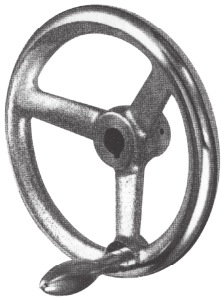
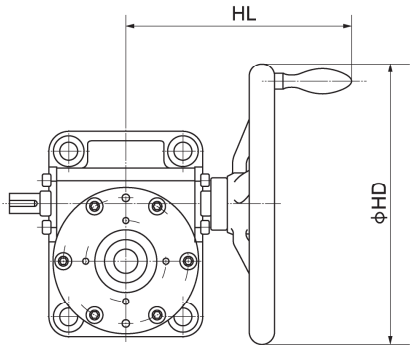


Type	M	N	O	P	Q	R	S	T	U	V	W	X
010	180	130	15	150	178	2- $\phi 18$	15	25	40	45	17	-
025	180	130	15	150	178	2- $\phi 18$	20	25	40	45	30	-
050	200	150	15	170	200	2- $\phi 18$	25	25	40	45	35	-
100	280	220	22	240	290	4- $\phi 22$	40	159	30	70	70	55
150	360	280	27	300	360	4- $\phi 33$	50	195	40	85	85	70
200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



Hand wheel:

Hand wheel only apply to JWM under light shock or vibration condition but not for JWB.
 $M_{handwheel} = M_{required} / T_{handwheel}$

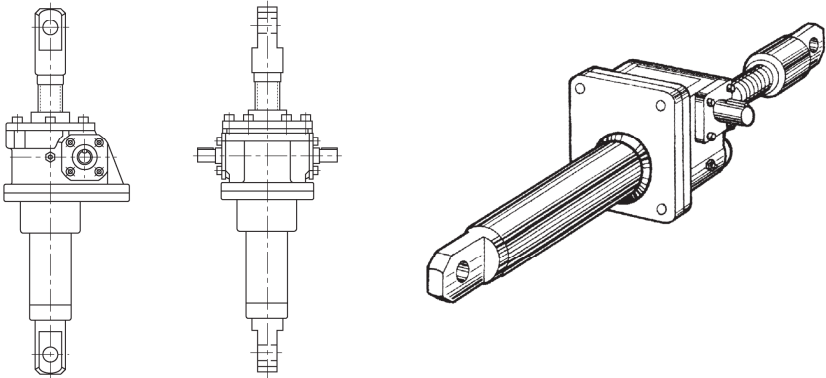


Dimension sheet: (mm)

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.

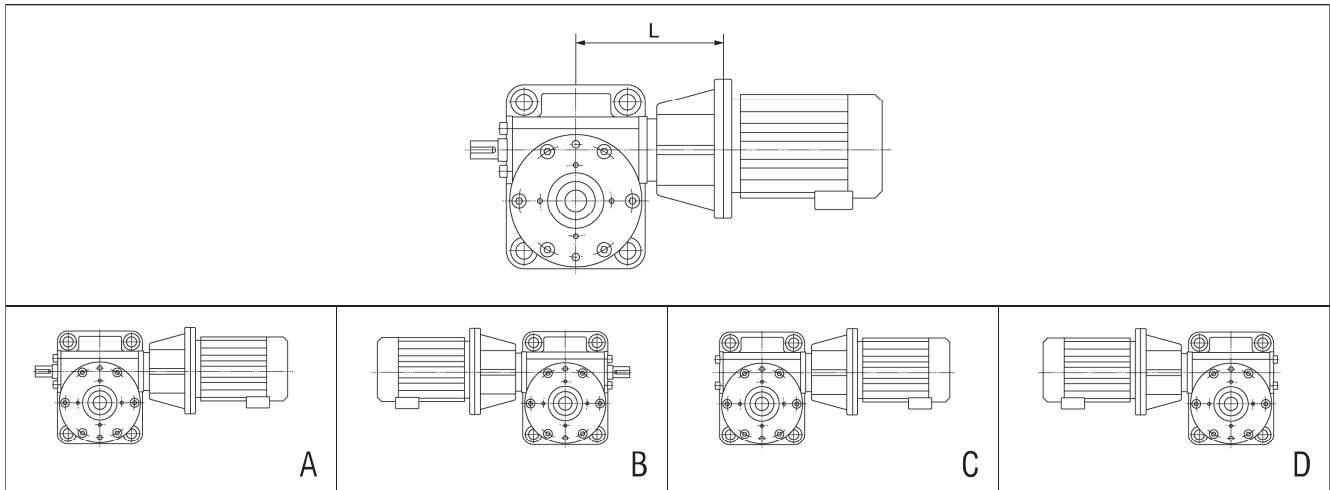
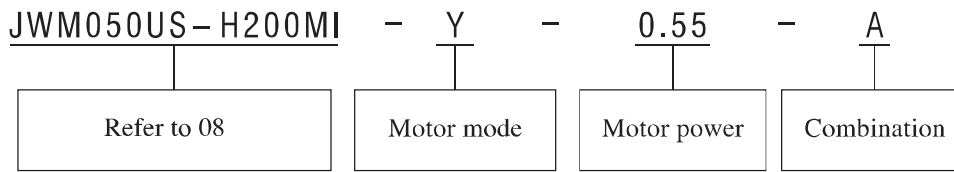




Combination of JW series:

Direct-connected-motor:

Illustration of types:



