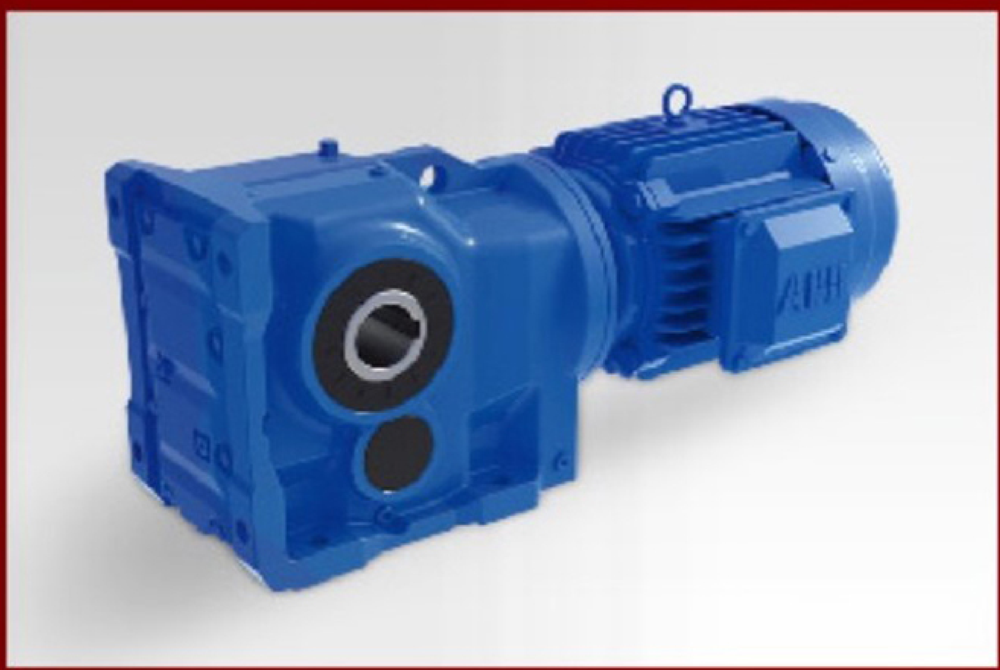
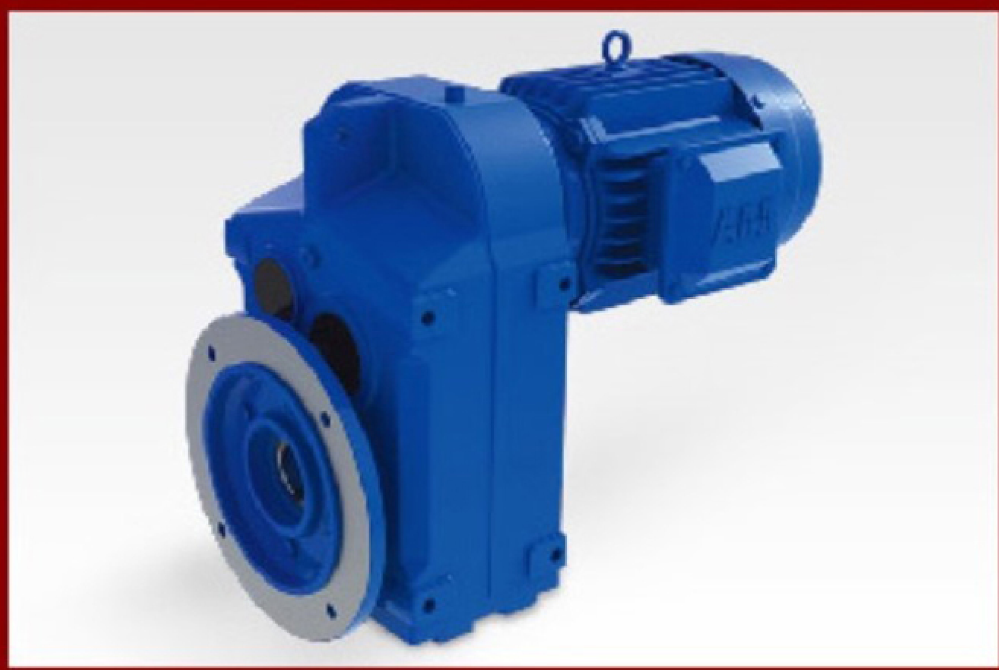
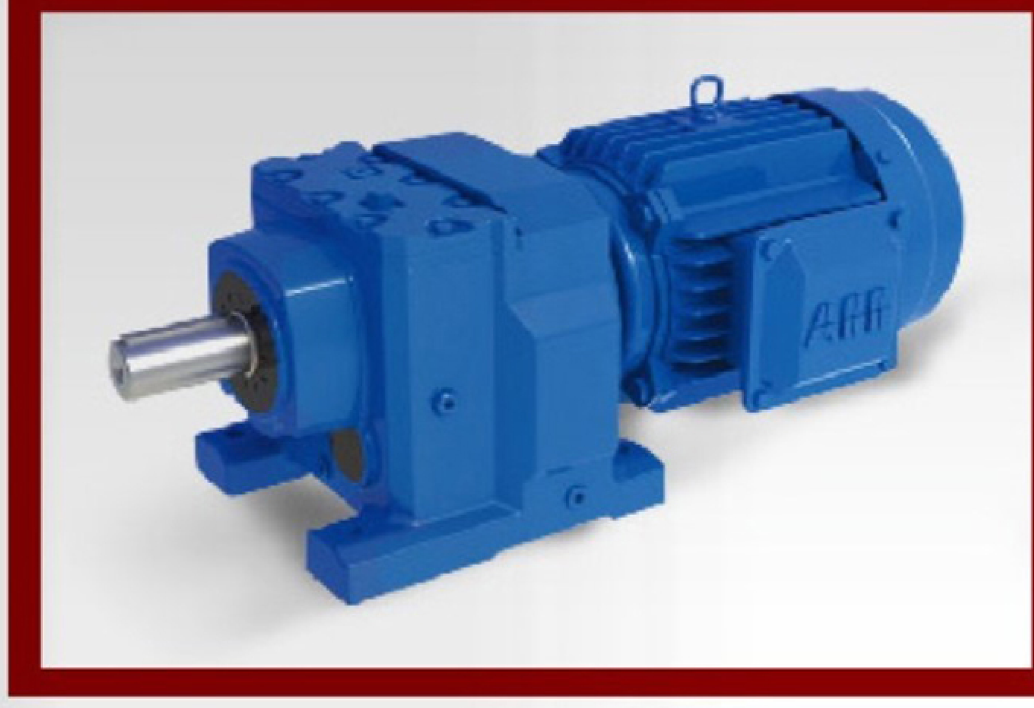
减速机 专业制造商

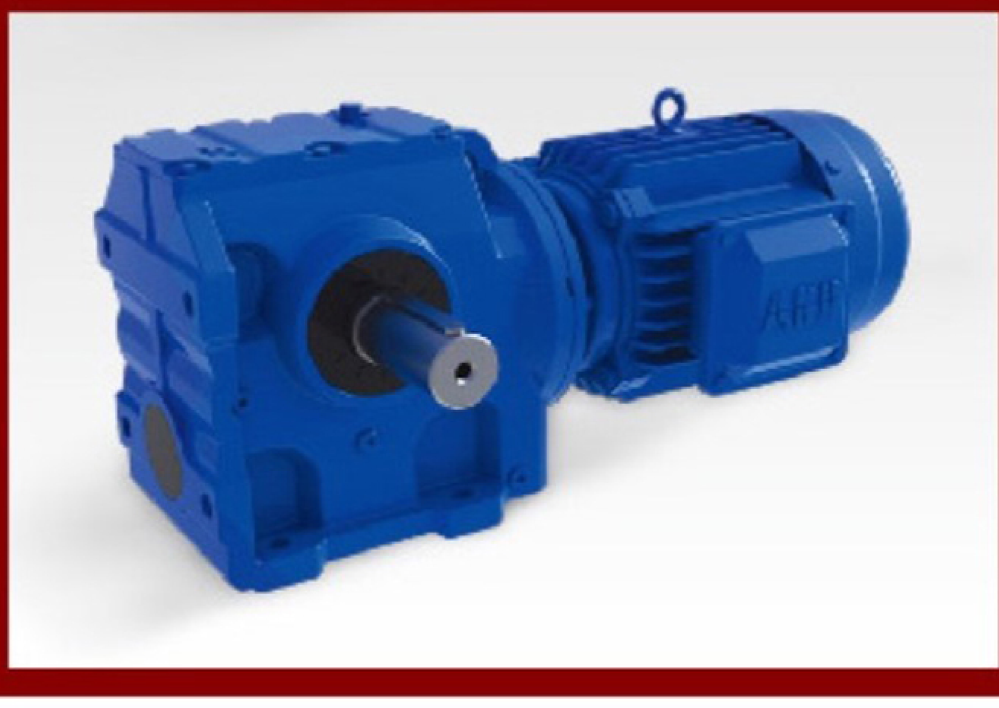
REDUCER PROFESSIONAL MANUFACTURER

AERFA









# SWL、JW系列减速机选型手册

## REDUCER SELECTION MANUAL

温州阿尔法机械制造有限公司

WENZHOU AERFA MACHINERY MANUFACTURING CO., LTD.

## 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**

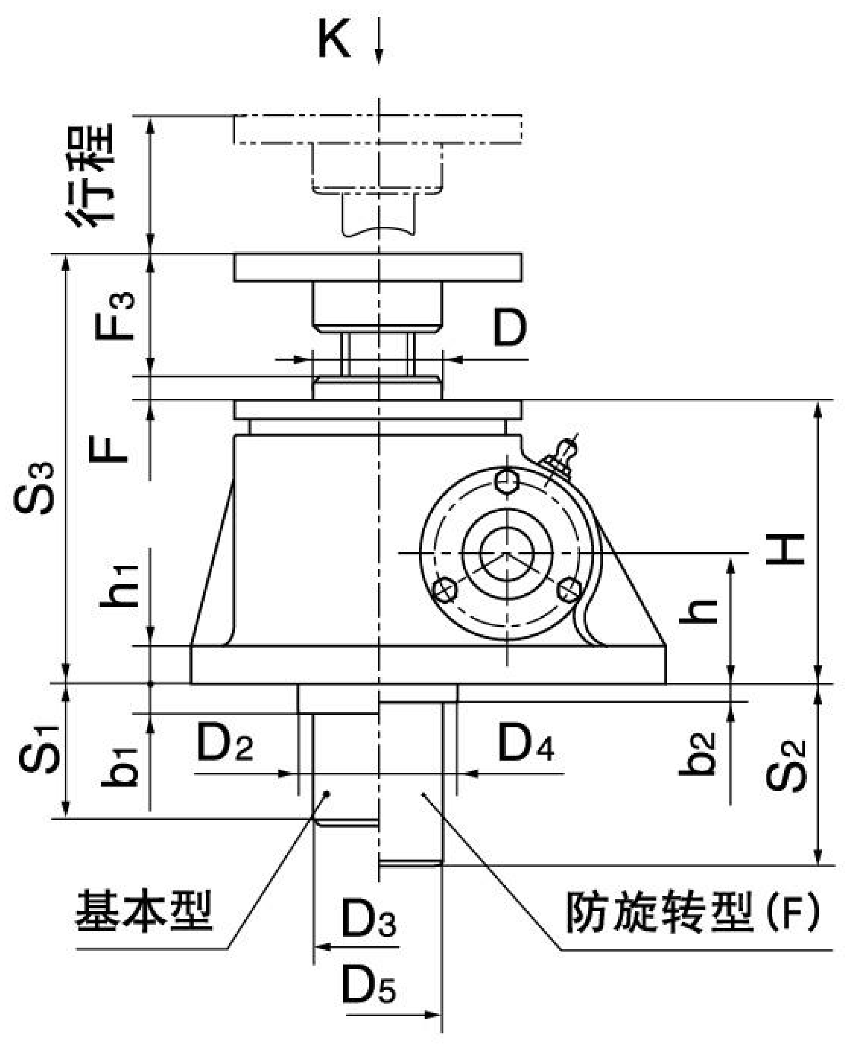
SWL 2.5 M — 1 A — Ⅱ 500 FZ

- FZ：丝杆防护型式代号（基本型不注）
- 500：丝杆行程（mm）
- Ⅱ：丝杆头部型式代号
- A：装配型式代号
- 1：结构型式代号
- M：传动比代号（普通 P 不注）
- 2.5：承载能力（25kN，相当于 2.5 吨）
- SWL：蜗轮丝杆升降机

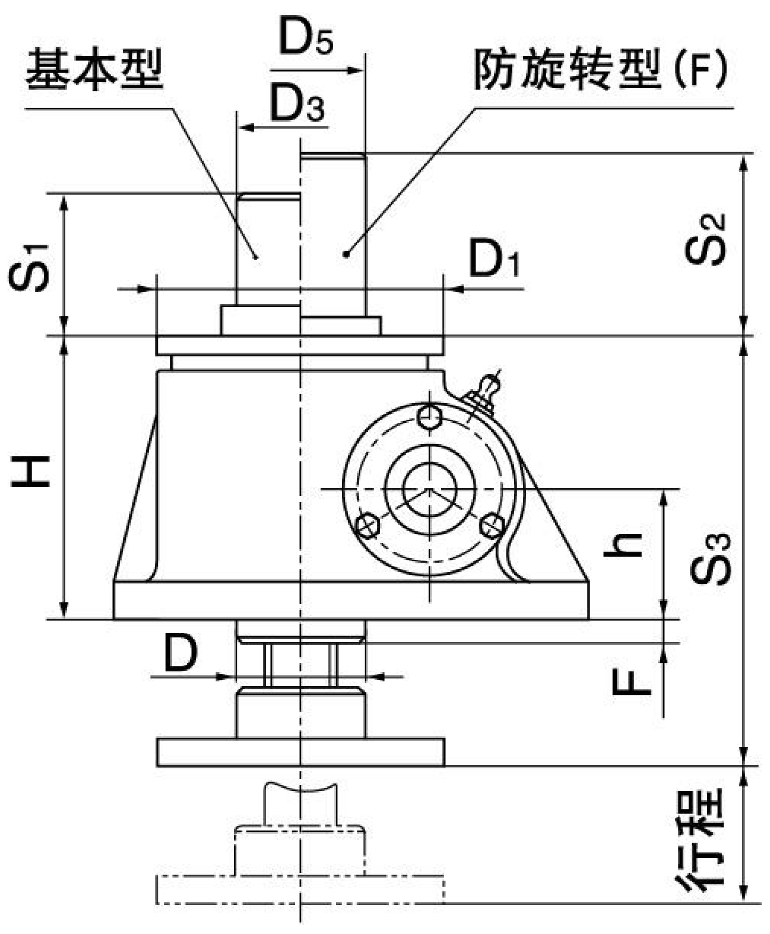
# 三、外形尺寸

## 1 型结构型式

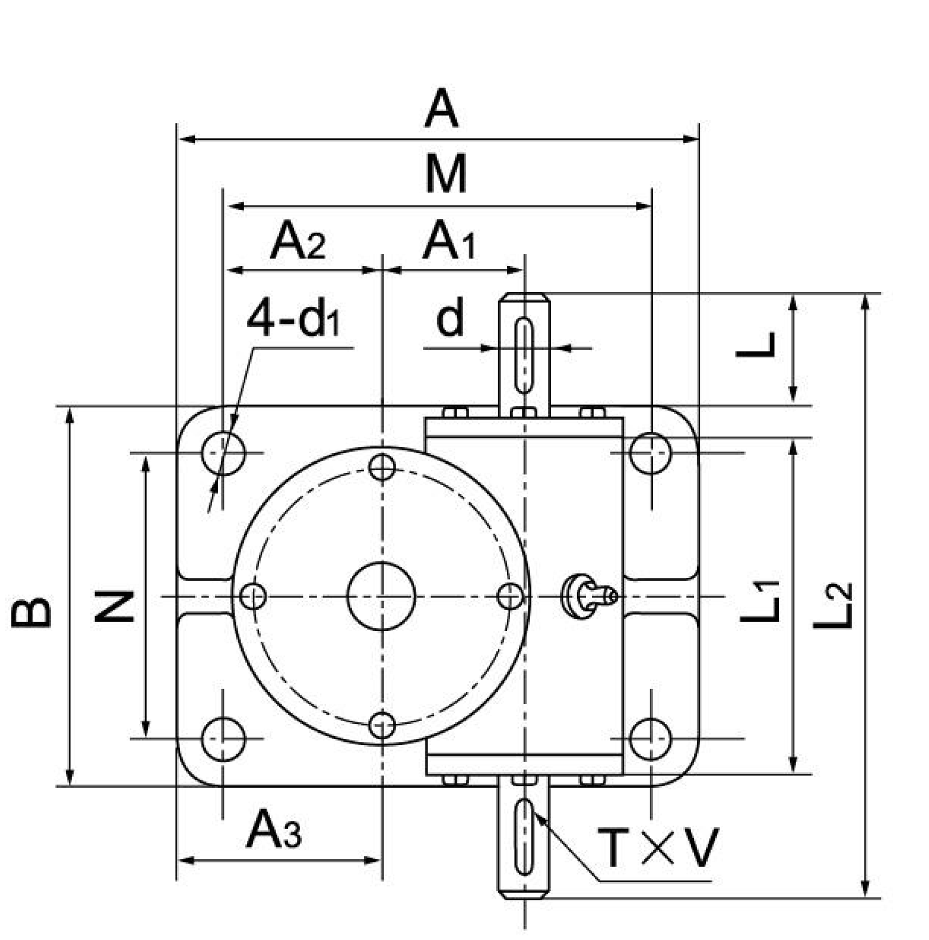
装配型式 A




装配型式 B



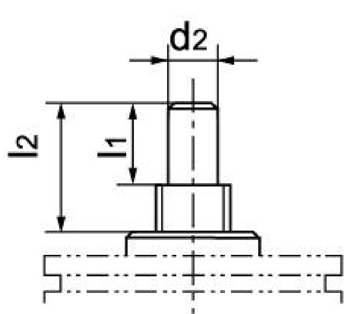

K向



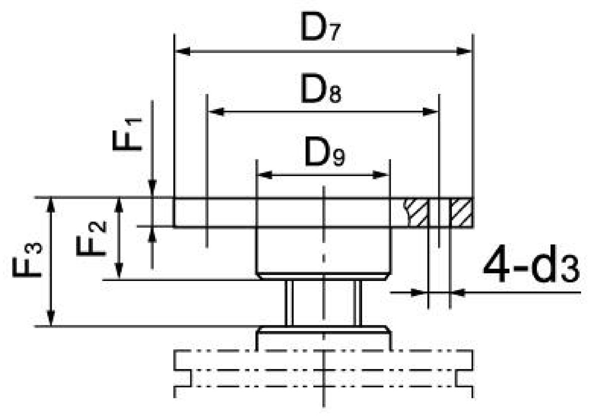

| 型 号 | $S_1$ | $S_2$ | $S_3$* | A | B | M | N | H | h | $h_1$ | d(k6) | $d_1$ | 键 GB1096 | L | $L_1$ | $L_2$ | D | $D_1$ | $D_2$ | $D_3$ | $D_4$ | $D_5$ | $A_1$ | $A_2$ | $A_3$ | $b_1$ | $b_2$ | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SWL2.5 | 行程+20 | 行程+80 | 150.5 | 165 | 120 | 135 | 90 | 97 | 45 | 12 | 16 | 14 | 5 × 5 × 28 | 32 | 110.5 | 190 | 48 | 98 | 70 | 45 | 98 | 62 | 45.2 | 50 | 65 | 20 | 20 | 8.5 |
| SWL5 | | 行程+90 | 193 | 212 | 155 | 168 | 114 | 130 | 61.5 | 18 | 20 | 17 | 6 × 6 × 27 | 30 | 132 | 228 | 65 | 122 | 90 | 62 | 110 | 62 | 56.2 | 58 | 80 | 25 | 18 | 12 |
| SWL10<br>SWL15 | | 行程+100 | 230 | 235 | 200 | 190 | 155 | 150 | 70 | 16 | 25 | 21 | 8 × 7 × 38 | 42 | 172 | 280 | 80 | 150 | 100 | 80 | 130 | 80 | 66.8 | 63.5 | 86 | 17 | 18 | 6.5 |
| SWL20 | | 行程+120 | 262 | 295 | 215 | 240 | 160 | 176 | 87 | 20 | 28 | 28 | 8 × 7 × 45 | 51 | 213.5 | 322 | 100 | 185 | 120 | 80 | 170 | 78 | 72 | 95 | 122.5 | 35 | 31 | 6 |
| SWL25 | | 行程+150 | 317 | 360 | 260 | 280 | 190 | 217 | 102 | 25 | 32 | 34 | 10 × 8 × 45 | 51 | 221 | 355 | 130 | 205 | 150 | 110 | 200 | 110 | 97 | 95 | 130 | 30 | 40 | 8 |
| SWL35 | | 行程+150 | 350 | 430 | 280 | 360 | 210 | 240 | 115 | 30 | 38 | 35 | 10 × 8 × 65 | 75 | 265 | 430 | 150 | 260 | 180 | 123 | 210 | 169 | 120 | 135 | 170 | 35 | 40 | 10 |

## 丝杆头部型式

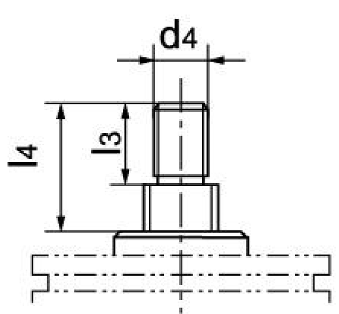
Ⅰ型



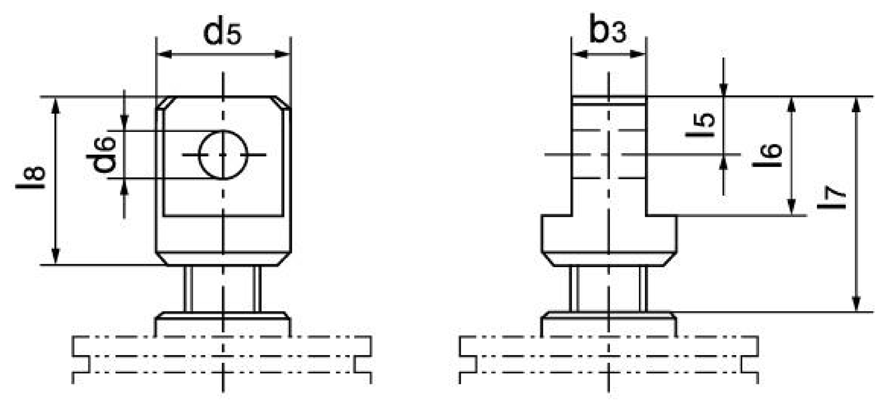

Ⅱ型




Ⅲ型




Ⅳ型



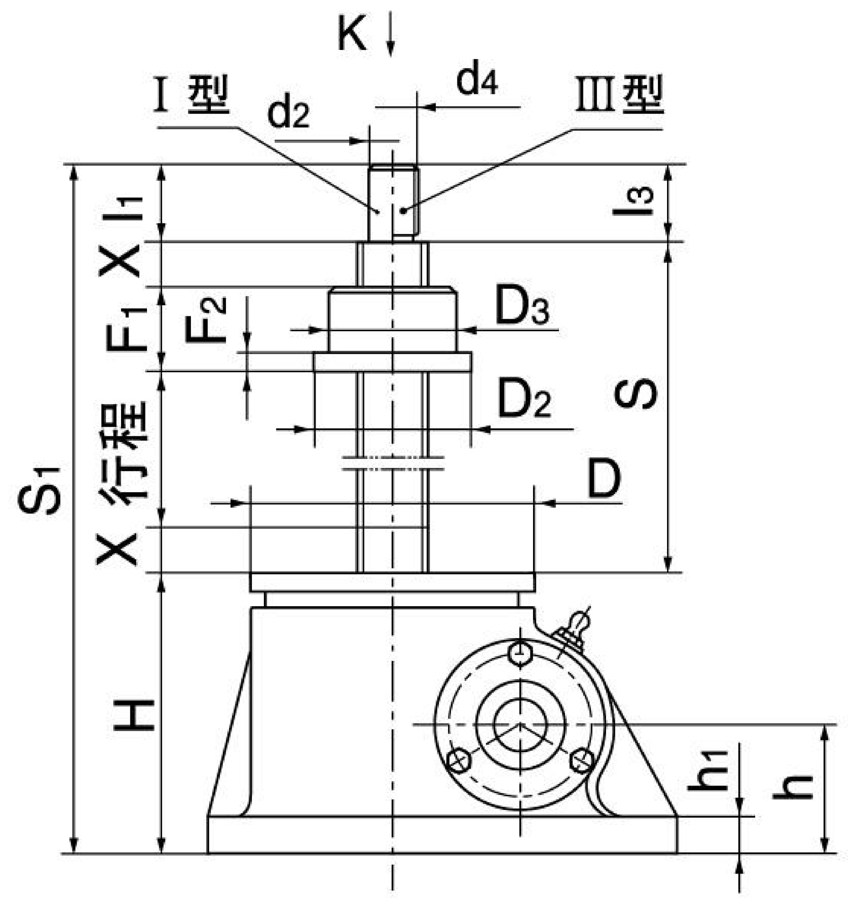

| 型 号 | 丝杆头部型式 | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ⅰ | | | Ⅱ | | | | | | | Ⅲ | | | Ⅳ | | | | | |
| | $d_2$(k6) | $l_1$ | $l_2$ | $D_7$ | $D_8$ | $D_9$ | $d_3$ | $F_1$ | $F_2$ | $F_3$* | $d_4$ | $l_3$ | $l_4$ | $d_5$ | $d_6$(H8) | $b_3$ | $l_5$ | $l_6$ | $l_7$* | $l_8$ |
| SWL2.5 | 20 | 30 | 45 | 98 | 75 | 40 | 14 | 12 | 30 | 45 | M22 × 1.5-6g | 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<br>SWL15 | 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 |
| 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$S_3$、$F_3$、$l_7$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338页至343页）。

