



SWL、JW worm screw jack

SWL、JW蜗轮丝杆升降机

性能特点 FUTURE

有限元优化铸造箱体, 提高30%的运行稳定性, 有效降低整机噪音。

高精度蜗轮滚刀加工蜗轮, 优化接触区, 噪音更低, 寿命更长。

优良的材质及热处理工艺提高产品可靠性和寿命。

The FEA design of the casting housing, which improves the running stability by 30% and effectively reduces the noise of the whole machine.

High precision worm hob is used to process worm gear, which optimizes contact area, ensures lower noise and longer lifespan.

Excellent material and heat treatment process improve products reliability and lifespan.



一、概述 Profile

SWL 系列蜗轮丝杆升降机广泛应用于机械、冶金、建筑、水利设备等行业，具有起升、下降及借助辅件推进、翻转及各种高度位置调整等诸多功能。

SWL 蜗轮丝杆升降机是一种基础起重部件，具有结构紧凑、体积小、重量轻、动力源广泛、无噪音、安装方便、使用灵活、功能多、配套形式多、可靠性高、使用寿命长等许多优点。可以单台或组合使用，能按一定程序准确地控制调整提升或推进的高度，可以用电动机或其他动力直接带动，也可以手动。它有不同的结构型式和装配型式，且提升高度可按用户的要求定制。

SWL series worm wheel screw elevator is widely applied in industries such as machinery, metallurgy, construction, and hydraulic equipment, and has many functions such as lifting and pushing and turning with the help of accessories or adjusting height and position. This series worm screw elevator is one model of basic hoisting parts and has numerous features of compact structure, small volume, light weight, wide drive sources, low noise, high reliability, and long lifespan. In addition, they are easy to be mounted, flexible in use and enjoy multiple functions. This series, driven by motor or other power or manually, can be used both single and combined with others to accurately control the adjustment of height of lifting or pushing by certain programs. For there are many structures and mounting positions, the lifting height can be adjusted to the customers' requirements.

二、型式、规格及表示方法

1. 结构形式

1 型——丝杆作轴向移动

2 型——丝杆作旋转运动、螺母作轴向移动

2. 装配型式

A 型——丝杆（或螺母）向上移动

B 型——丝杆（或螺母）向下移动

3. 丝杆头部型式

1 型结构型式的丝杆头部分为 I 型（圆柱型）、II 型（法兰型）、III 型（螺纹型）、IV 型（扁头型）四种型式；

2 型结构型式的丝杆头部分为 I 型（圆柱型）、III 型（螺纹型）二种型式。

4. 传动比

普通速比（P）、慢速比（M）

5. 提升承载能力

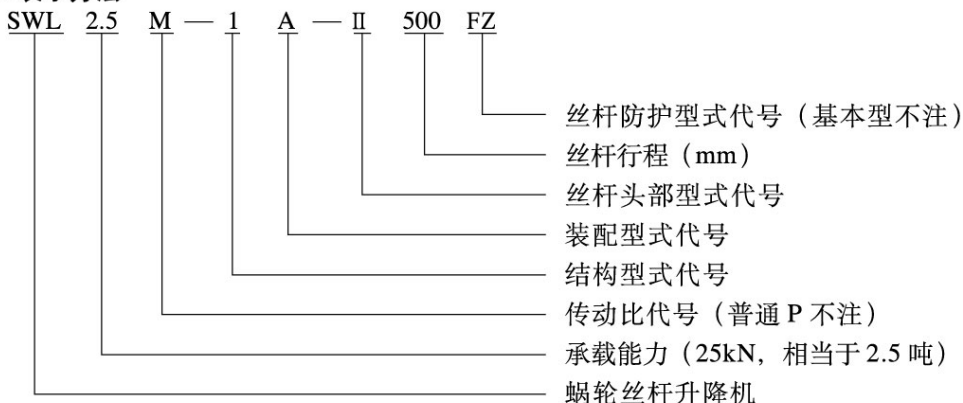
2.5, 5, 10, 15, 20, 25, 35 (× 10kN) 七种

6. 丝杆的防护

1 型结构有基本型、防旋转型（F）和带防护罩型（Z）；

2 型结构有基本型和带防护罩型（Z）。

7. 表示方法

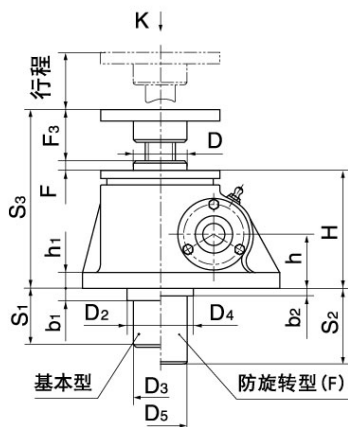




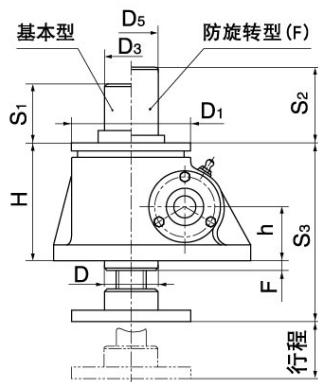
三、外形尺寸

1 型结构型式

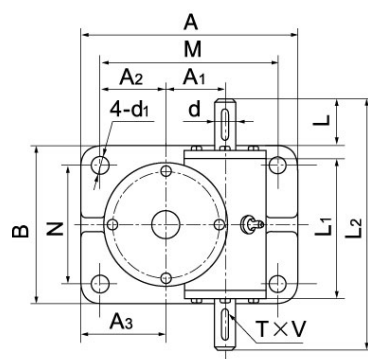
装配型式 A



装配型式 B



K向



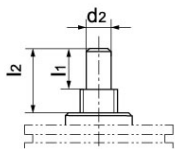
型号	S ₁	S ₂	S ₃	A	B	M	N	H	h	h ₁	d(k6)	d ₁	键GB1096	L	L ₁	L ₂	D	D ₁	D ₂	D ₃	D ₄	D ₅	A ₁	A ₂	A ₃	b ₁	b ₂	F
SWL2.5	行程+20	行程+110	150.5	165	120	135	90	97	45	13	16	14	5×5×32	32	110.5	190	48	98	68	45	86	62	45.2	50	65	10	15	8.5
SWL5		行程+110	193	212	155	168	114	130	61.5	15	20	17	6×6×45	30	132	228	65	122	90	62	90	62	56.2	58	80	10	10	12
SWL10		行程+150	230	235	200	190	155	157	70	16	25	21	8×7×45	42	172	280	116	160	116	80	116	80	66.8	63.5	86	10	25	16
SWL15		行程+190	262	295	215	240	160	197	87	20	28	25	8×7×45	51	213.5	322	125	200	125	80	125	□78	72	95	122.5	10	15	15
SWL20		行程+205	317	350	260	280	190	226	102	25	32	35	10×8×50	51	221.5	325	165	240	164	110	175	□110	97	95	132.5	10	20	15
SWL25		行程+250	350	430	280	360	210	240	115	30	38	35	10×8×70	75	265	430	150	260	185	123	185	□120	120	135	170	15	20	15
SWL35																												

型号	S ₁ =S ₂		S ₃	A	B	M	N	H	h	h ₁	d(k6)	d ₁	键GB1096	L	L ₁	L ₂	D	D ₁	D ₂ =D ₃ =D ₄ =D ₅			A ₁	A ₂		A ₃	F	
SWL2.5T	行程+20		150.5	165	120	135	90	97	45	13	16	14	5×5×32	32	110.5	190	48	98	45			45.2	50		65	8.5	
SWL5T			193	212	155	168	114	130	61.5	15	20	17	6×6×45	30	132	228	65	122	65			56.2	58		80	12	

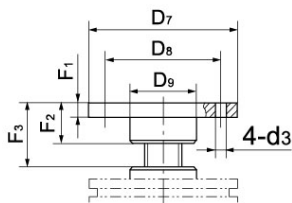
SWL

丝杆头部型式

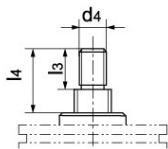
I 型



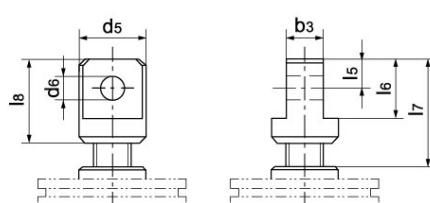
II 型



III型



IV型

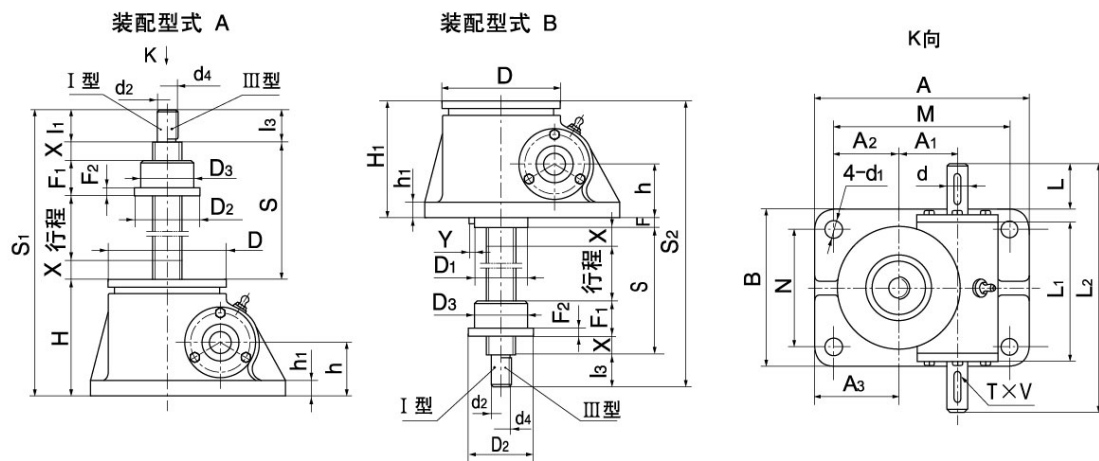


型 号	丝杆头部型式																			
	I			II							III			IV						
	d ₁ (k6)	i ₁	i ₂	D ₇	D ₈	D ₉	d ₃	F ₁	F ₂	F ₃ *	d ₄	i ₃	i ₄	d ₅	d ₆ (H8)	b ₃	i ₅	i ₆	i ₇ *	i ₈
SWL2.5	20	30	45	98	75	40	14	12	30	45	M22 × 1.5-g	30	45	50	25	30	25	50	85	70
SWL5	25	40	51	122	85	50	17	18	40	51	M30 × 2-6g	39	51	65	35	42	37.5	75	117	105
SWL10	40	50	73.5	150	105	65	21	20	50	73.5	M42 × 2-6g	50	73.5	90	50	60	50	100	153.5	130
SWL15																				
SWL20	50	60	80	185	140	90	26	20	60	80	M48 × 2-6g	48	80	110	60	75	60	120	170	150
SWL25	70	63	92	205	155	100	27	25	63	92	M70 × 3-6g	63	92	130	70	90	70	140	204	175
SWL35	80	80	100	260	200	130	33	30	80	100	M80 × 3-6g	80	100	150	80	105	80	160	240	220

*注：以上表格内S₁、F₁、L₁数值为不带防尘罩时尺寸，如需防尘罩时，尺寸请参考JWM系列（详见199页至209页）。



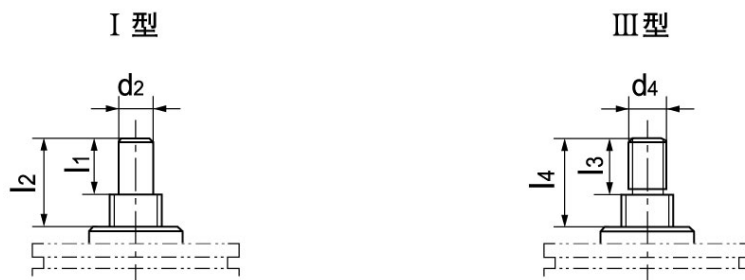
2 型结构型式



型号	S	S ₁	S ₂	A	B	M	N	H	H ₁	h	h ₁	d(k6)	d ₁	键GB1096	L	L ₁	L ₂	D	D ₁	A ₁	A ₂	A ₃	F	安全裕度 X	Y
SWL2.5	行程 + 85	行程 + 215	行程 + 230	165	120	135	90	97	97	45	13	16	14	5×5×32	32	110.5	190	98	68	45.2	50	65	8.5	20	3
SWL5	行程 + 100	行程 + 270	行程 + 300	212	155	168	114	131	131	61.5	15	20	17	6×6×32	30	132	228	122	90	56.2	58	80	12	20	3
SWL10 SWL15	行程 + 125	行程 + 335	行程 + 359	235	200	190	155	160	150	70	16	25	21	8×7×45	42	172	280	160	116	66.8	63.5	86	16	16	1
SWL20	行程 + 150	行程 + 404	行程 + 430	295	215	240	160	197	181	87	20	28	28	8×7×45	51	213.5	322	206	125	72	95	122.5	15	25	3
SWL25	行程 + 170	行程 + 476	行程 + 513	350	260	280	190	226	211	102	25	32	35	10×8×50	51	221	355	240	164	97	95	130	15	25	3
SWL35	行程 + 205	行程 + 535	行程 + 580	430	280	360	210	250	250	115	30	38	35	10×8×70	75	265	430	260	185	120	135	170	15	25	4

SWL

丝杆头部型式及螺母尺寸



型 号	活动螺母尺寸				丝杆头部型式			
	D ₂	D ₃ (h9)	F ₁	F ₂	I d ₂ (k6)	I l ₁	III d ₄	III l ₃
SWL2.5	80	50	45	15	20	30	M22 × 1.5-6g	30
SWL5	87	70	60	18	25	40	M30 × 2-6g	39
SWL10 SWL15	110	90	75	25	40	50	M42 × 2-6g	50
SWL20	120	90	100	30	50	60	M48 × 2-6g	60
SWL25	155	130	120	35	70	63	M70 × 3-6g	63
SWL35	190	150	145	35	80	80	M80 × 3-6g	80



四、升降机的主要性能参数表

型 号		SWL2.5	SWL5	SWL10	SWL15	SWL20	SWL25	SWL35
最大起升力（kN）		25	50	100	150	200	250	350
丝杆螺纹尺寸		Tr30 × 6	Tr40 × 7	Tr58 × 12		Tr65 × 12	Tr90 × 16	Tr100 × 20
最大拉力（kN）		25	50	99		166	250	350
蜗轮蜗杆传动比	P	1/6	1/8	3/23		1/8	3/32	3/32
	M	1/24	1/24	1/24		1/24	1/32	1/32
蜗杆每转行程（mm）	P	1.0	0.875	1.565		1.56	1.5	1.875
	M	0.250	0.292	0.5		0.5	0.5	0.625
拉力负荷时丝杆的最大伸长（mm）		1500	2000	2500		3000	3500	4000
最大压力负荷时的	丝杆头部无导向	250	385	500	400	490	850	820
最大提升高度（mm）	丝杆头部导向	400	770	1000	800	980	1700	1640
满载时蜗杆扭矩（N·m）	P	18	39.5	119	179	240	366	464
	M	8.86	19.8	60	90	122	217	253
效率（%）	P	22	23	20.5		19.5	16	18
	M	11	11.5	13		12.8	9	11
功率（kw）		P=T × n/9550 { T:扭矩（N·m）； n:转速（r/min） }						
不加行程的重量（kg）		7.3	16.2	25		36	70.5	87
丝杆每 100mm 的重量（kg）		0.45	0.82	1.67		2.15	4.15	5.20
润 滑 剂		合成钙钠基润滑脂 ZGN-1 或 ZGN-2（-20℃ ~ +100℃）						
润滑脂量（kg）		0.1	0.3	0.5		0.75	1.1	1.9

五、提升力和提升速度表

型 号	提升力 (kN)	提升速度 m/min (普通)	蜗杆转速 r/min	提升速度 m/min (慢速)	蜗杆转速 r/min	型 号	提升力 (kN)	提升速度 r/min (普通)	蜗杆转速 r/min	提升速度 r/min (慢速)	蜗杆转速 r/min
SWL2.5	25			0.0125	50	SWL20	200	0.15	100	0.10	200
	20			0.15	600		160	0.15	100	0.15	300
	15			0.188	750		120	0.30	200	0.15	300
	10			0.25	1000		100	0.30	200	0.25	500
	5			0.45	1800		75	0.45	300	0.375	750
SWL5	50	0.044	50	0.0146	50	SWL25	50	0.75	500	0.50	1000
	40	0.264	300	0.175	600		25	1.50	1000	0.90	1800
	30	0.264	300	0.219	750		250	0.075	50	0.025	50
	20	0.526	600	0.292	1000		200	0.15	100	0.10	200
	10	0.876	1000	0.525	1800		160	0.15	100	0.15	300
SWL10	5	1.575	1800	0.525	1800	SWL35	130	0.30	200	0.15	300
	100	0.288	200	0.15	300		100	0.45	300	0.25	500
	75	0.432	300	0.25	500		75	0.45	300	0.30	600
	50	0.432	300	0.375	750		50	0.90	600	0.50	1000
	35	0.864	600	0.90	1800		350	0.094	50	0.0313	50
SWL15	20	1.44	1000	0.90	1800	SWL35	300	0.104	100	0.125	200
	10	2.592	1800	0.90	1800		250	0.208	100	0.188	300
	150	0.072	50	0.025	50		200	0.416	200	0.188	300
	100	0.288	200	0.15	300		150	0.624	300	0.313	500
	80	0.288	200	0.25	500		100	0.624	300	0.47	750
SWL15	60	0.432	300	0.30	600	SWL35	50	1.248	600	0.626	1000
	40	0.720	500	0.50	1000						
	20	1.44	1000	0.90	1800						
	10	2.592	1800	0.90	1800						

注：表中参数是在环境温度 20℃，工作持续率每小时 20% 或每分钟 40% 情况下得出的；
当转速超过表中数值时，提升元件会因过热而出现早期磨损，使用时应严加注意。



六、丝杆长度与极限负荷的关系

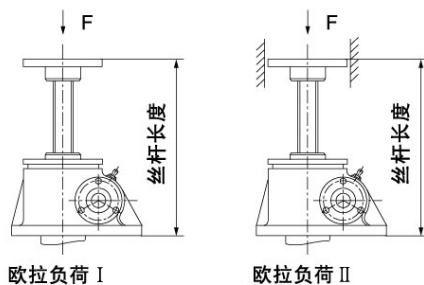


图 1

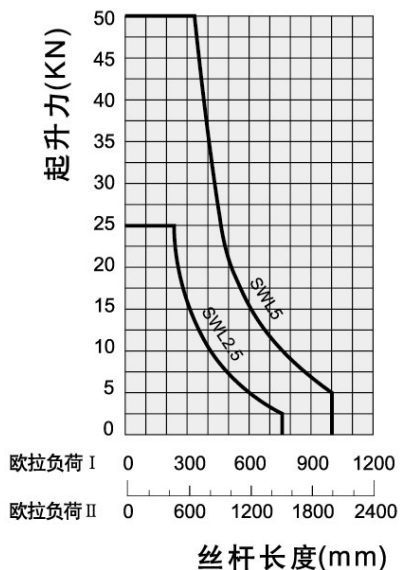


图 2

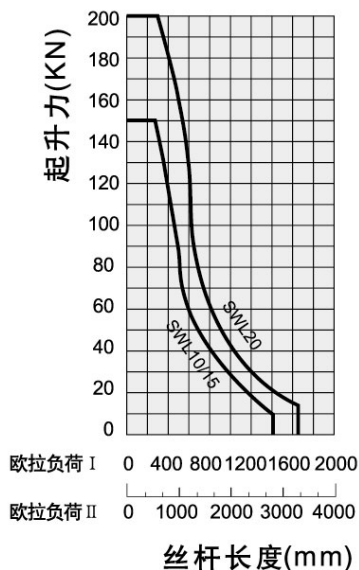


图 3

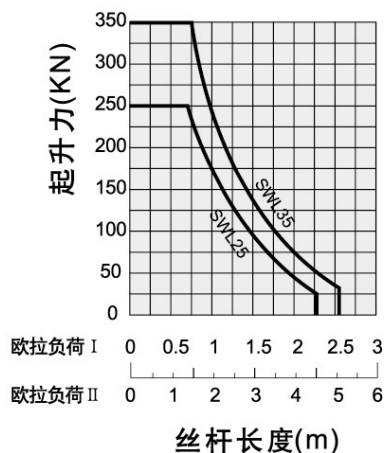


图 4

七、升降机的选型说明：

根据丝杆行程和提升负荷查图 1 ~ 图 4，找出所需升降机的型号，再查提升力和提升速度表，校核提升速度是否满足要求。

例：已知提升负荷为 $F=20\text{kN}$ ，丝杆行程 $=400\text{mm}$ ，提升速度 $V=0.65\text{m/min}$ ，试求所需的升降机。