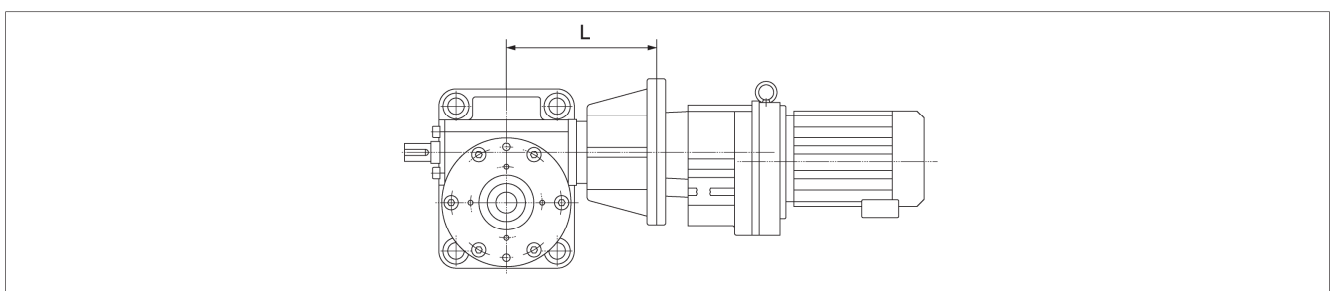
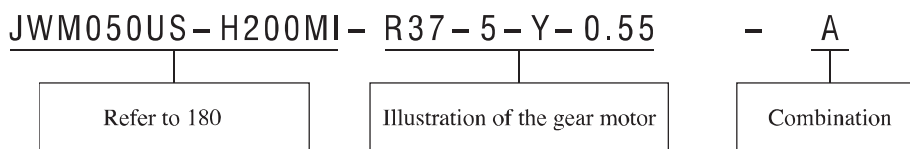
Type	JWM010				JWM025						JWM050					
Motor Power (kW)	0.12	0.18	0.25 *	0.37 *	0.12	0.18	0.25	0.37	0.55 *	0.75 *	0.25	0.37	0.55	0.75	1.1 *	1.5 *
L (mm)	136				142						170					

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:

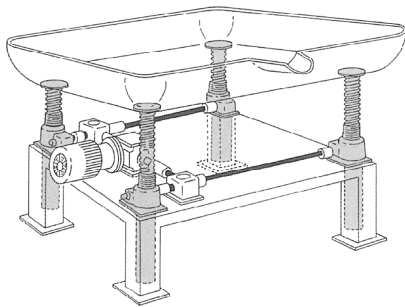
Illustration of types:



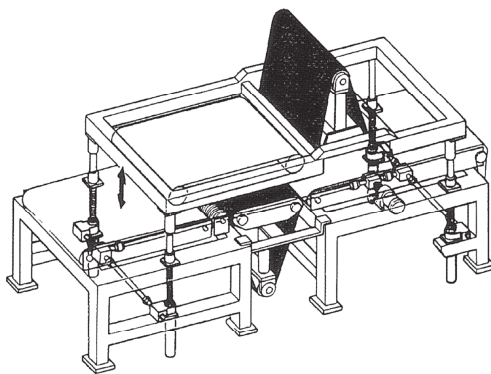
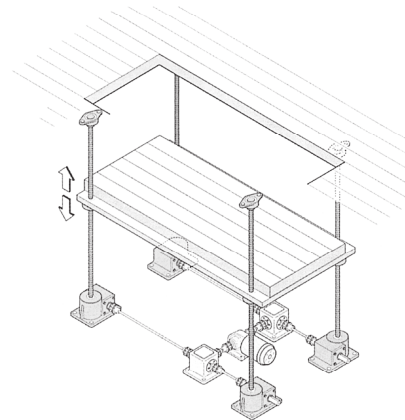
Note: If gear motor is over weight, consult us please.



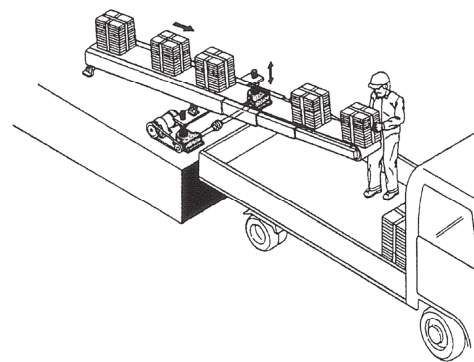
Application example:



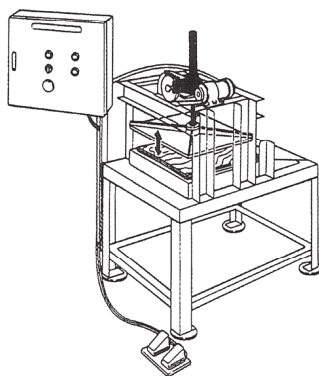
Ascending and descending of flat slab



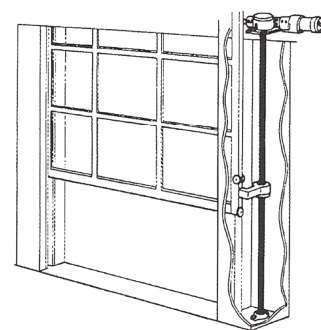
Adjust operation height of surface machining tool



Adjust inclination pitch of conveyer apron



Operation height of straightening machine



Automatic switch on large windows (doors)