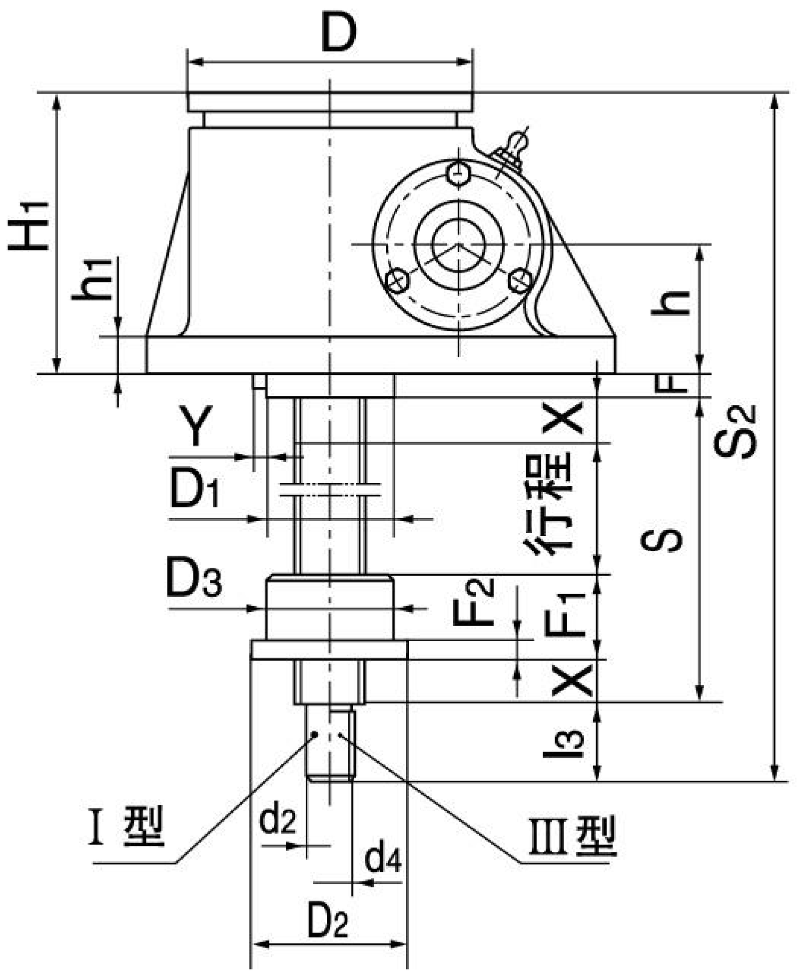
SWL

## 2 型结构型式

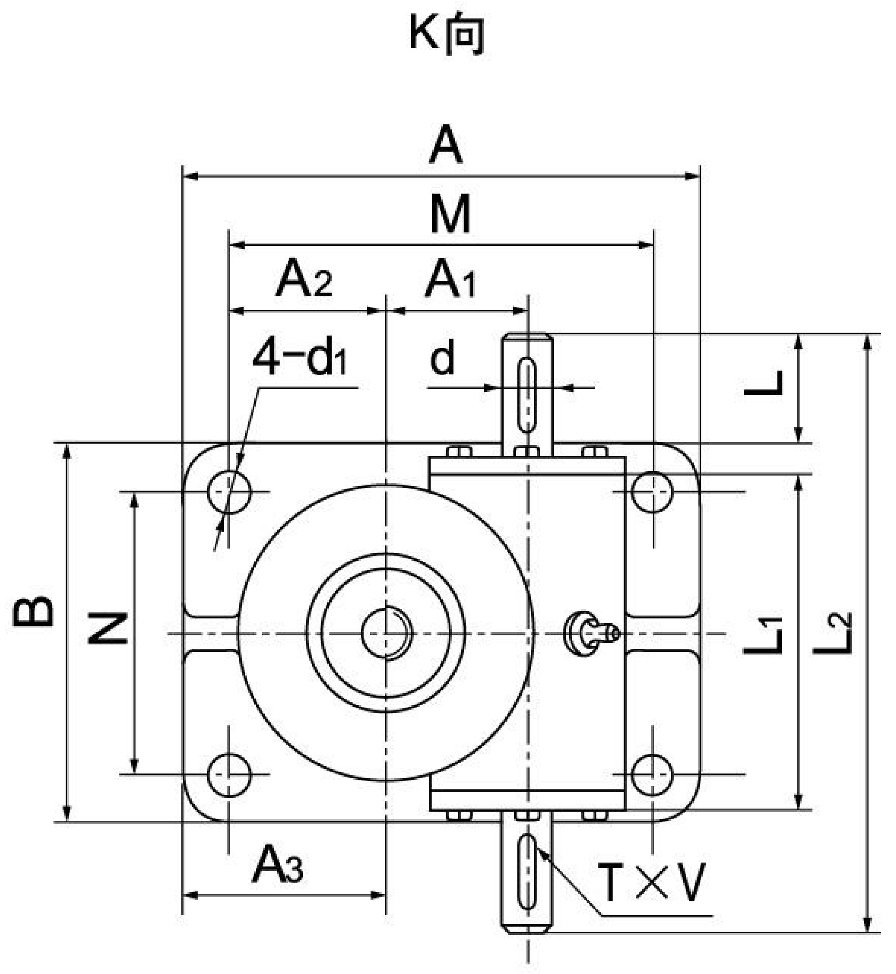
装配型式 A




装配型式 B



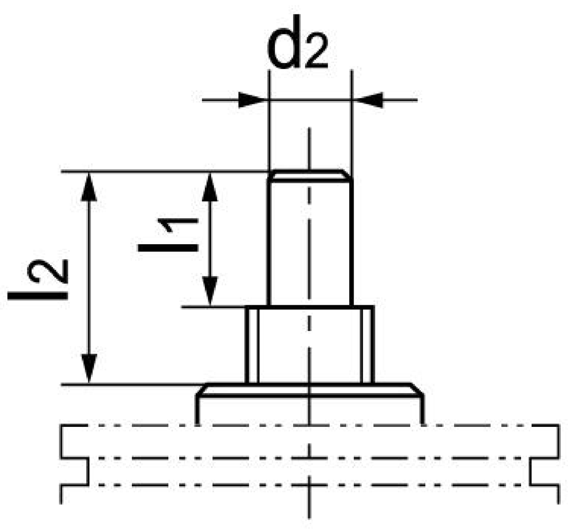

K向



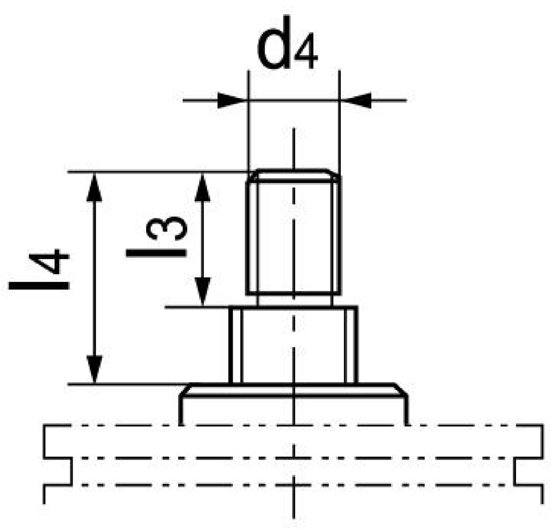

| 型 号 | S | $S_1$ | $S_2$ | A | B | M | N | H | $H_1$ | h | $h_1$ | d(k6) | $d_1$ | 键 GB1096 | L | $L_1$ | $L_2$ | D | $D_1$ | $A_1$ | $A_2$ | $A_3$ | F | 安全裕度 X | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SWL2.5 | 行程 +85 | 行程 +215 | 行程 +238.5 | 165 | 120 | 135 | 90 | 100 | 97 | 45 | 12 | 16 | 14 | 5 × 5 × 28 | 32 | 110.5 | 190 | 98 | 68 | 45.2 | 50 | 65 | 26.5 | 20 | 3 |
| SWL5 | 行程 +100 | 行程 +270 | 行程 +300 | 212 | 155 | 168 | 114 | 131 | 131 | 61.5 | 14 | 20 | 17 | 6 × 6 × 27 | 30 | 132 | 228 | 122 | 83 | 56.2 | 58 | 80 | 30 | 20 | 3 |
| SWL10<br>SWL15 | 行程 +125 | 行程 +335 | 行程 +359 | 235 | 200 | 190 | 155 | 160 | 150 | 70 | 16 | 25 | 21 | 8 × 7 × 38 | 42 | 172 | 280 | 150 | 110 | 66.8 | 63.5 | 86 | 34 | 25 | 1 |
| SWL20 | 行程 +150 | 行程 +404 | 行程 +430 | 295 | 215 | 240 | 160 | 194 | 181 | 87 | 20 | 28 | 28 | 8 × 7 × 45 | 51 | 213.5 | 322 | 185 | 140 | 72 | 95 | 122.5 | 39 | 25 | 3 |
| SWL25 | 行程 +170 | 行程 +476 | 行程 +513 | 350 | 260 | 280 | 190 | 226 | 211 | 102 | 25 | 32 | 35 | 10 × 8 × 45 | 51 | 221 | 355 | 205 | 160 | 97 | 95 | 140 | 52 | 25 | 3 |
| SWL35 | 行程 +205 | 行程 +535 | 行程 +580 | 430 | 280 | 360 | 210 | 250 | 250 | 115 | 30 | 38 | 35 | 10 × 8 × 65 | 75 | 265 | 430 | 260 | 180 | 120 | 135 | 170 | 45 | 30 | 4 |

### 丝杆头部型式及螺母尺寸

I 型




III 型




| 型 号 | 活动螺母尺寸 | | | | 丝杆头部型式 | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | I | | III | |
| | $D_2$ | $D_3$ (h9) | $F_1$ | $F_2$ | $d_2$(k6) | $l_1$ | $d_4$ | $l_3$ |
| 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<br>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 |
| 最大压力负荷时的最大提升高度（mm） | 丝杆头部无导向 | 250 | 385 | 500 | 400 | 490 | 850 | 820 |
| | 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 |

SWL

## 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 | | 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 | SWL25 | 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 |
| | 5 | 1.575 | 1800 | 0.525 | 1800 | | 130 | 0.30 | 200 | 0.15 | 300 |
| SWL10 | 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 | SWL35 | 350 | 0.094 | 50 | 0.0313 | 50 |
| | 20 | 1.44 | 1000 | 0.90 | 1800 | | 300 | 0.104 | 100 | 0.125 | 200 |
| | 10 | 2.592 | 1800 | 0.90 | 1800 | | 250 | 0.208 | 100 | 0.188 | 300 |
| SWL15 | 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 |
| | 60 | 0.432 | 300 | 0.30 | 600 | | 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

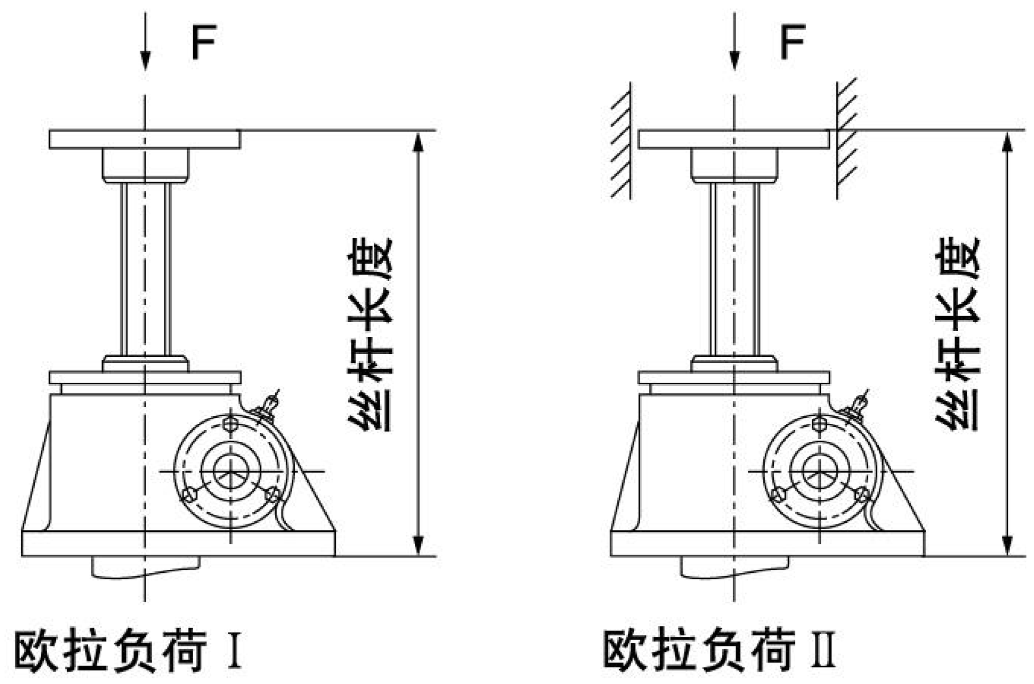



图1

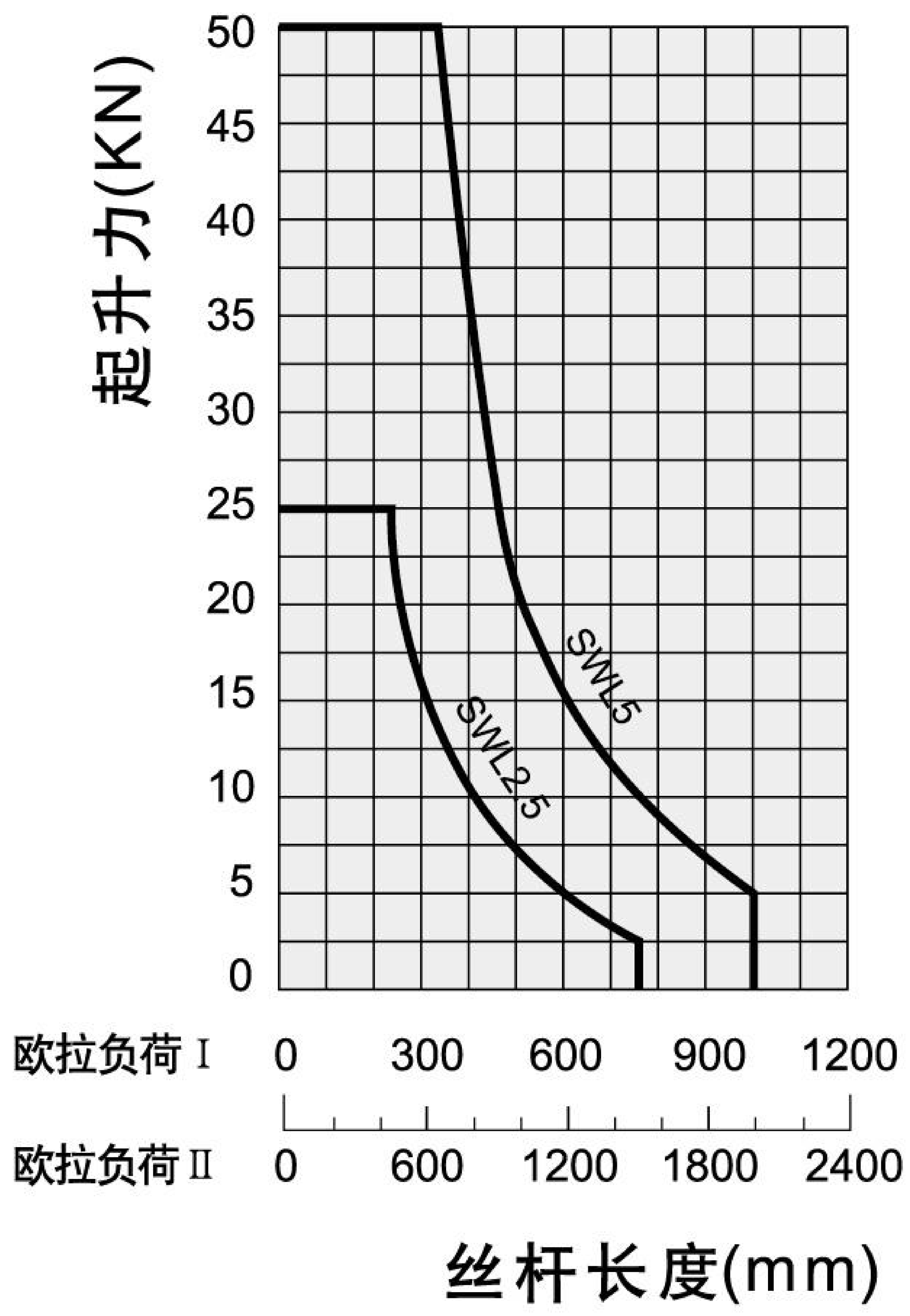



图2

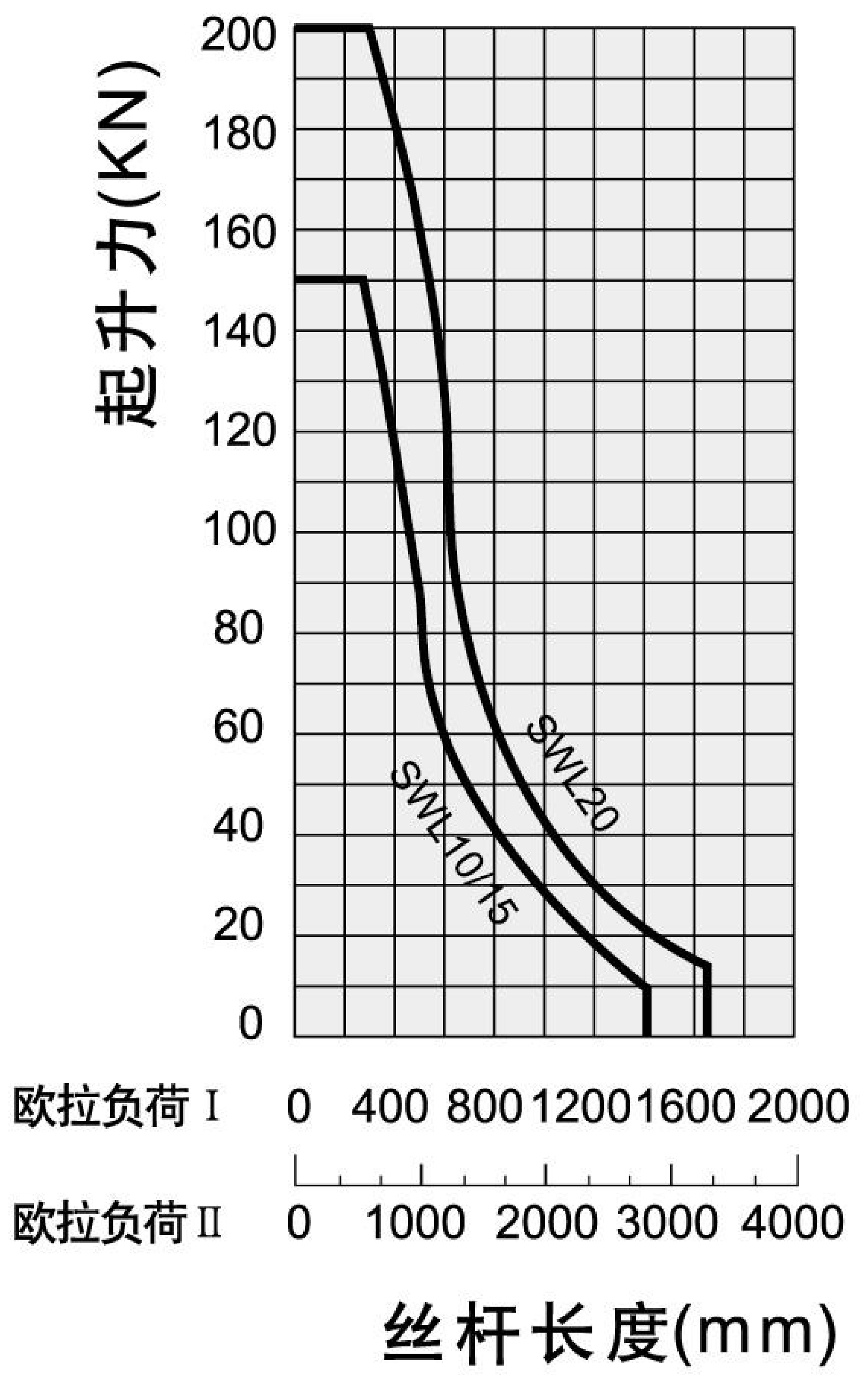



图3

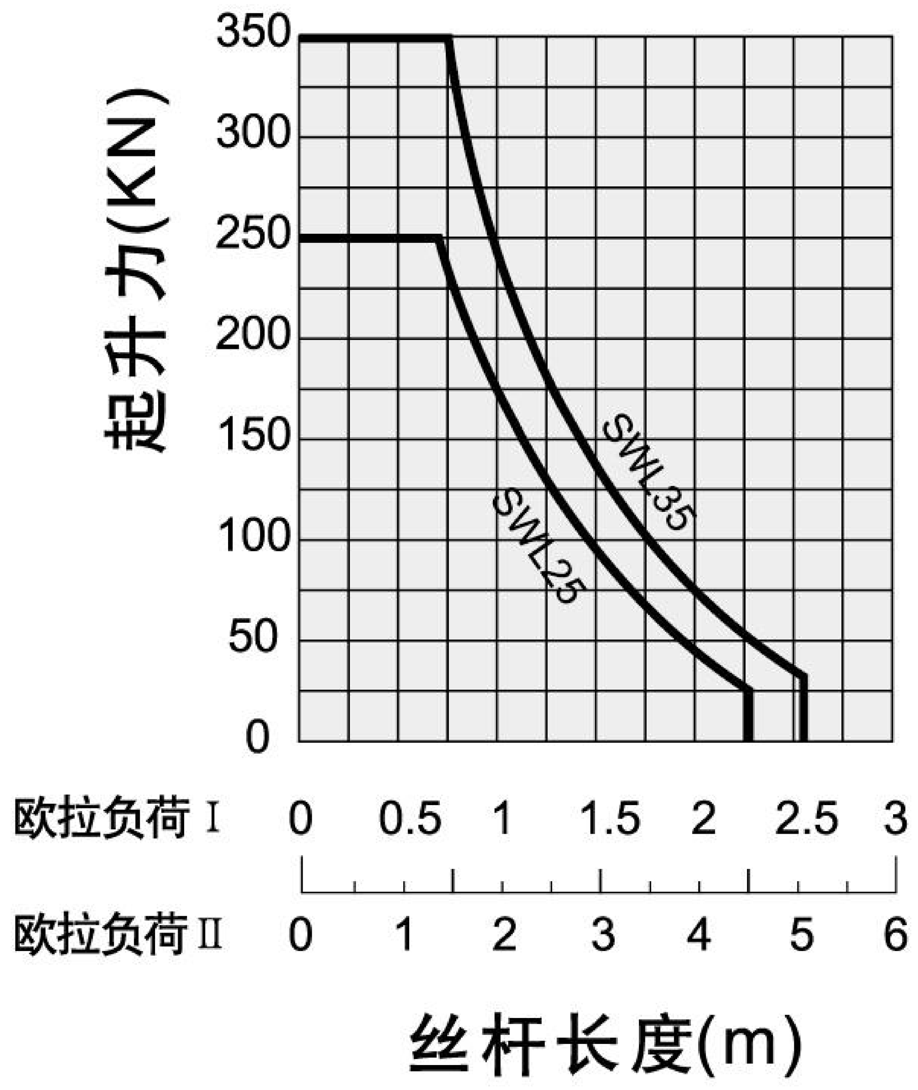



图4

## 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=20kN，丝杆行程 = 400mm， 提升速度 V=0.65m/min,试求所需的升降机。

根据 F=20kN，丝杆行程 =400mm 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℃ ~ +80℃；
7) 在静止状态一般可以自锁。

SWL

## 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，既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。**

## JW series screw jack overview:

### JWM (Trapezoid screw)

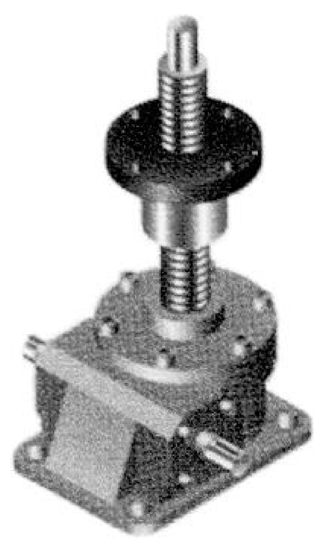
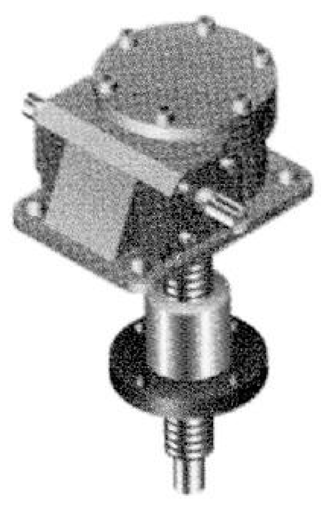
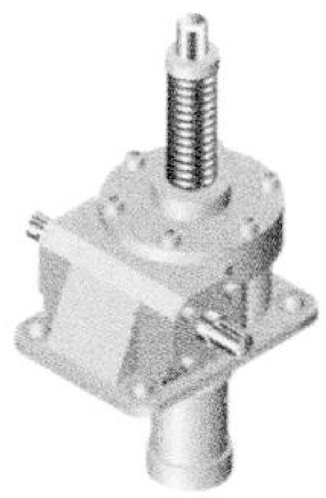
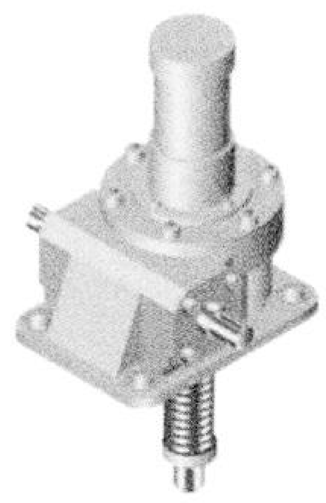
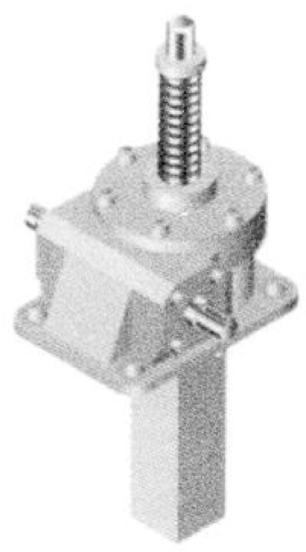
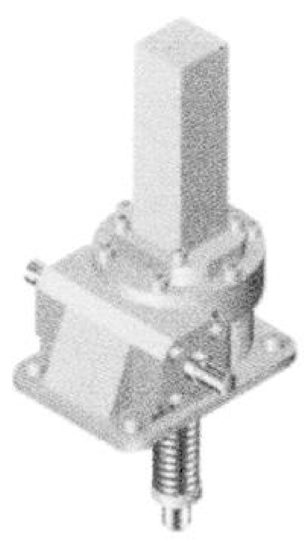
**LOW SPEED　　LOW FREQUENCY**

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。**

### JWB (General ball screw)

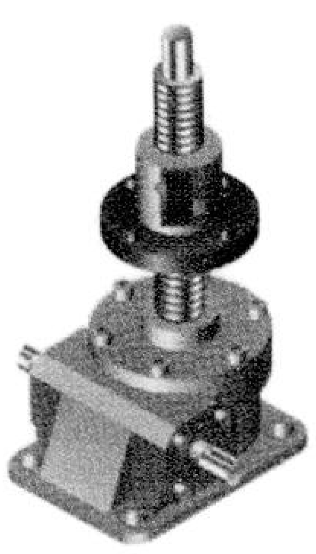
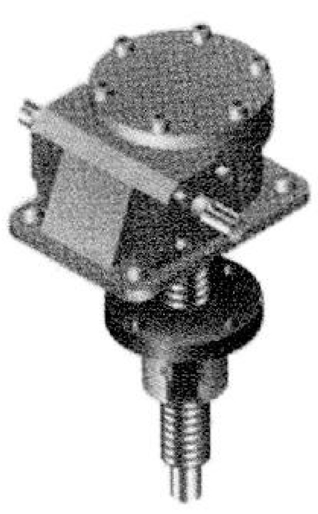
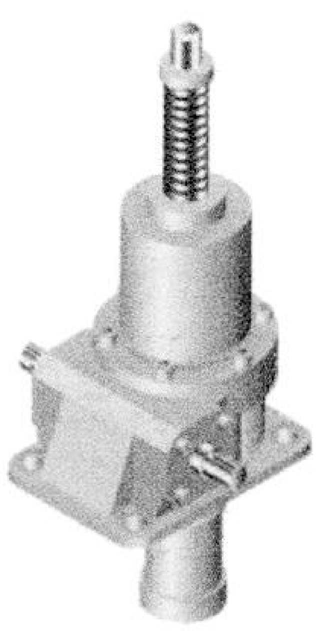
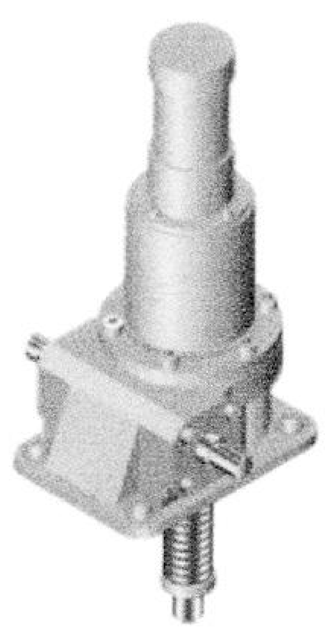
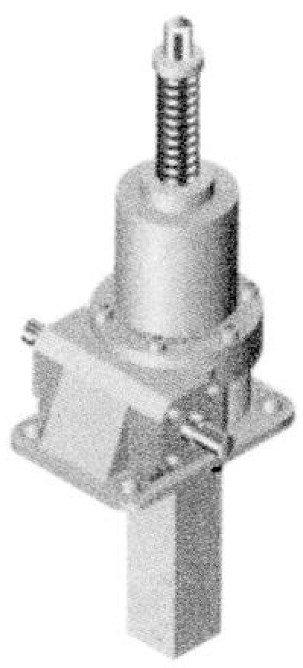
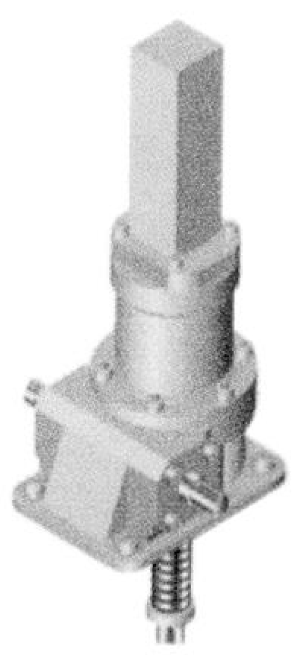
**HIGH SPEED　　HIGH FREQUENCY**

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.

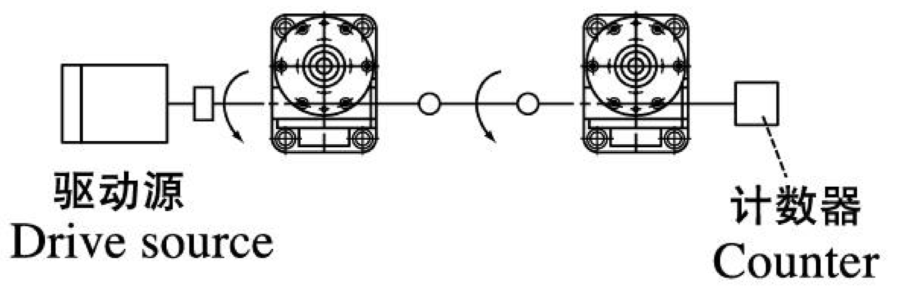
Note: Braking devices or motor with braking devices are necessary when choosing JWB.