根据 $F=20\text{kN}$ ，丝杆行程 $=400\text{mm}$ 查图 2，选择 SWL5 升降机。再查提升力和提升速度表核对 SWL5 升降机在 20kN 负荷下只允许 0.526m/min 的速度，只有重选大型号的升降机。再查提升力和提升速度表得知 SWL10 在 20kN 负荷下允许提升速度为 1.44m/min 而满足要求。

八、说明：

- 1) 当压力负荷减小时，提升高度可随之增大（两者具体关系详见图 2 ~ 图 4）；
- 2) 在提升不同的负荷时，所允许的扭矩、功率、转速也不同，且不同工作持续率的最大功率也不同；
- 3) 1 型结构采用油脂润滑，随着温度的升高应及时补充润滑剂；
- 4) 表中的效率为用油脂润滑条件下的参数；
- 5) 工作期间应及时更换润滑剂；
- 6) 工作环境温度： $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$ ；
- 7) 在静止状态一般可以自锁。



JW 丝杆升降机概述

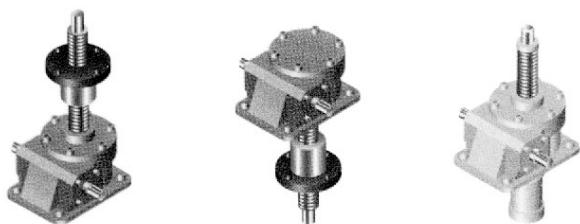
JWM型（梯形丝杆型）

低速、低频率

JWM型（梯形丝杆型）适用于低速、低频率的场合，主要构成部件为：精密梯形丝杆副与高精度蜗轮蜗杆副。

- 1) 价格经济、结构紧凑、操作简单、保养方便。
- 2) 低速、低频率：
主要用于大负荷、低速与无需频繁工作的场所。
- 3) 保持载重：梯形丝杆具有自动锁定功能，即使没有制动装置也可保持载重。

*在受到较大振动，冲击载荷时，可能会使自锁功能失效，此时请外加制动装置。



JWB型（普通滚珠丝杆型）

高速 高频率

JWB型（普通滚珠丝杆型），适用于高速，高频率和高性能的装置中，主要构成部件为精密滚珠丝杆副与高精度蜗轮蜗杆副。

- 1) 高效率：只需很小的驱动源，就可以产生很大的推动力。
- 2) 高速化：与梯形丝杆相比，速度有很大的提高，能轻松而高速地运转。
- 3) 使用寿命长：采用高质量的滚珠丝杆，使其工作寿命提高3倍以上。

注：本身无自锁功能，需外加制动装置或选择带有制动的驱动源。



JW series screw jack overview:

JWM (Trapezoid screw)

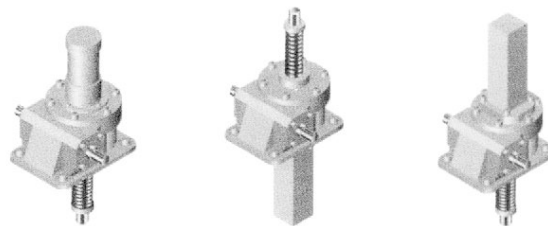
LOW SPEED LOW FREQUENCY

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.



JWB (General ball screw)

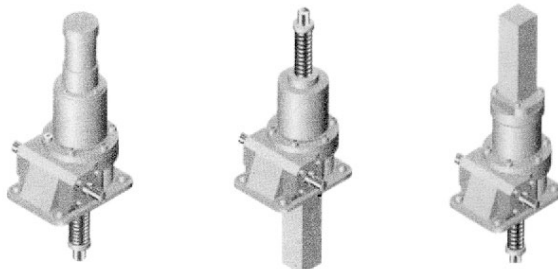
HIGH SPEED HIGH FREQUENCY

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.

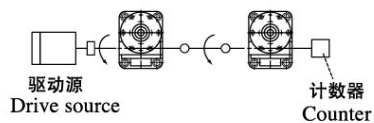
Note: Braking devices or motor with braking devices are necessary when choosing JWB.



应用示例：
两台连动：Application example:
Two gear boxes linking:

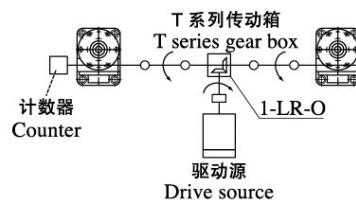
直线型

Linear arrangement



T型

T arrangement

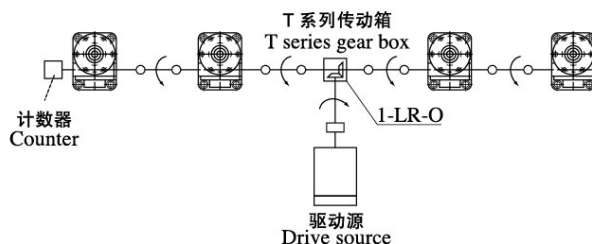


四台连动：

Four gear boxes linking:

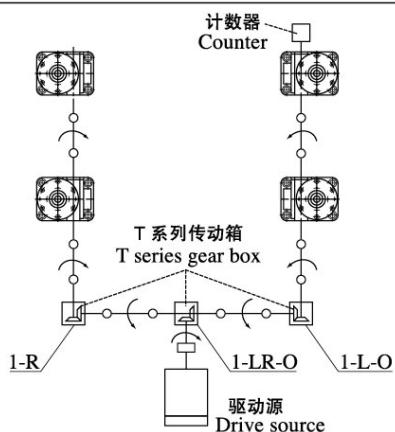
T型

T arrangement



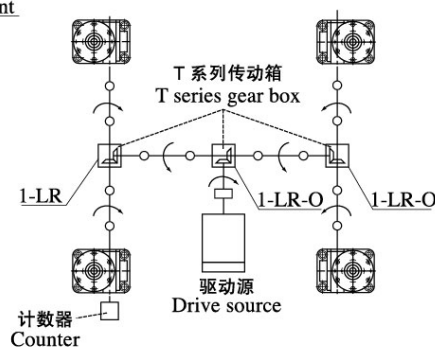
U型

U arrangement



H型

H arrangement

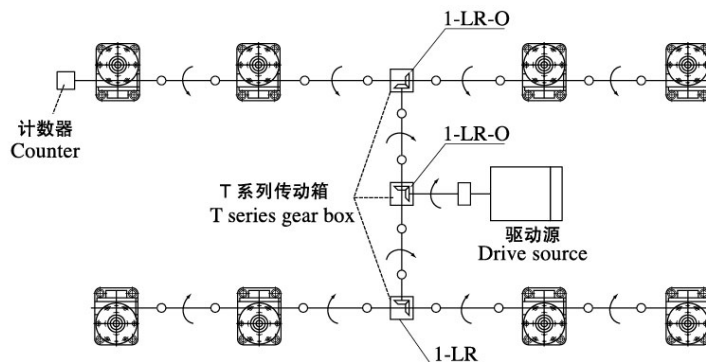


八台连动：

Eight gear boxes linking:

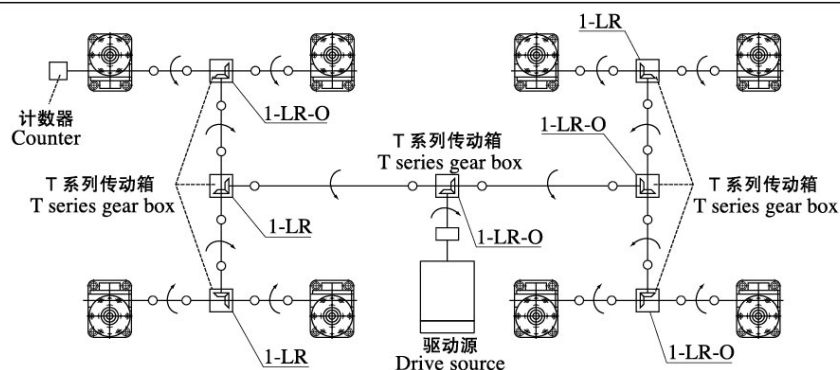
H发展型

H developed arrangement



2H型

2H arrangement



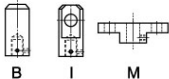


型号表示方法举例：

基本形式和止旋构造升降机的型号表示方法：

Illustration of types:

Plain mode and Mode with anti-rotation device:

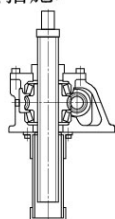
JW	M	050	US	-	A	H	100	J	M	C	-	I
升降机系列 JW series	M梯形丝杆 B滚珠丝杆 M (Trapezoid screw) B (General ball screw)	机座号 Size of JW	US DS UM DM	输入轴方向A或B 双向输入时不标 (详细标注外形尺寸图)	蜗轮速比 Ratio	行程(mm) Journey	 J 防尘罩 Dust hood	支架安装 Support-mounted 普通底座式安装不标 Normal foot-mounted isn't marked	 B I M 顶端连接方式 Top end fittings	安装方位 Mounting position I、II、III		

基本形式 (US, DS)

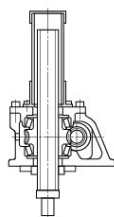
螺母转动, 丝杆上下移动并伴随附加的旋转运动, (如下图)

US: 押上 DS: 吊下

- * 请根据载荷方向、安装方向来选择合适的升降机 (US或DS).
- * 丝杆轴在升降时, 会产生旋转力, 所以必须做好防止旋转措施.



US

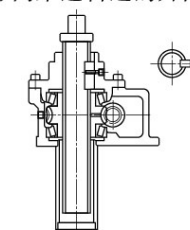


DS

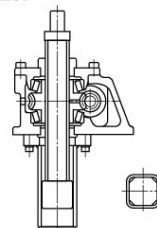
止旋构造 (UM, DM)

UM: 押上 DM: 吊下

- * 丝杆只能上下移动
- * 请根据载荷方向、安装方向来选择合适的升降机 (UM或DM)



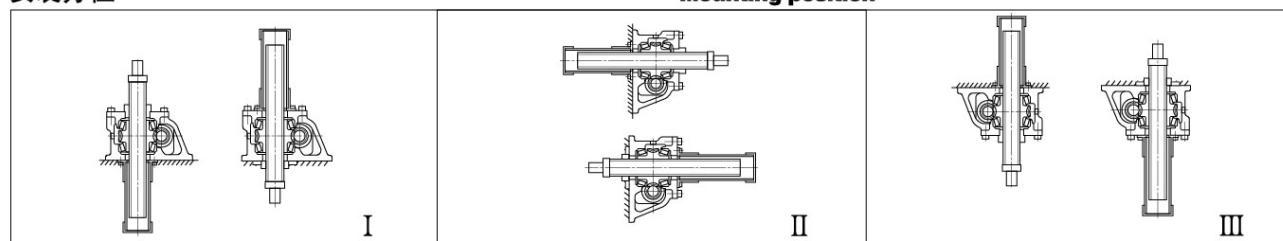
(JWM100-JWM200)
UM



(JWM010-JWM050) (JWB010-JWB200)
DM

安装方位

Mounting position



注: 采用Ⅲ型安装方位时, 底脚安装螺栓的性能等级须为10.9级以上。

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



活动螺母构造升降机的型号表示方法：

Illustration of type with traveling nut



活动螺母构造 (UR, DR)

一般情况下, 升降机必须具有因丝杆轴的升降而产生的行程和丝杆罩所需的空间, 若想在有限的空间内增长行程时, 使用此活动螺母构造非常适应 (丝杆轴旋转, 活动螺母移动)。丝杆轴顶端为圆柱形, 所以在长行程时, 在轴端采用支撑方式, 可以得到很好的传动效果。

UR: 押上 DR: 吊下

请根据载荷方向, 安装方向来选择合适的升降机 (押上或吊下)

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.

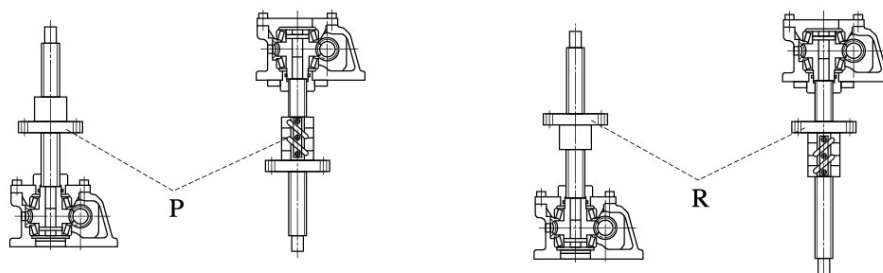
UR: uprise DR: drop

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

JW

活动螺母的安装方向 (P, R)

选型和型号表示方法中, 还需注明螺母的放置方向 (如下图)

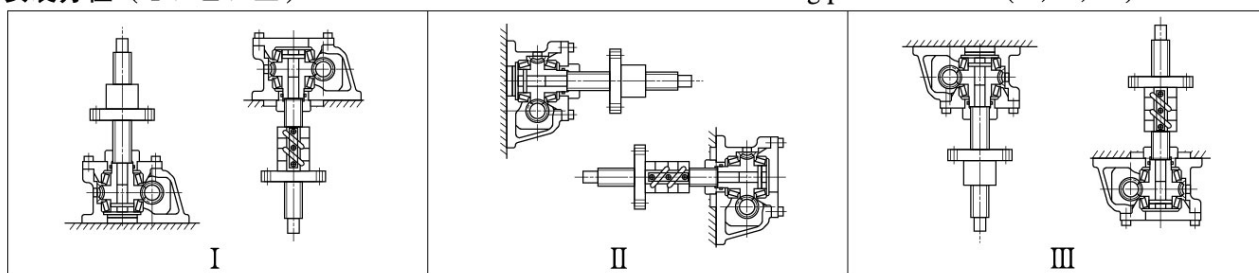


Mounting direction of traveling nut (P, R)

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

安装方位 (I、II、III)

Mounting position of Jack (I, II, III)



注: 采用III型安装方位时, 底脚安装螺栓的性能等级须为10.9级以上。

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



JWM (梯形丝杆类型) 基本参数一览表

JWM (Trapezoid screw) basic parameter table:

型 号 Type		JWM010	JWM025	JWM050	JWM100	JWM150	JWM200	JWM300	JWM500	JWM750	JWM1000
最大载荷 Maximal load	(kN)	9.80	24.5	49.0	98.0	147	196	294	490	735	980
丝杆外径 Outer diameter of screw	(mm)	20	26	40	50	55	65	85	120	130	150
丝杆底径 Small diameter of screw	d (mm)	14.8	19.7	30.5	38.4	43.4	49.3	67	102	112	127
丝杆螺距 Pitch of screw	L1 (mm)	4	5	8	10	10	12	16	16	16	20
减速比 Ratio i	H 速度 Speed	5	6	6	8	8	8	10 ^{2/3}	10 ^{2/3}	10 ^{2/3}	12
	L 速度 Speed	20	24	24	24	24	24	32	32	32	36
综合效率 % Integrated efficiency η	H 速度 Speed	21	21	22	22	20	20	19	15	13	13
	L 速度 Speed	12	12	14	15	14	13	11	10	8	8
容许输入最大功率 (kW) Permissible output maximal power	H 速度 Speed	0.49	1.0	2.0	2.8	3.1	5.0	8.4	13.4	14.4	21.4
	L 速度 Speed	0.36	0.46	0.63	1.4	2.2	3.2	4.6	5.7	7.2	9.4
空载扭矩 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
容许输入轴扭矩* 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
最大载荷时所需输入轴扭矩** Required torque of input shaft at maximal load	H 速度 Speed	6.2	16.1	48.7	90.7	149.0	238.1	400.1	856.0	1380.5	2040.9
	L 速度 Speed	2.9	7.4	20.0	45.3	72.3	124.0	244.0	453.3	761.3	1278.3
输入轴每回转一圈丝杆 (活动螺母)轴向位移量 Axial journey of screw, when input shaft rotate a circle.	H 速度 Speed	0.80	0.83	1.33	1.25	1.25	1.50	1.50	1.50	1.50	1.67
	L 速度 Speed	0.20	0.21	0.33	0.42	0.42	0.50	0.50	0.50	0.50	0.56
最大载荷时容许输入轴回转速度 Permissible rotational speed of screw shaft at maximal load	H 速度 Speed	750	600	400	300	200	200	200	150	100	100
	L 速度 Speed	1200	600	300	300	290	250	180	120	90	70
最大载荷时丝杆回转扭矩 (N·m) Rotational torque of screw at maximal load		20.1	65.1	201.5	503.6	813.2	1287.7	2531.9	5551.3	8921.8	13878.3

* 减速机输入轴的容许扭矩。(连动运转时请确认)

** 包括无负荷空转扭矩的数值。

* Permission torque of shaft of reducer.

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

JWB (普通滚珠丝杆) 基本参数一览表

JWB (General ball screw) basic parameter table:

型 号 Type		JWB010	JWB025	JWB050	JWB100	JWB150	JWB200	JWB300	JWB500
最大载荷 Maximal load	(kN)	9.80	24.5	49.0	98.0	147	196	294	490
丝杆外径 Outer diameter of screw	(mm)	20	25	40	50	55	65	80	100
丝杆底径 Small diameter of screw	d (mm)	17.5	21.4	31.3	39.1	43.1	55.7	74.8	87
丝杆螺距 Pitch of screw	L1 (mm)	5	8	10	12	12	12	16	20
减速比 Ratio i	H 速度 Speed	5	6	6	8	8	8	10 ^{2/3}	10 ^{2/3}
	L 速度 Speed	20	24	24	24	24	24	32	32
综合效率 % Integrated efficiency η	H 速度 Speed	61	62	64	63	63	62	56	60
	L 速度 Speed	34	35	39	43	43	41	34	38
容许输入最大功率 Permissible output maximal power	H 速度 Speed	0.54	1.3	2.2	3.6	4.0	5.5	8.9	13.3
	L 速度 Speed	0.27	0.63	1.0	1.9	2.1	2.8	4.1	6.5
空载扭矩 No-load torque	T ₀ (N·m)	0.29	0.62	1.37	1.96	2.65	3.92	9.81	19.6
保持扭矩 Keeping torque	H 速度 Speed	1.27	4.31	10.78	19.6	39.2	51.0	68.6	140.1
	L 速度 Speed	0.26	0.91	2.4	5.8	11.8	15.0	19.5	41.2
容许输入轴扭矩* Permissible torque of input shaft	(N·m)	19.6	49.0	153.9	292.0	292.0	292.0	735.0	1372.0
最大载荷时所需输入轴扭矩** Required torque of input shaft at maximal load	H 速度 Speed	2.8	9.0	21.5	39.1	77.0	104.5	169.6	317.5
	L 速度 Speed	1.4	4.3	9.6	20.4	39.6	54.2	98.5	177.9
输入轴每回转一圈对应丝杆 (活动螺母)轴向位移量 Axial displacement of screw, when input shaft rotate a circle.	H 速度 Speed	1	1.33	1.67	1.5	1.5	1.5	1.5	1.88
	L 速度 Speed	0.25	0.33	0.42	0.5	0.5	0.5	0.5	0.63
最大载荷时容许输入轴回转速度 Permissible rotational speed of screw shaft at maximal loading	H 速度 Speed	1500	1400	1000	890	500	500	500	400
	L 速度 Speed	1500	1400	1000	890	500	500	400	350
最大载荷时丝杆回转扭矩 (N·m) Rotational torque of screw at maximal load		8.7	34.7	86.7	208.2	416.3	555.1	1040.9	2081.7

* 减速机输入轴的容许扭矩。(连动运转时请确认)

** 包括无负荷空转扭矩的数值。

* Permissible torque of shaft of reducer.