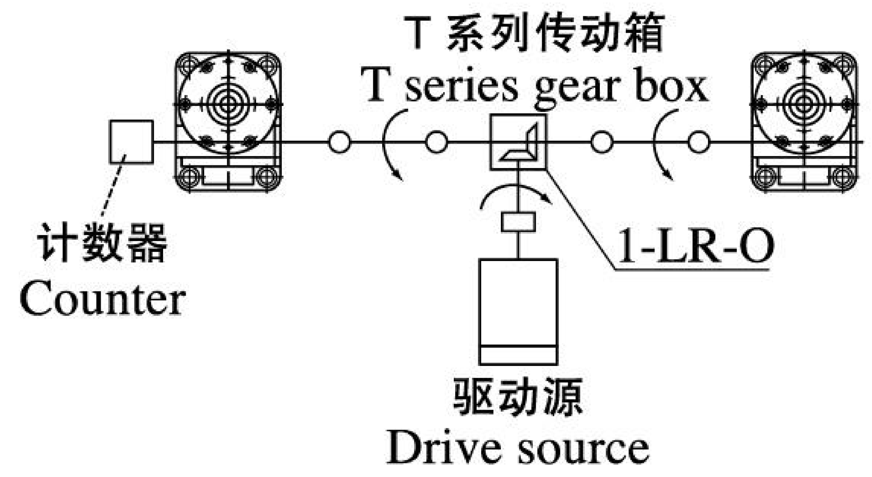
## 应用示例： Application example:

### 两台连动： Two gear boxes linking:

**直线型**
Linear arrangement

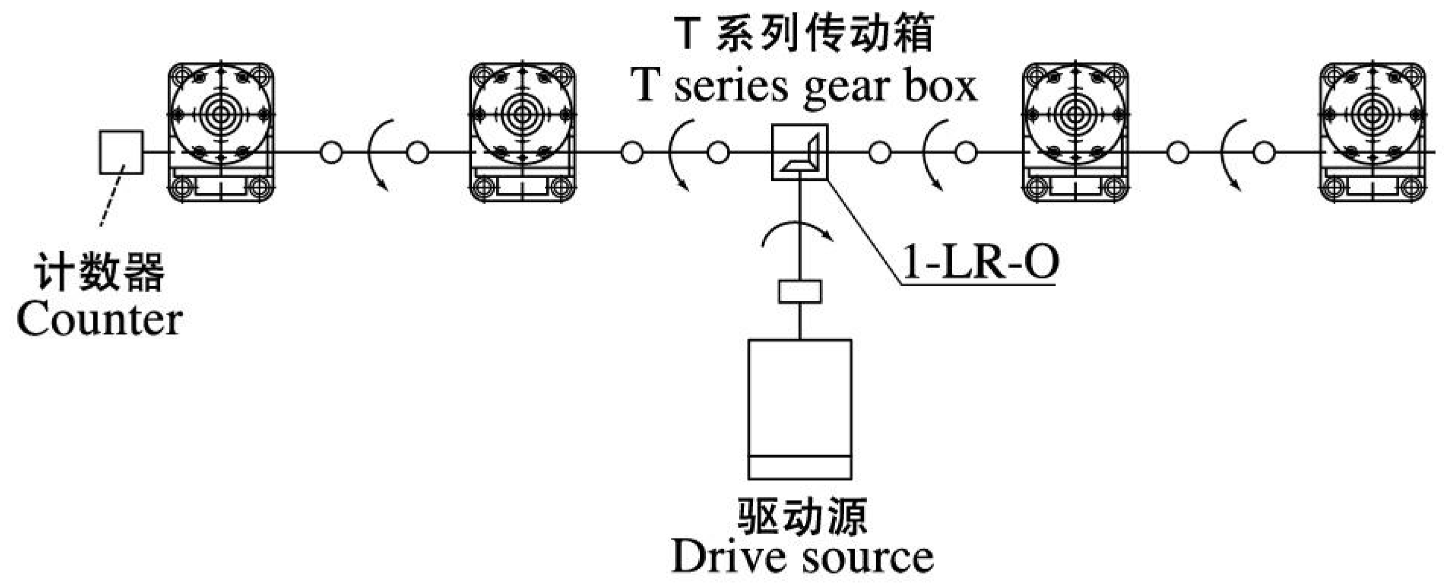



**T型**
T arrangement

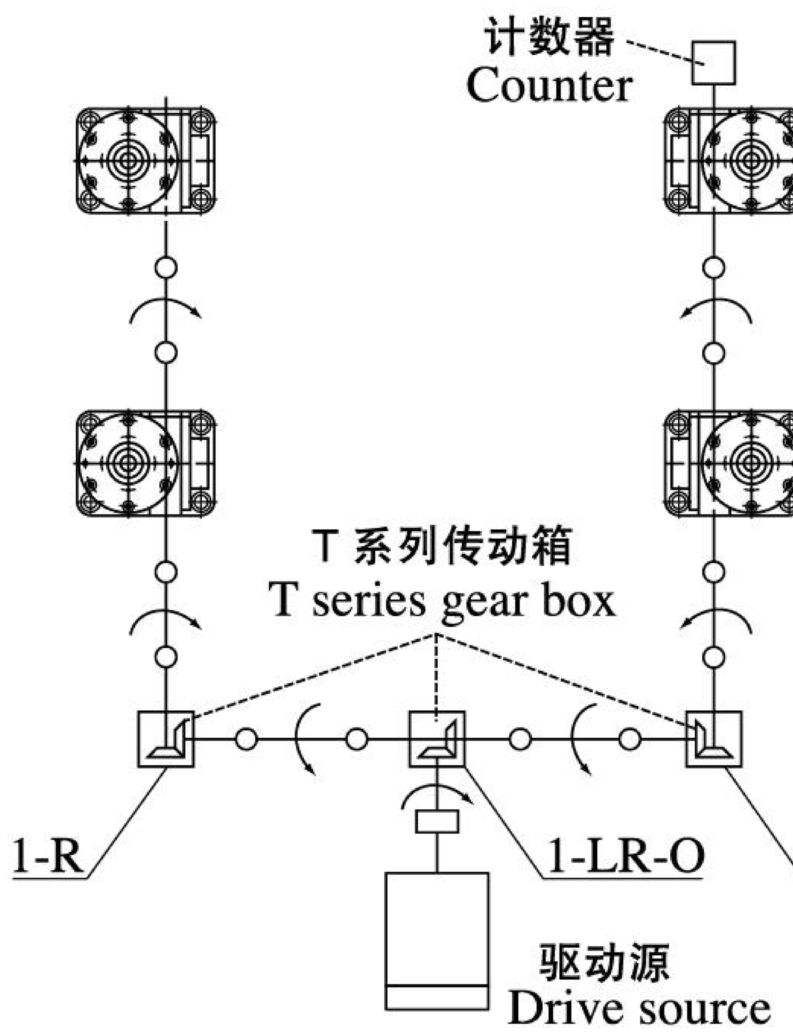



### 四台连动： Four gear boxes linking:

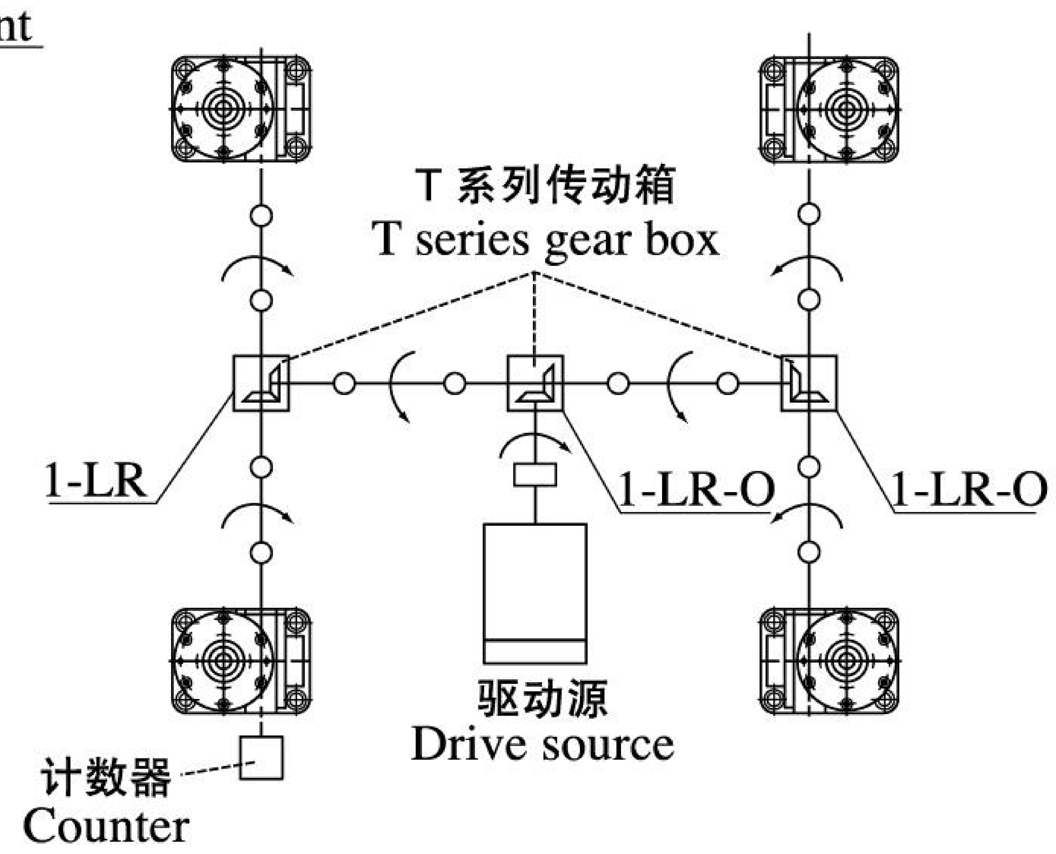
**T型**
T arrangement




**U型**
U arrangement



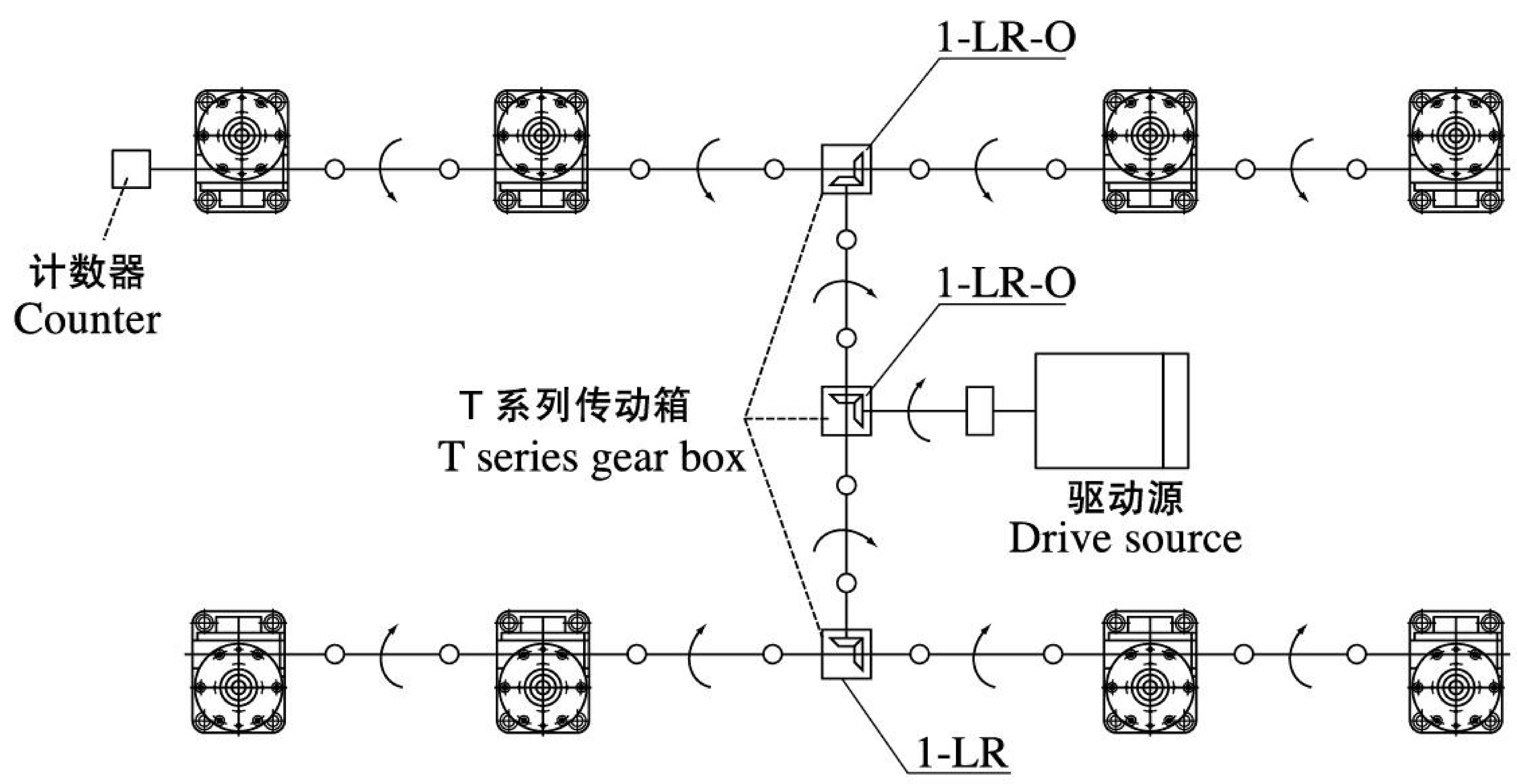

**H型**
H arrangement



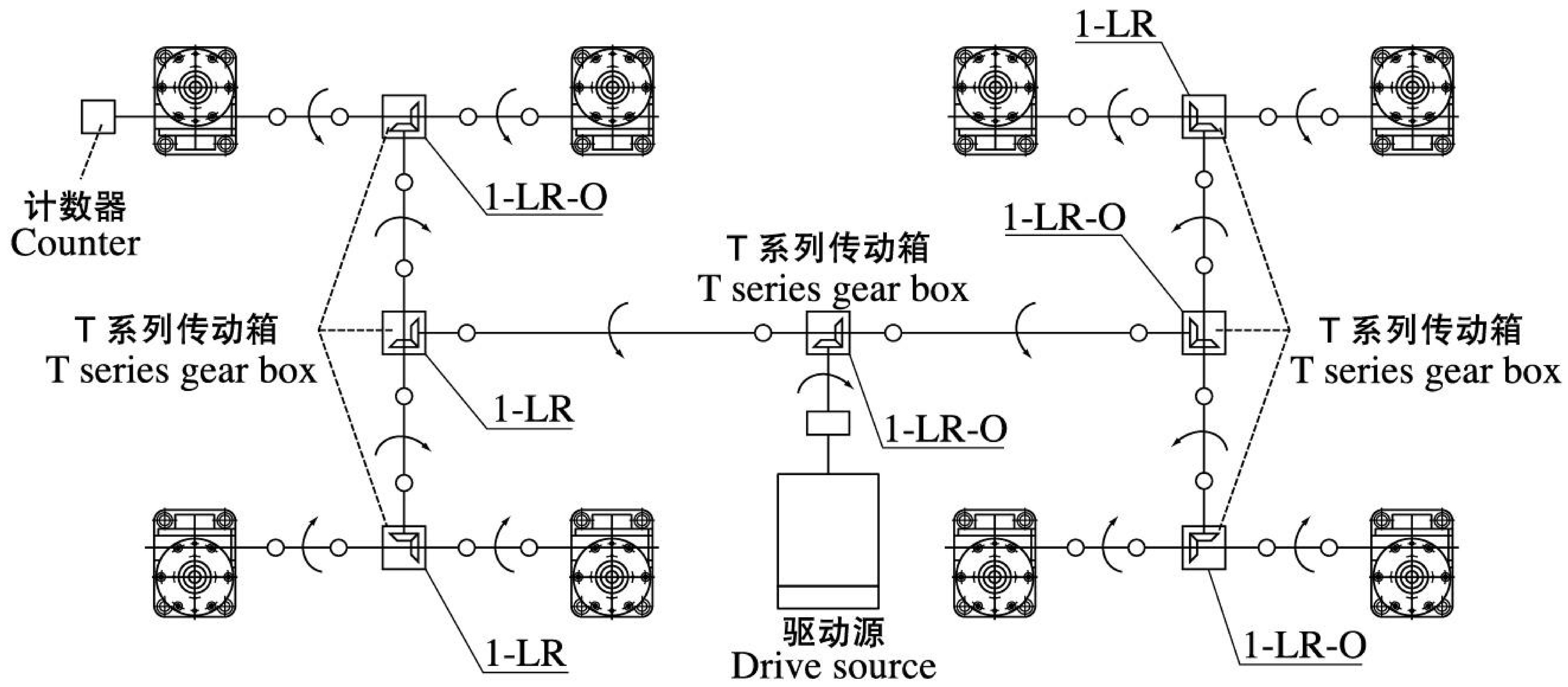

JW

### 八台连动： Eight gear boxes linking:

**H发展型**
H developed arrangement




**2H型**
2H arrangement

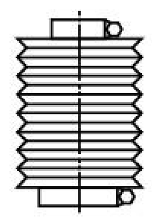


## 型号表示方法举例： Illustration of types:

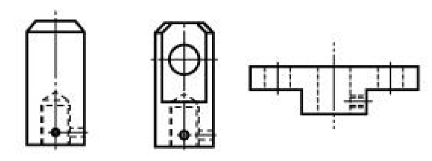
**基本形式和止旋构造升降机的型号表示方法：** Plain mode and Mode with anti-rotation device:

**JW　M　050　US　-　A　H　100　J　M　C　-　I**

- **JW** — 升降机系列 / JW series
- **M** — M梯形丝杆 / B滚珠丝杆 / M (Trapezoid screw) / B (General ball screw)
- **050** — 机座号 / Size of JW
- **US** — US / DS / UM / DM
- **A** — 输入轴方向A或B 双向输入时不标（详细标注外形尺寸图）
- **H** — 蜗轮速比 / Ratio
- **100** — 行程(mm) / Journey
- **J** — 防尘罩 / Dust hood




- **M** — 顶端连接方式 / Top end fittings




- **C** — 支架安装 / Support-mounted；普通底座式安装不标 / Normal foot-mounted isn't marked
- **I** — 安装方位 / Mounting position：Ⅰ、Ⅱ、Ⅲ

## 基本形式（US, DS） Plain mode (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)

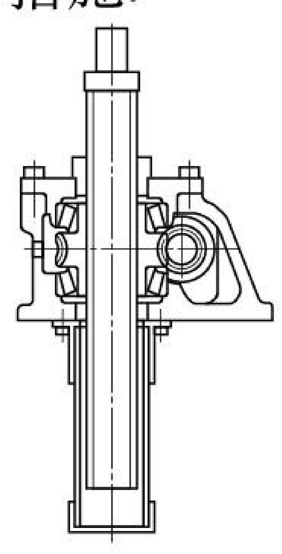
US：押上　DS：吊下

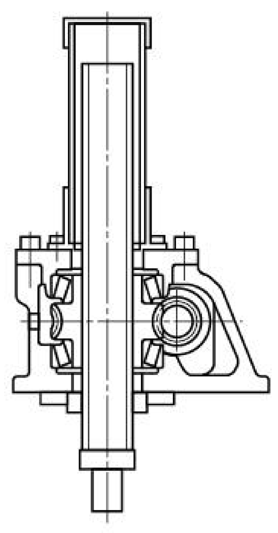
* 请根据载荷方向、安装方向来选择合适的升降机(US或DS).
* 丝杆轴在升降时，会产生旋转力，所以必须做好防止旋转措施.

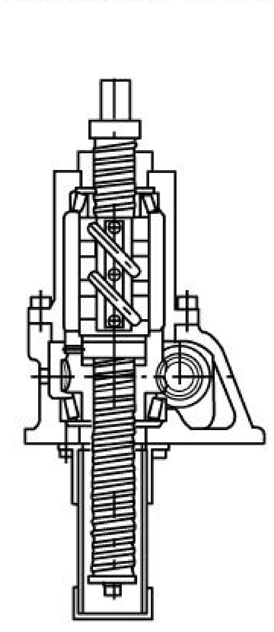
Worm wheel rotating, threaded spindles travel up and down.
Ordinary mounting mode is applied here,

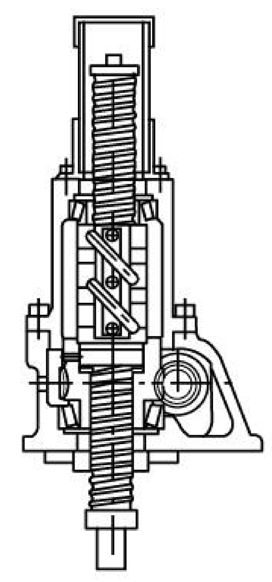
**US: UPRISE DS: DROP**

* 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

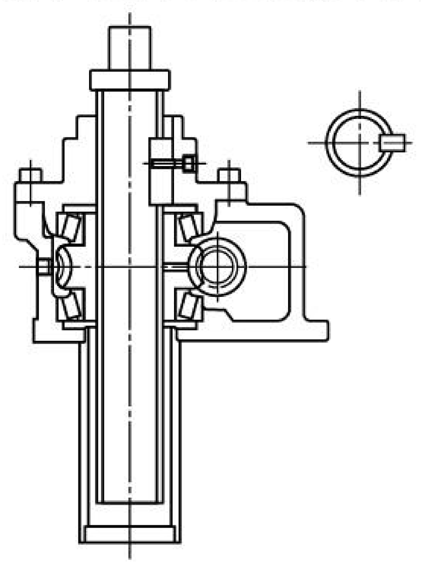
## 止旋构造（UM, DM） With Anti-rotation device.

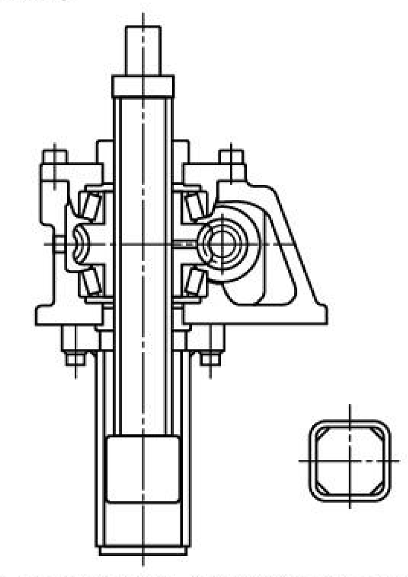
UM：押上　DM：吊下

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

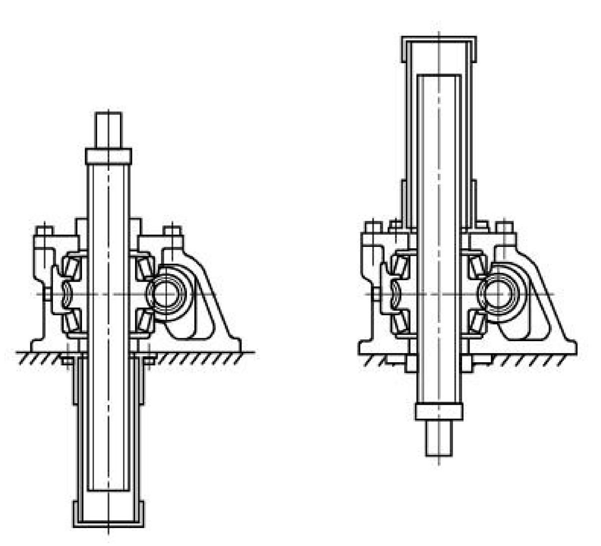
**UM: UPRISE DM: DROP**

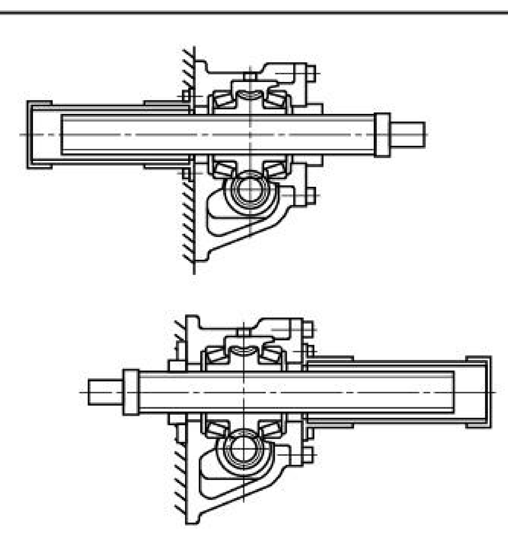
* No rotation of screw, which only travel up and down.
* Select UM or DM according to the load and mounting positions.

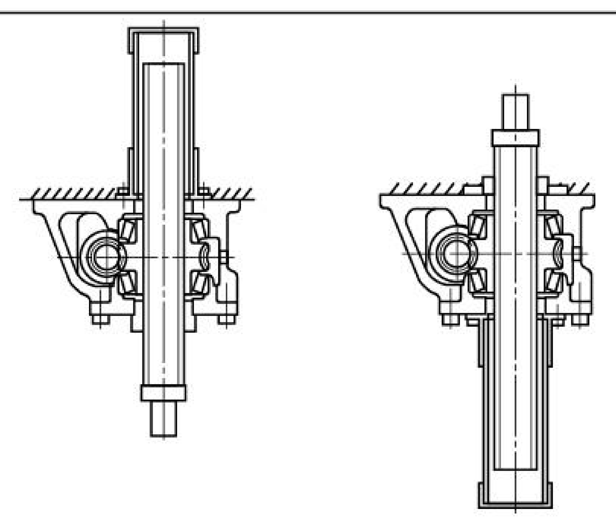

(JWM100-JWM200)
UM


(JWM010-JWM050) (JWB010-JWB200)
DM

## 安装方位 Mounting position


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.

## 活动螺母构造升降机的型号表示方法： Illustration of type with traveling nut

**JW M 025 UR - A H 100 P Ⅰ**

- JW — 升降机系列 / JW series
- M — M梯形丝杆 / B滚珠丝杆；M ( Trapezoid screw ) / B (General ball screw)
- 025 — 机座号 / Size of JW
- UR — UR / DR
- A — 输入轴方向A或B 双向输入时不标（详细标注外形尺寸图）
- H — 蜗轮速比 / Ratio
- 100 — 行程(mm) / Journey
- P — 螺母的放置方向 / P R
- Ⅰ — 安装方位 / Mounting position Ⅰ、Ⅱ、Ⅲ

### 活动螺母构造（UR，DR） / JW with Traveling nut

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。

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：押上　DR：吊下

**UR: uprise　DR: drop**

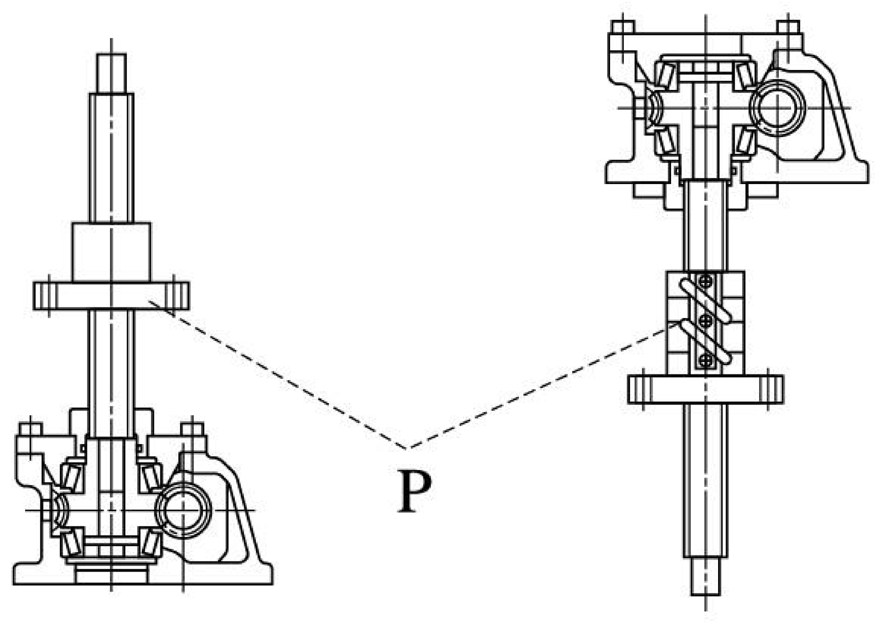
**请根据载荷方向，安装方向来选择合适的升降机（押上或吊下）**

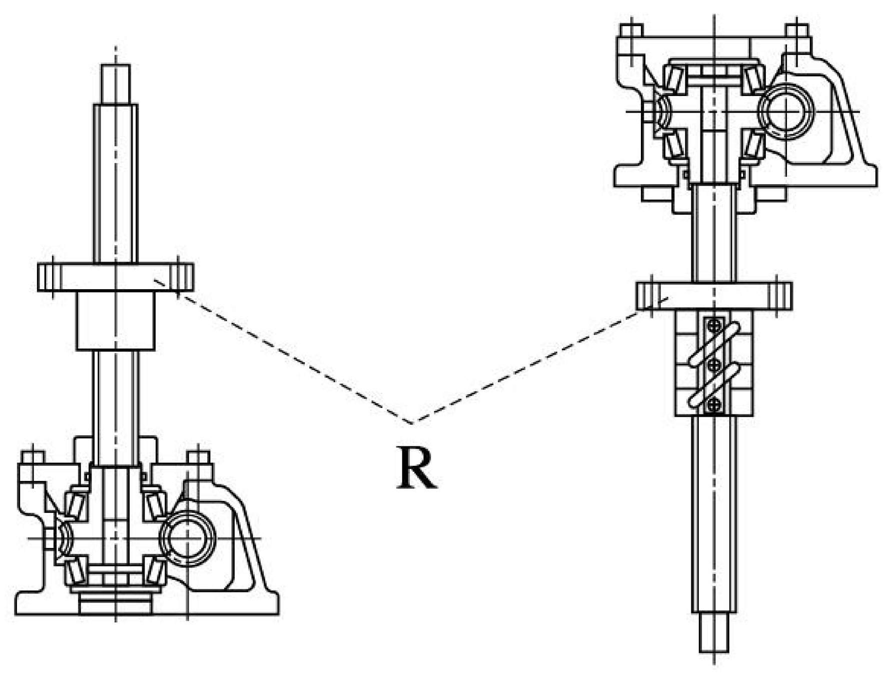
Select UR or DR according to the load and mounting positions.