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

**注意事项:**

- 1) 选择升降机时不论静载、动载、冲击载荷均不得超过其允许承受的最大载荷, 根据安全系数、使用行程、校对丝杆的稳定性选择具有充分容量的升降机;
- 2) 一定要注意丝杆轴转速与承受的载荷进行搭配, 对于升降机的容许最大载荷、容许外加负载、容许丝杆轴的旋转速度等项目进行校验, 如果超过产品的数据将会造成升降机设备整体的重大损伤;
- 3) 升降机在工作时其减速部表面温度应控制在 $-15^{\circ}\text{C} \sim 80^{\circ}\text{C}$ 的范围以内, 确保活动螺母的表面温度也在上述范围以内;
- 4) 输入轴容许转速为1500r/min, 输入轴不得超过此转速;
- 5) JWM和JWB都不可连续运转:
单台升降机的负荷时间率(%ED)以30分为单位计算, JWM(梯形丝杆类型)的负荷时间内不得超过20%ED, JWB(普通滚珠丝杆)的负荷时间率不得超过30%ED,

负荷时间率%ED =

$$\frac{1\text{动作周期的工作时间}}{1\text{动作周期的工作时间}+1\text{动作周期的停歇时间}} \times 100\%$$

- 6) 对于在同一轴线上连接数台升降机时, 请务必对输入轴强度进行校核, 使每台升降机所承担的扭矩都应在其容许输入轴扭矩以内;
- 7) 驱动源的起动扭矩应确保在使用扭矩的200%以上;
- 8) 在零摄氏度以下工作时因受润滑油粘性变化的影响使得整机效率下降, 所以必须选有充足的驱动源;
- 9) JWM型理论上具有自锁功能, 但工作在振动冲击较大的场合时会导致自锁功能失灵, 因此须外加一制动装置或选择带有制动的驱动源。
JWB型升降机本身不具有自锁功能, 为了防止由于轴向载荷和丝杆的自重而产生逆转, 必须外加制动装置或选择带有制动的驱动源, 请确保制动扭矩大于保持扭矩;

10) 升降机使用的环境如下

使用场所	Working Location	室内无雨水侵入的场所	Indoor location without rainwater
周围空气	Ambient Air	灰尘为一般工厂状态	Normal
环境温度	Ambient Temperature	$-15^{\circ}\text{C} \sim 40^{\circ}\text{C}$	
相对湿度	Relative Humidity	85%以下	Less than 85%

- 11) 当升降机工作在多灰尘的场所中时请务必选择防尘罩伸缩套附件来保护丝杆, 在室外使用时请务必考虑使用罩壳等装置, 使机器不直接受到风吹雨打;
- 12) 在升降机工作时, 不得进行人为的强行停机, 否则将使升降机受到严重破损;
- 13) 在有负载的情况下, 请不要将JWB型的输入轴驱动方式变为手动操作, 负载有可能会造成输入轴旋转非常危险。

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

室内无雨水侵入的场所	Indoor location without rainwater
灰尘为一般工厂状态	Normal
$-15^{\circ}\text{C} \sim 40^{\circ}\text{C}$	
85%以下	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.



选型方法:

升降机型号的确定:

计算总机的当量载荷Ws (N)

$$W_s = \text{最大载荷 } W_{\max} \times \text{使用系数 } f_l (N)$$

被驱动设备系数 (f1) 表:

载荷性质 Load character	使用举例 Example	被驱动设备系数 Factor for driven machine (f1)
无冲击载荷, 负荷惯性小 shockless load & small inertia load	开关、阀门传送带切换装置 Switch, valve transmission belt swithing device	1.0 ~ 1.3
轻微冲击载荷, 负荷惯性中等 moderate shock & moderate inertia	各种移动装置; 升降用各种升降机 All kinds of moving devices, all kinds of elevators	1.3 ~ 1.5
大冲击振动载荷, 负荷惯性大 heavy shock & large inertia	用台车搬运东西; 保持压延滚轮的位置 Carrying something by trolley; to keep the position of idling gear	1.5 ~ 3.0

计算单台升降机的当量载荷W,

$$W = \frac{W_s}{\text{连动台数} \times \text{连动系数 } f_d}$$

连动系数 Linkage factor(f_d):

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

确定升降机型号:

充分考虑载重, 速度, 行程, 效率, 驱动源后暂时选定型号

根据使用行程、环境条件、输出顶端的联接方式, 确定升降机的整体型号。

输入功率校核:

负载所需输入功率与许容最大输入功率相比较如果超过请提高型号或降低丝杆轴转速再计算。

负载所需输入功率计算 Calculation of required input power under load :

所需输入轴转速 Required rotation speed of input shaft	n ₁ (r/min)	$n_1 = \frac{V}{L_i} \times i$
所需输入轴扭矩 Required torque of input shaft	T ₁ (N · m)	$T_1 = \frac{W \times L_1}{2\pi \times i \times \eta} + T_0$
所需输入功率 Required input power	P ₁ (kW)	$P_1 = \frac{T_1 \times n_1}{9550}$

V: 升降机丝杆轴(活动螺母)升降速度 mm/min L₁: 丝杆螺距 (mm)
i: 减速比 W: 单台升降机当量载荷 (N) π: 圆周率
η: 升降机的综合效率 T₀: 空载扭矩 (N·m)
(L₁、i、η、T₀参照基本参数表)

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.

丝杆稳定性校核

当丝杆承受轴向压缩载荷时, 请对其进行稳定性校验, 如超过其临界载荷值请提高型号后再计算。

升降机丝杆临界稳定载荷通过以下公式计算:

$P_{CR} = f_m \times \left(\frac{d^2}{L_a} \right)^2$	确保 ensure	$P_{CR} > W \times SF \quad (SF = 4)$
--	--------------	---------------------------------------

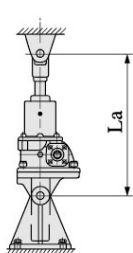
P_{CR}: 临界载荷 (N)
d: 丝杆底径mm(参照基本参数表)
f_m: 支撑系数
L_a: 作用点间距离mm
W: 单台升降机当量载荷 (N)
SF: 安全系数 (一般SF=4)

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)

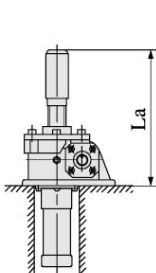


丝杆轴稳定性校核时， L_a （ L_a 值计算根据各型号尺寸）与 f_m （支撑系数）选取如下：

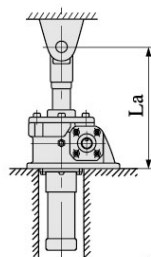
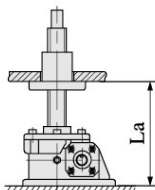
Verifying the stability of screw, the values of L_a and f_m as follows,



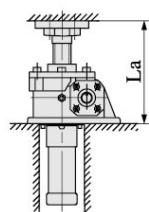
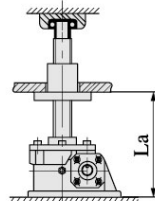
两端支撑 $f_m = 10 \times 10^4$
support at both ends $f_m = 10 \times 10^4$



底座固定轴端自由 $f_m = 2.5 \times 10^4$
Foot-mounted & movable shaft end $f_m = 2.5 \times 10^4$



底座固定轴端支撑或固定 $f_m = 20 \times 10^4$
Foot-mounted & shaft end supporting or fixed $f_m = 20 \times 10^4$



临界转速校核

如为活动螺母选型时，请务必将丝杆轴转速控制在临界转速以下，若超出临界转速，请提高型号再计算。

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 : 临界转速 r/min

d : 丝杆底径 mm(参照基本参数表)

f_n : 长度系数

L_b : 支撑间距离 mm

n_s : 丝杆转速 r/min

n_1 : 输入速度 r/min

i : 减速比

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

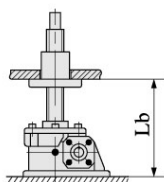
f_n : Length factor

i : ratio

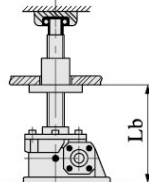
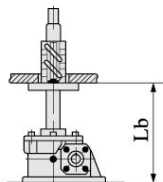
L_b : Distance between both supporting face

丝杆轴转速校核时， L_b （ L_b 值计算根据各型号尺寸）与 f_n （长度系数）选取如下：

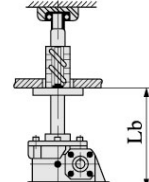
Verifying the rotation speed of screw, the values of L_b and f_n as follows,



轴端自由 $f_n = 0.36$
Movable shaft end $f_n = 0.36$



轴端支撑 $f_n = 1.56$
Shaft end supporting $f_n = 1.56$



请确保: $n_c > n_s$

Ensure: $n_c > n_s$

计算举例: JWM200UR-H1200PI在输入转速为1200r/min,

Example for calculation:

轴端支撑下运转, 根据外形尺寸与传动能力表查得:

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.

$d = 49.3$ $L_b = 1437$

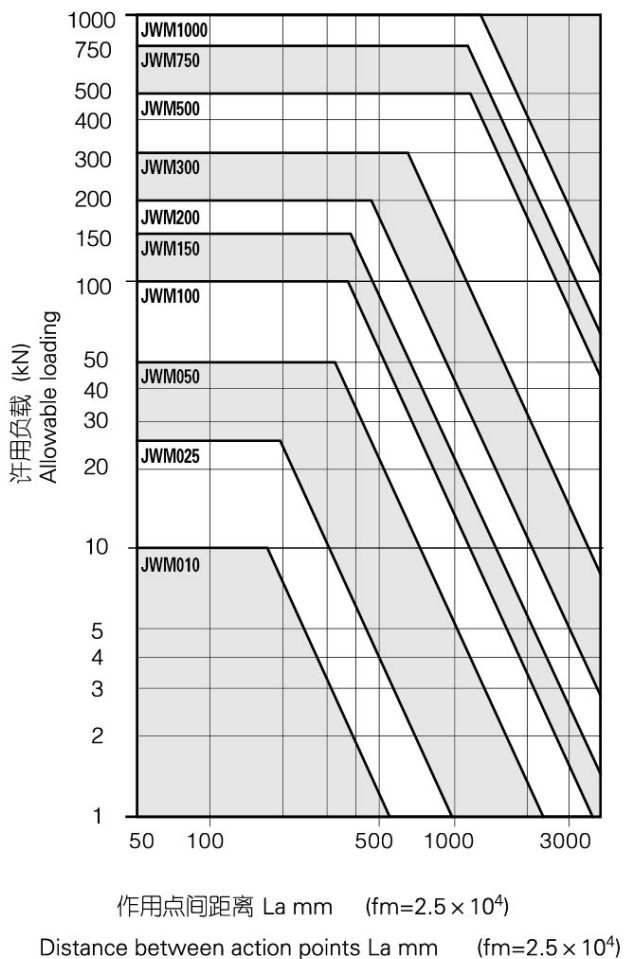
$$n_s = \frac{n_1}{i} = \frac{1200}{8} = 150 \text{ r/min}$$

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

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

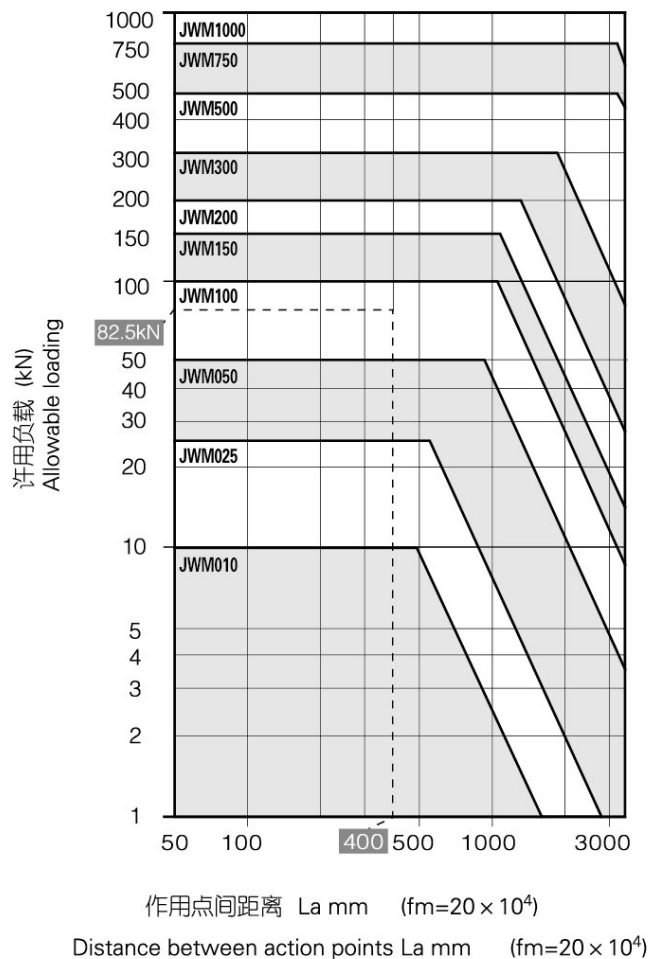


作用点距离许用负载关联图表：



“---”表示以负荷 $W=82.5\text{kN}$ ，（安全系数 $S_f=4$ ）作用点距离 $L_a=400\text{mm}$ （底座固定轴端支撑式固定 $f_m=20 \times 10^4$ ）为例；此时可选定满足纵轴、横轴交点的梯形螺纹丝杆升降机JWM100

Associated diagram of allowed loading of point distance :



“---” means loading $W=82.5\text{kN}$, (safety coefficient $SF=4$) point distance $L_a=400\text{mm}$ (foundation fixed shaft end supporting fixing $f_m=20 \times 10^4$) as an example; at this time, you can select ladder screw elevator JWM100 witch can satisfy crossing point of vertical and horizontal axis.



丝杆升降速度与许用负载关联图表：

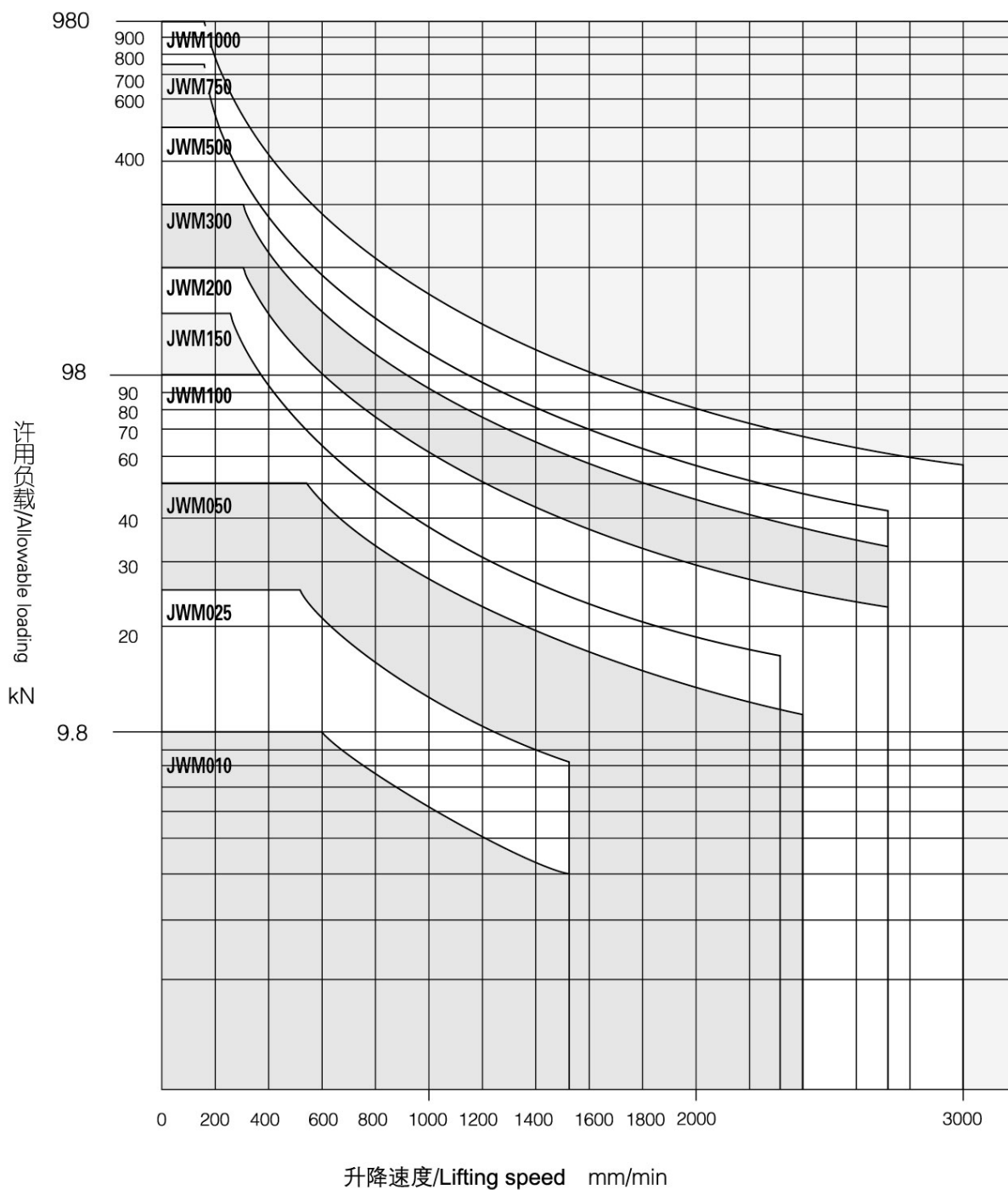
此图表是考虑丝杆的最大允许输入容量而创建的图表，请通过此图表检查允许负载决定升降机型号。需要详细造型时，请通过计算确认。

Association diagram of screw rod lifting speed and allowable loading:

The picture is established according to maximum allowable input capacity of screw rod, please check allowable loading according to this picture, determine elevator type. When detailed type is needed, confirm by calculation.