### 活动螺母的安装方向（P，R） / Mounting direction of traveling nut (P, R)

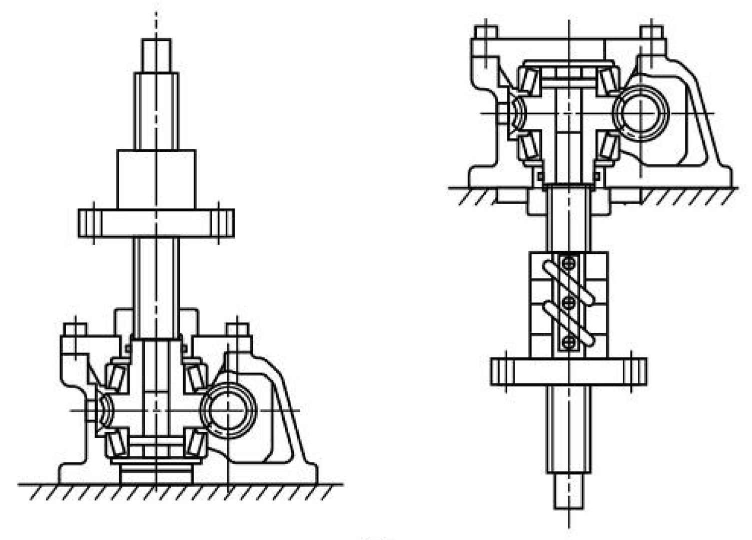
选型和型号表示方法中，还需注明螺母的放置方向（如下图）

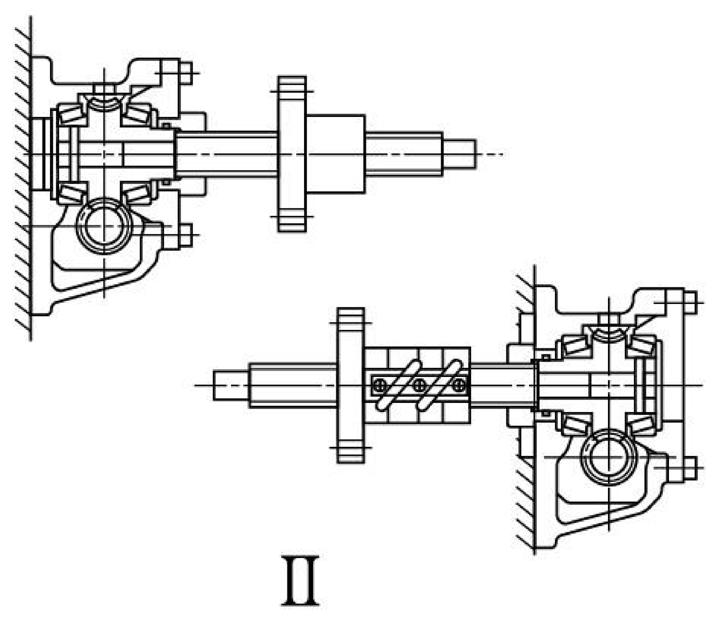
The mounting direction of traveling nut should be signed on drawing when selecting types.

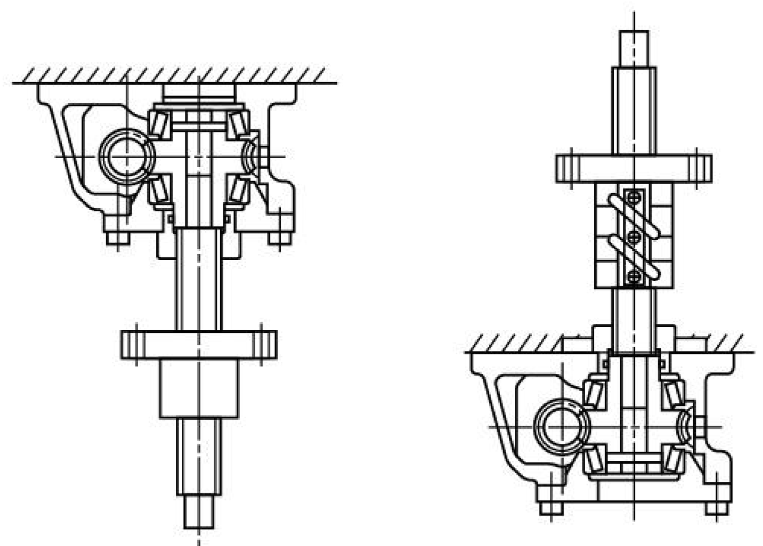



### 安装方位（Ⅰ、Ⅱ、Ⅲ） / Mounting position of Jack ( Ⅰ, Ⅱ, Ⅲ )


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　$L_1$　(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 | $10\frac{2}{3}$ | $10\frac{2}{3}$ | $10\frac{2}{3}$ | 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　(N·m) | 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 jonrney of screw, when input shaft rotate a circle.　(mm) | 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　(rpm) | 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　$L_1$　(mm) | | 5 | 8 | 10 | 12 | 12 | 12 | 16 | 20 |
| 减速比 Ratio　i | H速度　Speed | 5 | 6 | 6 | 8 | 8 | 8 | $10\frac{2}{3}$ | $10\frac{2}{3}$ |
| | 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　(kW) | 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　(N·m) | 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** (N·m) 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.　(mm) | 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　(rpm) | 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.

JW

JW

## 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℃～80℃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＝

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

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，请确保制动据矩大于保持扭矩；

## Note:

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

10) Jack's operating conditions

| | | | |
|---|---|---|---|
| **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℃～40℃ | |
| **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，在室外使用时请务心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。

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：

How to select type:

### 升降机型号的确定：

Determine Jack's type:

**计算总机的当量载荷Ws (N)**

Calculate total equivalent load Ws (N):

Ws=最大载荷Wmax×使用系数fl(N)

$$Ws = Wmax \times fl$$

被驱动设备系数 (f1) 表：

Service factor for driven machine (f1) :

| 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，**

Calculate equivalent load of single Jack,

$$W=\frac{WS}{\text{连动台数}\times\text{连动系数}fd}$$

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

**连动系数** 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 |

**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。**

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.

### 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。

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.

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 n1 (r/min) | $n_1=\frac{V}{L_1}\times i$ |
| 所需输入轴扭矩 Required torque of input shaft T1 (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、TO**参照基本参数表**)

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 TO:No-load torque (Nm)
( L1、i、η 、TO refer to basic parameter table)

### 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。

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.

升降机丝杆临界稳定载荷通过以下公式计算：

The formula to calculate the critical load as follows,

| | | |
|---|---|---|
| $P_{CR}=fm\times\left(\frac{d^2}{La}\right)^2$ | 确保 ensure | $P_{CR}>W\times SF\ (SF=4)$ |

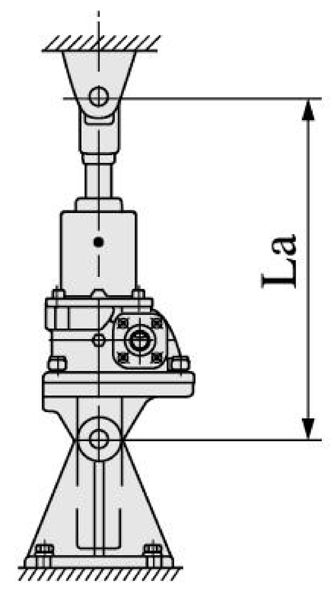
$P_{CR}$: **临界载荷** (N)
d: **丝杆底径**mm(**参照基本参数表**)
fm: **支撑系数**
La: **作用点间距离**mm
W: **单台升降机当量载荷** (N)
SF: **安全系数** (**一般**SF=4)

Pcr :Critical load (N)
d : small diameter of screw end (mm) (refer to basic parameter table)
fm : support factor
La : distance between load-supporting point and mounting point as drawing.
W : equivalent load of single Jack (N)
SF : safety factor (SF=4 as usual)

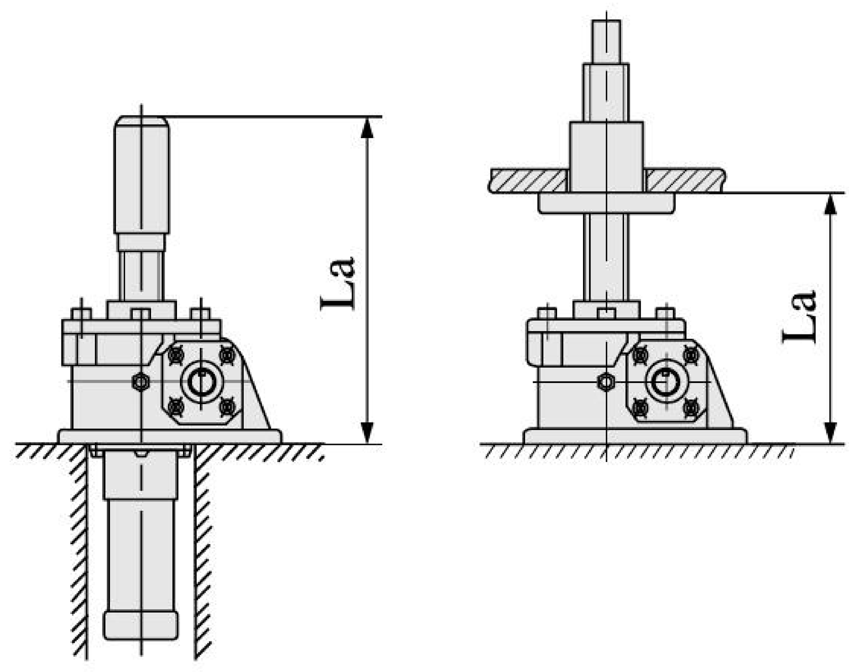
JW

丝杆轴稳定性校验时，La（La值计算根据各型号尺寸）与fm（支撑系数）选取如下：

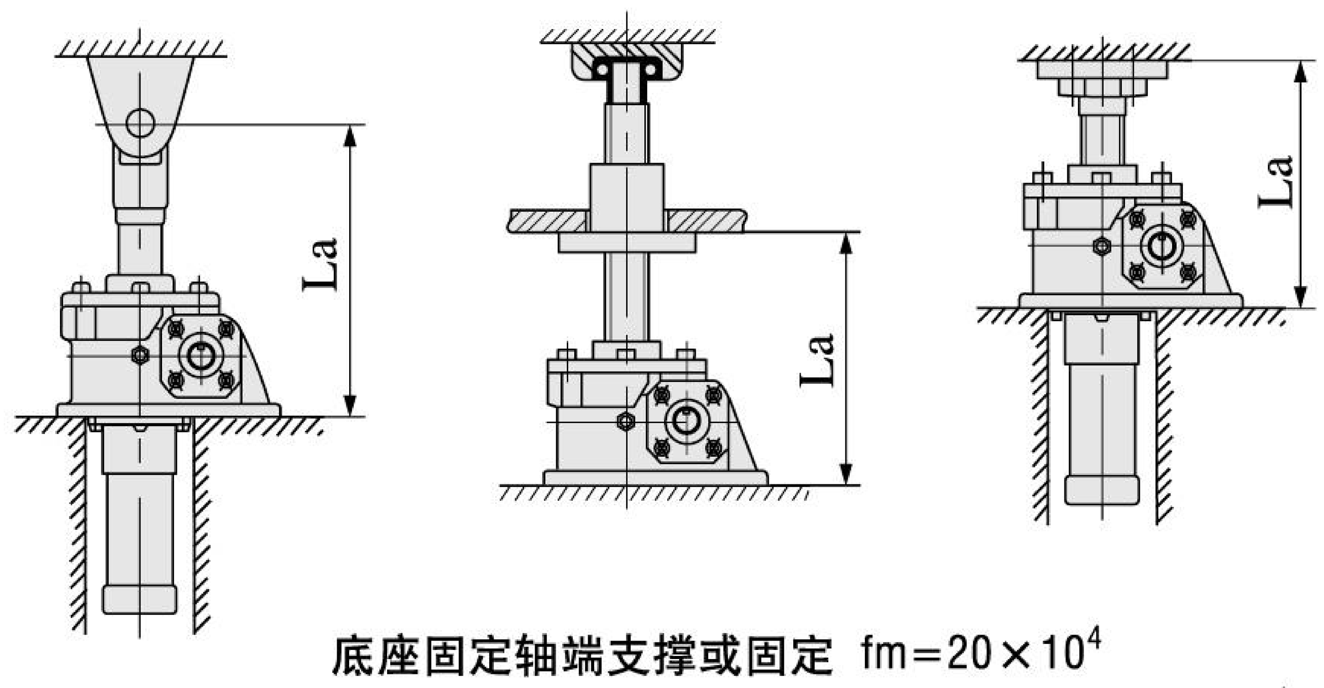
Verifying the stability of screw, the values of La and fm as follows,




两端支撑fm=10×10$^4$
support at both ends fm=10×10$^4$




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




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

## 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数以下，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.

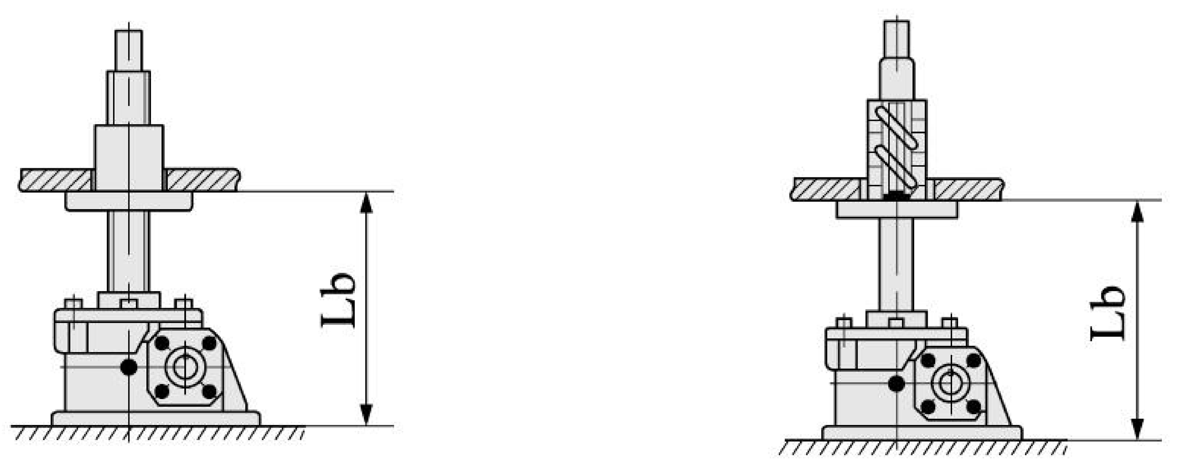
$$n_c=\frac{96\times fn\times d\times 10^6}{Lb^2} \qquad n_s=\frac{n_1}{i}$$

$n_c$:临界转速 r/min
d:丝杆底径 mm(参照基本参数表)
fn:长度系数
Lb: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

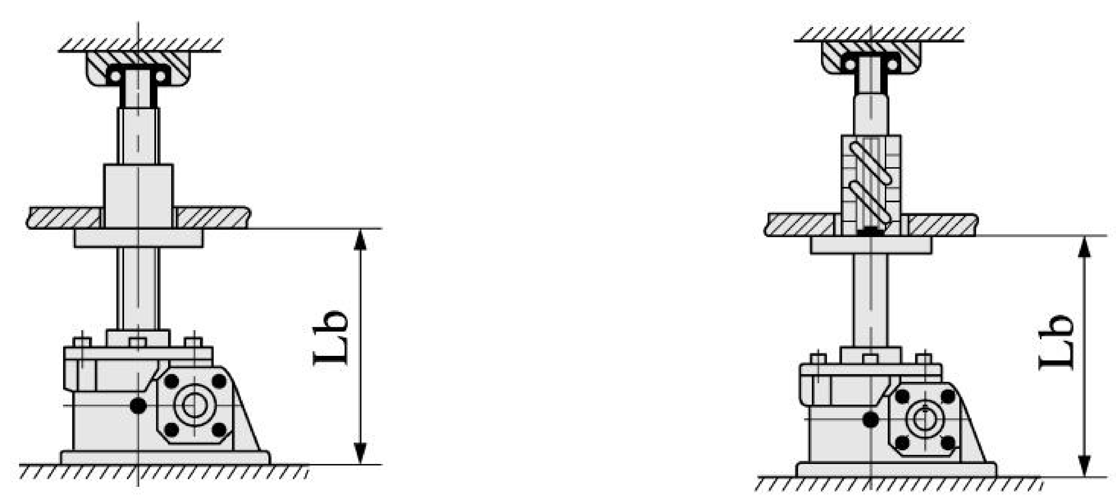
$n_c$: Permissible rotation speed of screw
$n_s$: Rotational speed of screw
d: Small diameter of screw (refer to basic parameter table)
$n_1$: Rotational speed of input shaft
fn: Length factor
i: ratio
Lb : Distance between both supporting face

丝杆轴转速校验时，Lb（Lb值计算根据各型号尺寸）与 fn（长度系数）选取如下：

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




轴端自由 fn=0.36
Movable shaft end fn=0.36




轴端支撑 fn=1.56
Shaft end supporting fn=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，轴端支撑下运转，根据外形尺寸与传动能力表查得：
d=49.3 Lb=1437

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

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

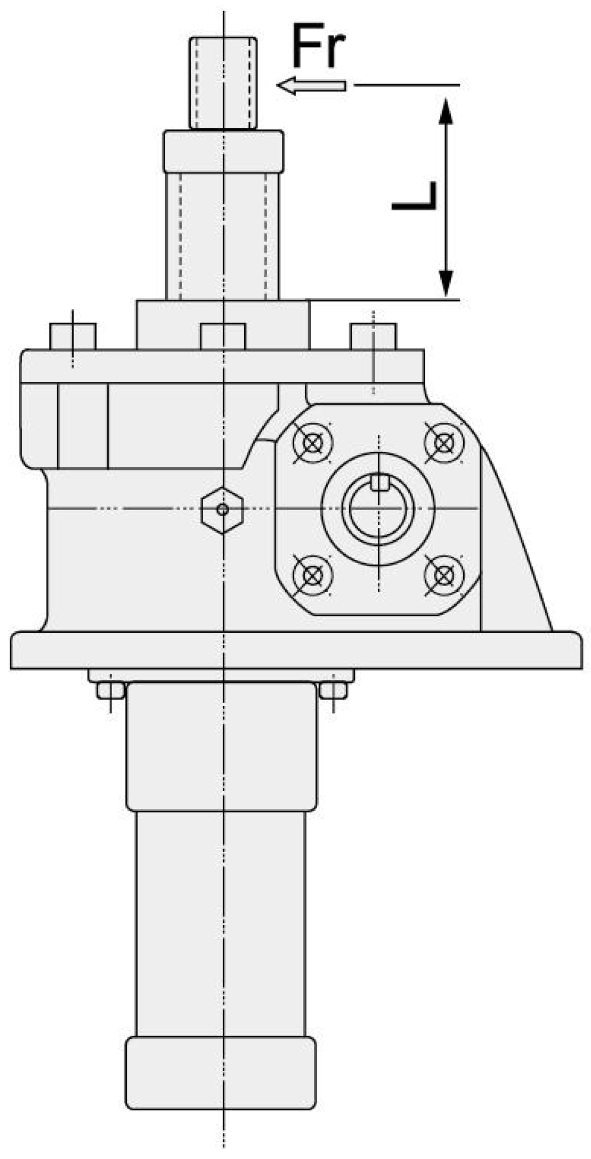
$$n_c=\frac{96\times fn\times d\times 10^6}{Lb^2}=\frac{96\times 1.56\times 49.3\times 10^6}{(1437)^2}=3575\text{r/min}$$

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

**当有横向载荷时，请外加导向器。**

When there is radial load, please add guiding device.

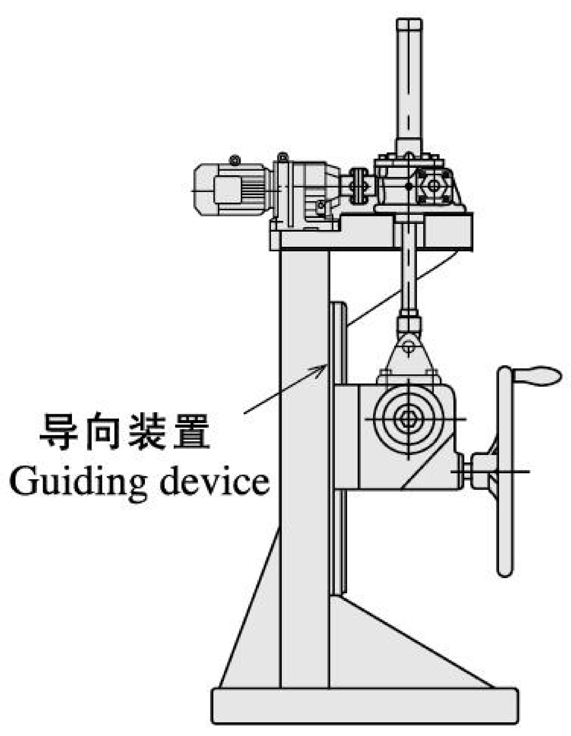
JWM 许用横向载荷Permitted radial load Fr(N)：

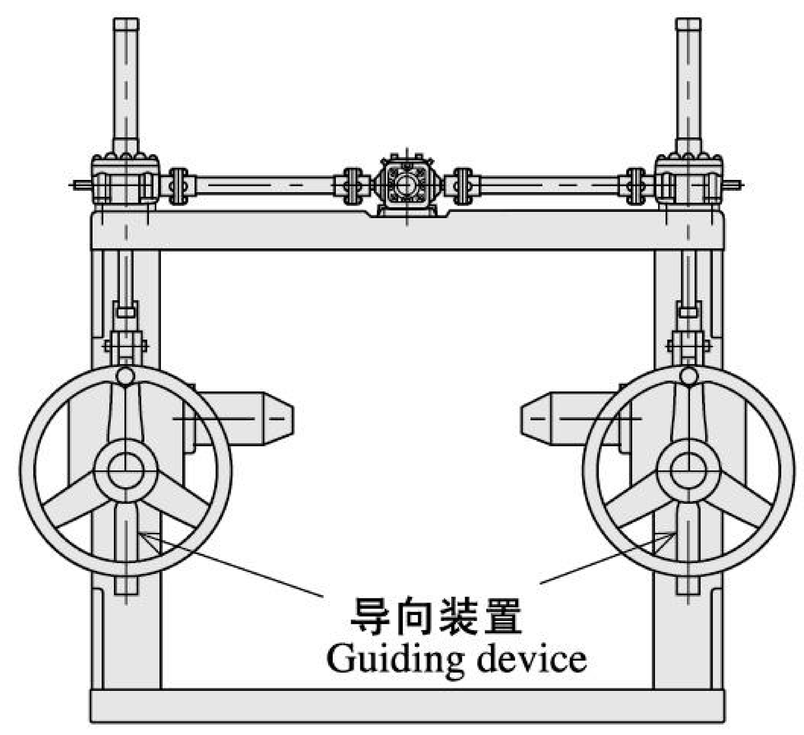


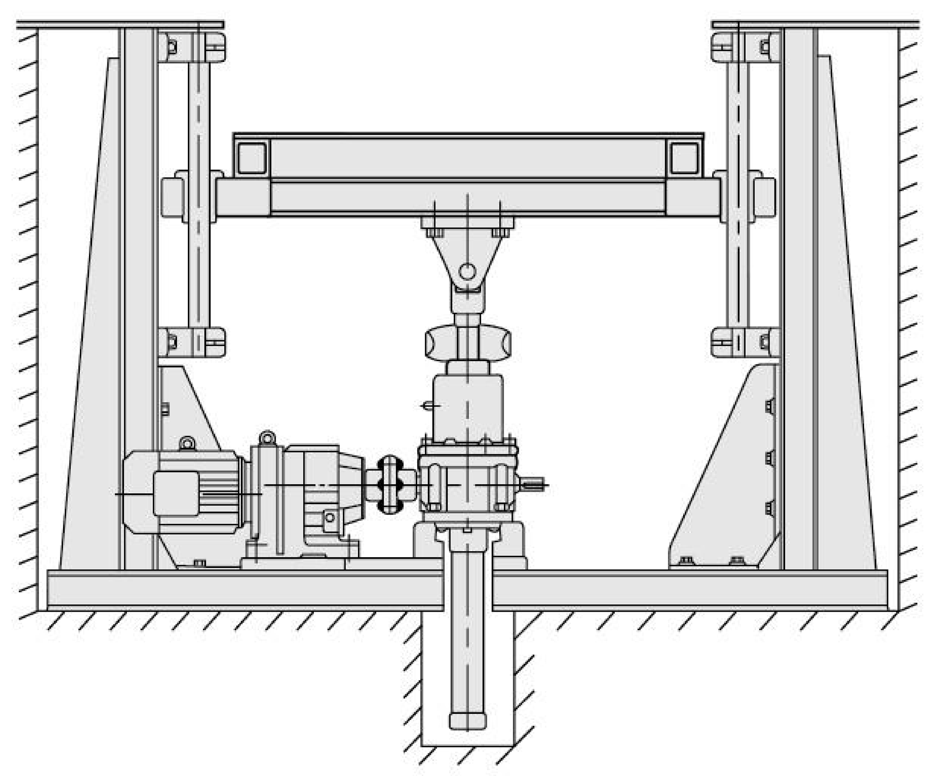

| Fr(N) / L (mm) \ Type | 010 | 025 | 050 | 100 | 150 | 200 | 300 | 500 | 750 | 1000 |
|---|---|---|---|---|---|---|---|---|---|---|
| 100 | 318 | 570 | 2500 | 4010 | 4610 | 8210 | 38200 | 85300 | 73500 | 186200 |
| 200 | 159 | 290 | 1250 | 2010 | 2300 | 4110 | 23000 | 50400 | 56800 | 145000 |
| 300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

JW

JWB或JWM超过许用横向载荷时，请外加导向装置，举例如下：
When operating radial load exceeds critical radial load, please add guiding device, for example,

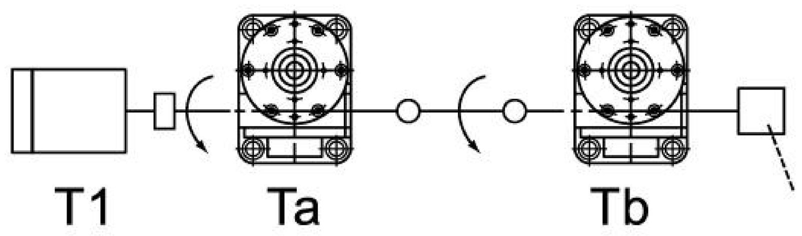


**当升降机传动配置为串联时(即同一轴线配置了两个或以上数量的升降机)如图须对各升降机输入轴端进行强度校核；**

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




Ta：为升降机a的所需输入扭矩
Tb：为升降机b的所需输入扭矩
电机必需的扭矩T1=Ta+Tb<升降机a的容许输入轴扭矩

Ta: Required torque of input shaft of jack **a**.
Tb: Required torque of input shaft of jack **b**.
Required torque of motor $T_1=T_a+T_b<$ Promitted input torque of jack **a**.