H速度

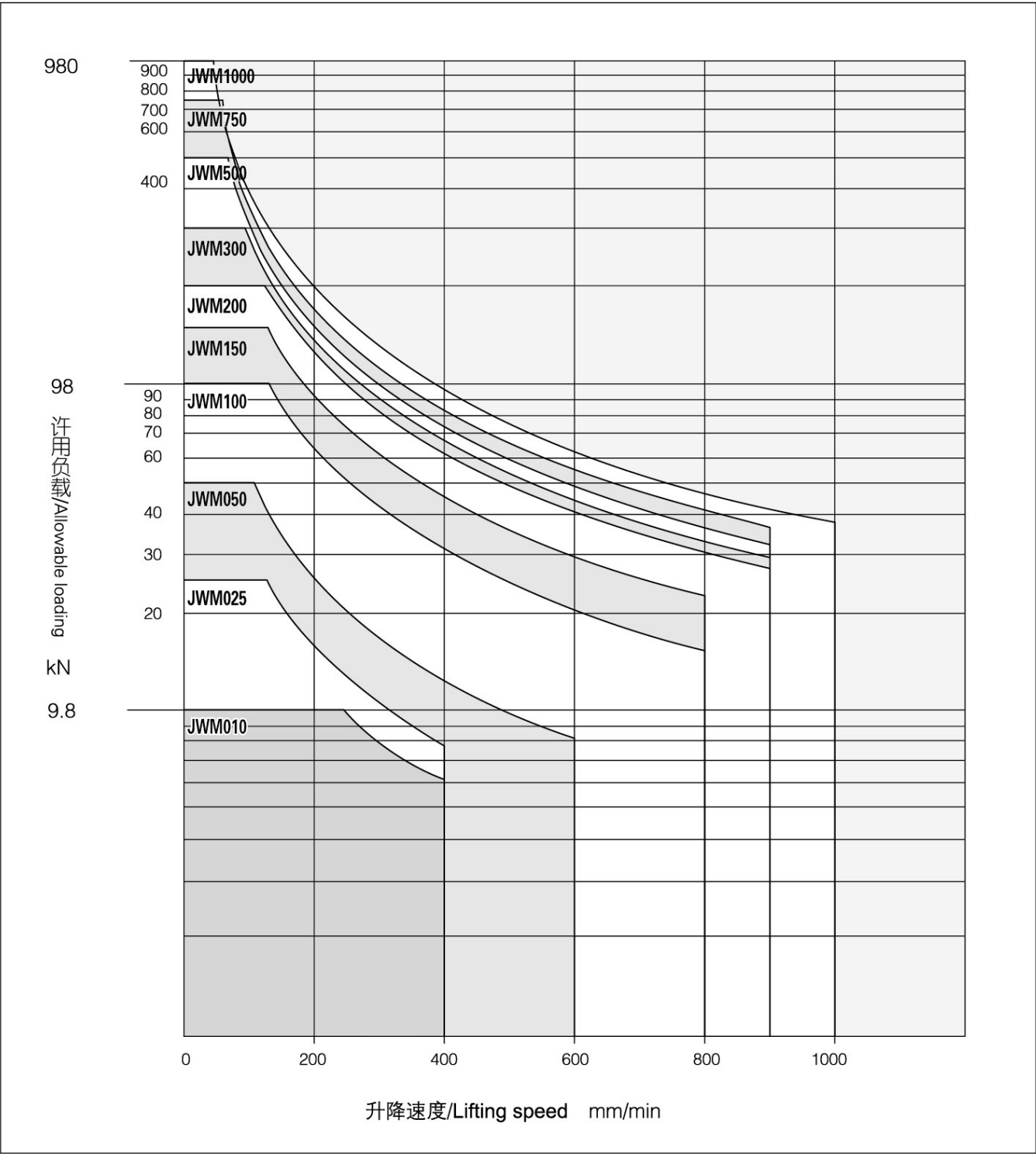
H Speed





L速度

H Speed



JW



输入轴允许径向力Fr1

在输入轴安装链轮、齿轮、皮带时，请确认作用在输入轴上的径向力在允许径向力以下。

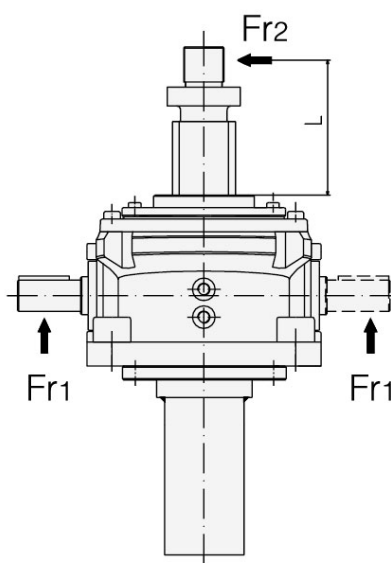
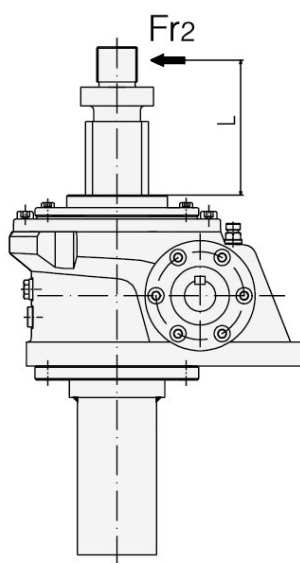
Allowable radial force of input shaft Fr1

When installing chain wheel, gear, belt on input shaft, please confirm radial force exerted on input shaft is under allowable radial force.

速比内型 Ratio	允许径向力/Allowable radial force Fr1										单位/Unit (N)
	JWM010	JWM025	JWM050	JWM100	JWM150	JWM200	JWM300	JWM500	JWM750	JWM1000	
H速度 H Speed	380	710	1500	2270	3160	4320	6110	10100	13900	18000	
L速度 L Speed	220	420	820	1430	1950	2800	4400	6650	9390	13200	

丝杆输出端允许径向力Fr2

Allowable radial force of screw rod output end Fr2



JW

在丝杆输出端施加外力时，请确认作用在丝杆输出端的径向力，在允许径向力以下

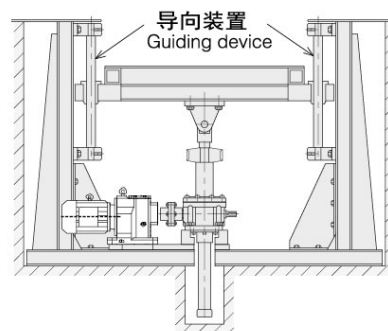
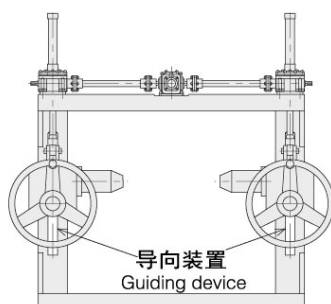
When exerting force on screw rod output end, please confirm radial force exerted on screw rod output end, under allowable radial force

型 号/Type Highlighted quantity of screw rod 丝杆突出量L(mm)	允许径向力/Allowable radial force Fr2										单位/Unit (N)
	JWM010	JWM025	JWM050	JWM100	JWM150	JWM200	JWM300	JWM500	JWM750	JWM1000	
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	



若外径向力超过丝杆允许径向力时, 请外加导向装置,
举例如下:

If external diameter force exceeds allowable radial force of
screw rod, please add guide device, For example:

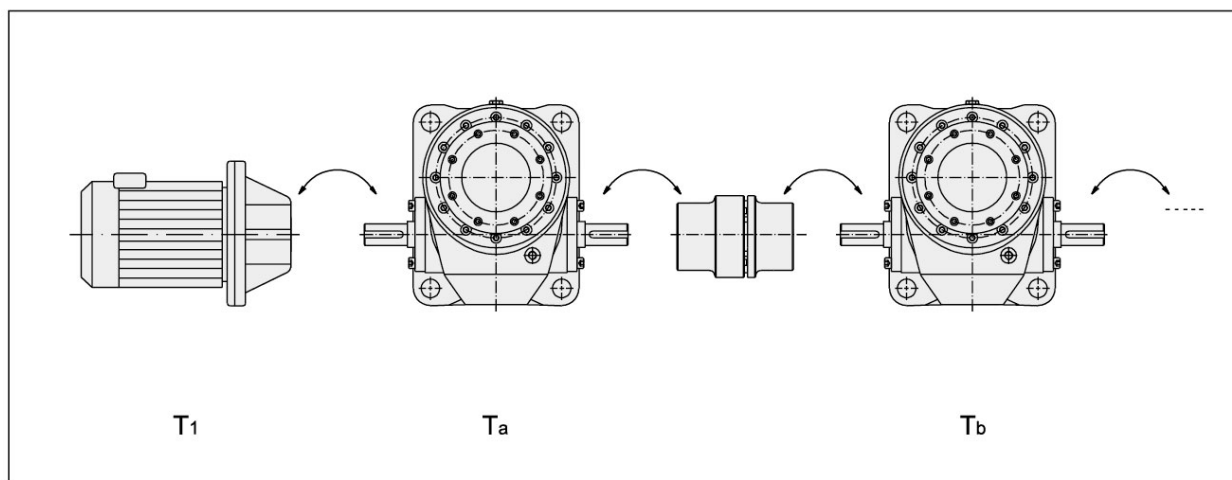


当升降机传动配置为串联时(即同一轴线配置
了两个或以上数量的升降机)

When elevator transmission is in series (that means
the same axial line is equipped with two or more
elevators)

如图须对各升降机输入轴端进行强度校核;

Make strenght examination to input shaft end of each elevator:



T_a :为升降机 a 的所需输入扭矩

T_a : Input torque needed by elevator a

T_b :为升降机 b 的所需输入扭矩

T_b : Input torque needed by elevator b

电机必需的扭矩 $T_1 = T_a + T_b <$ 升降机 a 的容许输入轴扭矩

Torque needed by motor $T_1 = T_a + T_b <$ Allowable input shaft torque
of elevator a



升降机选择举例：

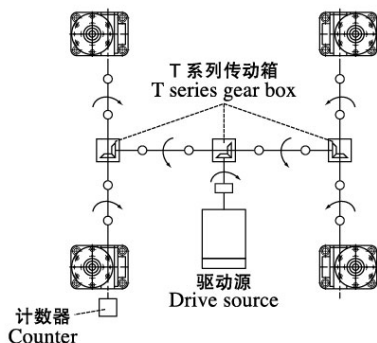
例题：4台连动押上用，结构如下图所示的4台连动模式，工厂内保持常温，有少许灰尘，有横向负荷在升降机侧面设置了导向器，安装状态采用底座固定，轴端采用一固定一支撑，电源为三相380V/50Hz，使用频率为2次/小时×8小时

1. 最大轴向载荷：88.2 KN/4台
2. 升降速度：10mm/s (600mm/min)
3. 使用行程：260mm

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



升降机型号确定

- 1). 计算总机当量载荷 W_s (取被驱动设备系数为1.3)

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

- 2). 计算单台当量载荷 W

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

- 3). 暂定型号：

考虑速度、效率、驱动源、载重后暂定选择 JWB050USH (参照基本参数表)

- 4). 行程校核：

使用行程为260mm，充分考虑余量后选定行程为300mm (参照JWB050US尺寸表)

- 5). 输入功率校核：

(1) 所需输入功率计算：

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

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

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

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

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

(2) 参照基本参数表， $P_{\max} = 2.2 \text{ kW} > P_1 \dots \dots \text{OK}$

- 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:

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

- 6). 丝杆稳定性校核：

因为施加压缩载荷，根据传动能力表及外形尺寸图得出：

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

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

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

... ..OK

- 6) Verify the stability of screw

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



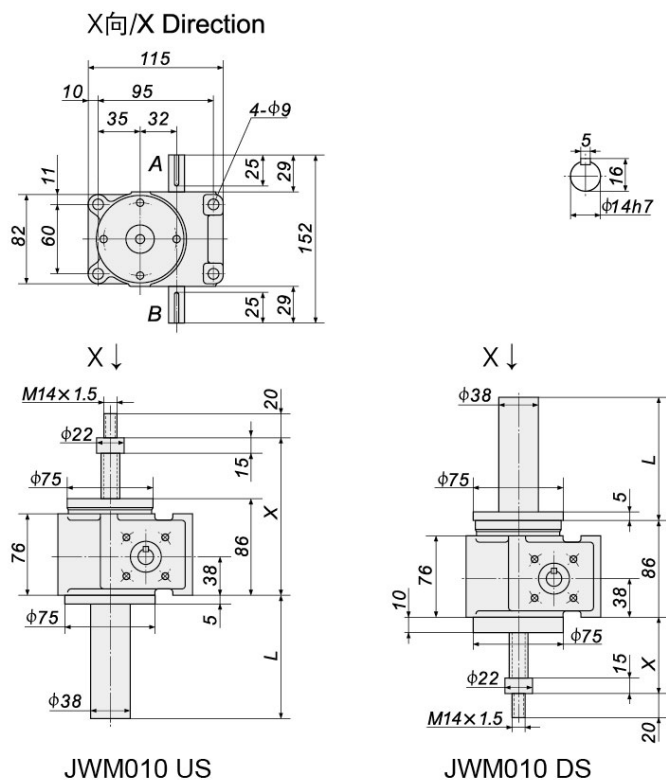
外形尺寸:

JWM010

Outline Dimension:

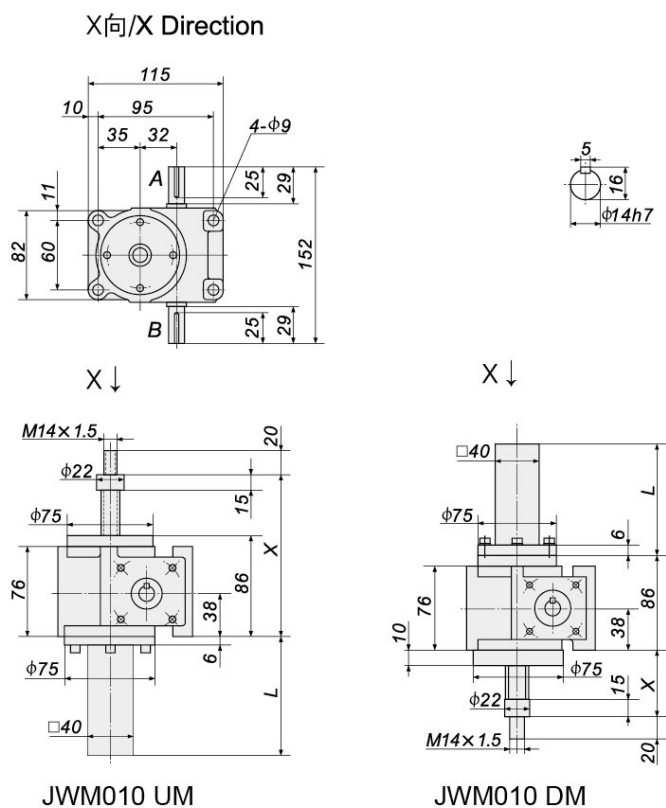
行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
25	111	136	161	186	119	5.4
50	111	161	161	211	144	5.4
100	111	211	161	261	194	5.5
150	111	261	161	311	244	5.6
200	111	311	161	361	294	5.7
250	111	361	201	451	384	6
300	111	411	201	501	434	6.1
350	111	461	201	551	484	6.2
400	111	511	201	601	534	6.3
500	111	611	236	736	669	6.6
600	111	711	236	836	769	6.9
800	111	911	271	1071	1004	7.5
1000	111	1111	301	1234	1234	8

行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
25	25	50	75	100	119	5.4
50	25	75	75	125	144	5.4
100	25	125	75	175	194	5.5
150	25	175	75	225	244	5.6
200	25	225	75	275	294	5.7
250	25	275	115	365	384	6
300	25	325	115	415	434	6.1
350	25	375	115	465	484	6.2
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
1000	25	1025	215	1215	1234	8



行程(mm) Stroke	UM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
25	111	136	161	186	119	6.2
50	111	161	161	211	144	6.3
100	111	211	161	261	194	6.6
150	111	261	161	311	244	6.9
200	111	311	161	361	294	7.2
250	111	361	201	451	384	7.8
300	111	411	201	501	434	8.1
350	111	461	201	551	484	8.5
400	111	511	201	601	534	8.8
500	111	611	236	736	669	9.6
600	111	711	236	836	769	11
800	111	911	271	1071	1004	12
1000	111	1111	301	1301	1234	14

行程(mm) Stroke	DM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
25	25	50	75	100	119	6.2
50	25	75	75	125	144	6.3
100	25	125	75	175	194	6.6
150	25	175	75	225	244	6.9
200	25	225	75	275	294	7.2
250	25	275	115	365	384	7.8
300	25	325	115	415	434	8.1
350	25	375	115	465	484	8.5
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
1000	25	1025	215	1215	1234	14

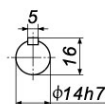
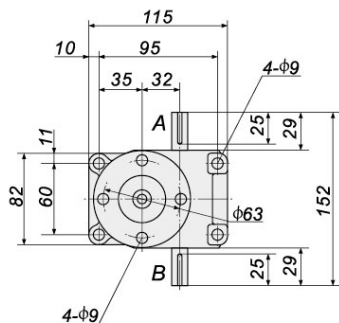


注: X⁽¹⁾ 加防尘罩尺寸。

Note: X⁽¹⁾ dimension with dust-proof cover.