## 升降机选择举例：

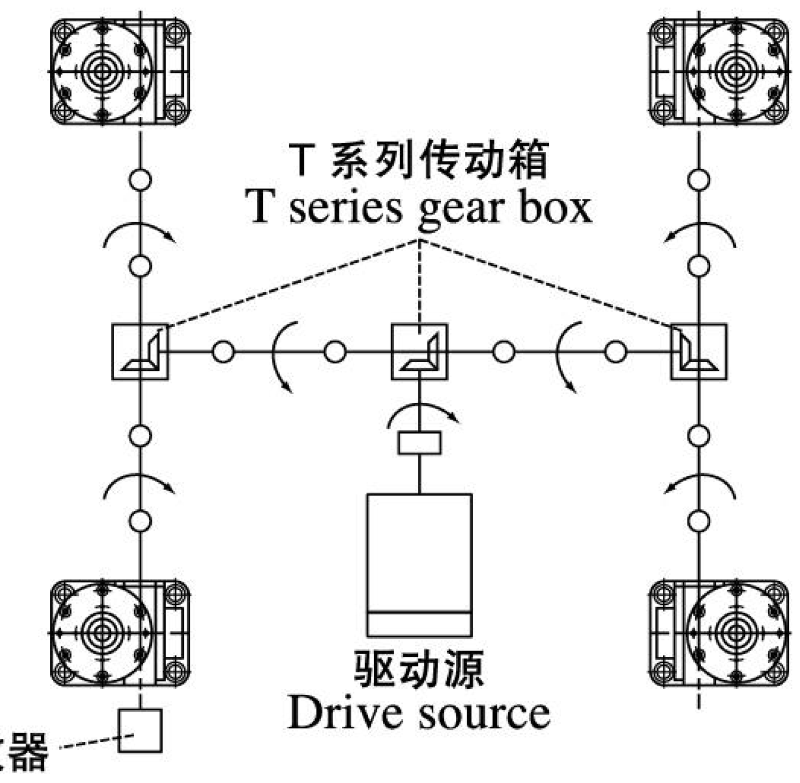
例题：4台连动押上用，结构如下图所示的4台连动模式，工厂内保持常温，有少许灰尘，有横向负荷在升降机侧面设置了导向器，安装状态采用底座固定，轴端采用一固定一支撑，电源为三相380V/50Hz，使用频率为2次/小时×8小时

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Ws（取被驱动设备系数为1.3）
Ws=Wmax・f1=88200×1.3=114660N

2). 计算单台当量载荷W

Determine Jack type,

1) Calculate total equivalent load Ws
(Factor for driven machine is 1.3)
Ws=Wmax・f1=88200×1.3=114660N

2) Calculate equivalent load of single jack:

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

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：

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:

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

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

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

(2)参照基本参数表，Pmax=2.2kW>P1……OK

(2) Refer to basic parameter table, Pmax=2.2kW>P1 … ...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：

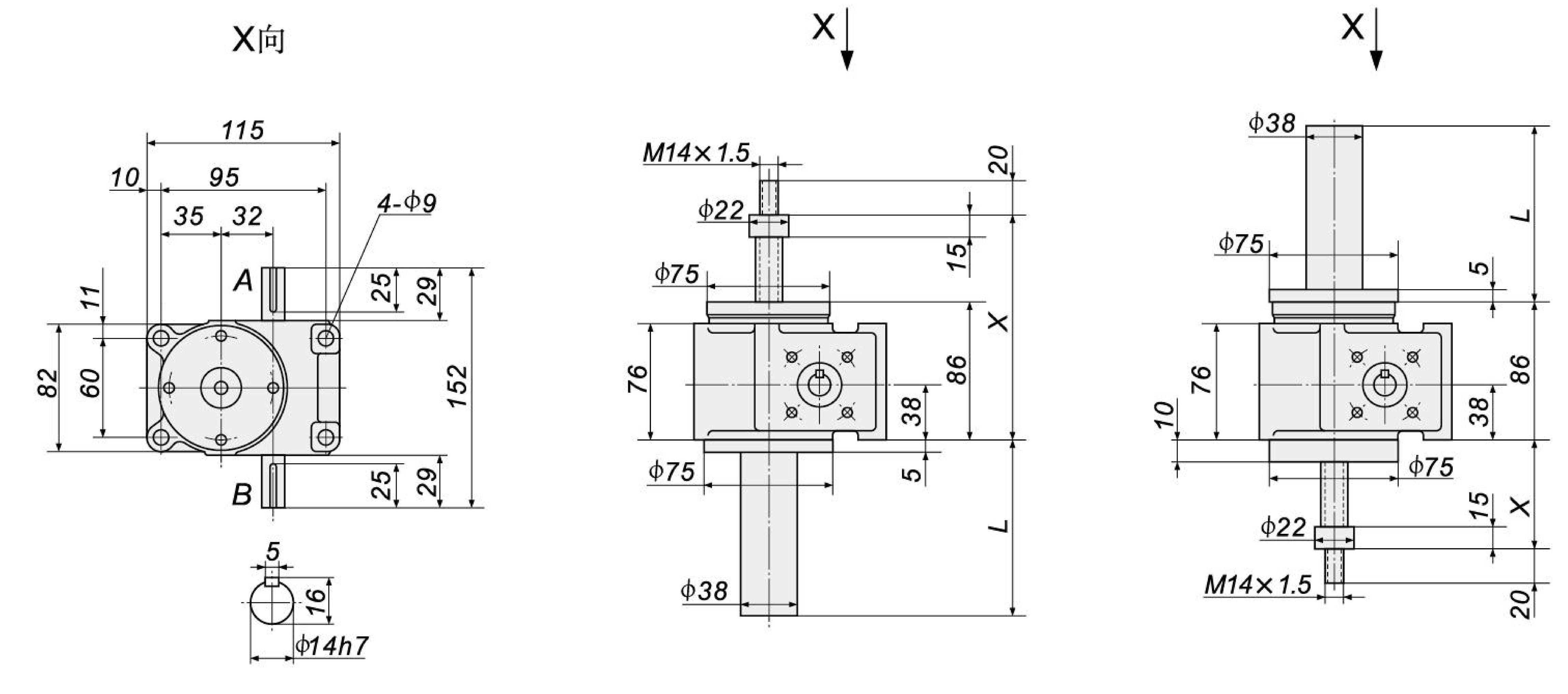
6) Verify the stability of screw
For under axial load, refer to transmission table and dimension for the following figures,

d=31.3　La=604+33=637　$fm=20\times 10^4$　SF=4

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

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

## JWM010

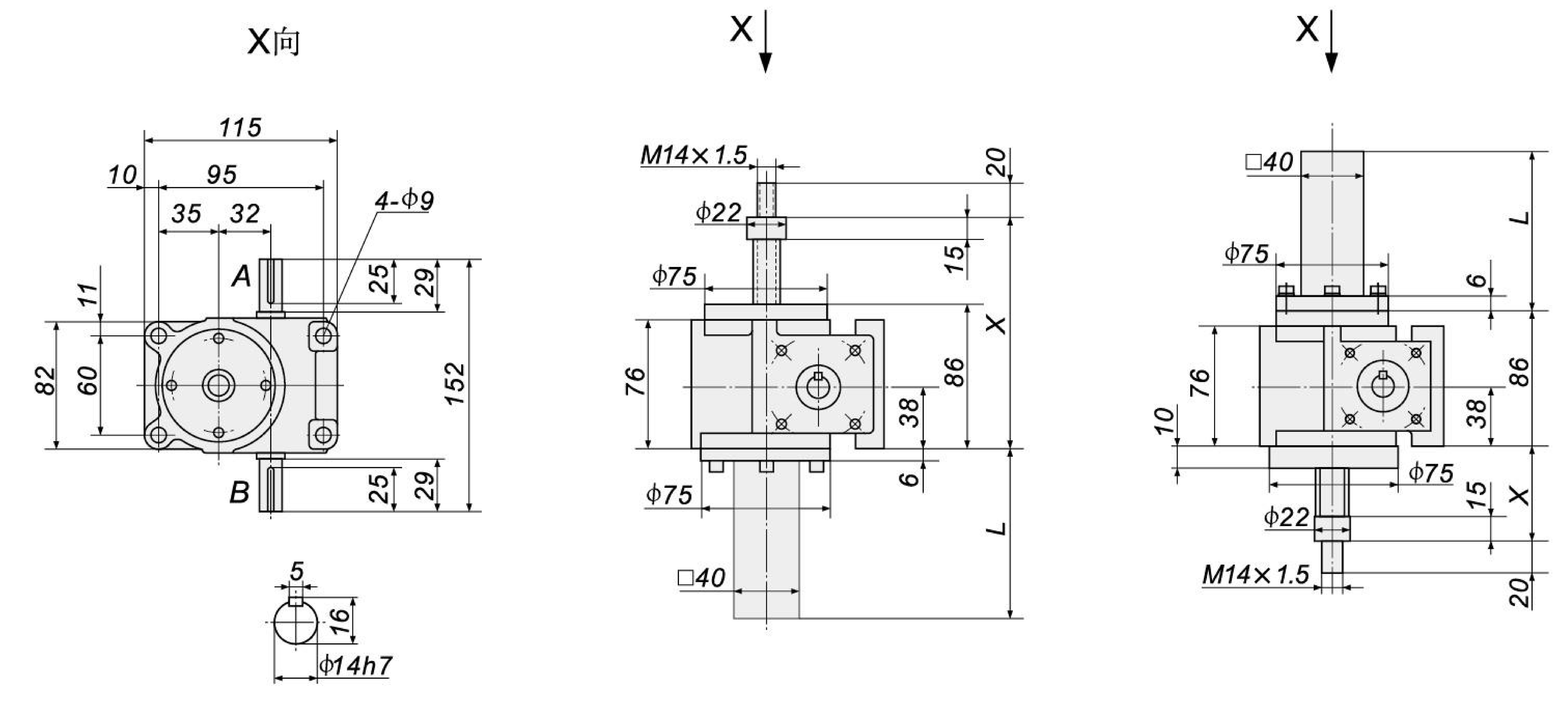



JWM010US

JWM010DS

| 行程(mm) Journey | US | | | | | |
|---|---|---|---|---|---|---|
| | X MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
| 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 |

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

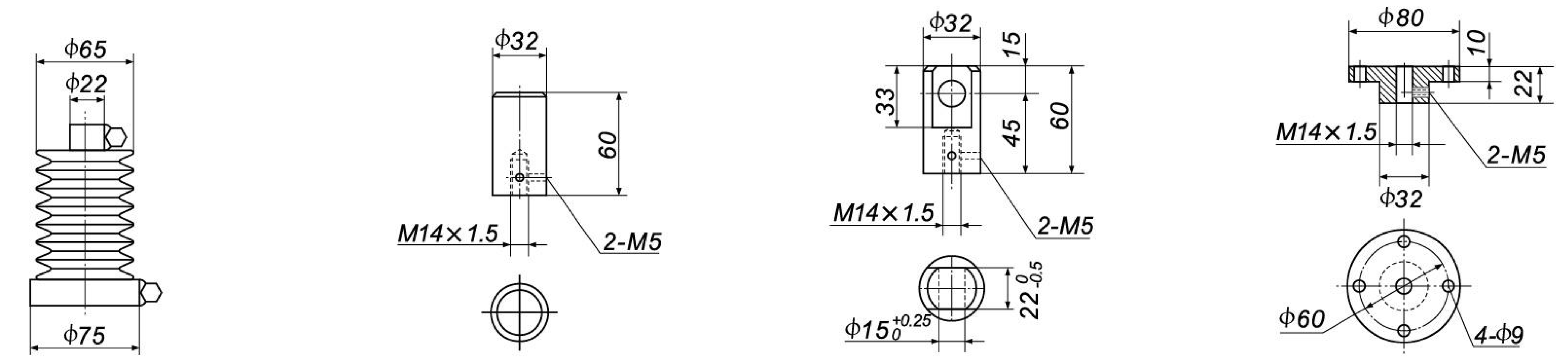



JWM010UM

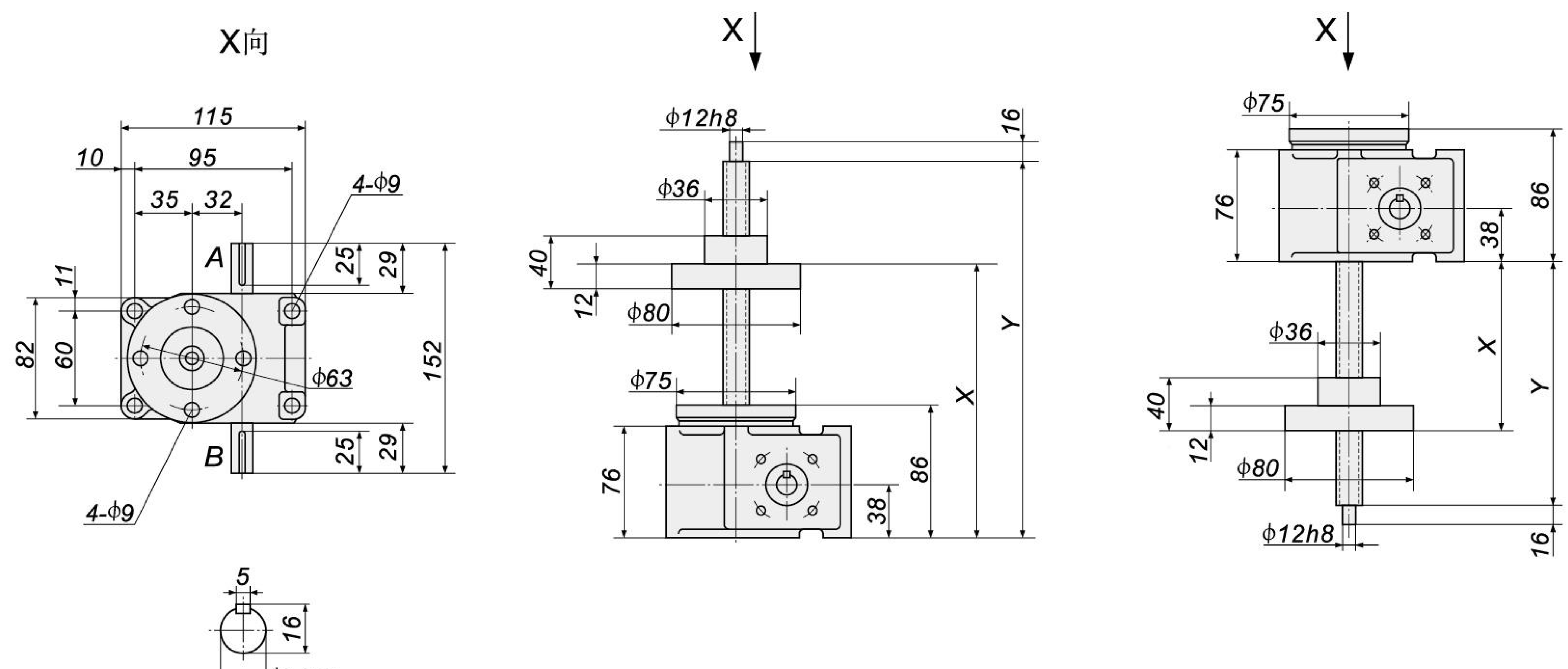
JWM010DM

| 行程(mm) Journey | UM | | | | | |
|---|---|---|---|---|---|---|
| | X MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
| 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 |

| 行程(mm) Journey | DM | | | | | |
|---|---|---|---|---|---|---|
| | X MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
| 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




JWM010UR

JWM010DR

| 行程(mm) Journey | UR | | | |
|---|---|---|---|---|
| | X MIN | X MAX | Y | m (kg) |
| 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 |

| 行程(mm) Journey | DR | | | |
|---|---|---|---|---|
| | X MIN | X MAX | Y | m (kg) |
| 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 |

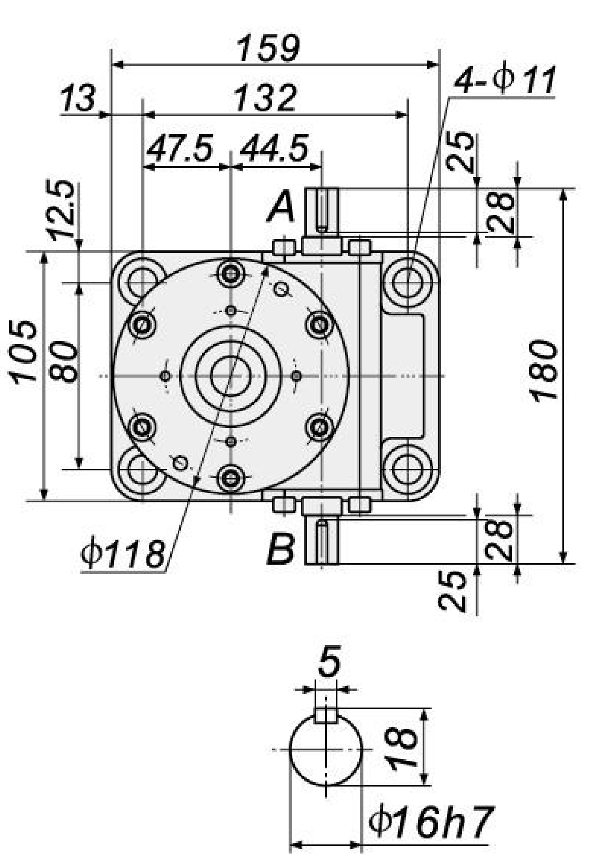
注：X(1)为加防尘罩时尺寸。

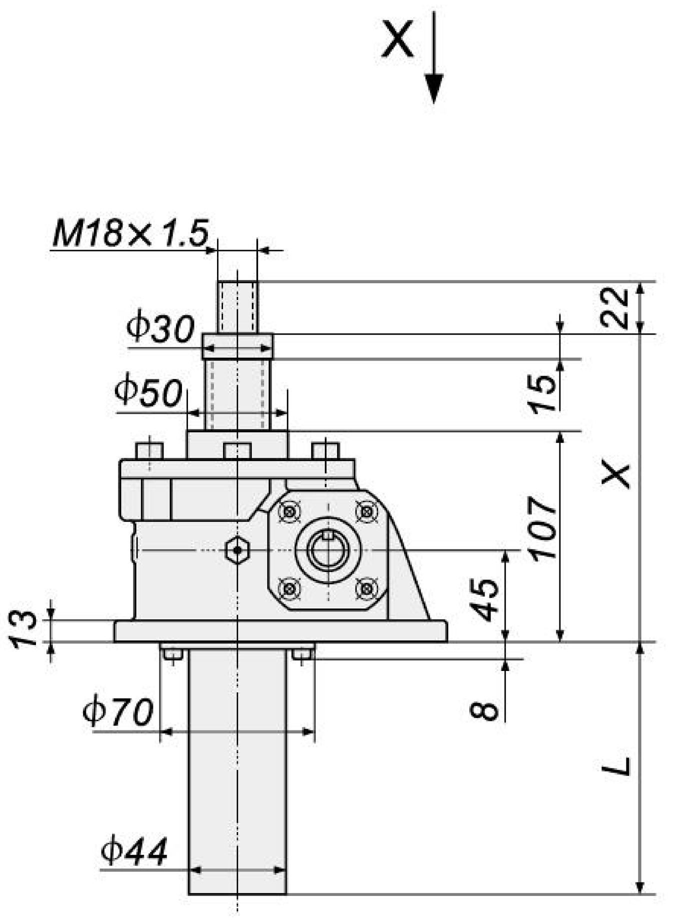
Note: “X(1)” is the dimension of jack with dust hood.



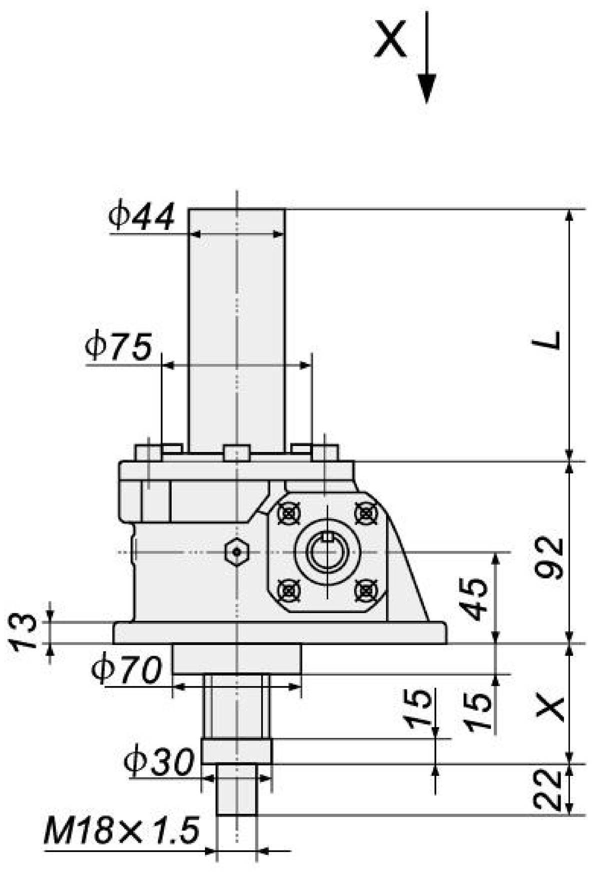
JW

## JWM025



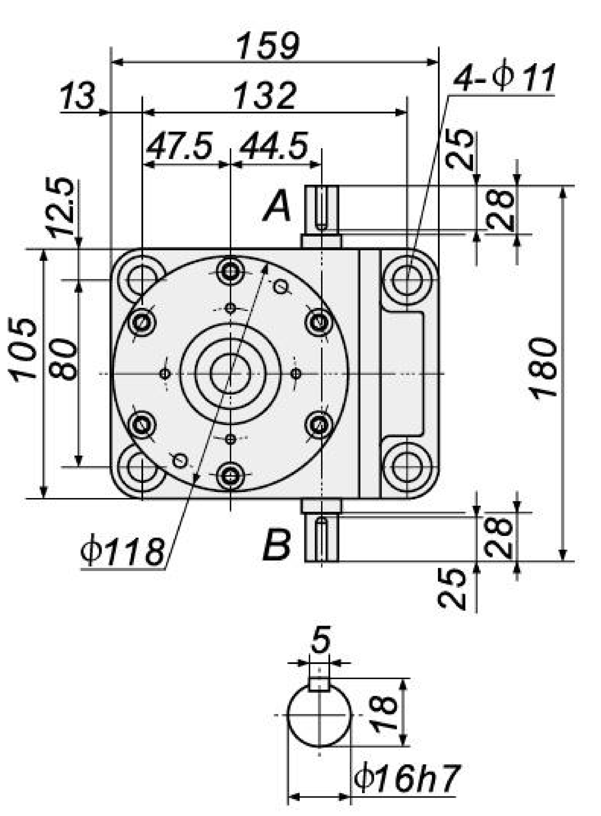

JWM025US

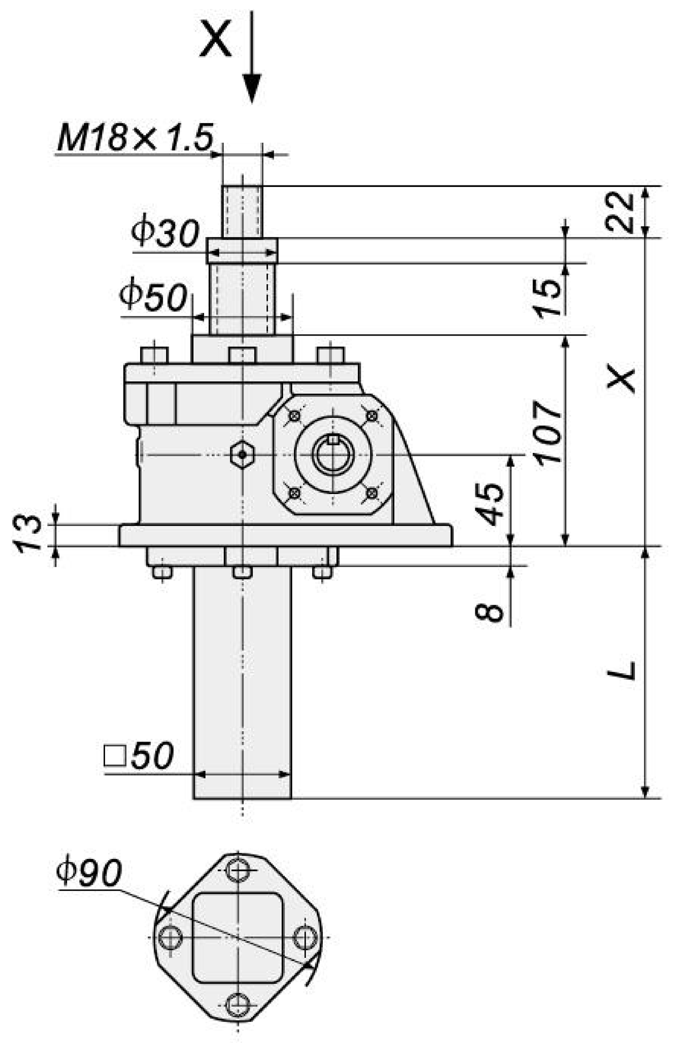



JWM025DS

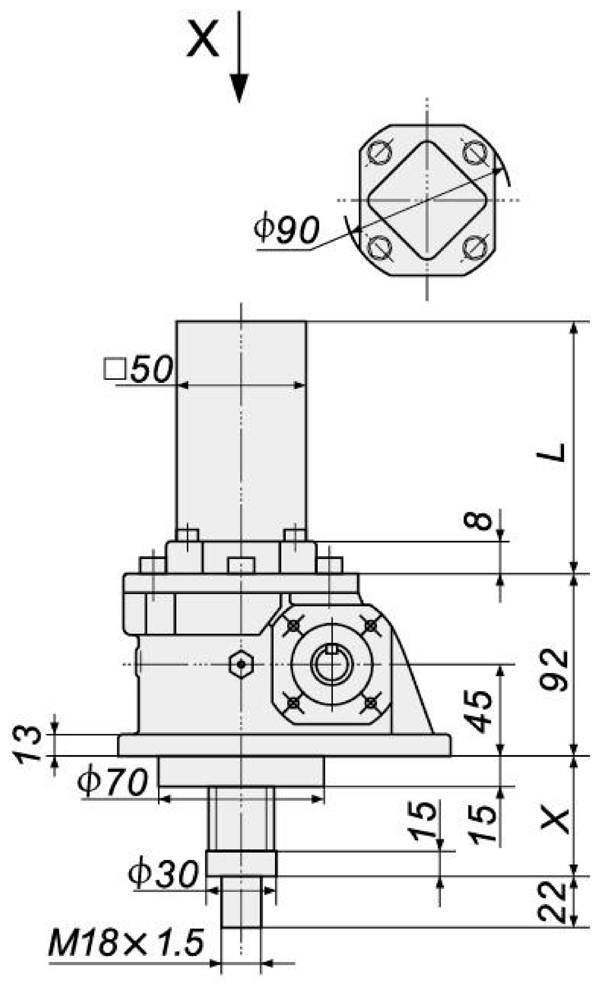
| 行程 (mm) Journey | U S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 132 | 232 | 147 | 247 | 149 | 7.7 |
| 200 | 132 | 332 | 147 | 347 | 249 | 8.1 |
| 300 | 132 | 432 | 167 | 467 | 369 | 8.5 |
| 400 | 132 | 532 | 167 | 567 | 469 | 8.9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

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



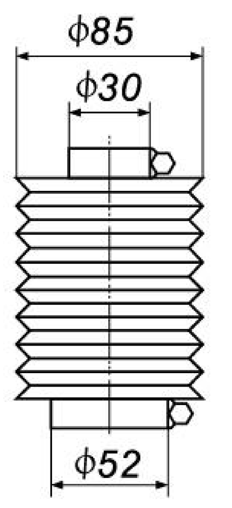

JWM025UM



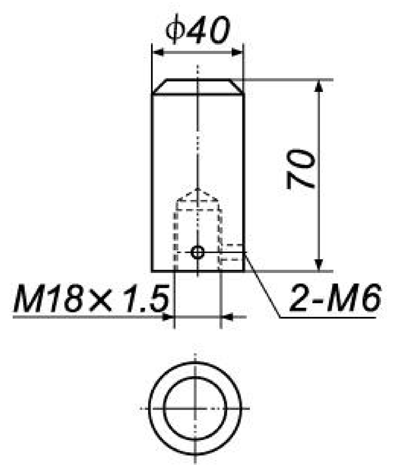

JWM025DM

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

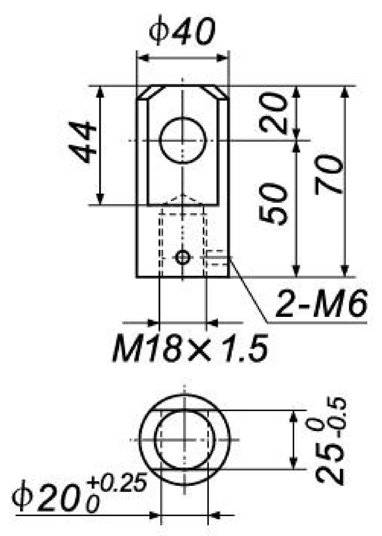
| 行程 (mm) Journey | D M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 42 | 142 | 57 | 157 | 175 | 10 |
| 200 | 42 | 242 | 57 | 257 | 275 | 12 |
| 300 | 42 | 342 | 77 | 377 | 395 | 13 |
| 400 | 42 | 442 | 77 | 477 | 495 | 14 |
| 500 |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