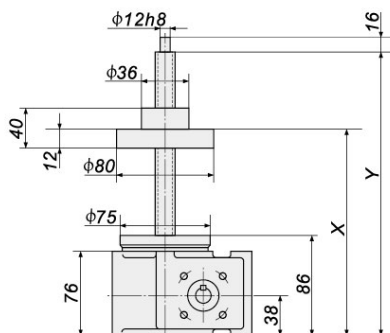


X向/X Direction

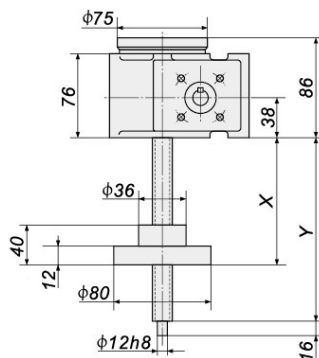


X ↓

X ↓



JWM010 UR



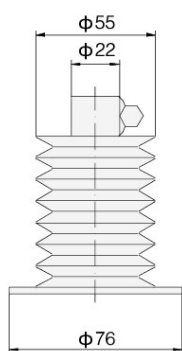
JWM010 DR

行程(mm) Stroke	UR			
	X		Y	m(kg)
	MIN	MAX		
25	108	133	171	5.8
50	108	158	196	5.8
100	108	208	246	5.9
150	108	258	296	6
200	108	308	346	6.1
250	108	358	396	6.2
300	108	408	446	6.2
350	108	558	496	6.3
400	108	508	546	6.4
500	108	608	646	6.6
600	108	708	746	6.8
800	108	908	946	7.2
1000	108	1108	1146	7.6

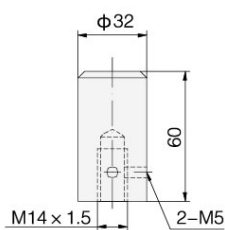
行程(mm) Stroke	DR			
	X		Y	m(kg)
	MIN	MAX		
25	60	85	95	5.8
50	60	110	120	5.8
100	60	160	170	5.9
150	60	210	220	6
200	60	260	270	6.1
250	60	310	320	6.2
300	60	360	370	6.2
350	60	410	420	6.3
400	60	460	470	6.4
500	60	560	570	6.6
600	60	660	670	6.8
800	60	860	970	7.2
1000	60	1060	1070	7.6

JW

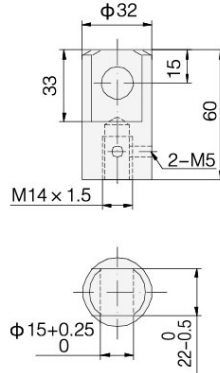
附件/Accessories



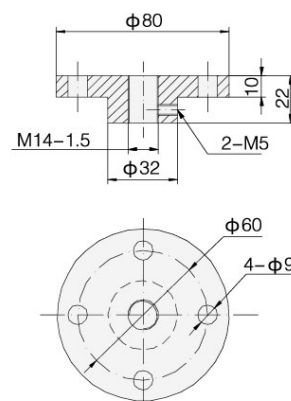
J



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外形尺寸:

JWM025

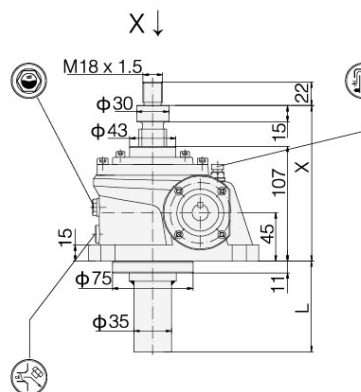
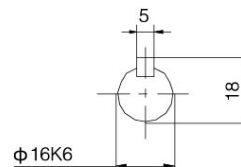
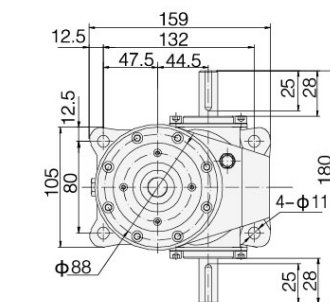
Outline Dimension:

行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	132	182	147	197	99	7.5
100	132	232	147	247	149	7.7
150	132	282	147	297	199	7.9
200	132	332	147	347	249	8.1
250	132	382	167	417	319	8.3
300	132	432	167	467	369	8.5
350	132	482	167	517	419	8.7
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
1200	132	1332	242	1442	1334	13

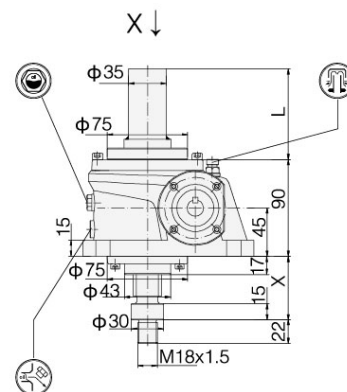
行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	57	107	99	7.5
100	42	142	57	157	149	7.7
150	42	192	57	207	199	7.9
200	42	242	57	257	249	8.1
250	42	292	77	327	319	8.3
300	42	342	77	377	369	8.5
350	42	392	77	427	419	8.7
400	42	442	77	477	469	8.9
500	42	542	97	597	589	9.4
600	42	642	97	697	689	9.8
800	42	842	117	917	909	11
1000	42	1042	137	1137	1129	12
1200	42	1242	152	1352	1334	13

行程(mm) Stroke	UM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	132	182	147	197	125	9
100	132	232	147	247	175	10
150	132	282	147	297	225	11
200	132	332	147	347	275	12
250	132	382	167	417	345	12.5
300	132	432	167	467	395	13
350	132	482	167	517	445	13.5
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
1200	132	1332	242	1442	1370	24

行程(mm) Stroke	DM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	57	107	125	9
100	42	142	57	157	175	10
150	42	192	57	207	225	11
200	42	242	57	257	275	12
250	42	292	77	327	345	12.5
300	42	342	77	377	395	13
350	42	392	77	427	445	13.5
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
1200	42	1242	152	1352	1370	24

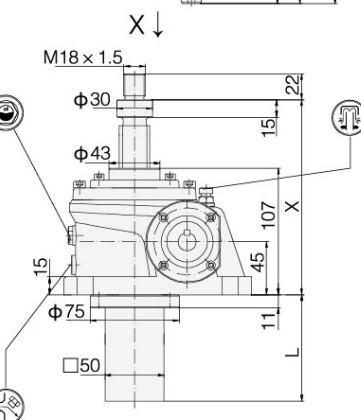
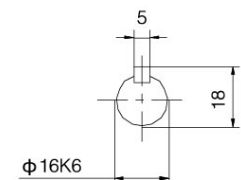
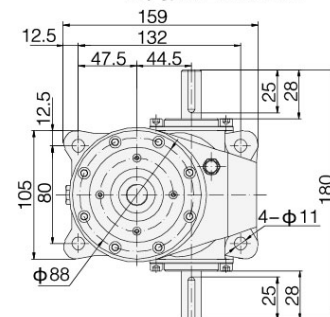


JWM025 US

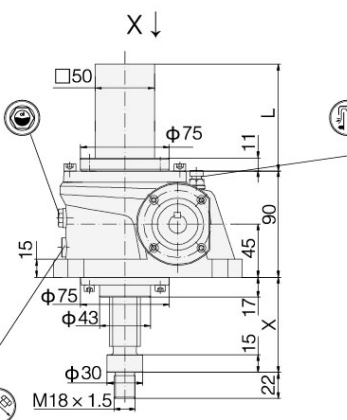


JWM025 DS

X向/X Direction



JWM025 UM



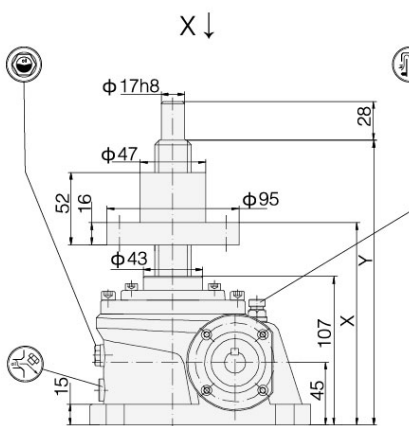
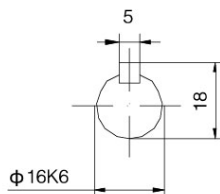
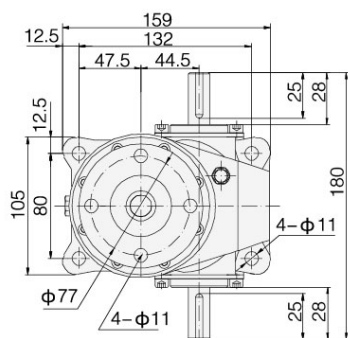
JWM025 DM

注: X⁽¹⁾ 加防尘罩尺寸。

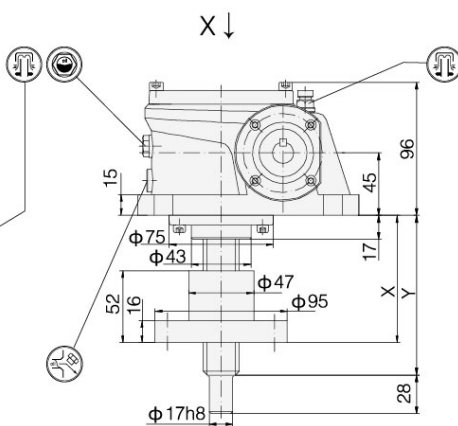
Note: X⁽¹⁾ dimension with dust-proof cover.



X向/X Direction



JWM025 UR

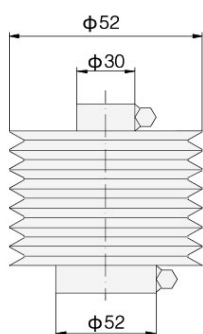


JWM025 DR

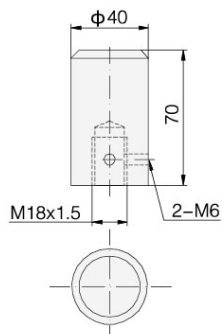
行程(mm) Stroke	UR			
	X		Y	m(kg)
	MIN	MAX		
50	133	183	229	9.1
100	133	233	279	9.2
150	133	283	329	9.4
200	133	333	379	9.5
250	133	383	429	9.7
300	133	433	479	9.9
350	133	483	529	10.5
400	133	533	579	11
500	133	633	679	11
600	133	733	779	11
800	133	933	979	12
1000	133	1133	1179	13
1200	133	1333	1379	13

行程(mm) Stroke	DR			
	X		Y	m(kg)
	MIN	MAX		
50	79	129	139	9.1
100	79	179	189	9.2
150	79	229	239	9.4
200	79	279	289	9.5
250	79	329	339	9.7
300	79	379	389	9.9
350	79	429	439	10.5
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
1200	79	1279	1289	13

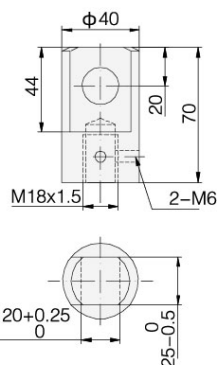
附件/Accessories



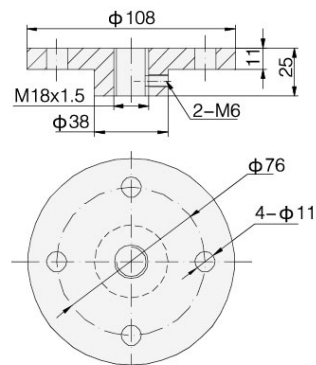
J



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外形尺寸:

JWM050

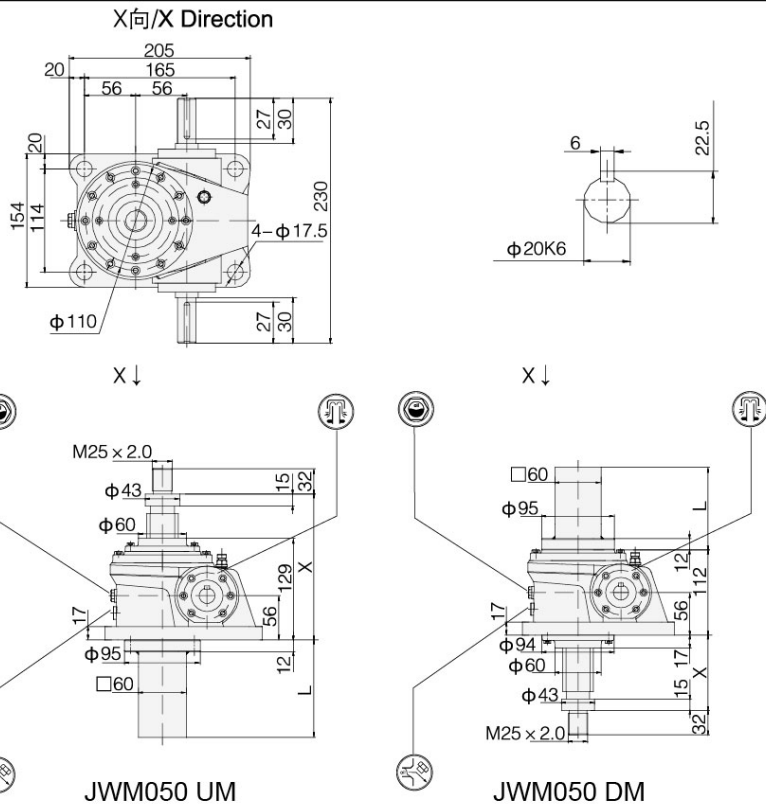
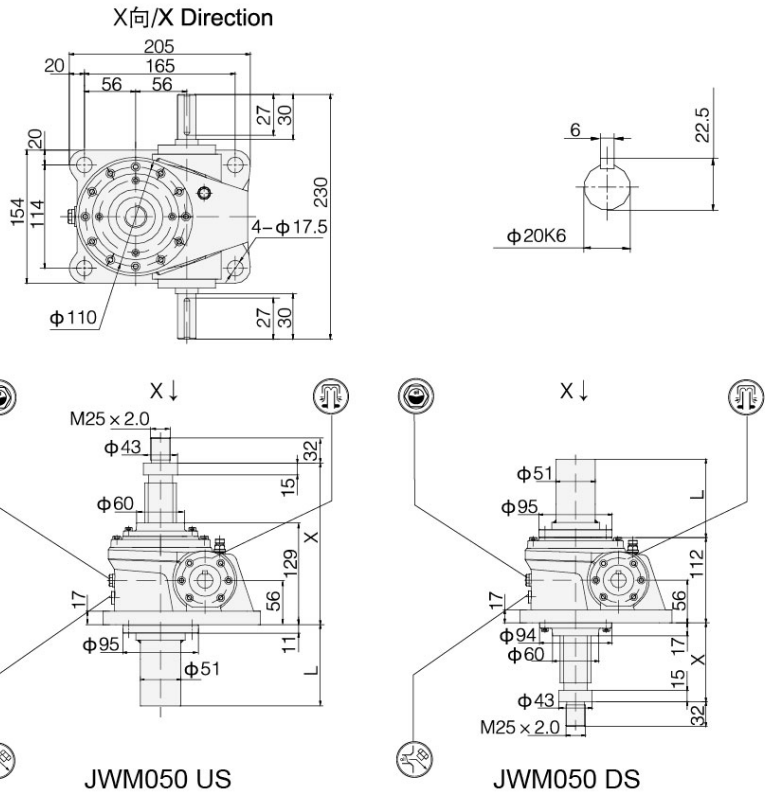
Outline Dimension:

行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	154	204	169	219	105	18
100	154	254	169	269	155	18
150	154	304	169	319	205	19
200	154	354	169	369	255	19
250	154	404	189	439	325	20
300	154	454	189	489	375	20
350	154	504	189	539	425	21
400	154	554	189	589	475	21
450	154	604	209	659	545	22
500	154	654	209	709	595	22
550	154	704	209	759	645	23
600	154	754	209	809	695	23
650	154	804	229	879	765	24
700	154	854	229	929	815	24
800	154	954	229	1029	915	25
1000	154	1154	249	1249	1135	27
1200	154	1354	264	1464	1350	29
1500	154	1654	289	1789	1675	32

行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	57	107	105	18
100	42	142	57	157	155	18
150	42	192	57	207	205	19
200	42	242	57	257	255	19
250	42	292	77	327	325	20
300	42	342	77	377	375	20
350	42	392	77	427	425	21
400	42	442	77	477	475	21
450	42	492	97	547	545	22
500	42	542	97	597	595	22
550	42	592	97	647	645	23
600	42	642	97	697	695	23
650	42	692	117	767	765	24
700	42	742	117	817	815	24
800	42	842	117	917	915	25
1000	42	1042	137	1137	1135	27
1200	42	1242	152	1352	1350	29
1500	42	1542	177	1677	1675	32

行程(mm) Stroke	UM					L	m(kg)
	X		X ⁽¹⁾				
	MIN	MAX	MIN	MAX			
50	154	204	169	219	133	21	
100	154	254	169	269	183	22	
150	154	304	169	319	233	23	
200	154	354	169	369	283	24	
250	154	404	189	439	353	25	
300	154	454	189	489	403	26	
350	154	504	189	539	453	27	
400	154	554	189	589	503	28	
450	154	604	209	659	573	29	
500	154	654	209	709	623	30	
550	154	704	209	759	673	31	
600	154	754	209	809	723	32	
650	154	804	229	879	793	33	
700	154	854	229	929	843	34	
800	154	954	229	1029	943	36	
1000	154	1154	249	1249	1163	40	
1200	154	1354	264	1464	1399	44	
1500	154	1654	289	1789	1724	50	

行程(mm) Stroke	DM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	57	107	133	21
100	42	142	57	157	183	22
150	42	192	57	207	233	23
200	42	242	57	257	283	24
250	42	292	77	327	353	25
300	42	342	77	377	403	26
350	42	392	77	427	453	27
400	42	442	77	477	503	28
450	42	492	97	547	573	29
500	42	542	97	597	623	30
550	42	592	97	647	673	31
600	42	642	97	697	723	32
650	42	692	117	767	793	33
700	42	742	117	817	843	34
800	42	842	117	917	943	36
1000	42	1042	137	1137	1163	40
1200	42	1242	152	1352	1399	44
1500	42	1542	177	1677	1724	50

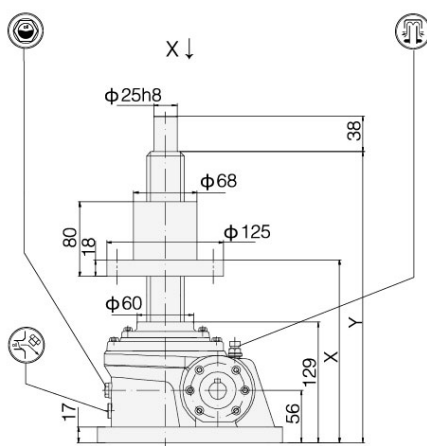
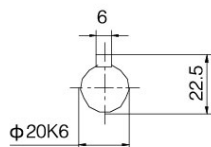
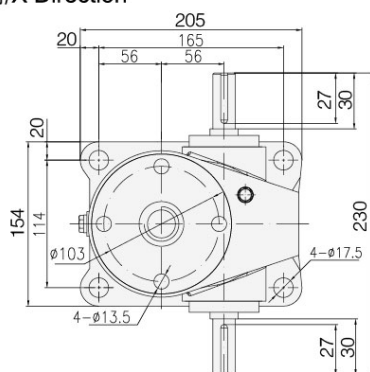


注: X⁽¹⁾ 加防尘罩尺寸。

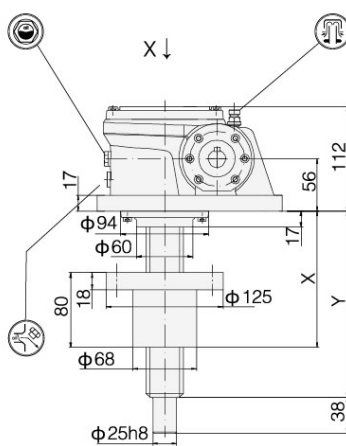
Note: X⁽¹⁾ dimension with dust-proof cover.