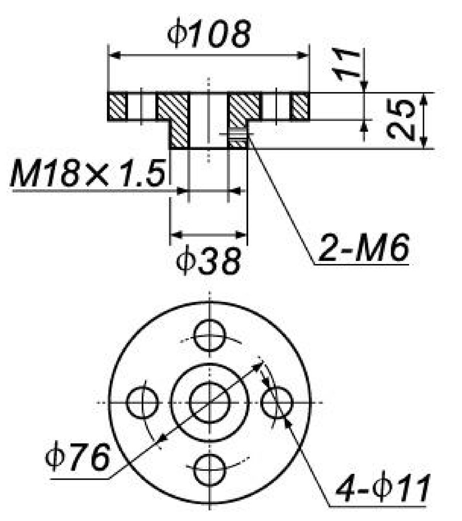

J



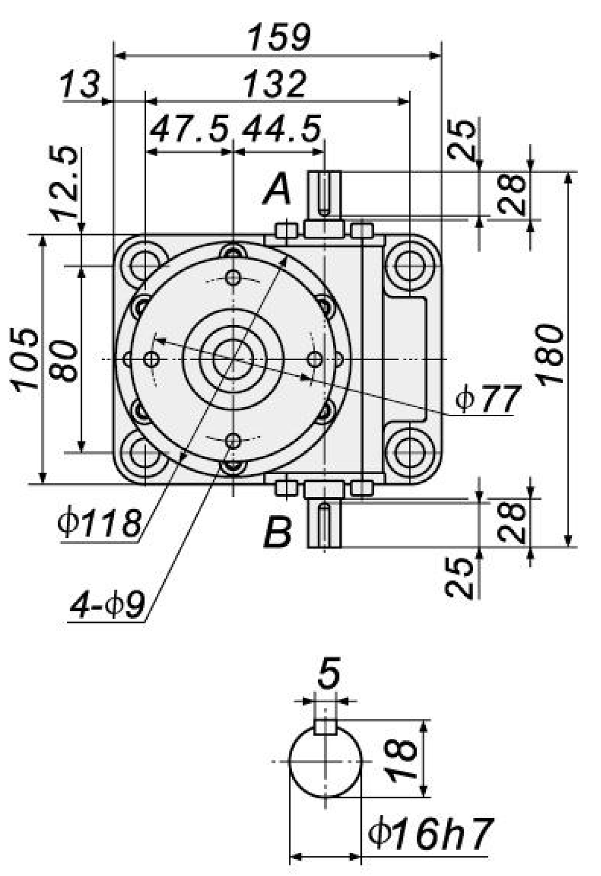

B

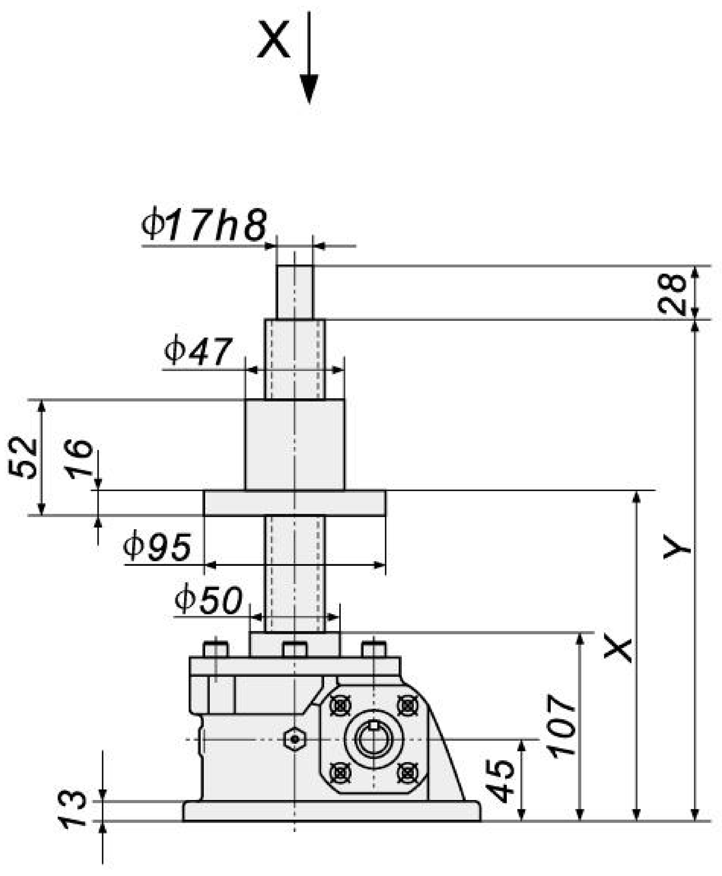



I

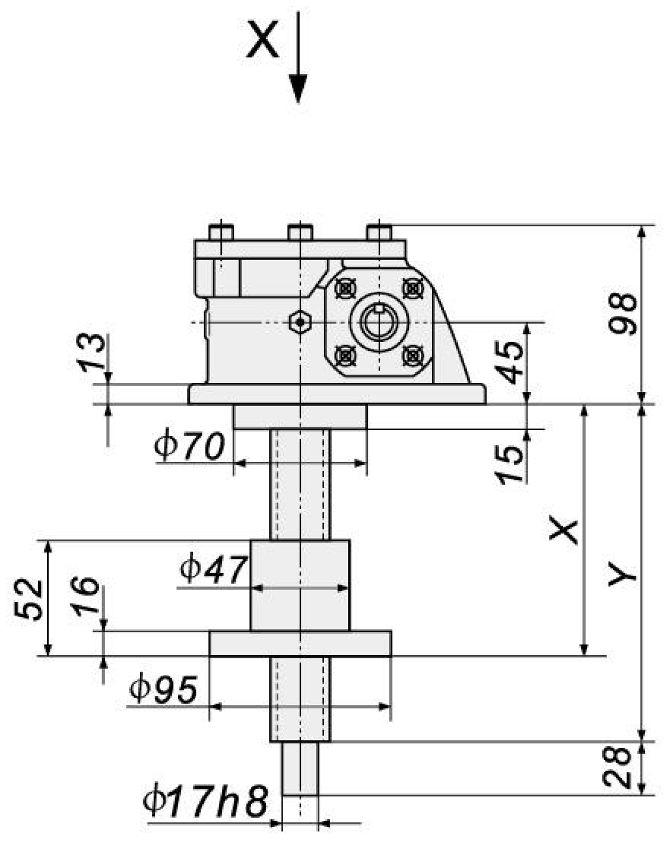



M




JWM025UR




JWM025DR

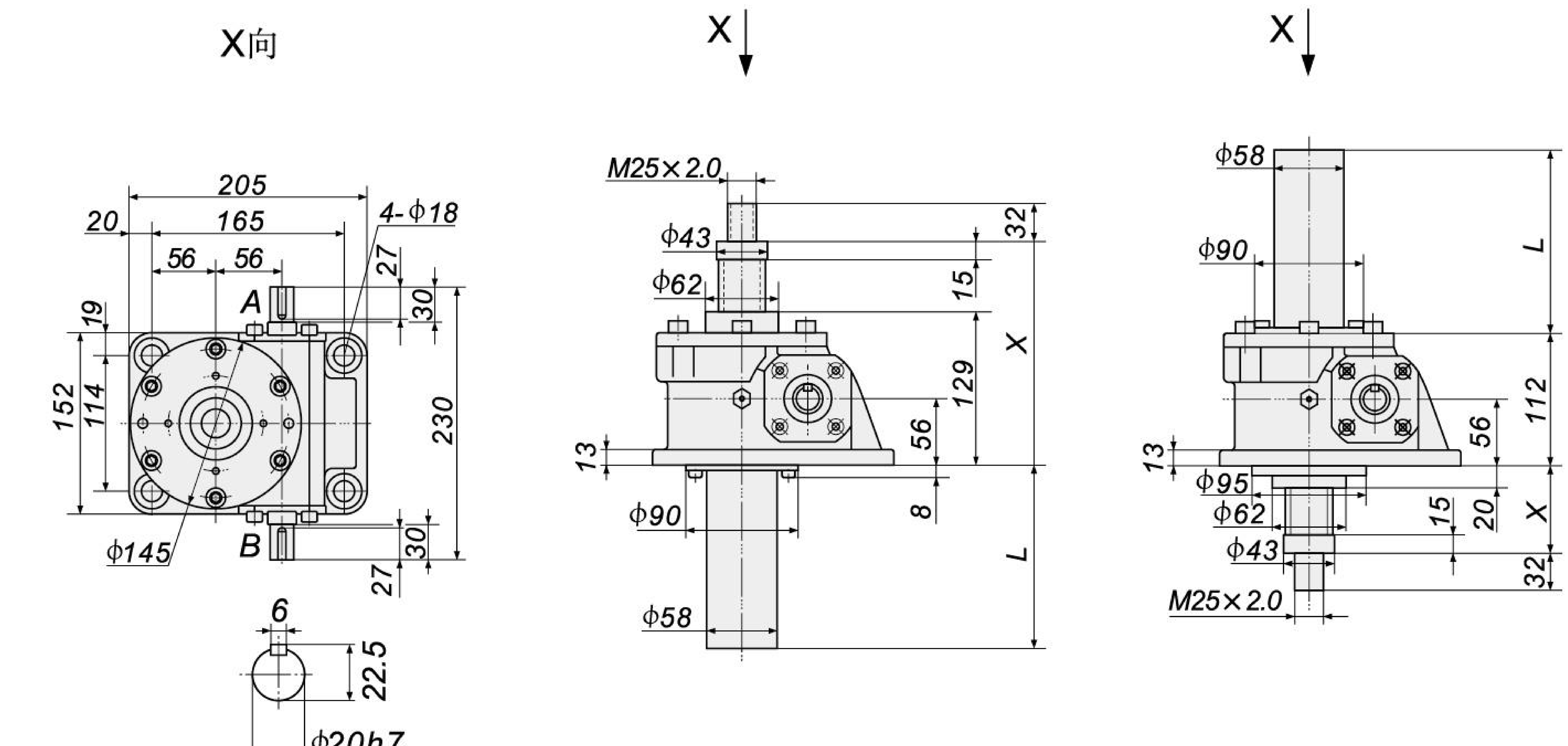
| 行程 (mm) Journey | U R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 133 | 233 | 279 | 9.2 |
| 200 | 133 | 333 | 379 | 9.5 |
| 300 | 133 | 433 | 479 | 9.9 |
| 400 | 133 | 533 | 579 | 11 |
| 500 | 133 | 633 | 679 | 11 |
| 600 | 133 | 733 | 779 | 11 |
| 800 | 133 | 933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

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

注：X(1) 为加防尘罩时尺寸。

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

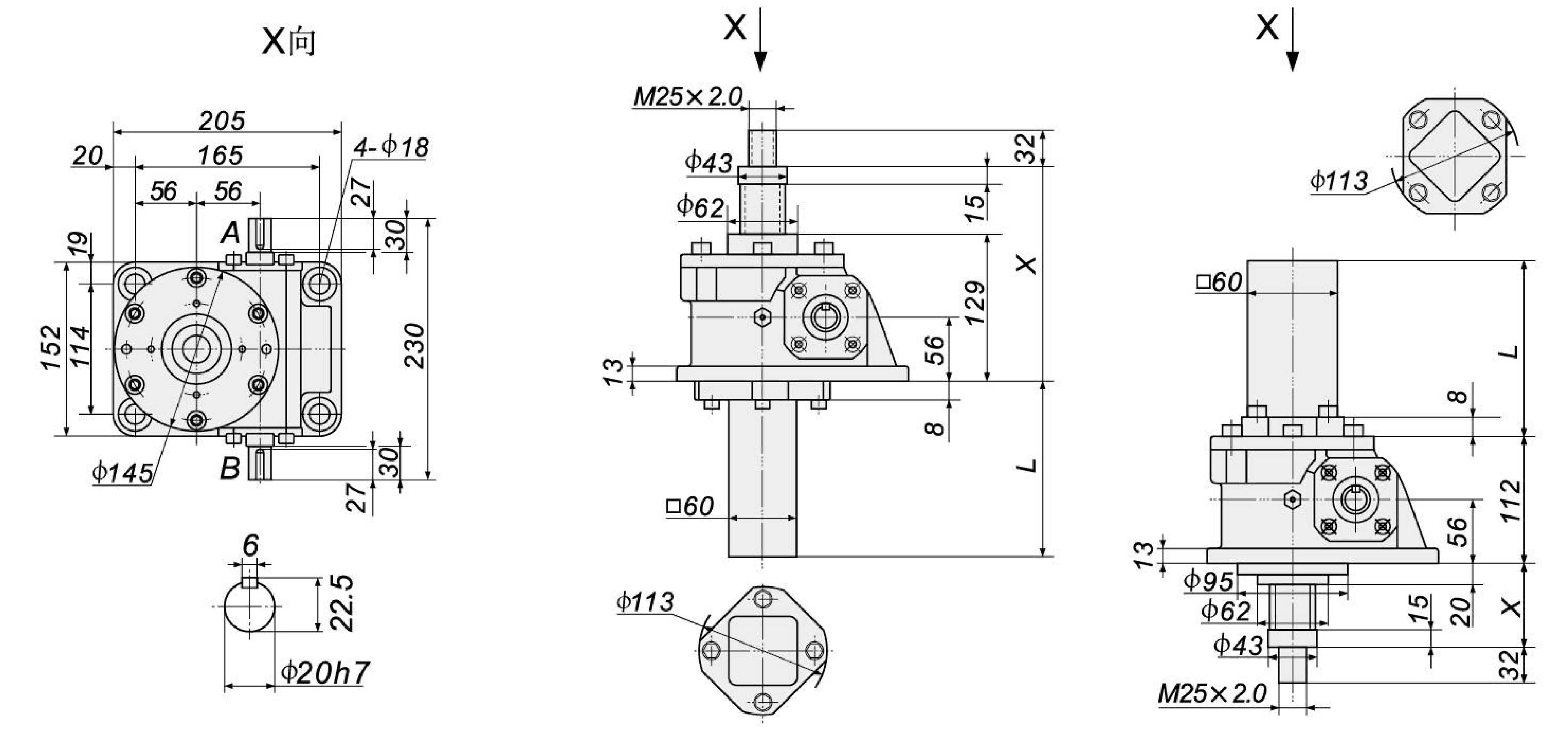
## JWM050




JWM050US　　JWM050DS

| 行程 (mm) Journey | US X MIN | US X MAX | US X(1) MIN | US X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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 |

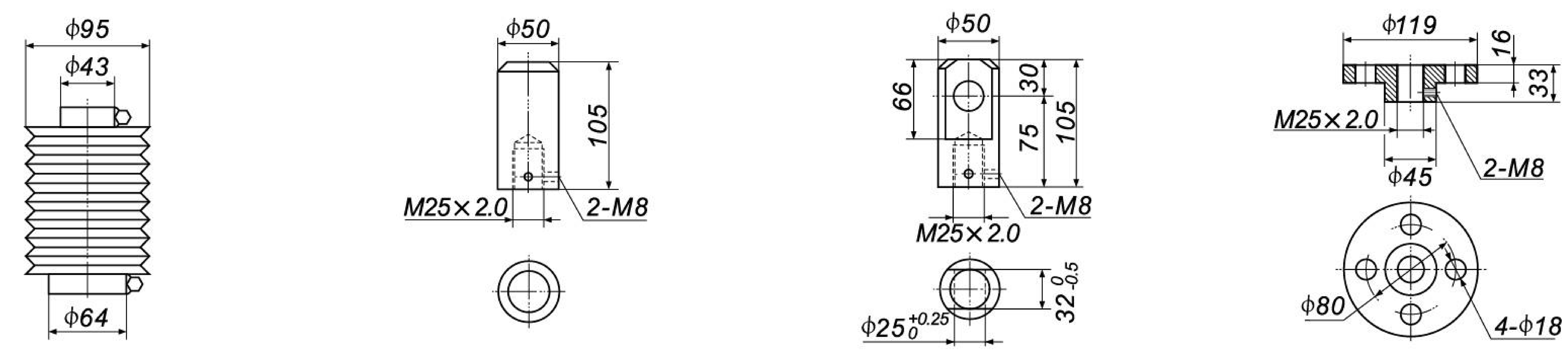
| 行程 (mm) Journey | DS X MIN | DS X MAX | DS X(1) MIN | DS X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 42 | 142 | 57 | 157 | 147 | 18 |
| 200 | 42 | 242 | 57 | 257 | 247 | 19 |
| 300 | 42 | 342 | 77 | 377 | 367 | 20 |
| 400 | 42 | 442 | 77 | 477 | 467 | 21 |
| 500 | 42 | 542 | 97 |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



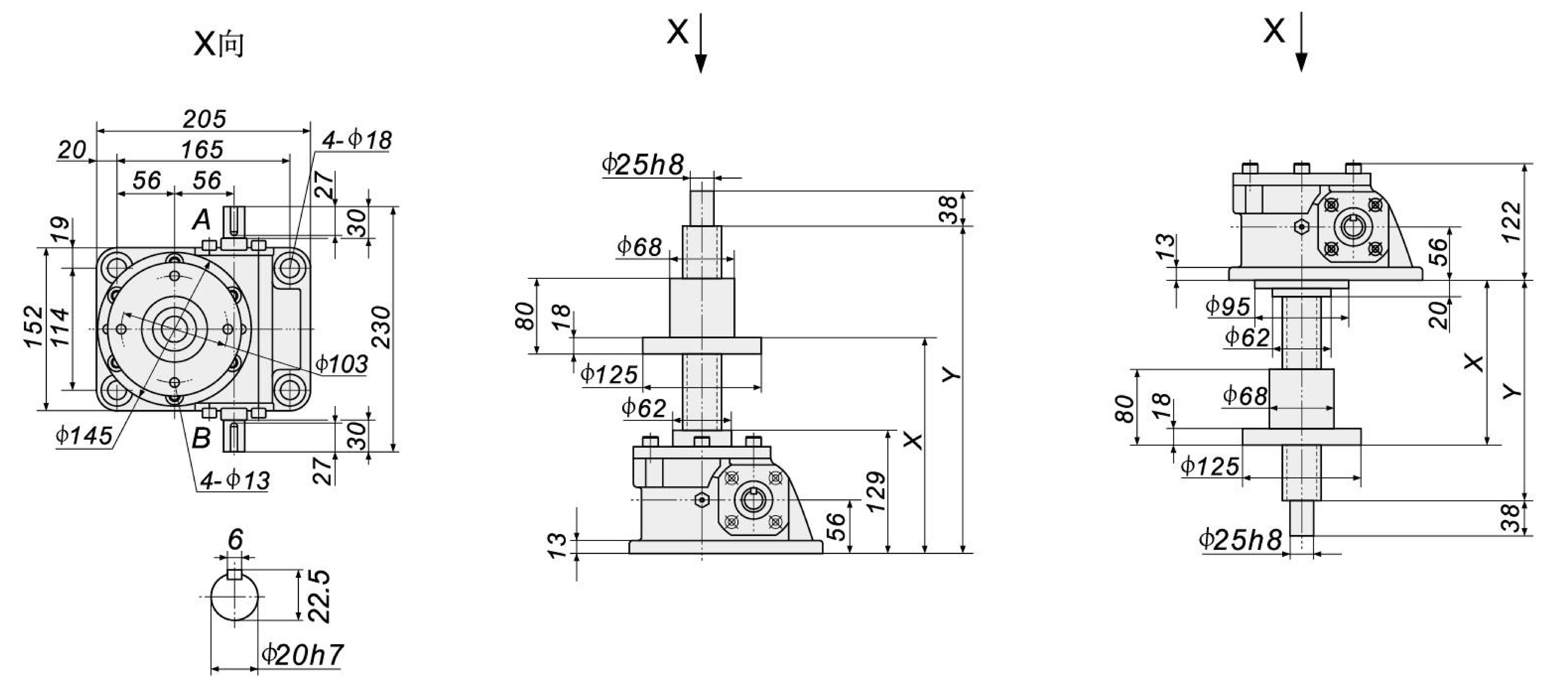

JWM050UM　　JWM050DM

| 行程 (mm) Journey | UM X MIN | UM X MAX | UM X(1) MIN | UM X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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 |

| 行程 (mm) Journey | DM X MIN | DM X MAX | DM X(1) MIN | DM X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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

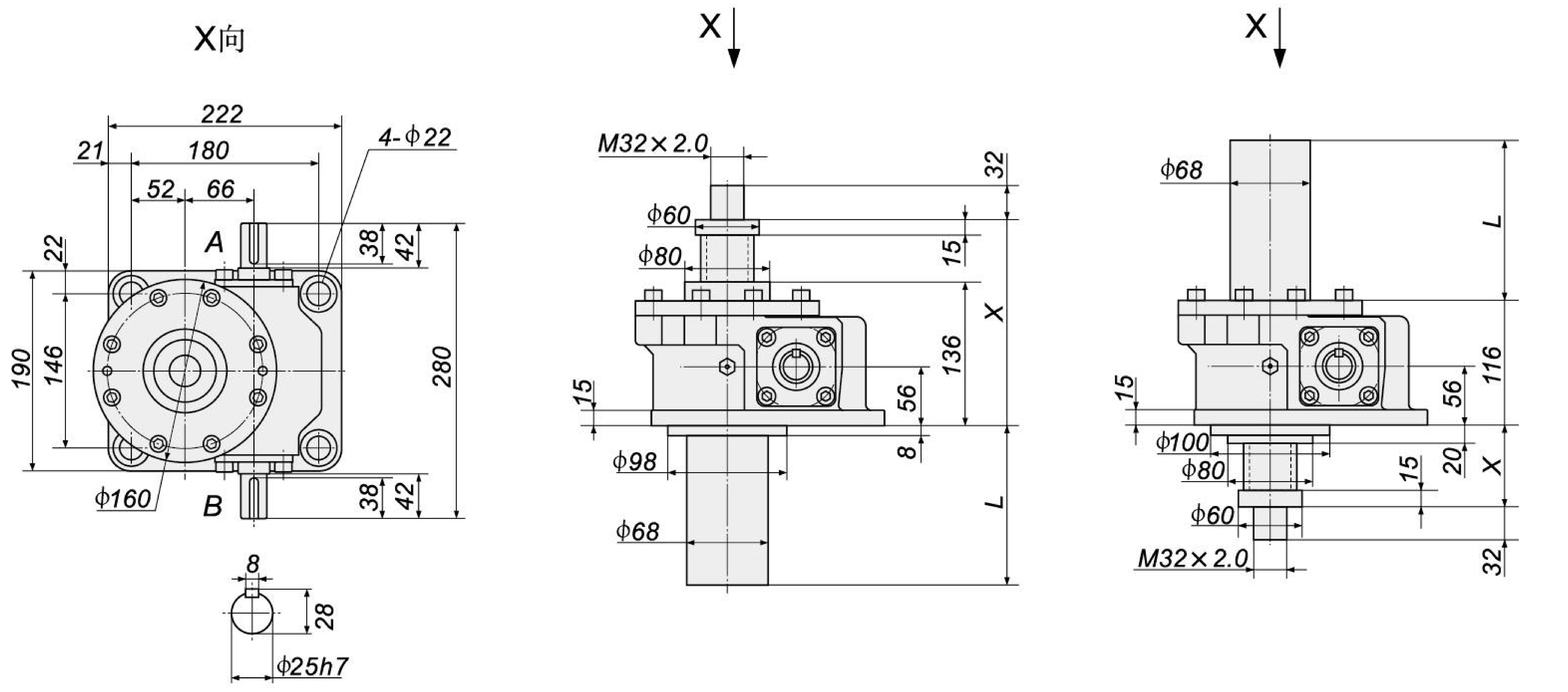
| 行程 (mm) Journey | UR X MIN | UR X MAX | Y | m (kg) |
|---|---|---|---|---|
| 100 | 157 | 257 | 330 | 22 |
| 200 | 157 | 357 | 430 | 22 |
| 300 | 157 | 457 | 530 | 23 |
| 400 | 157 | 557 | 630 | 24 |
| 500 | 157 | 657 | 730 | 25 |
| 600 | 157 | 757 | 830 | 26 |
| 800 | 157 | 957 | 1030 | 27 |
| 1000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

| 行程 (mm) Journey | DR X MIN | DR X MAX | Y | m (kg) |
|---|---|---|---|---|
| 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 |

注：X(1)为加防尘罩时尺寸。

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

## JWM100

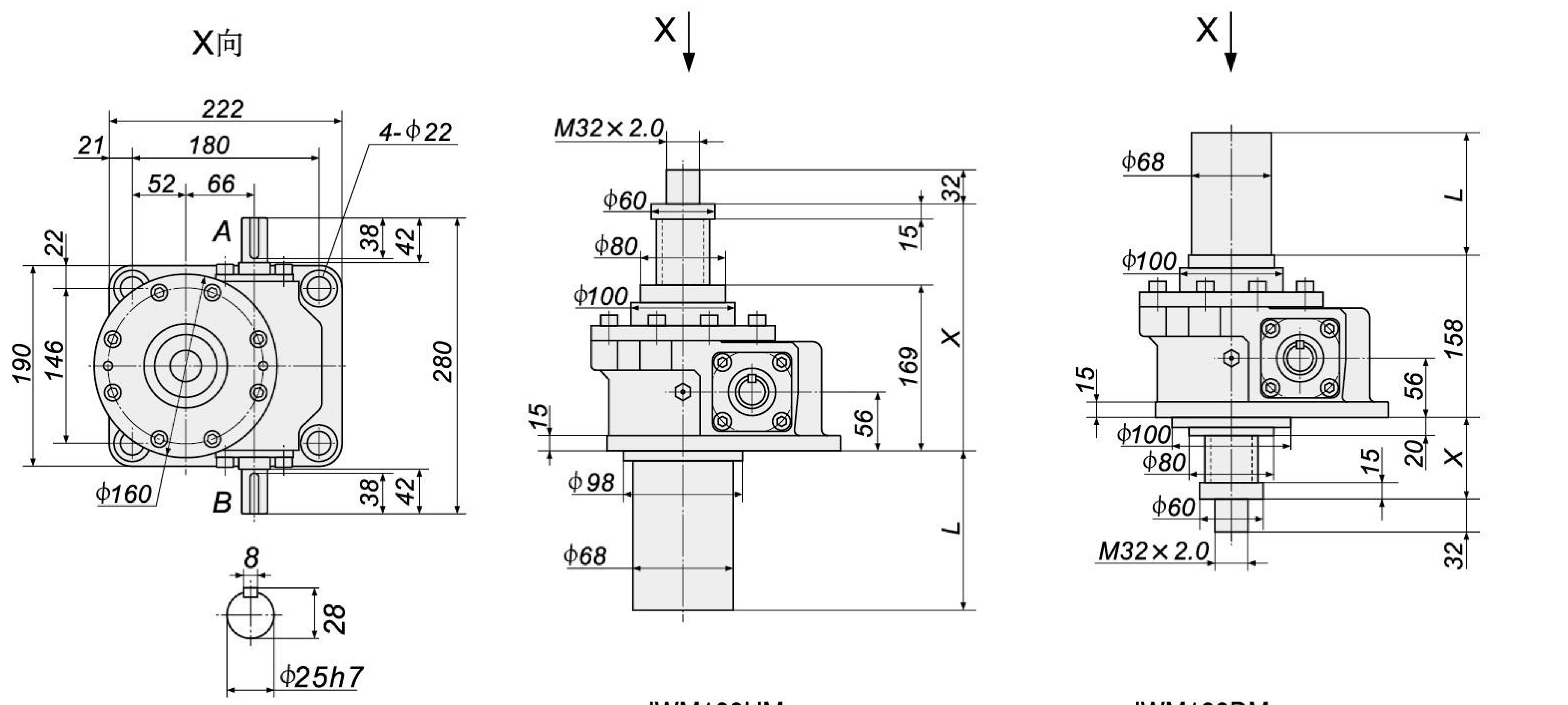


JWM100US　　JWM100DS

| 行程(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 |

| 行程(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 |

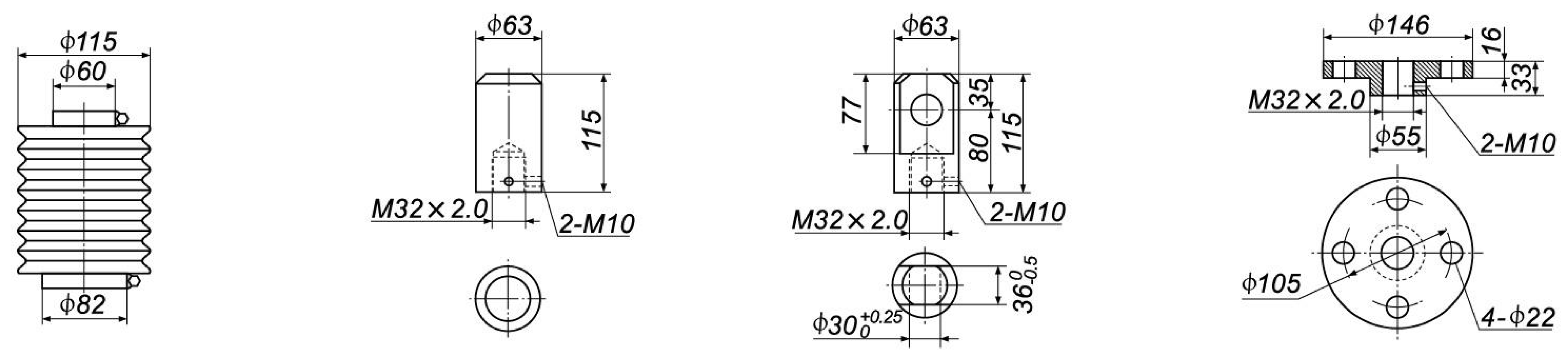




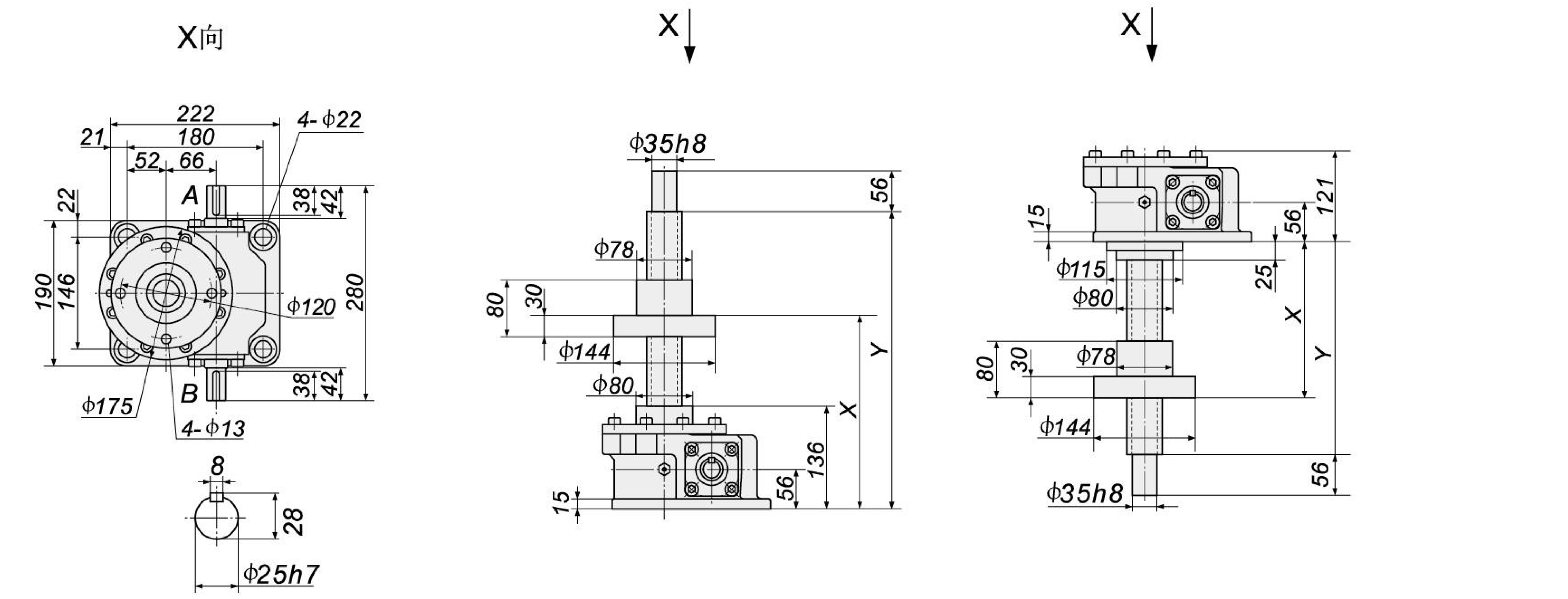
JWM100UM　　JWM100DM

| 行程(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 |

| 行程(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

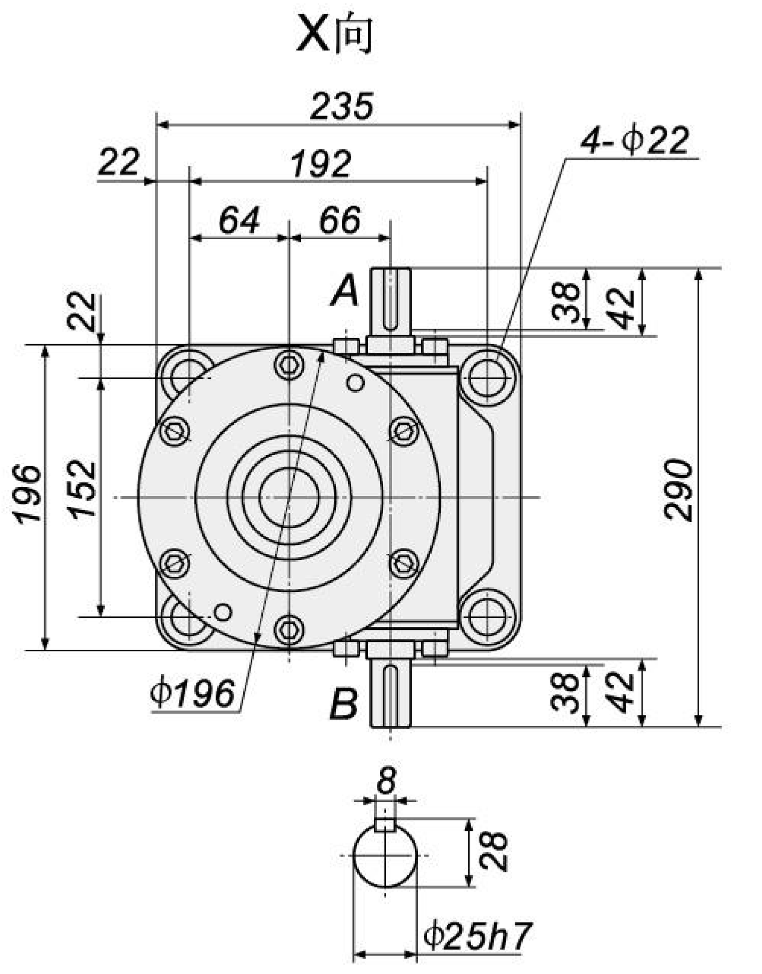
| 行程(mm) Journey | U R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 184 | 284 | 344 | 32 |
| 200 | 184 | 384 | 444 | 33 |
| 300 | 184 | 484 | 544 | 34 |
| 400 | 184 | 584 | 644 | 36 |
| 500 | 184 | 684 | 744 | 37 |
| 600 | 184 | 784 | 844 | 38 |
| 800 | 184 | 984 |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

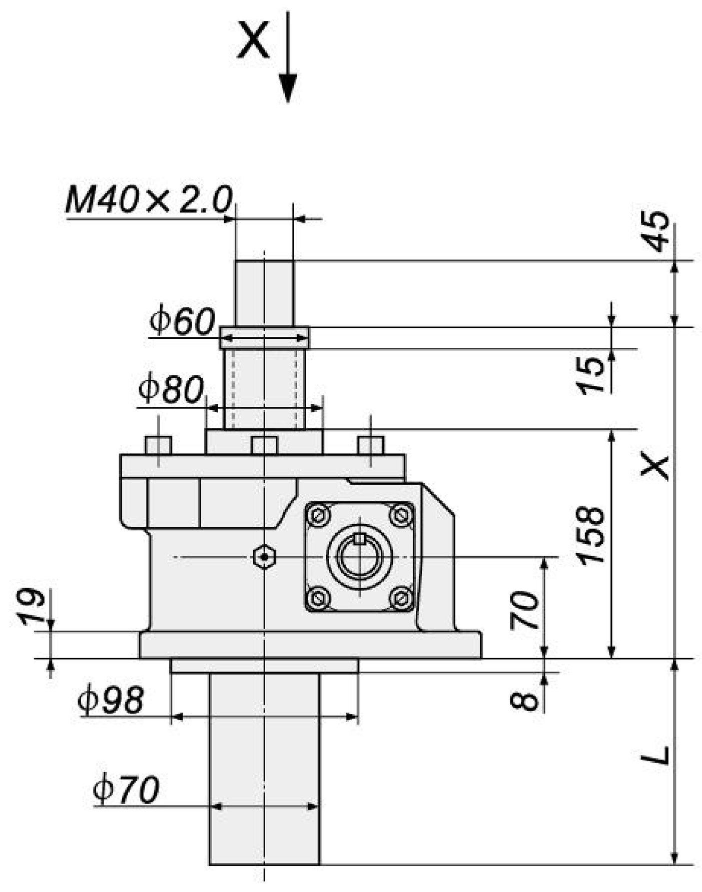
| 行程(mm) Journey | D R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 115 | 215 | 225 | 32 |
| 200 | 115 | 315 | 325 | 33 |
| 300 | 115 | 415 | 425 | 34 |
| 400 | 115 | 515 | 525 | 36 |
| 500 | 115 | 615 | 625 | 37 |
| 600 | 115 | 715 | 725 | 38 |
| 800 | 115 | 915 |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

注：X(1) 为加防尘罩时尺寸。

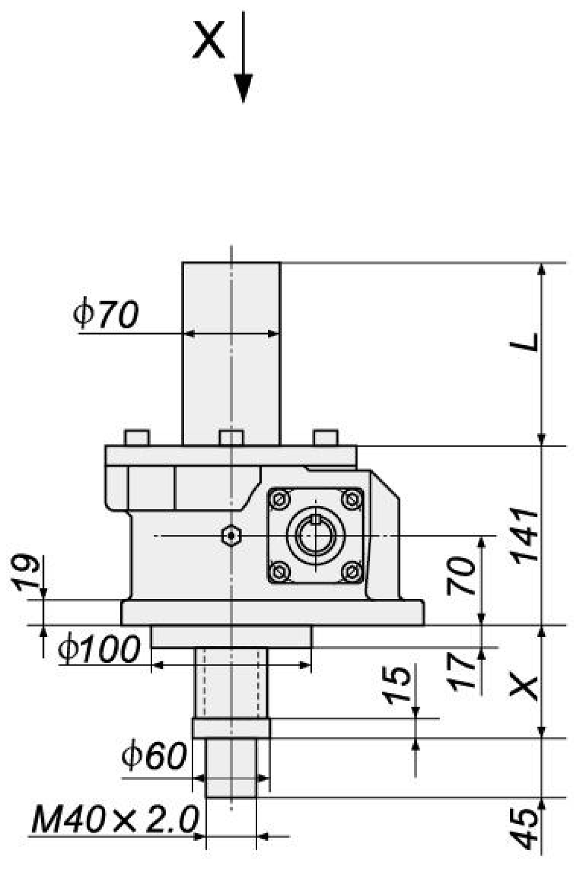
Note: "X(1)" is the dimension of jack with dust hood.

## JWM150



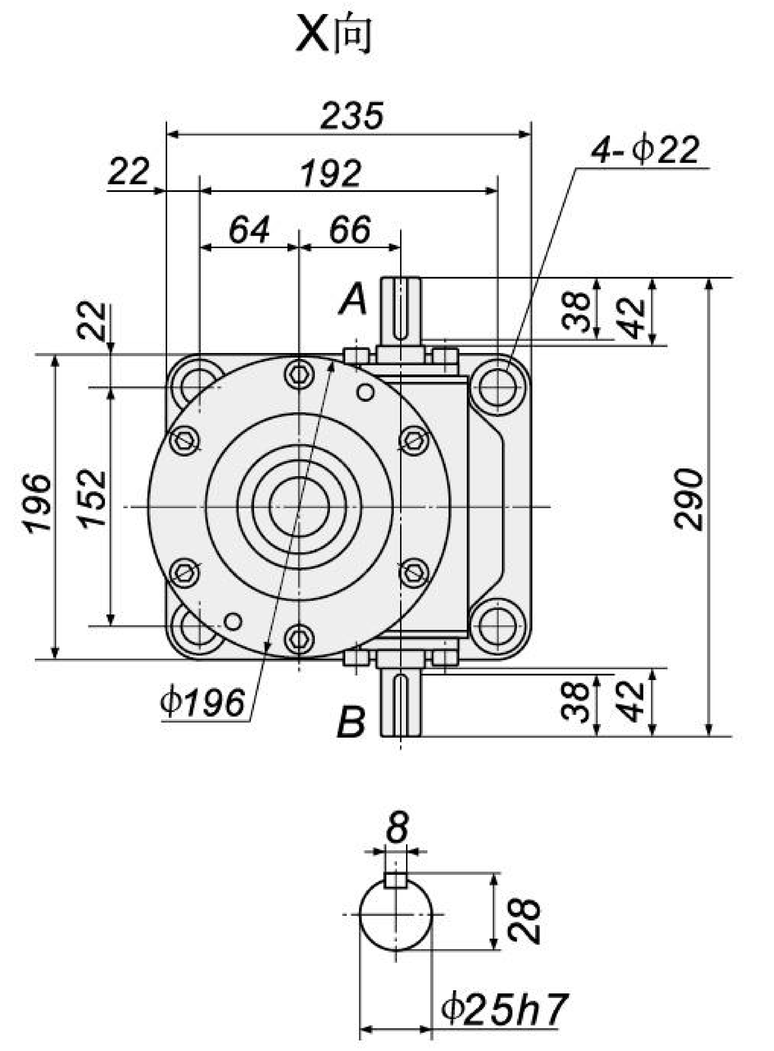

JWM150US

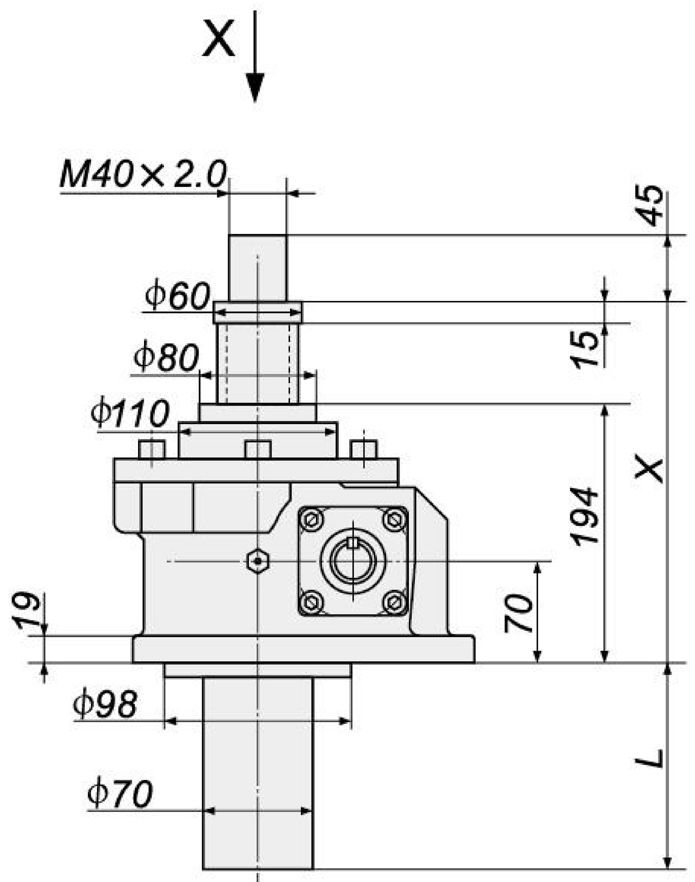



JWM150DS

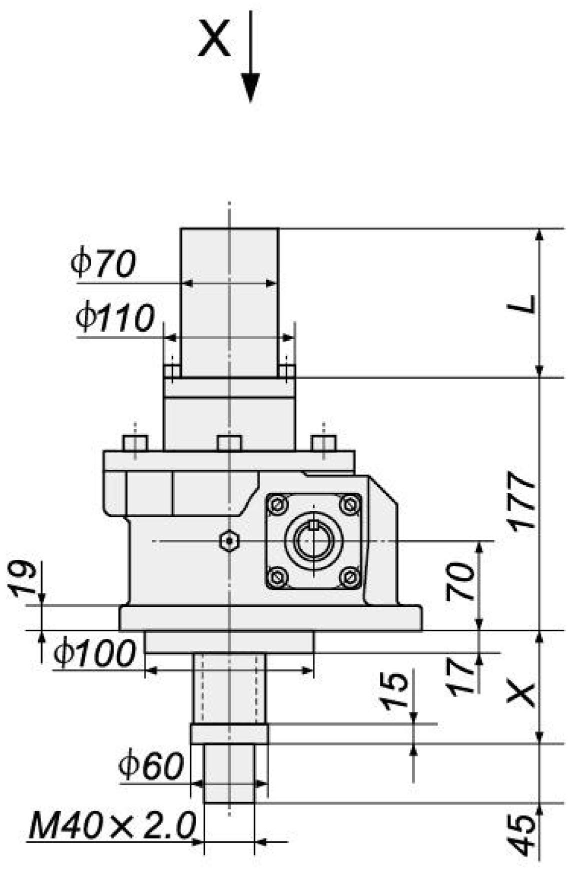
| 行程 (mm) Journey | U S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 183 | 283 | 193 | 293 | 151 | 33 |
| 200 | 183 | 383 | 193 | 393 | 252 | 35 |
| 300 | 183 | 483 | 208 | 508 | 366 | 38 |
| 400 | 183 | 583 | 208 | 608 | 466 | 41 |
| 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 |

| 行程 (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 |



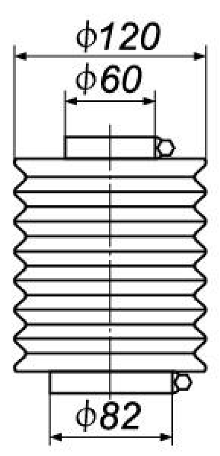

JWM150UM



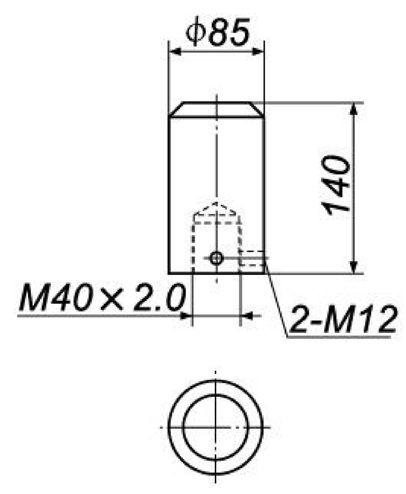

JWM150DM

| 行程 (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 |

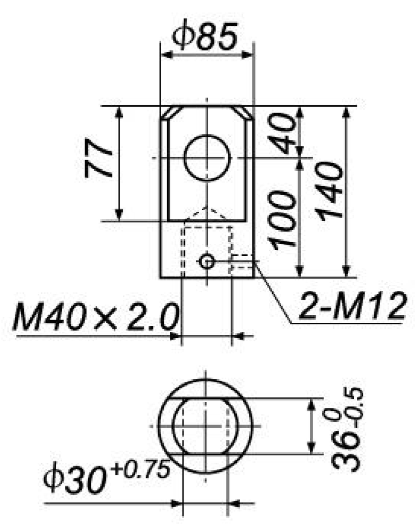
| 行程 (mm) Journey | D M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 42 | 142 | 52 | 152 | 151 | 37 |
| 200 | 42 | 242 | 52 | 252 | 252 | 40 |
| 300 | 42 | 342 | 67 | 367 | 366 | 43 |
| 400 | 42 | 442 | 67 | 467 | 466 | 46 |
| 500 | 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 |



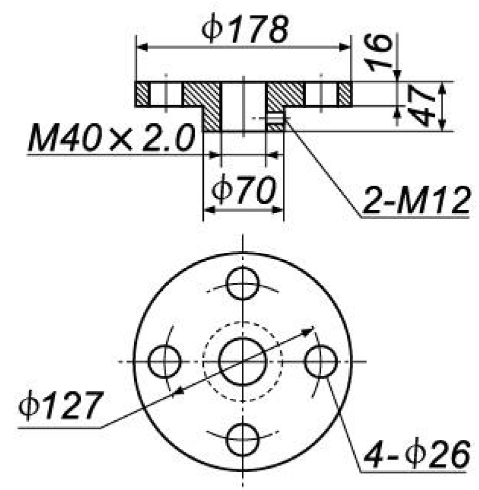

J



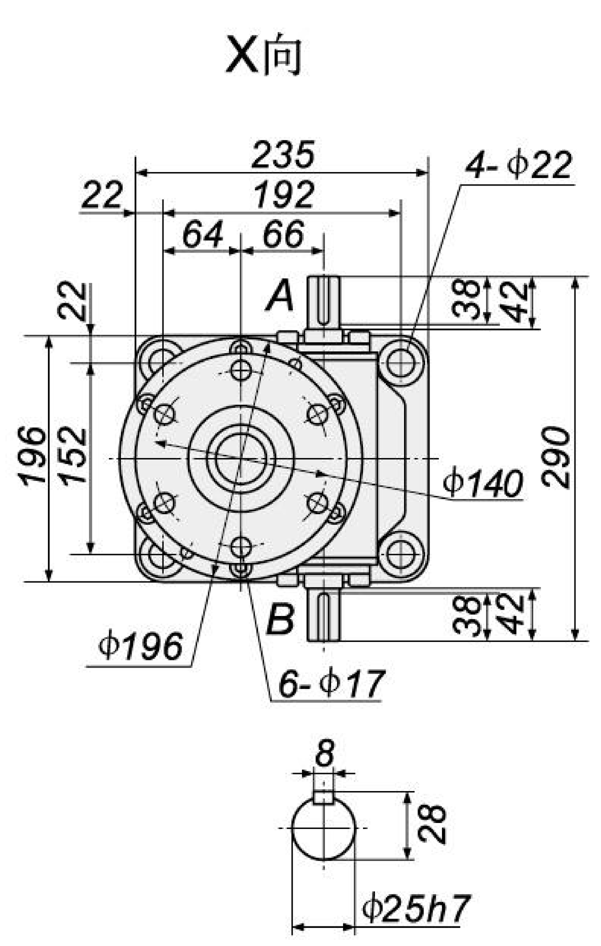

B

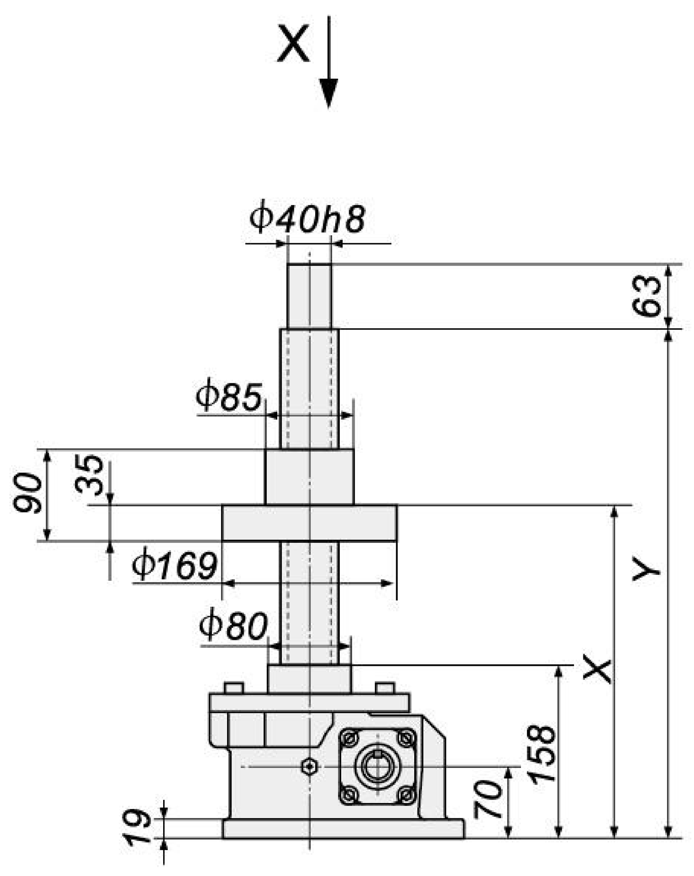



I

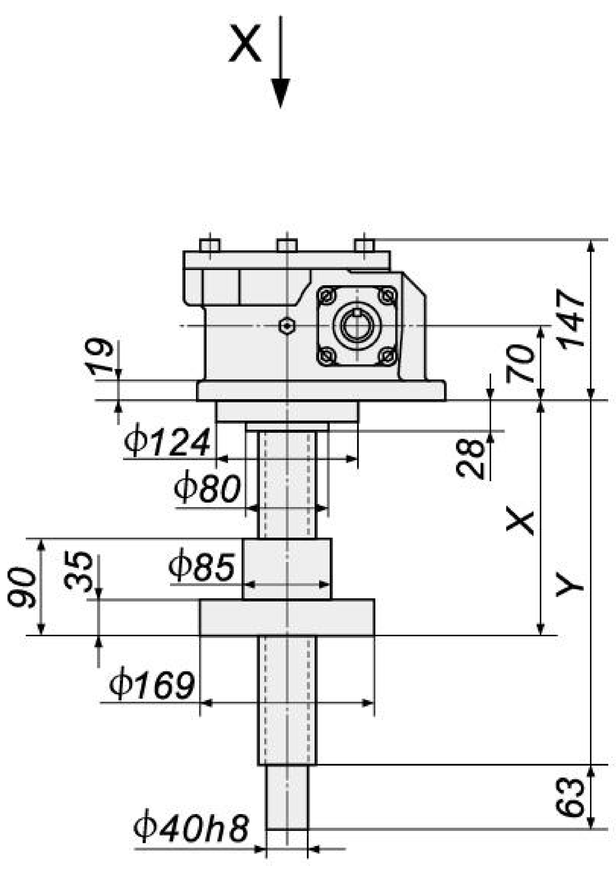



M




JWM150UR




JWM150DR

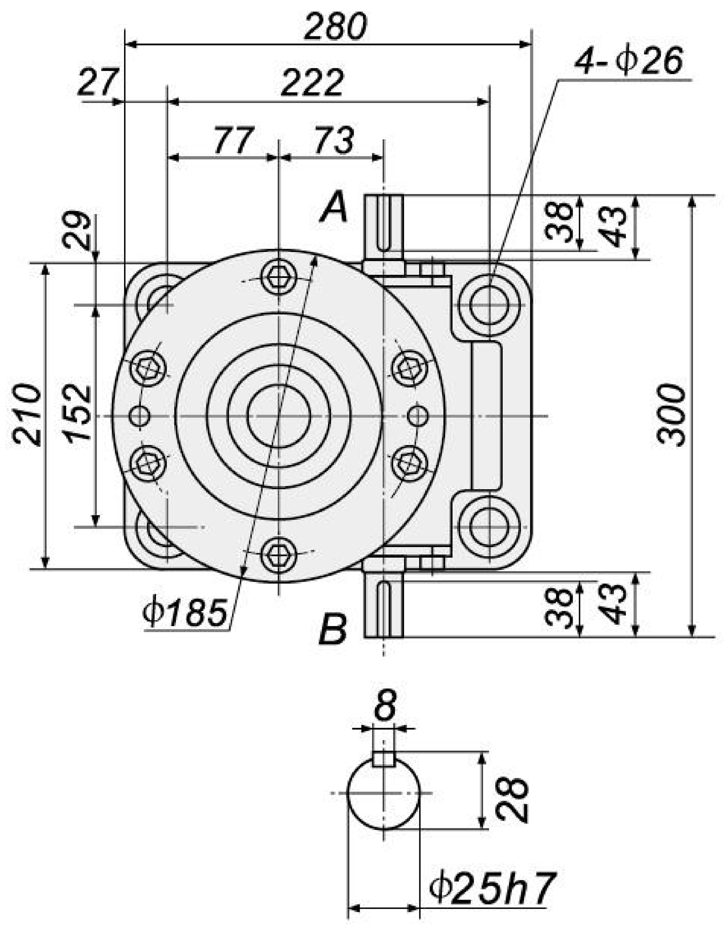
| 行程 (mm) Journey | U R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 214 | 314 | 379 | 40 |
| 200 | 214 | 414 | 479 | 42 |
| 300 | 214 | 514 | 579 | 43 |
| 400 | 214 | 614 | 679 | 45 |
| 500 | 214 | 714 | 779 | 46 |
| 600 | 214 | 814 | 879 | 48 |
| 800 | 214 | 1014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

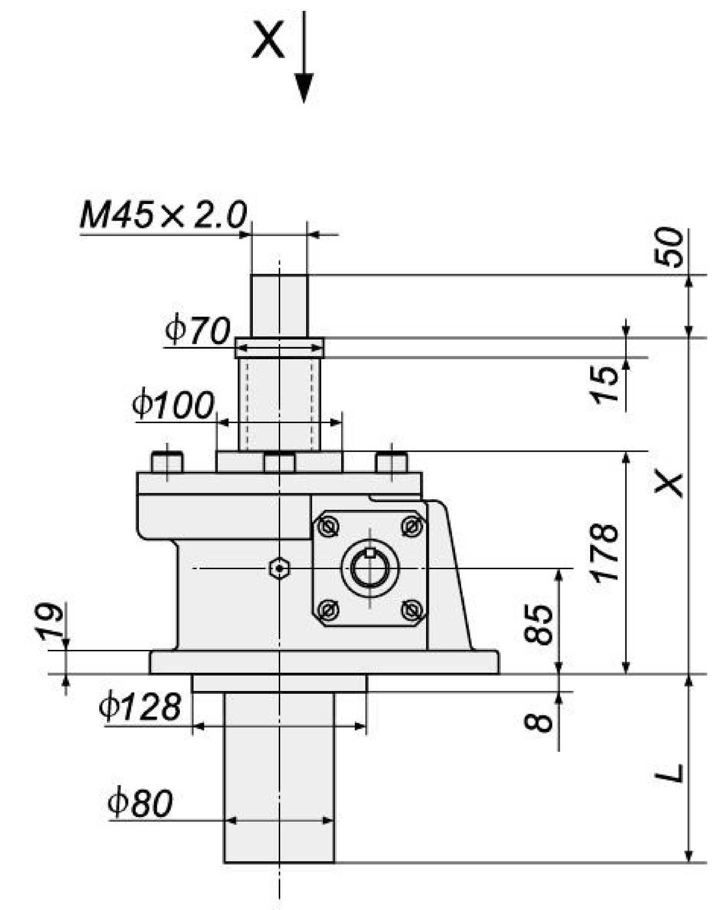
| 行程 (mm) Journey | D R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 128 | 228 | 239 | 40 |
| 200 | 128 | 328 | 339 | 42 |
| 300 | 128 | 428 | 439 | 43 |
| 400 | 128 | 528 | 539 | 45 |
| 500 | 128 | 628 | 639 | 46 |
| 600 | 128 | 728 | 739 | 48 |
| 800 | 128 | 928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

注：X(1)为加防尘罩时尺寸。

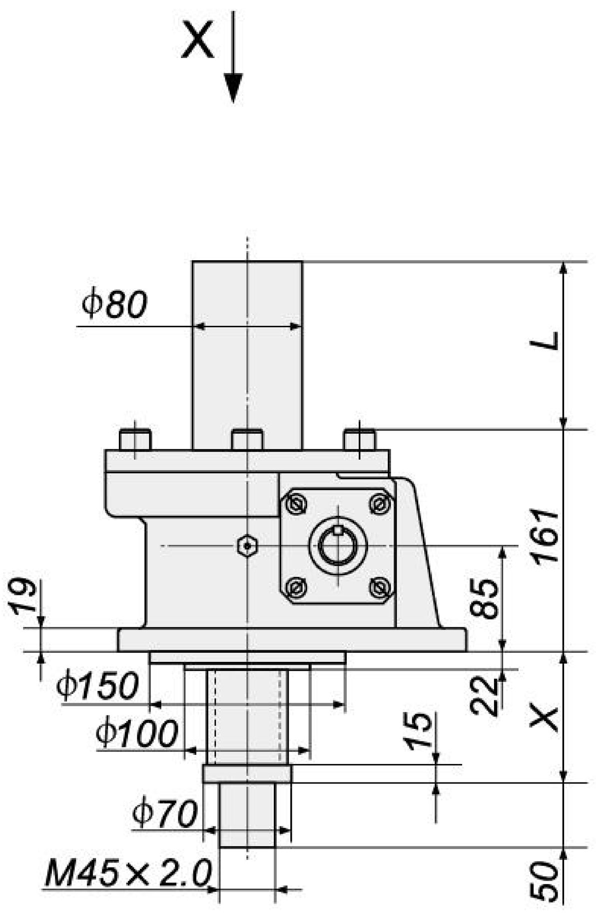
Note: "X(1)" is the dimension of jack with dust hood.