X向/X Direction



JWM050 UR

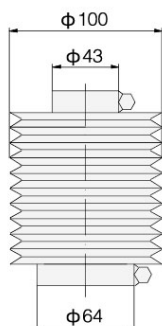


JWM050 DR

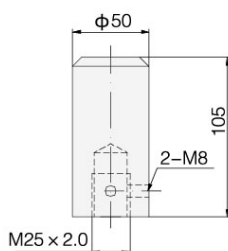
行程(mm) Stroke	UR			
	X		Y	m(kg)
	MIN	MAX		
50	157	207	280	22
100	157	157	330	22
150	157	307	380	22
200	157	375	430	22
250	157	407	480	23
300	157	457	530	23
350	157	507	580	24
400	157	557	630	24
450	157	607	680	25
500	157	657	730	25
550	157	707	780	26
600	157	757	830	26
650	157	807	880	27
700	157	857	930	27
800	157	957	1030	27
1000	157	1157	1230	29
1200	157	1357	1430	30
1500	157	1657	1657	33

行程(mm) Stroke	DR			
	X		Y	m(kg)
	MIN	MAX		
50	107	157	168	22
100	107	207	218	22
150	107	257	268	22
200	107	307	318	22
250	107	357	368	23
300	107	407	418	23
350	107	457	468	24
400	107	507	518	24
450	107	557	568	25
500	107	607	618	25
550	107	657	668	26
600	107	707	718	26
650	107	757	768	27
700	107	807	818	27
800	107	907	918	27
1000	107	1107	1118	29
1200	107	1307	1318	30
1500	107	1507	1518	33

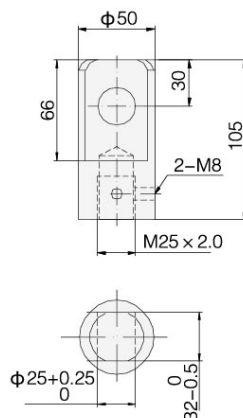
附件/Accessories



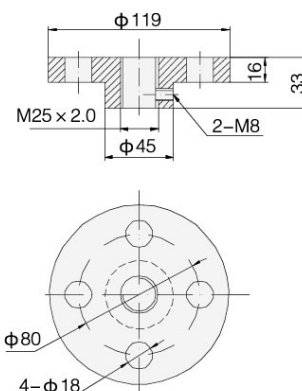
J



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外形尺寸:

JWM100

Outline Dimension:

行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	161	211	171	221	101	26
100	161	261	171	271	151	27
150	161	311	171	321	202	28
200	161	361	171	371	252	29
250	161	411	186	436	316	31
300	161	461	186	486	366	32
350	161	511	186	536	416	33
400	161	561	186	586	466	34
450	161	611	211	661	541	36
500	161	661	211	711	591	37
550	161	711	211	761	641	39
600	161	761	211	811	691	40
650	161	811	226	875	756	42
700	161	861	226	926	806	43
800	161	961	226	1026	906	45
1000	161	1161	236	1236	1116	50
1200	161	1361	261	1461	1341	56
1500	161	1661	286	1786	1666	63

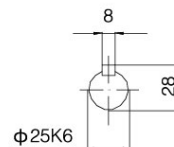
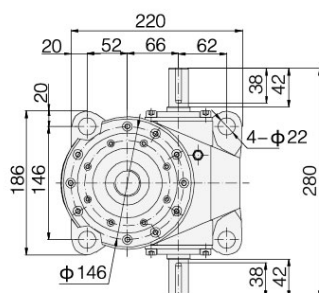
行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	52	102	101	26
100	42	142	52	152	151	27
150	42	192	52	202	202	28
200	42	242	52	252	252	29
250	42	292	67	317	316	31
300	42	342	67	367	366	32
350	42	392	67	417	416	33
400	42	442	67	467	466	34
450	42	492	92	542	541	36
500	42	542	92	592	591	37
550	42	592	92	642	641	39
600	42	642	92	692	691	40
650	42	692	107	757	756	42
700	42	742	107	807	806	43
800	42	842	107	907	906	45
1000	42	1042	117	1117	1116	50
1200	42	1242	142	1342	1341	56
1500	42	1542	167	1667	1666	63

行程(mm) Stroke	UM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	161	211	171	221	130	29
100	161	261	171	271	180	30
150	161	311	171	321	232	31
200	161	361	171	371	282	32
250	161	411	186	436	346	34
300	161	461	186	486	396	35
350	161	511	186	536	446	36
400	161	561	186	586	496	37
450	161	611	211	661	571	39
500	161	661	211	711	621	40
550	161	711	211	761	671	42
600	161	761	211	811	721	43
650	161	811	226	875	786	45
700	161	861	226	926	836	46
800	161	961	226	1026	936	48
1000	161	1161	236	1236	1146	53
1200	161	1361	261	1461	1371	58
1500	161	1661	286	1786	1707	66

行程(mm) Stroke	DM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	52	102	130	29
100	42	142	52	152	180	30
150	42	192	52	202	232	31
200	42	242	52	252	282	32
250	42	292	67	317	346	34
300	42	342	67	367	396	35
350	42	392	67	417	446	36
400	42	442	67	467	496	37
450	42	492	92	542	571	39
500	42	542	92	592	621	40
550	42	592	92	642	671	42
600	42	642	92	692	721	43
650	42	692	107	757	786	45
700	42	742	107	807	836	46
800	42	842	107	907	936	48
1000	42	1042	117	1117	1146	53
1200	42	1242	142	1342	1371	58
1500	42	1542	167	1667	1707	66

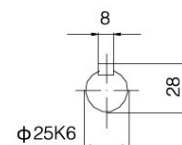
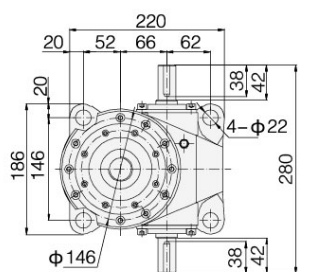
注: X⁽¹⁾ 加防尘罩尺寸。

X向/X Direction



JWM100 US

X向/X Direction



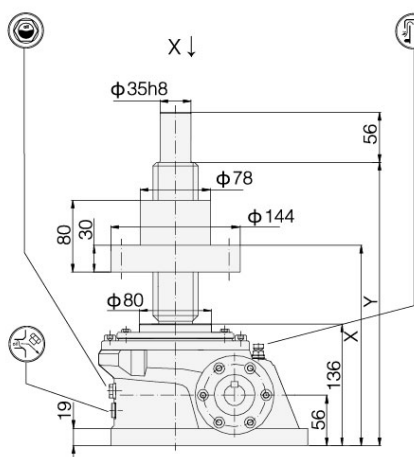
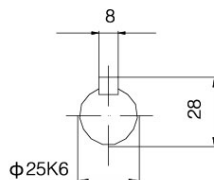
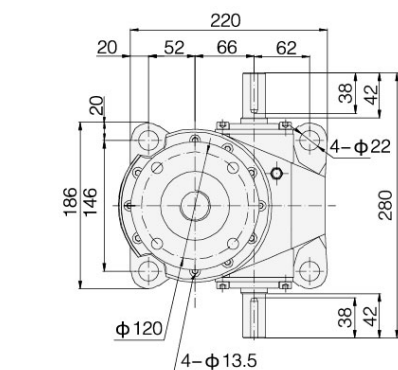
JWM100 UM

JWM100 DM

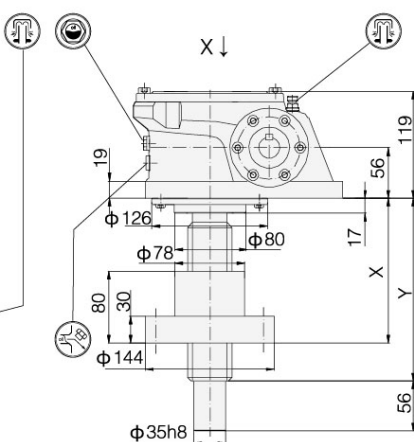
Note: X⁽¹⁾ dimension with dust-proof cover.



X向/X Direction



JWM100 UR

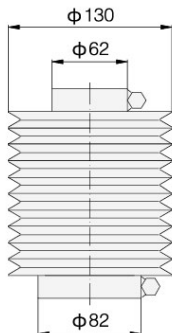


JWM100 DR

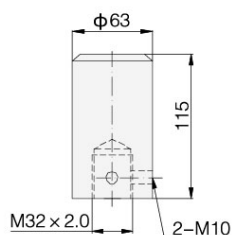
行程(mm) Stroke	UR			
	X		Y	m(kg)
	MIN	MAX		
50	177	227	287	32
100	177	277	337	32
150	177	327	387	33
200	177	377	437	33
250	177	427	487	34
300	177	477	537	34
350	177	527	587	35
400	177	577	637	36
450	177	627	687	37
500	177	677	737	37
550	177	727	787	38
600	177	777	837	38
650	177	827	887	39
700	177	877	937	40
800	177	977	1037	41
1000	177	1177	1237	43
1200	177	1377	1437	45
1500	177	1677	1737	49

行程(mm) Stroke	DR			
	X		Y	m(kg)
	MIN	MAX		
50	115	165	175	32
100	115	215	225	32
150	115	265	275	33
200	115	315	325	33
250	115	365	375	34
300	115	415	425	34
350	115	465	475	35
400	115	515	525	36
450	115	565	575	37
500	115	615	625	37
550	115	665	675	38
600	115	715	725	38
650	115	765	775	39
700	115	815	825	40
800	115	915	925	41
1000	115	1115	1125	43
1200	115	1315	1325	45
1500	115	1615	1625	49

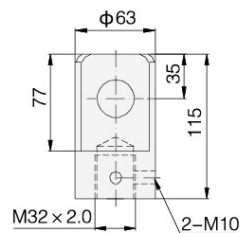
附件/Accessories



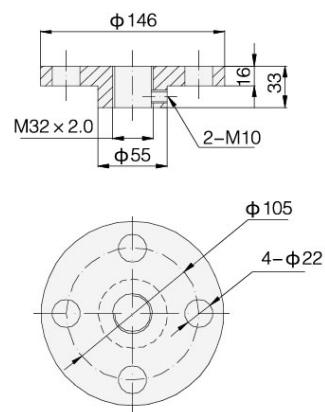
J



B



I



M



外形尺寸:

JWM150

Outline Dimension:

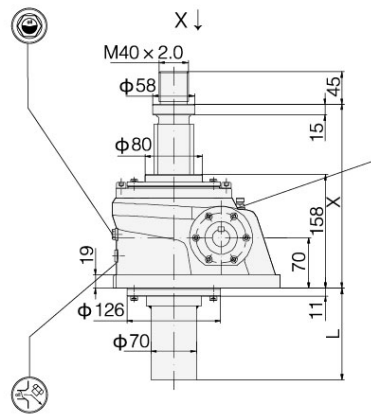
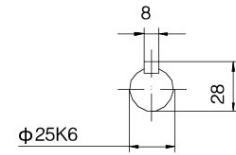
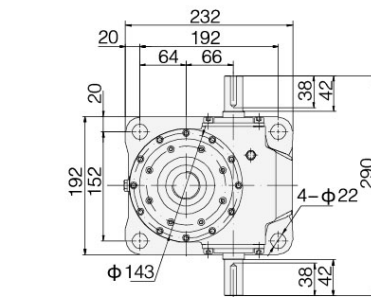
行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	183	233	193	243	101	32
100	183	283	193	293	151	33
150	183	333	193	343	202	34
200	183	383	193	393	252	35
250	183	433	208	458	316	37
300	183	483	208	508	366	38
350	183	533	208	558	416	39
400	183	583	208	608	466	41
450	183	633	233	683	541	44
500	183	683	233	733	591	45
550	183	733	233	783	641	46
600	183	783	233	833	691	47
650	183	833	248	898	756	49
700	183	883	248	948	806	50
800	183	983	248	1048	906	53
1000	183	1183	258	1258	1116	59
1200	183	1383	283	1483	1341	65
1500	183	1683	308	1808	1666	74

行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	52	102	101	32
100	42	142	52	152	151	33
150	42	192	52	202	202	34
200	42	242	52	252	252	35
250	42	292	67	317	316	37
300	42	342	67	367	366	38
350	42	392	67	417	416	39
400	42	442	67	467	466	41
450	42	492	92	542	541	44
500	42	542	92	592	591	45
550	42	592	92	642	641	46
600	42	642	92	692	691	47
650	42	692	107	757	756	49
700	42	742	107	807	806	50
800	42	842	107	907	906	53
1000	42	1042	117	1117	1116	59
1200	42	1242	142	1342	1341	65
1500	42	1542	167	1667	1666	74

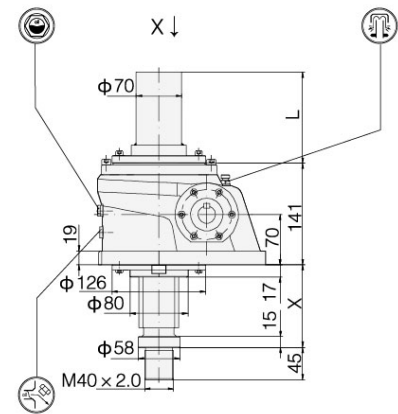
行程(mm) Stroke	UM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	183	233	193	243	130	36
100	183	283	193	293	180	37
150	183	333	193	343	232	38
200	183	383	193	393	282	40
250	183	433	208	458	346	42
300	183	483	208	508	396	43
350	183	533	208	558	446	44
400	183	583	208	608	496	46
450	183	633	233	683	571	48
500	183	683	233	733	621	49
550	183	733	233	783	671	50
600	183	783	233	833	721	52
650	183	833	248	898	786	54
700	183	883	248	948	836	56
800	183	983	248	1048	936	58
1000	183	1183	258	1258	1146	64
1200	183	1383	283	1483	1371	69
1500	183	1683	308	1808	1707	78

行程(mm) Stroke	DM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
50	42	92	52	102	130	36
100	42	142	52	152	180	37
150	42	192	52	202	232	38
200	42	242	52	252	282	40
250	42	292	67	317	346	42
300	42	342	67	367	396	43
350	42	392	67	417	446	44
400	42	442	67	467	496	46
450	42	492	92	542	571	48
500	42	542	92	592	621	49
550	42	592	92	642	671	50
600	42	642	92	692	721	52
650	42	692	107	757	786	54
700	42	742	107	807	836	56
800	42	842	107	907	936	58
1000	42	1042	117	1117	1146	64
1200	42	1242	142	1342	1371	69
1500	42	1542	167	1667	1707	78

X向/X Direction

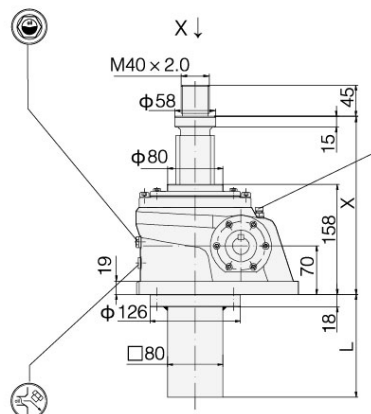
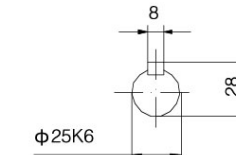
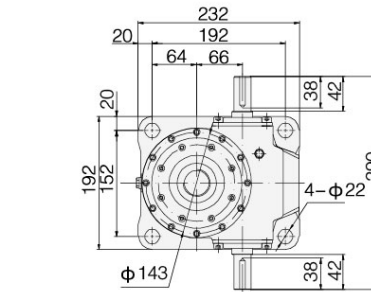


JWM150 US

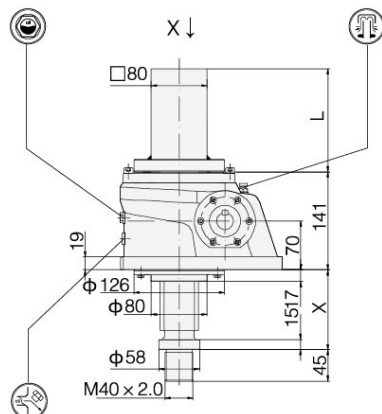


JWM150 DS

X向/X Direction



JWM150 UM



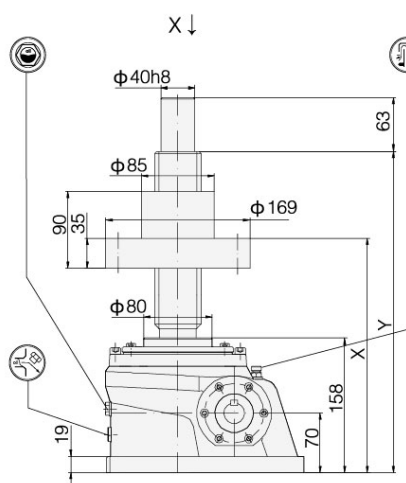
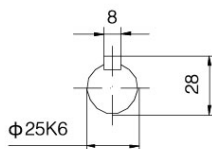
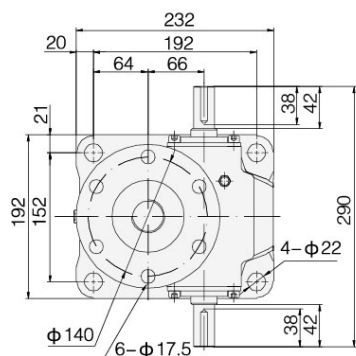
JWM150 DM

注: X⁽¹⁾ 加防尘罩尺寸。

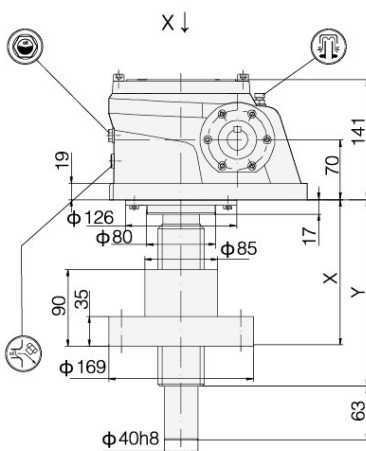
Note: X⁽¹⁾ dimension with dust-proof cover.



X向/X Direction



JWM150 UR

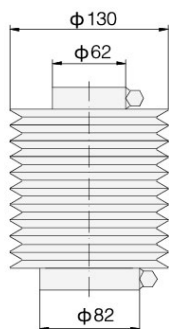


JWM150 DR

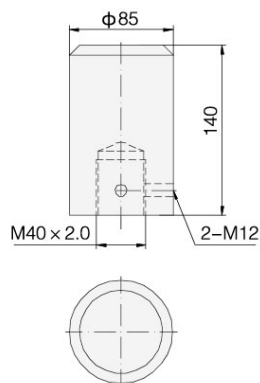
行程(mm) Stroke	UR			
	X		Y	m(kg)
	MIN	MAX		
50	204	254	319	39
100	204	304	369	40
150	204	354	419	41
200	204	404	469	42
250	204	454	519	42.5
300	204	504	569	43
350	204	554	619	44
400	204	604	669	45
450	204	654	719	45.5
500	204	704	769	46
550	204	754	819	47
600	204	804	869	48
650	204	854	919	49
700	204	904	969	50
800	204	1004	1069	51
1000	204	1204	1269	54
1200	204	1404	1469	57
1500	204	1704	1769	61

行程(mm) Stroke	DR			
	X		Y	m(kg)
	MIN	MAX		
50	119	169	179	39
100	119	219	229	40
150	119	269	279	41
200	119	319	329	42
250	119	369	379	42.5
300	119	419	429	43
350	119	469	479	44
400	119	519	529	45
450	119	569	579	45.5
500	119	619	629	46
550	119	669	679	47
600	119	719	729	48
650	119	769	779	49
700	119	819	829	50
800	119	919	929	51
1000	119	1119	1129	54
1200	119	1319	1329	57
1500	119	1619	1629	61

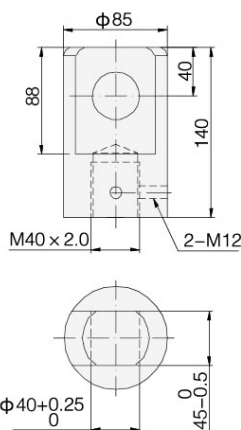
附件/Accessories



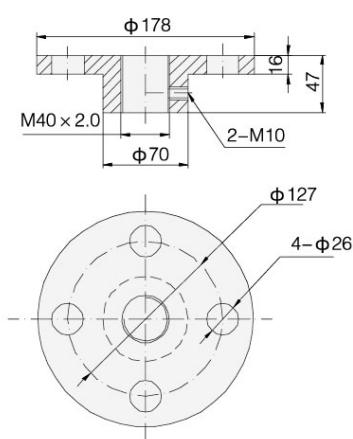
J



B



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外形尺寸:

JWM200

Outline Dimension:

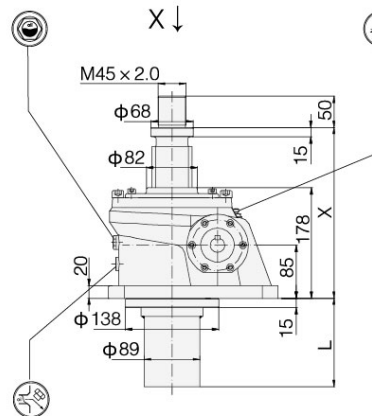
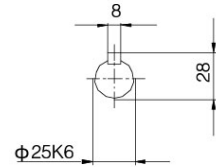
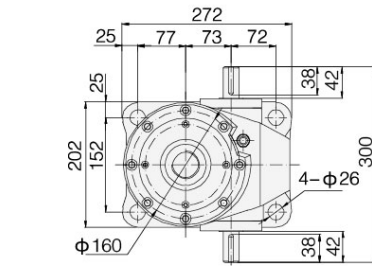
行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	203	303	213	313	151	42
150	203	353	213	363	202	43
200	203	403	213	413	252	45
250	203	453	228	478	316	47
300	203	503	228	528	366	49
350	203	553	228	578	416	51
400	203	603	228	628	466	53
450	203	653	253	703	541	55
500	203	703	253	753	591	57
550	203	753	253	803	641	59
600	203	803	253	853	691	60
650	203	853	268	918	756	62
700	203	903	268	968	806	64
800	203	1003	268	1068	906	67
1000	203	1203	278	1278	1116	74
1200	203	1403	303	1503	1341	81
1500	203	1703	328	1828	1666	92
2000	203	2203	373	2373	2211	109

行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	151	42
150	42	192	52	202	202	43
200	42	242	52	252	252	45
250	42	292	67	317	316	47
300	42	342	67	367	366	49
350	42	392	67	417	416	51
400	42	442	67	467	466	53
450	42	492	92	542	541	55
500	42	542	92	592	591	57
550	42	592	92	642	641	59
600	42	642	92	692	691	60
650	42	692	107	757	756	62
700	42	742	107	807	806	64
800	42	842	107	907	906	67
1000	42	1042	117	1117	1116	74
1200	42	1242	142	1342	1341	81
1500	42	1542	167	1667	1666	92
2000	42	2042	212	2212	2211	109

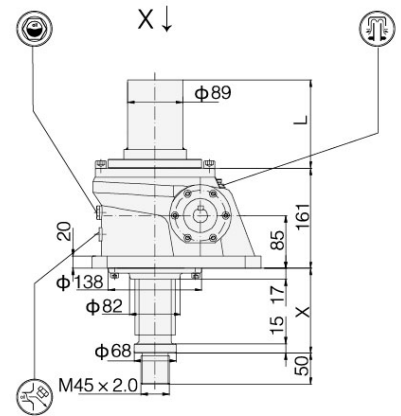
行程(mm) Stroke	UM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	203	303	213	313	170	51
150	203	353	213	363	220	53
200	203	403	213	413	270	55
250	203	453	228	478	335	57
300	203	503	228	528	385	58
350	203	553	228	578	435	60
400	203	603	228	628	485	62
450	203	653	253	703	560	64
500	203	703	253	753	610	66
550	203	753	253	803	660	68
600	203	803	253	853	710	70
650	203	853	268	918	775	72
700	203	903	268	968	825	74
800	203	1003	268	1068	925	76
1000	203	1203	278	1278	1135	83
1200	203	1403	303	1503	1360	90
1500	203	1703	328	1828	1686	100
2000	203	2203	373	2373	2231	118

行程(mm) Stroke	DM					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	42	142	52	152	170	51
150	42	192	52	202	220	53
200	42	242	52	252	270	55
250	42	292	67	317	335	57
300	42	342	67	367	385	58
350	42	392	67	417	435	60
400	42	442	67	467	485	62
450	42	492	92	542	560	64
500	42	542	92	592	610	66
550	42	592	92	642	660	68
600	42	642	92	692	710	70
650	42	692	107	757	775	72
700	42	742	107	807	825	74
800	42	842	107	907	925	76
1000	42	1042	117	1117	1135	83
1200	42	1242	142	1342	1360	90
1500	42	1542	167	1667	1686	100
2000	42	2042	212	2212	2231	118

X向/X Direction

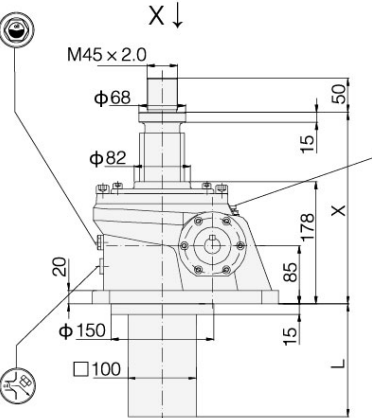
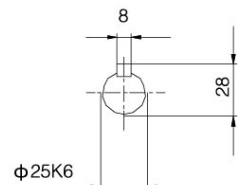
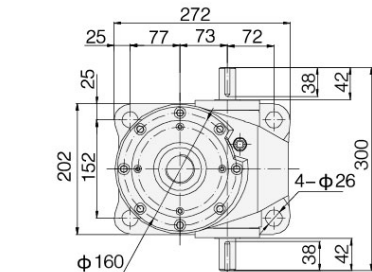


JWM200 US

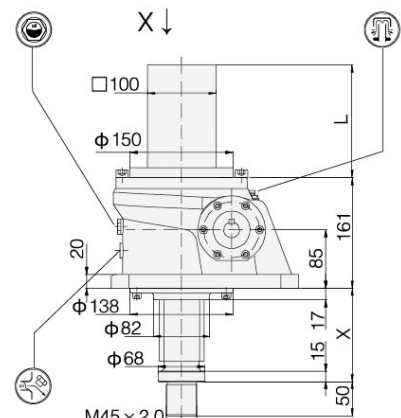


JWM200 DS

X向/X Direction



JWM200 UM



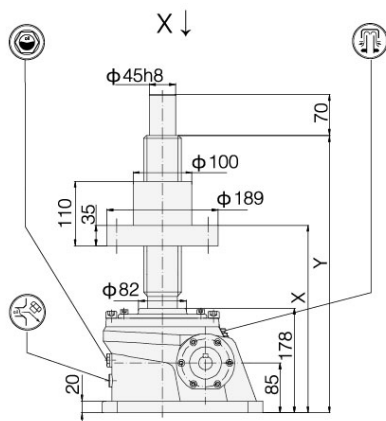
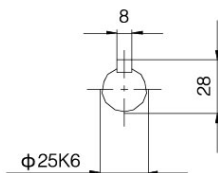
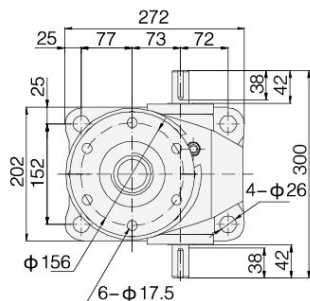
JWM200 DM

注: X⁽¹⁾ 加防尘罩尺寸。

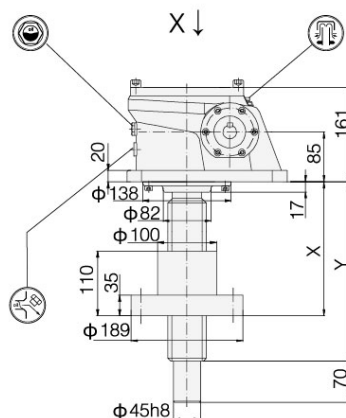
Note: X⁽¹⁾ dimension with dust-proof cover.



X向/X Direction



JWM200 UR

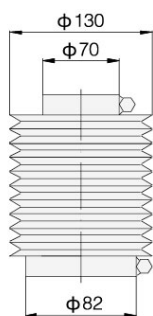


JWM200 DR

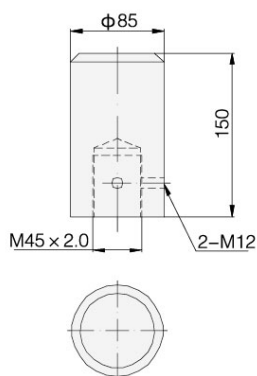
行程(mm) Stroke	UR			
	X		Y	m(kg)
	MIN	MAX		
100	232	332	417	56
150	232	382	467	57
200	232	432	517	58
250	232	482	567	59
300	232	532	617	60
350	232	582	667	61
400	232	632	717	62
450	232	682	767	63
500	232	732	817	64
550	232	782	867	65
600	232	832	917	66
650	232	882	967	67
700	232	932	1017	68
800	232	1032	1117	71
1000	232	1232	1317	75
1200	232	1432	1517	79
1500	232	1732	1817	85
2000	232	2232	2317	96

行程(mm) Stroke	DR			
	X		Y	m(kg)
	MIN	MAX		
100	137	237	247	56
150	137	287	297	57
200	137	337	347	58
250	137	387	397	59
300	137	437	447	60
350	137	487	497	61
400	137	537	547	62
450	137	587	597	63
500	137	637	647	64
550	137	687	697	65
600	137	737	747	66
650	137	787	797	67
700	137	837	847	68
800	137	937	947	71
1000	137	1137	1147	75
1200	137	1337	1347	79
1500	137	1637	1647	85
2000	137	2137	2147	96

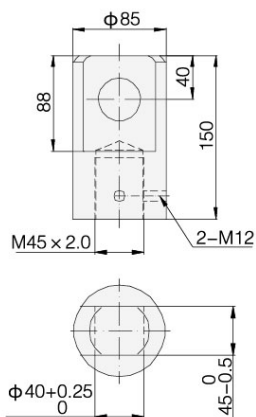
附件/Accessories



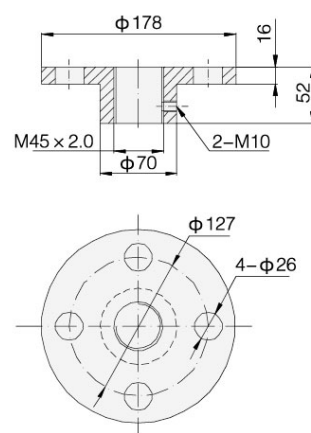
J



B



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外形尺寸:

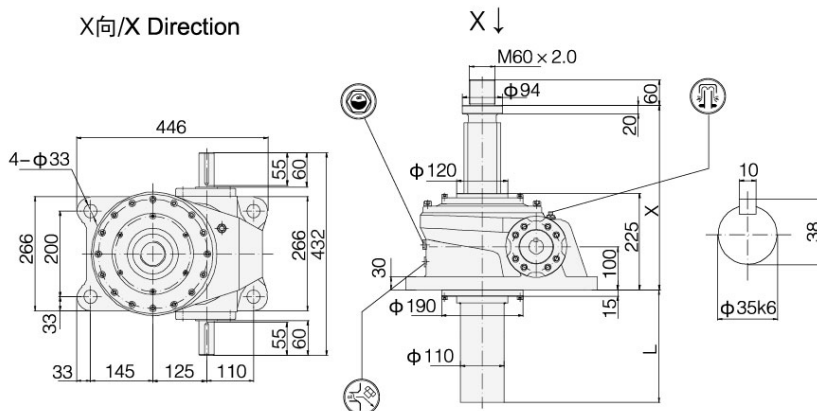
JWM300

Outline Dimension:

行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	1255	355	265	365	160	118
150	255	405	265	415	210	120
200	255	455	265	465	260	123
250	255	505	280	530	325	126
300	255	555	280	580	375	128
350	255	605	280	630	425	131
400	255	655	280	680	475	134
450	255	705	295	745	540	137
500	255	755	295	795	590	139
550	255	805	295	845	640	142
600	255	855	295	895	690	145
650	255	905	310	960	755	148
700	255	955	310	1010	805	151
800	255	1055	310	1110	905	155
1000	255	1255	330	1330	1125	167
1200	255	1455	340	1540	1335	177
1500	255	1755	365	1865	1660	194
2000	255	2255	400	2400	2195	221

JWM300 US

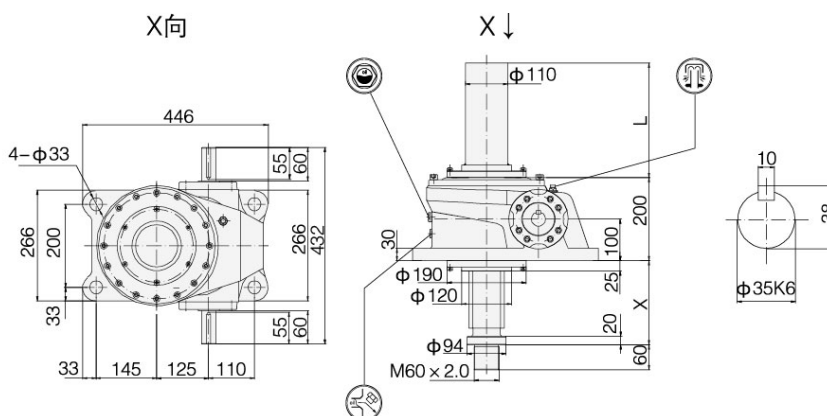
X向/X Direction



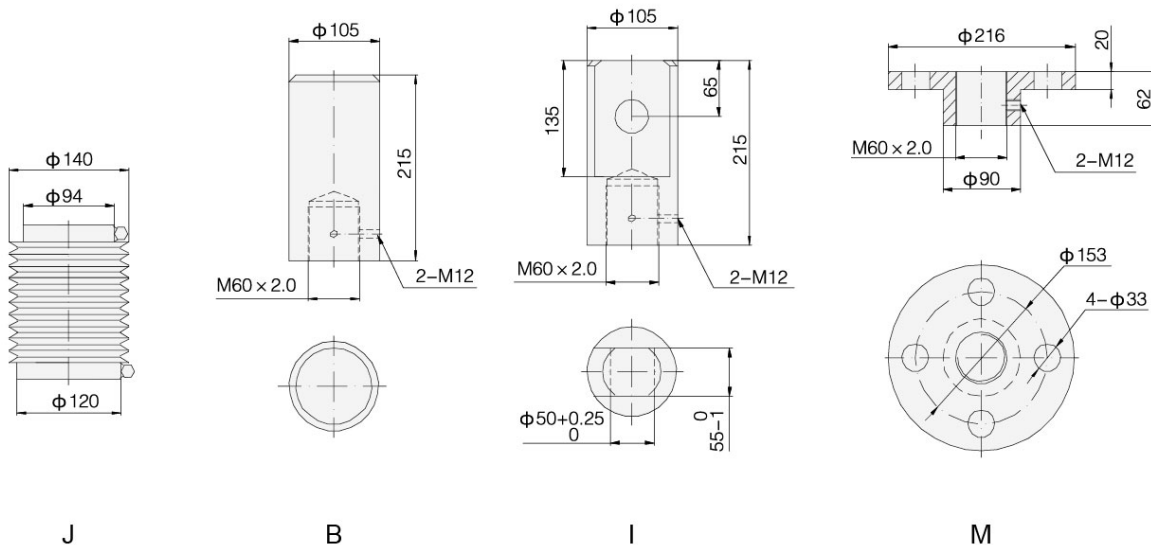
行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	55	155	65	165	160	118
150	55	205	65	215	210	120
200	55	255	65	265	260	123
250	55	305	80	330	325	126
300	55	355	80	380	375	128
350	55	405	80	430	425	131
400	55	455	80	480	475	134
450	55	505	95	545	540	137
500	55	555	95	595	590	139
550	55	605	95	645	640	142
600	55	655	95	695	690	145
650	55	705	110	760	755	148
700	55	755	110	810	805	151
800	55	855	110	910	905	155
1000	55	1055	130	1130	1125	167
1200	55	1255	140	1340	1335	177
1500	55	1555	165	1665	1660	194
2000	55	2055	200	2200	2195	221

JWM300 DS

X向



附件/Accessories



 注: X⁽¹⁾ 加防尘罩尺寸。

Note: X⁽¹⁾ dimension with dust-proof cover.



外形尺寸:

Outline Dimension:

JWM500

JWM500 US		US					
		行程(mm) Stroke	X		X ⁽¹⁾		L
			MIN	MAX	MIN	MAX	
100			315	415	320	420	165
200			315	515	320	520	265
300			315	615	340	640	385
400			315	715	340	740	485
500			315	815	350	850	595
600			315	915	350	950	695
800			315	1115	365	1165	910
1000			315	1315	380	1380	1125
1200			315	1515	390	1590	1335
1500			315	1815	410	1910	1665
2000			315	2315	445	2445	2190

JWM500 DS		DS					
		行程(mm) Stroke	X		X ⁽¹⁾		L
			MIN	MAX	MIN	MAX	
100			54	154	59	159	165
200			54	254	59	259	265
300			54	354	79	379	385
400			54	454	79	479	485
500			54	554	89	589	595
600			54	654	89	689	695
800			54	854	104	904	910
1000			54	1054	119	1119	1125
1200			54	1254	129	1329	1335
1500			54	1554	149	1649	1665
2000			54	2054	184	2184	2190

附件/Accessories							
		J		B		I	
		MIN	MAX	MIN	MAX	MIN	MAX
100		170	200	150	185	70	85
200		170	200	150	185	70	85
300		170	200	150	185	70	85
400		170	200	150	185	70	85
500		170	200	150	185	70	85
600		170	200	150	185	70	85
800		170	200	150	185	70	85
1000		170	200	150	185	70	85
1200		170	200	150	185	70	85
1500		170	200	150	185	70	85
2000		170	200	150	185	70	85



外形尺寸:

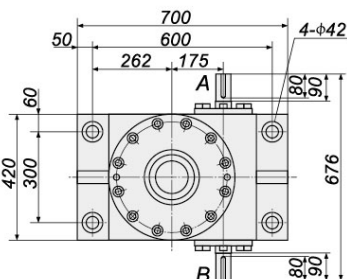
JWM750

Outline Dimension:

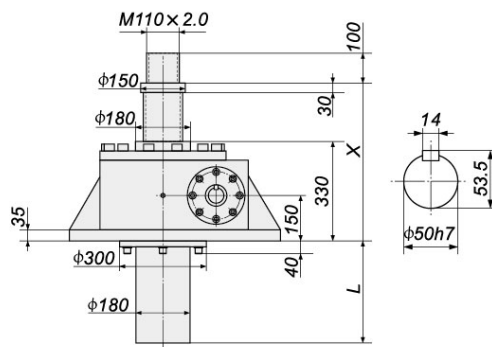
行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	370	470	380	480	165	370
200	370	570	380	580	265	384
300	370	670	395	695	385	401
400	370	770	395	795	485	415
500	370	870	410	910	595	431
600	370	970	410	1010	695	445
800	370	1170	425	1225	910	476
1000	370	1370	435	1435	1125	506
1200	370	1570	450	1650	1335	536
1500	370	1870	465	1965	1665	581
2000	370	2370	500	2500	2190	657

JWM750 US

X向/X Direction



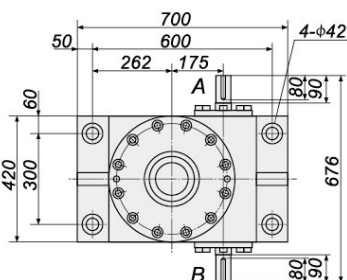
X ↓



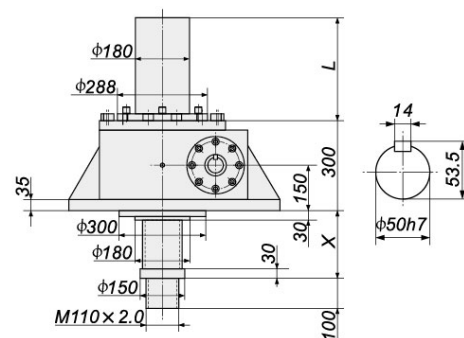
行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	70	170	80	180	165	370
200	70	270	80	280	265	384
300	70	370	95	395	385	401
400	70	470	95	495	485	415
500	70	570	110	610	595	431
600	70	670	110	710	695	445
800	70	870	125	925	910	476
1000	70	1070	135	1135	1125	506
1200	70	1270	150	1350	1335	536
1500	70	1570	165	1665	1665	581
2000	70	2070	200	2200	2190	657

JWM750 DS

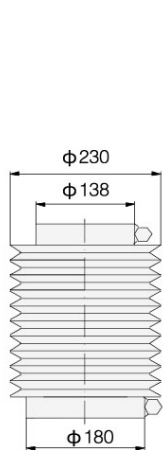
X向



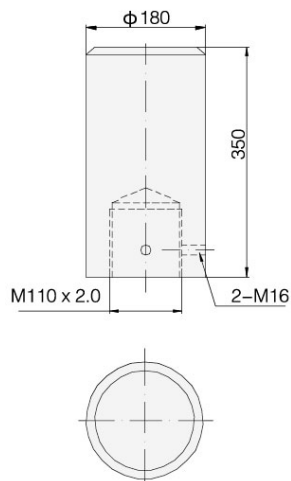
X ↓



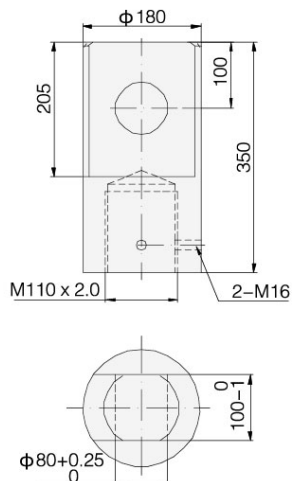
附件/Accessories



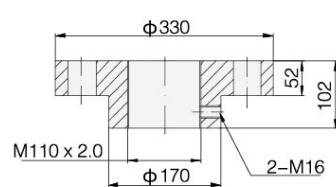
J



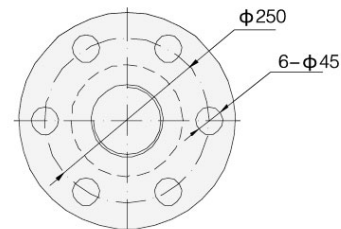
B



I



M



注: X⁽¹⁾ 加防尘罩尺寸。

Note: X⁽¹⁾ dimension with dust-proof cover.



外形尺寸:

JWM1000

Outline Dimension:

JWM1000 US

X向/X Direction

X↓

行程(mm) Stroke	US					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	450	550	460	560	165	748
200	450	650	460	660	265	766
300	450	750	475	775	385	787
400	450	850	475	875	485	805
500	450	950	485	985	595	824
600	450	1050	485	1085	695	842
800	450	1250	500	1300	910	881
1000	450	1450	510	1510	1125	918
1200	450	1650	525	1725	1335	957
1500	450	1950	545	2045	1665	1014
2000	450	2450	575	2575	2190	1109

JWM1000 DS

X向

X↓

行程(mm) Stroke	DS					
	X		X ⁽¹⁾		L	m(kg)
	MIN	MAX	MIN	MAX		
100	70	170	80	180	165	748
200	70	270	80	280	265	766
300	70	370	95	395	385	787
400	70	470	95	495	485	805
500	70	570	105	605	595	824
600	70	670	105	705	695	842
800	70	870	120	920	910	881
1000	70	1070	130	1130	1125	918
1200	70	1270	145	1345	1335	957
1500	70	1570	165	1665	1665	1014
2000	70	2070	195	2195	2190	1109

附件/Accessories

J

B

I

M

JW



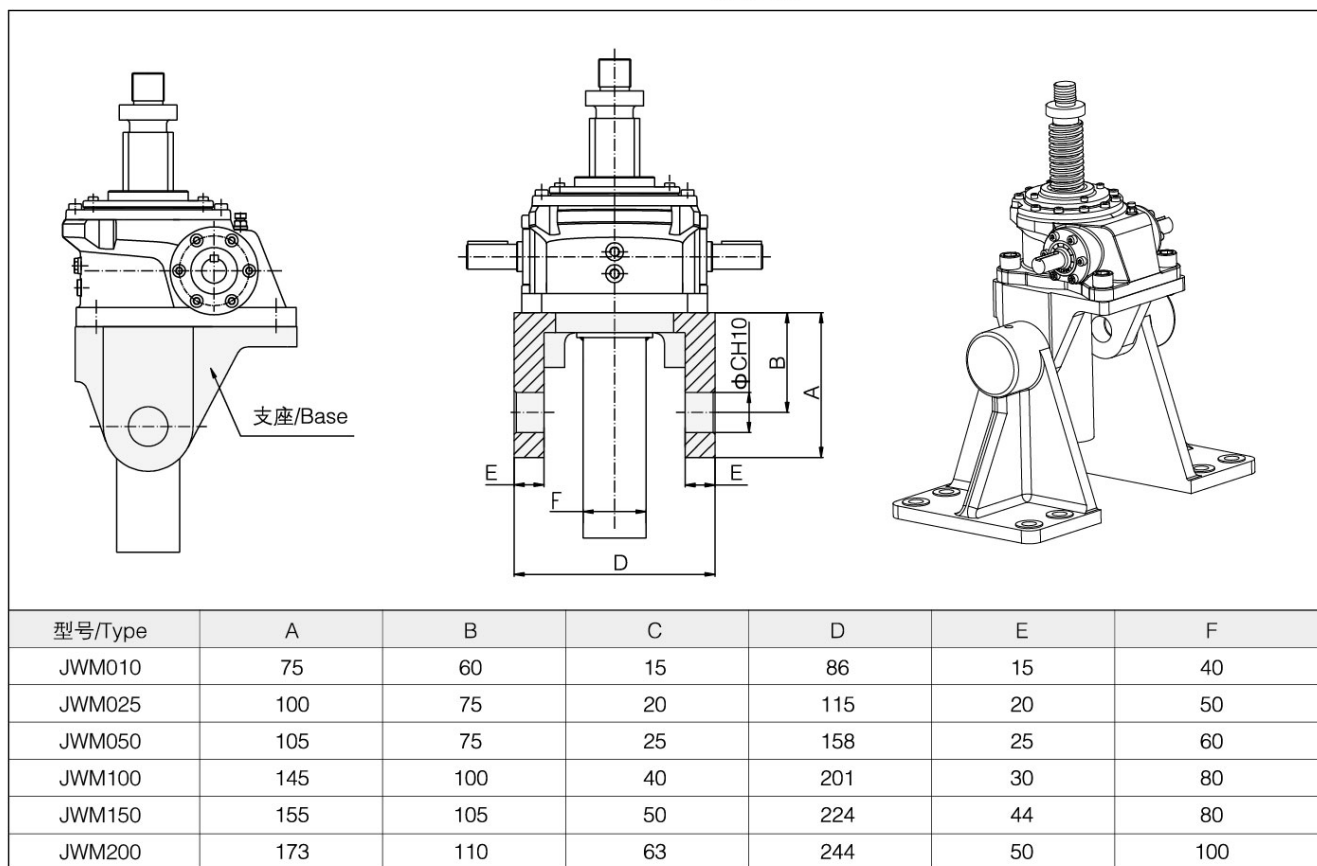
附件: 支座

支座安装广泛应用于开关装置、倾斜装置。如图:

Attachment:

Base

Bases are widely used in switching and inclining devices.

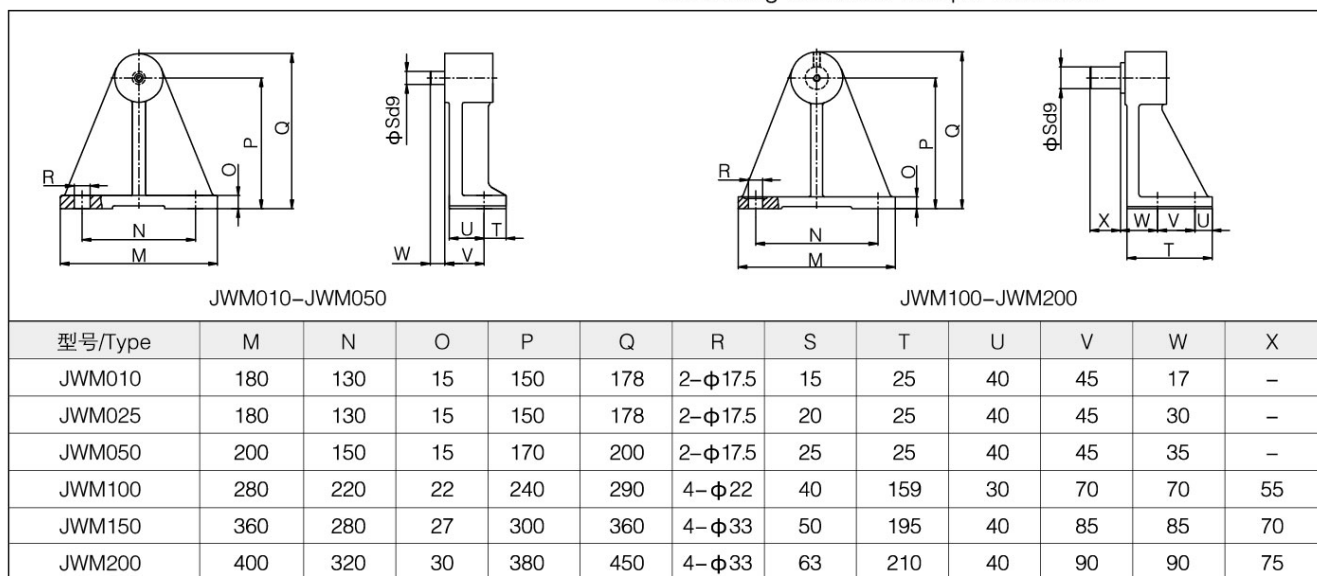


支架

支座与支架配合，实现多方位升降。

Support legs

Bases and support legs are often used together to make lifting function in multiple directions.





手轮盘:

此件只适应于JWM型工作在冲击、振动不大的场合，
请不要应用在JWB结构中。
手动操作扭矩=所需输入扭矩/手轮操作盘半径

Hand wheel:

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

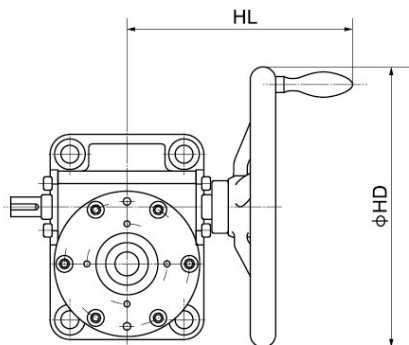
型号表示:

JWM025US-H200MI

升降机型号 (见185页)
Refer to 185页

NV100

手轮盘型号
Hand wheel mode



尺寸表:

Dimension sheet:

(mm)

型 号 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

注：手轮为外购件，以定货时实物尺寸为准。

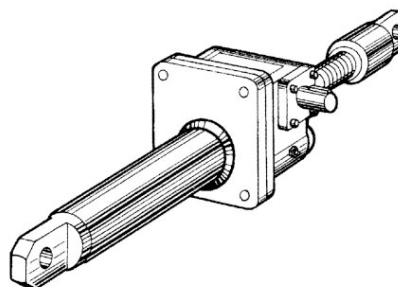
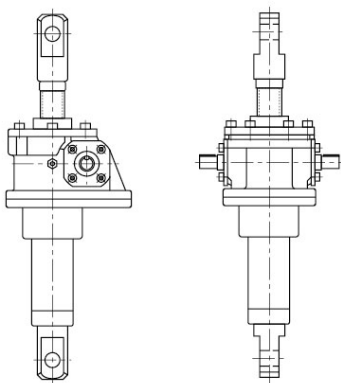
Note: The dimension of hand wheel is subject to product
purchased from other factories.

双头输出:

适用于开闭装置、反转装置。

Double end output:

Apply to open and close devices, reversing devices.





组合型式:

电机直联:

型号表示 Illustration of types:

JWM050US-H200MI

- Y -

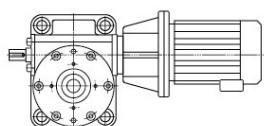
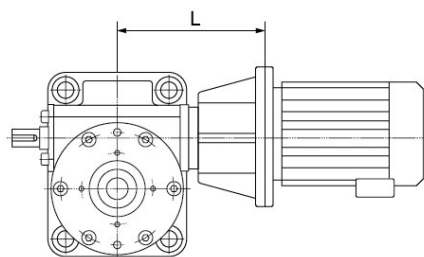
0.55

- A

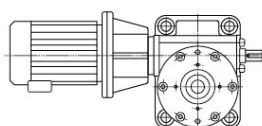
升降机型号 (见185页)
Refer to 185页电机代号
Motor mode电机功率
Motor power配置形式
Combination

Combination of JW series:

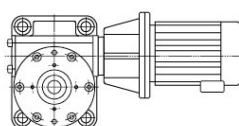
Direct-connected-motor:



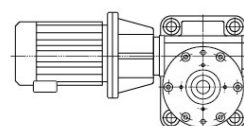
A



B



C



D

型号	JWM010				JWM025						JWM050					
电机功率 (kW) Motor Power	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					

型号	JWM100						JWM150						JWM200					
电机功率 (kW) Motor Power	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					

注: 1. 电机功率的选择应符合传动能力表;
2. 表中所列功率为4极电机功率;
3. 当与所联电机为6极或标有“*”的电机为变频、制动时, 因电机过重, 应选择带有底脚安装的电机。

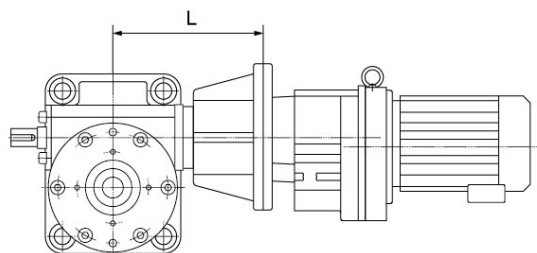
Note: 1. Motor power must accord with JM basic parameter table.
2. 4-pole motor power are available in the table.
3. 6-pole motors or “*” frequency conversion and braking motors should be foot-mounted for their heavy weight.

与减速电机组合式 Combination with gear motor:

型号表示 Illustration of types:

JWM050US-H200MI - R37-5-Y-0.55

- A

见185页
Refer to 185页见减速机表示方法
Illustration of the gear motor配置形式
Combination

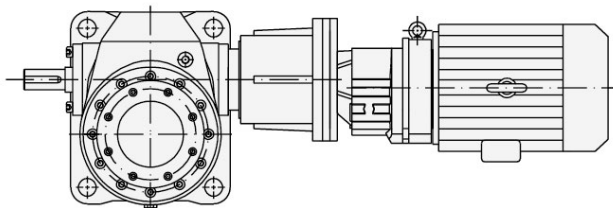
注: 当直联的减速电机重量过重时, 请咨询我司。

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

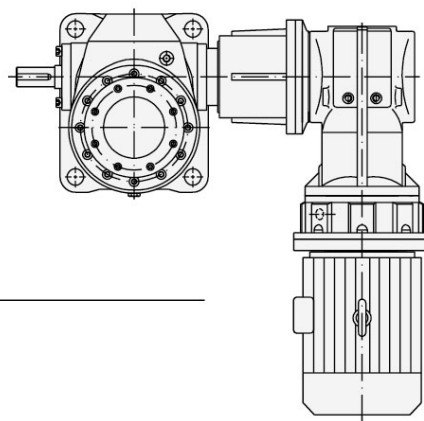


组合型（敬请垂询）

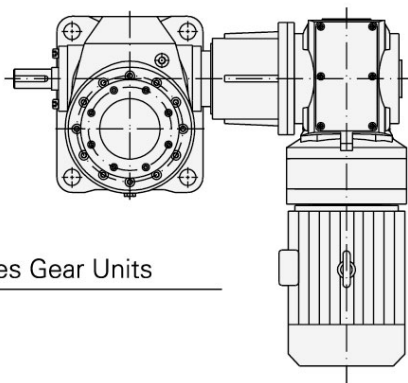
Combined-type (Please Consult)



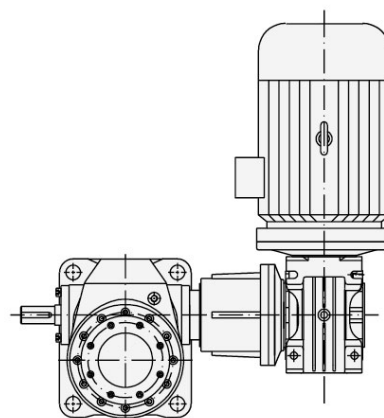
JWM接R组合型/JWM+R Series Gear Units



JWM接K组合型/JWM+K Series Gear Units



JWM接S组合型/JWM+S Series Gear Units

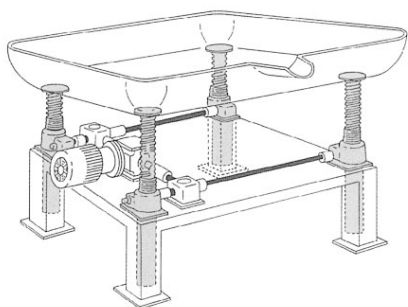


JWM接R组合型/JWM+R Series Gear Units

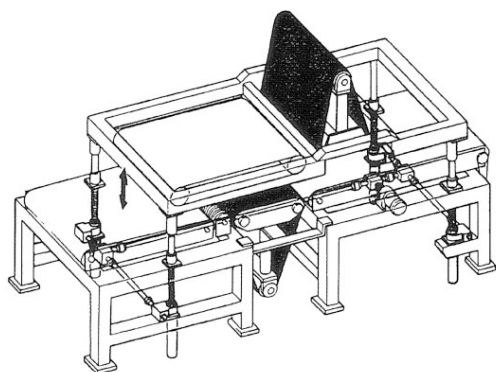
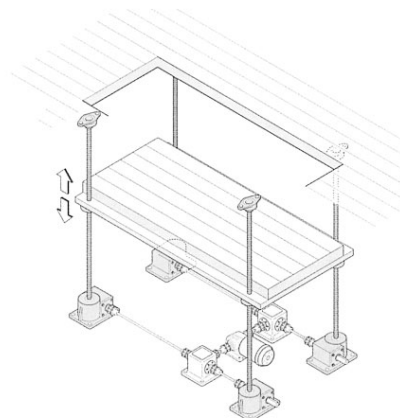


应用举例

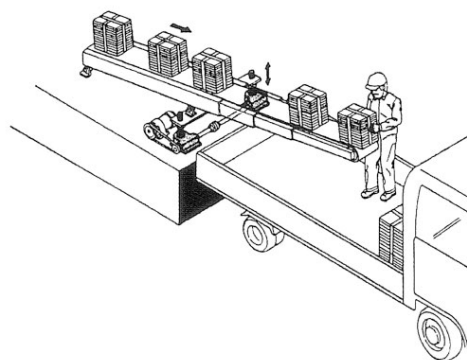
Application example:



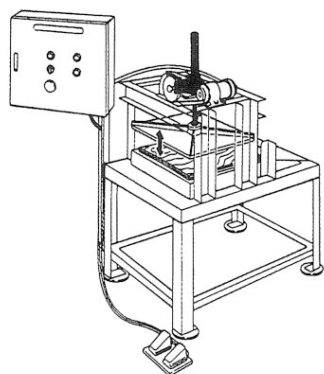
平台升降
Ascending and descending of flat slab



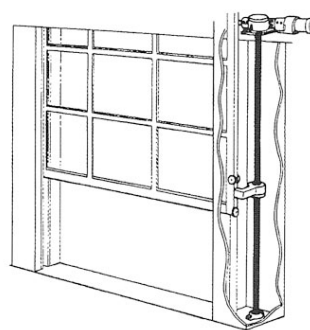
调整表面加工机的工作高度
Adjust operation height of surface machining tool



调整滑动传送带的倾斜程度
Adjust inclination pitch of conveyer apron



更改校正器的作业高度
Operation height of straightening machine



大型窗户（门）自动开关
Automatic switch on large windows (doors)