## JWM200



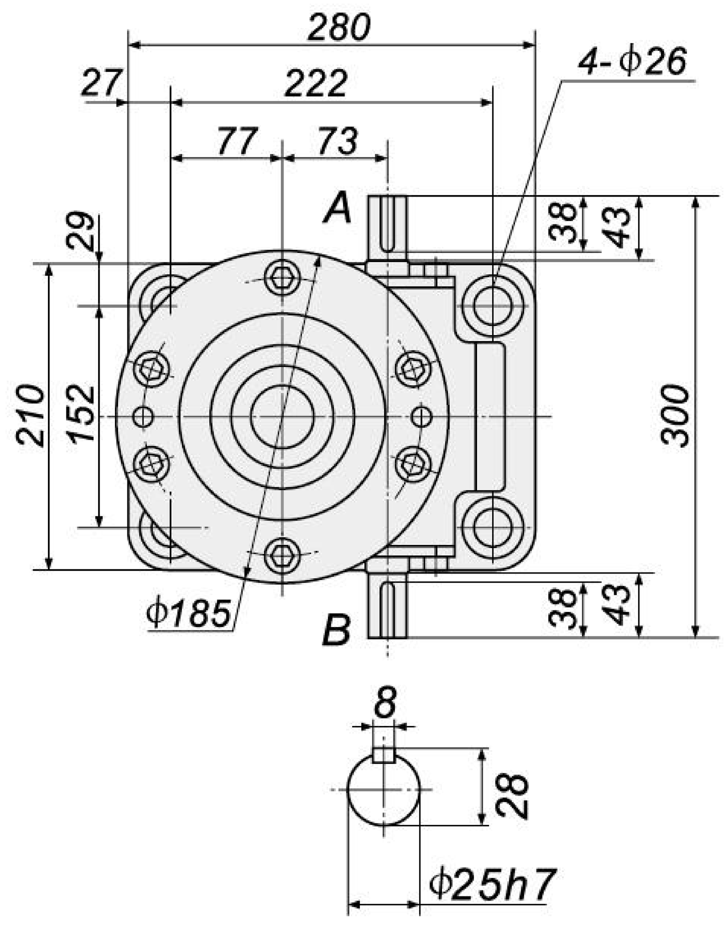

JWM200US

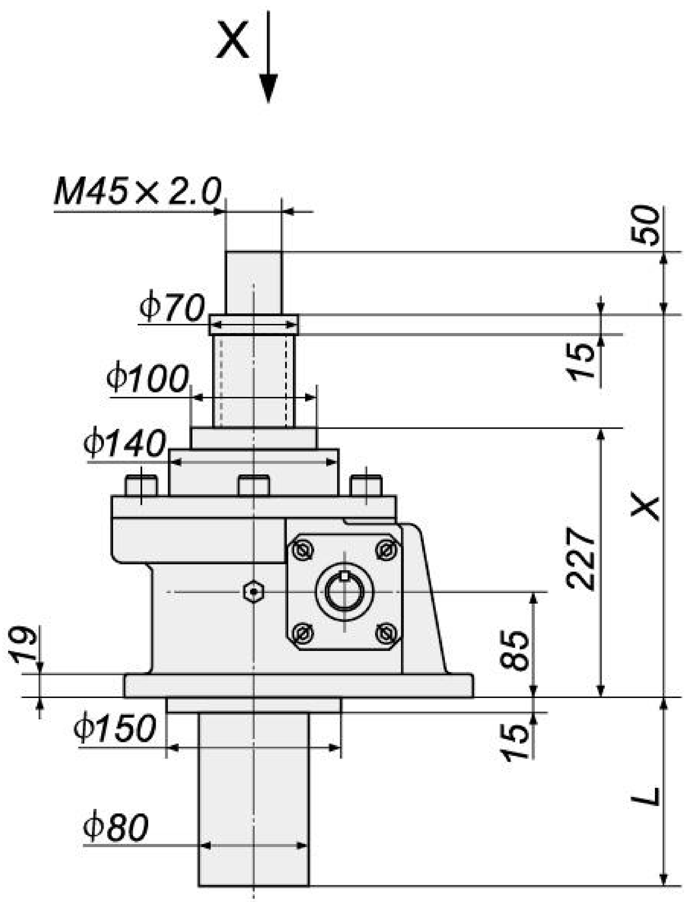



JWM200DS

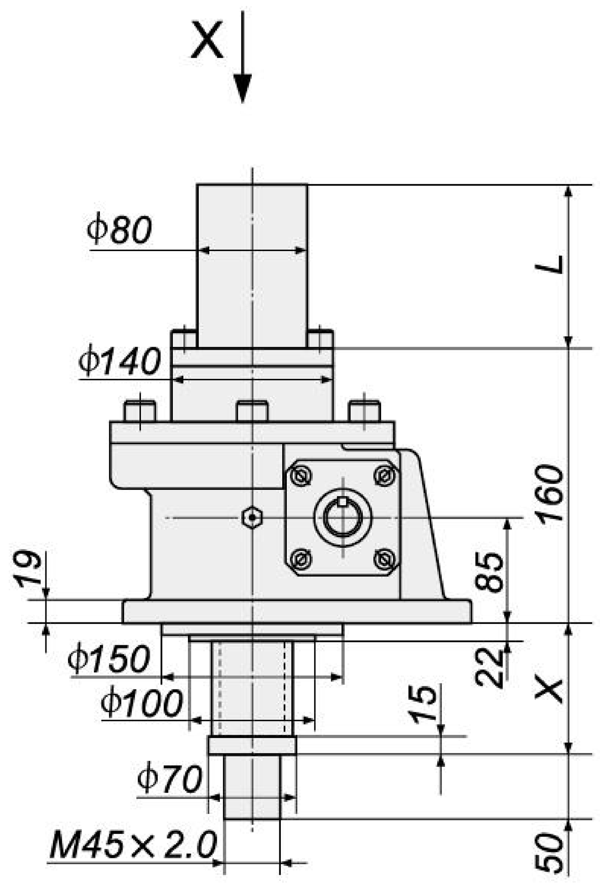
| 行程(mm) Journey | U S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 203 | 303 | 213 | 313 | 151 | 42 |
| 200 | 203 | 403 | 213 | 413 | 252 | 45 |
| 300 | 203 | 503 | 228 | 528 | 366 | 49 |
| 400 | 203 | 603 | 228 | 628 | 466 | 53 |
| 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 |

| 行程(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 |



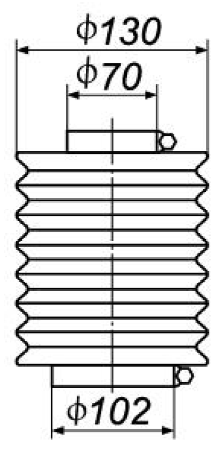

JWM200UM



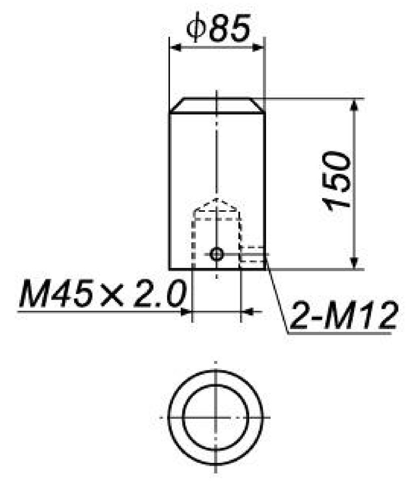

JWM200DM

| 行程(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 |

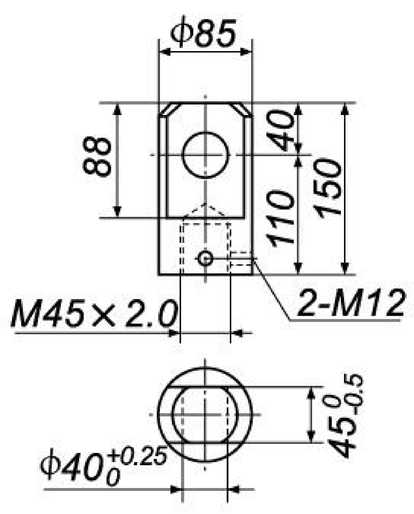
| 行程(mm) Journey | D M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 42 | 142 | 52 | 152 | 151 | 51 |
| 200 | 42 | 242 | 52 | 252 | 252 | 55 |
| 300 | 42 | 342 | 67 | 367 | 366 | 58 |
| 400 | 42 | 442 | 67 | 467 | 466 | 62 |
| 500 | 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 |



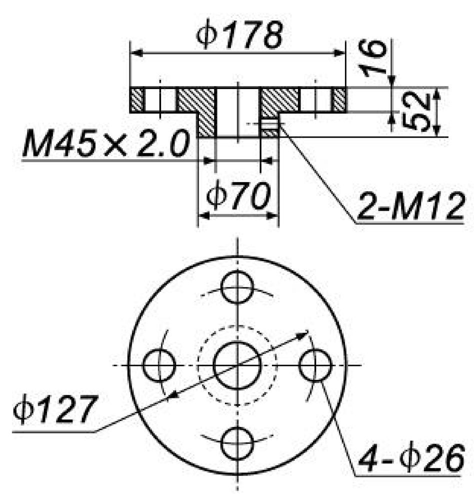

J



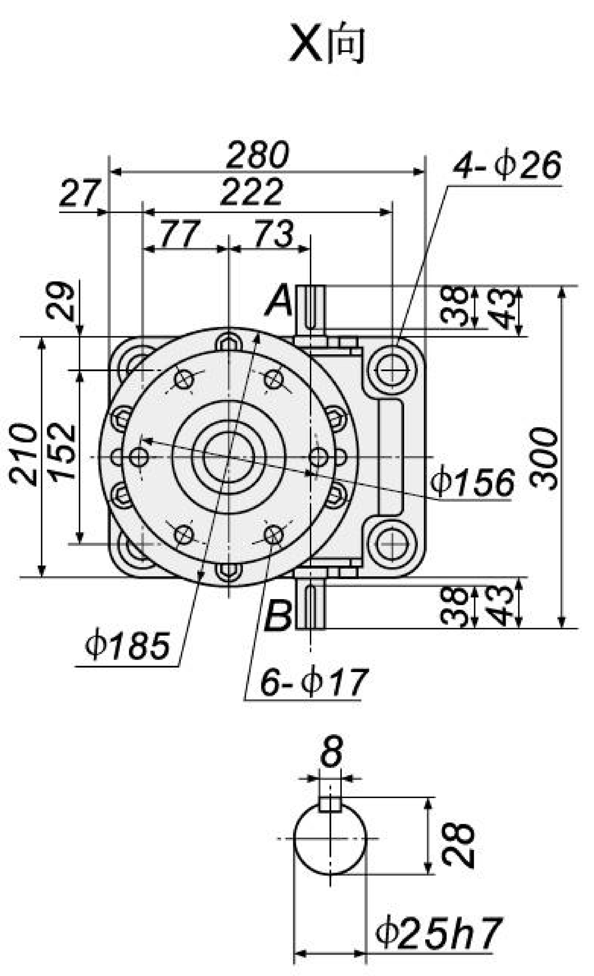

B

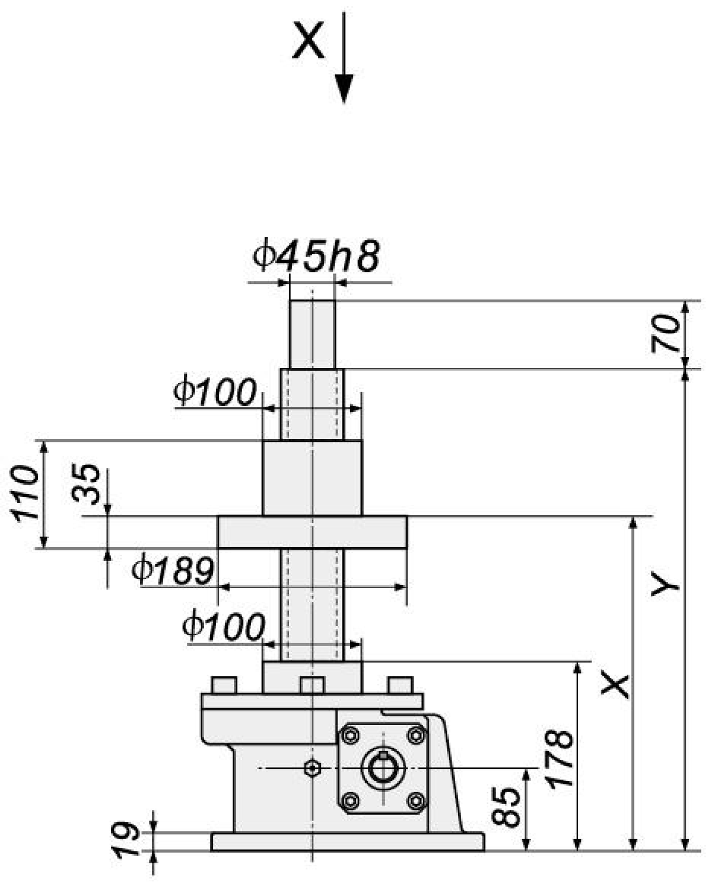



I

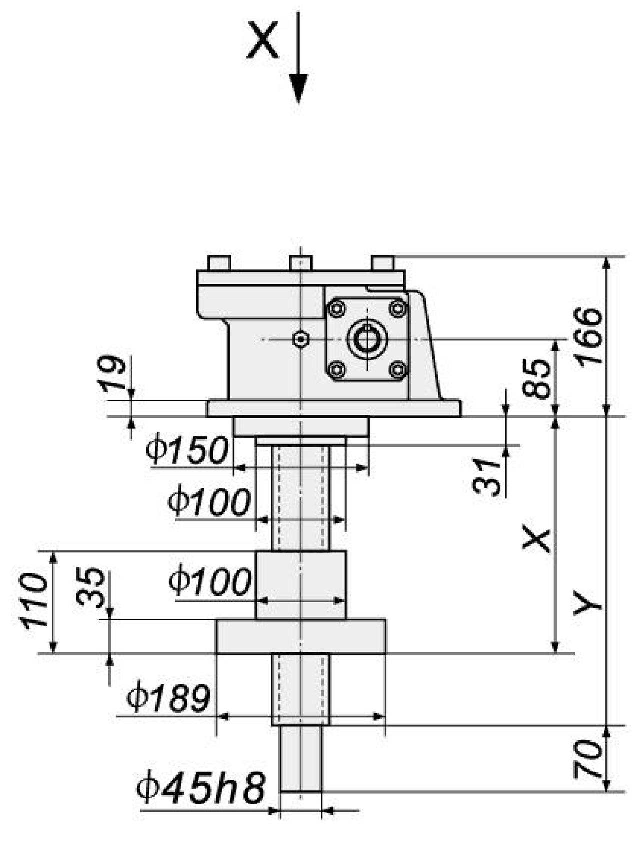



M




JWM200UR




JWM200DR

| 行程(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 |

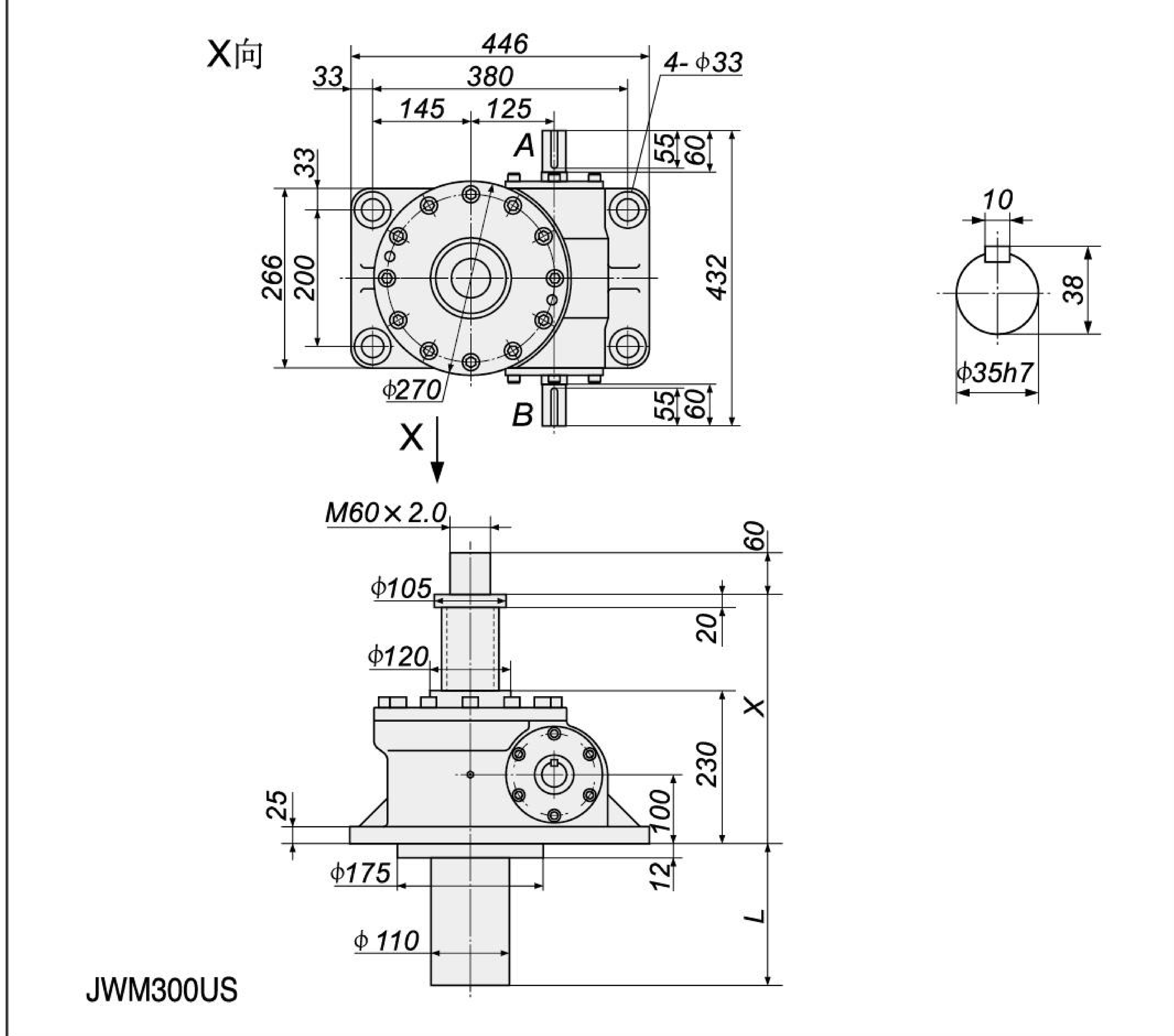
| 行程(mm) Journey | D R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 151 | 251 | 261 | 56 |
| 200 | 151 | 351 | 361 | 58 |
| 300 | 151 | 451 | 461 | 60 |
| 400 | 151 | 551 | 561 | 62 |
| 500 | 151 | 651 | 661 | 64 |
| 600 | 151 | 751 | 761 | 66 |
| 800 | 151 | 951 |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

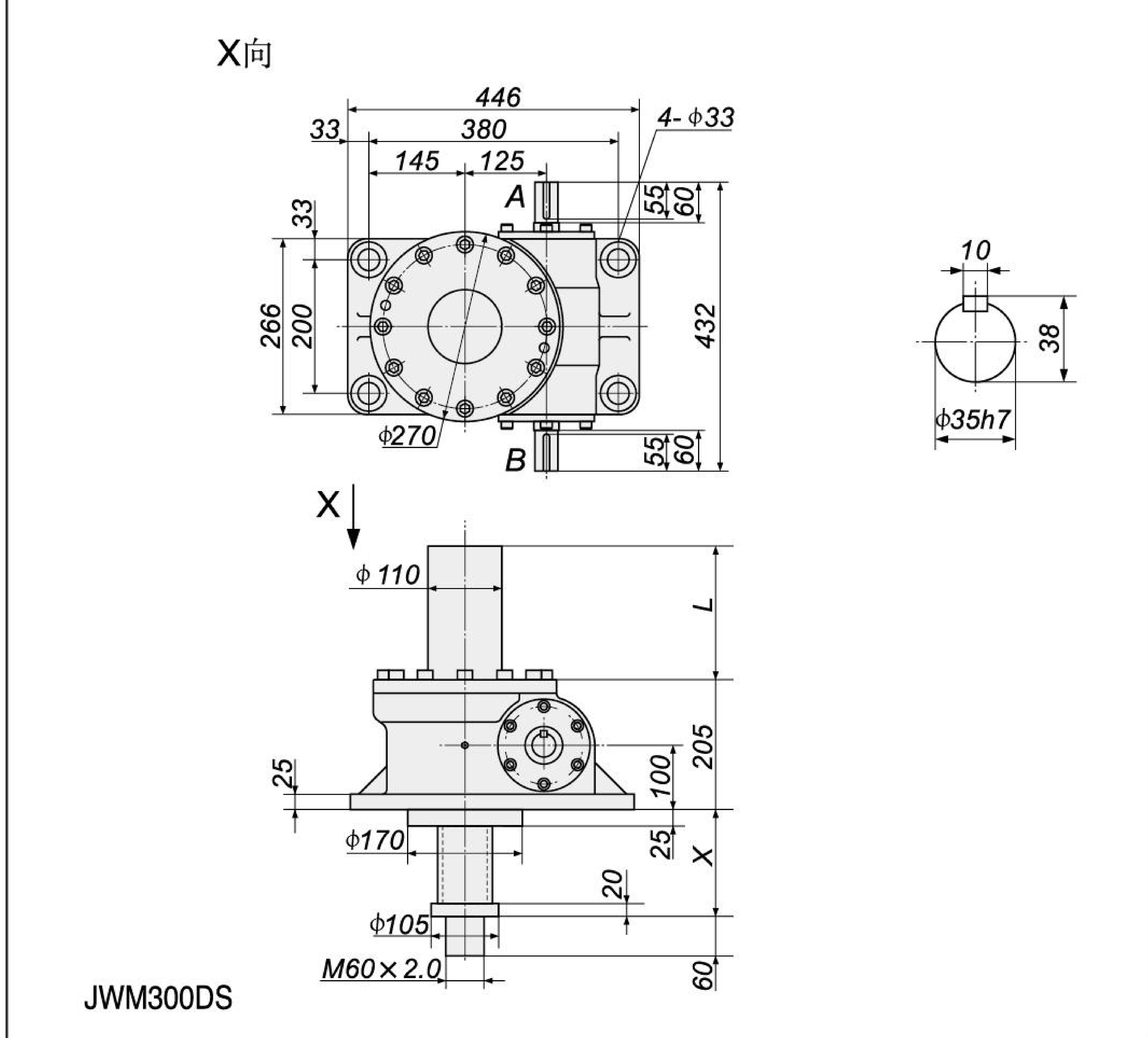
注：X(1)为加防尘罩时尺寸。

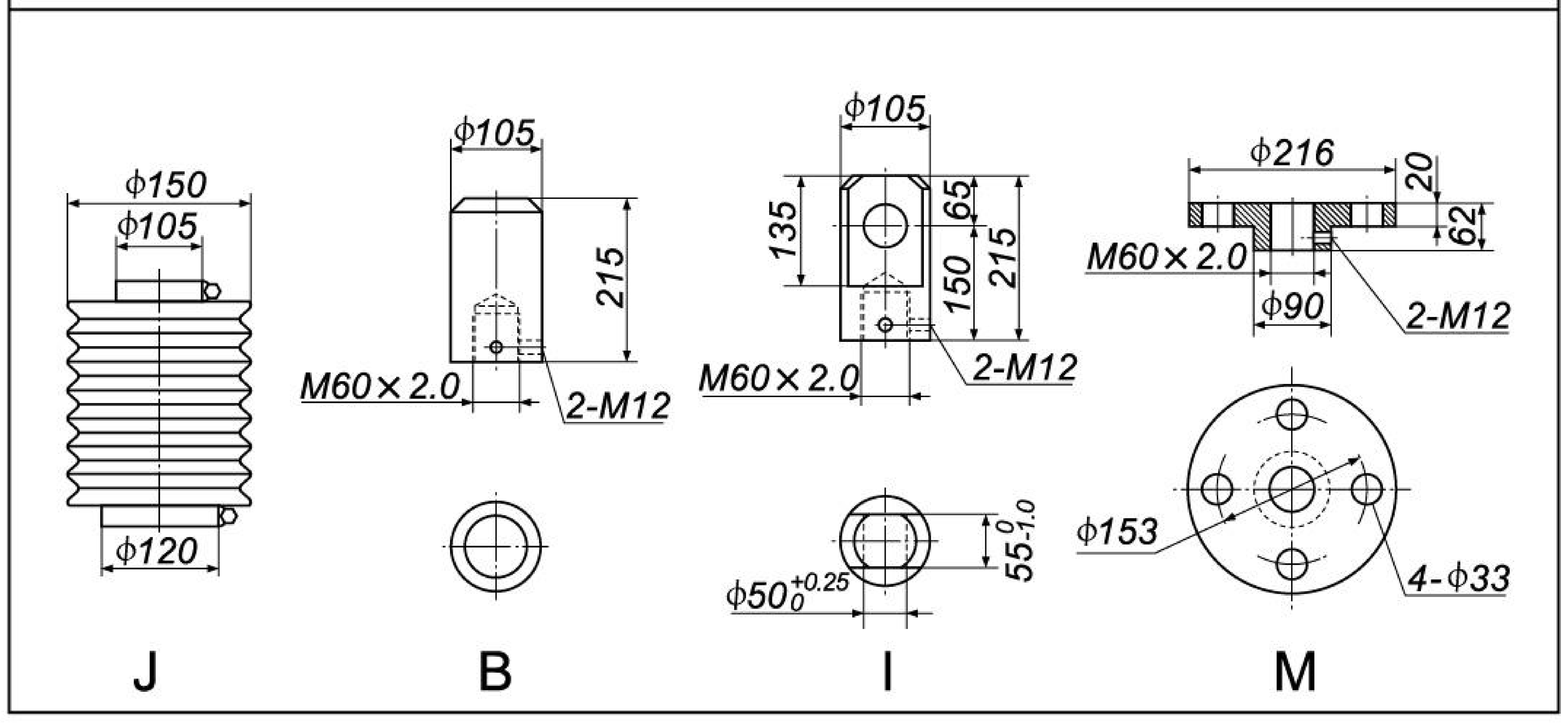
Note: “X(1)” is the dimension of jack with dust hood.

## JWM300

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

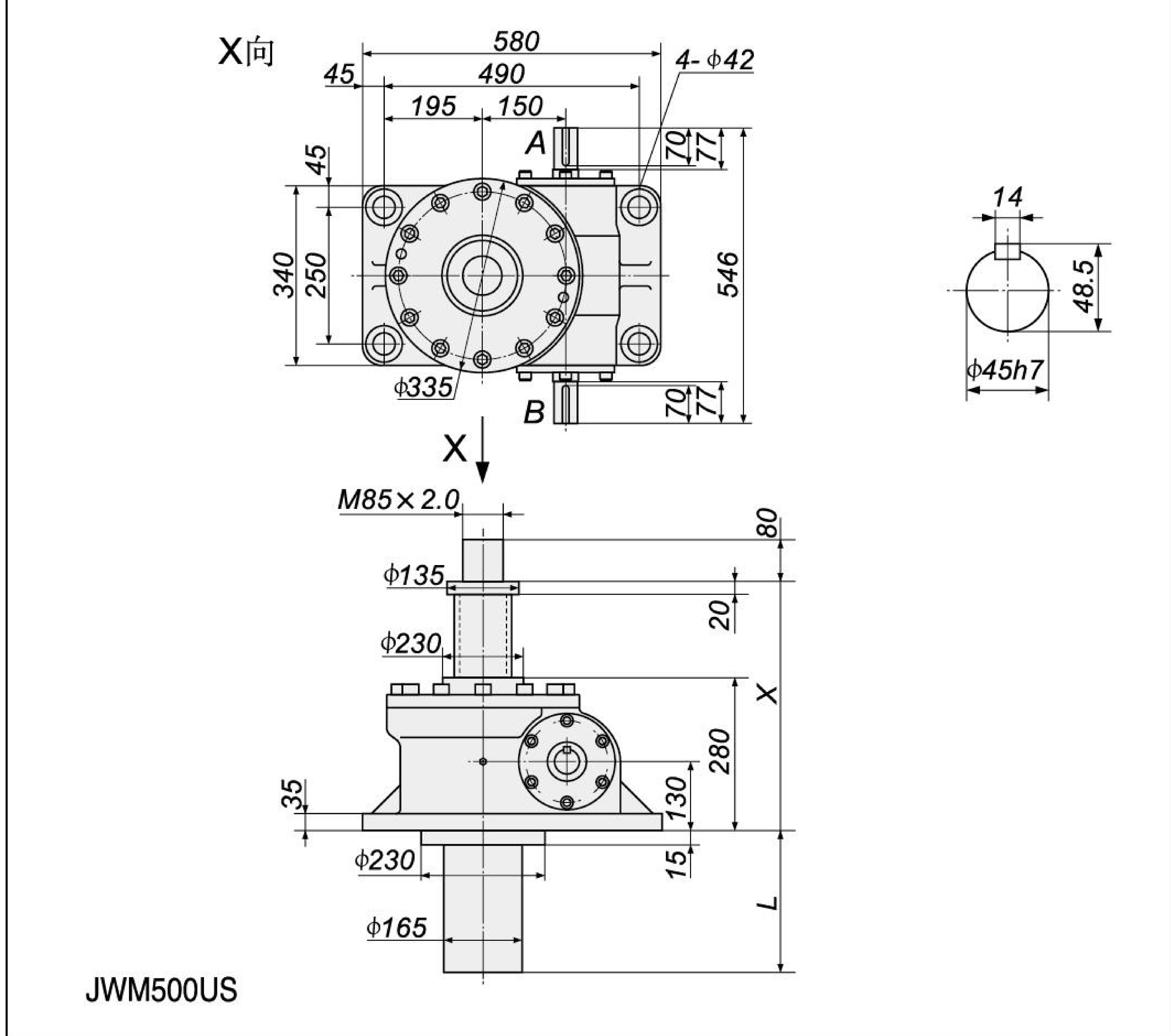


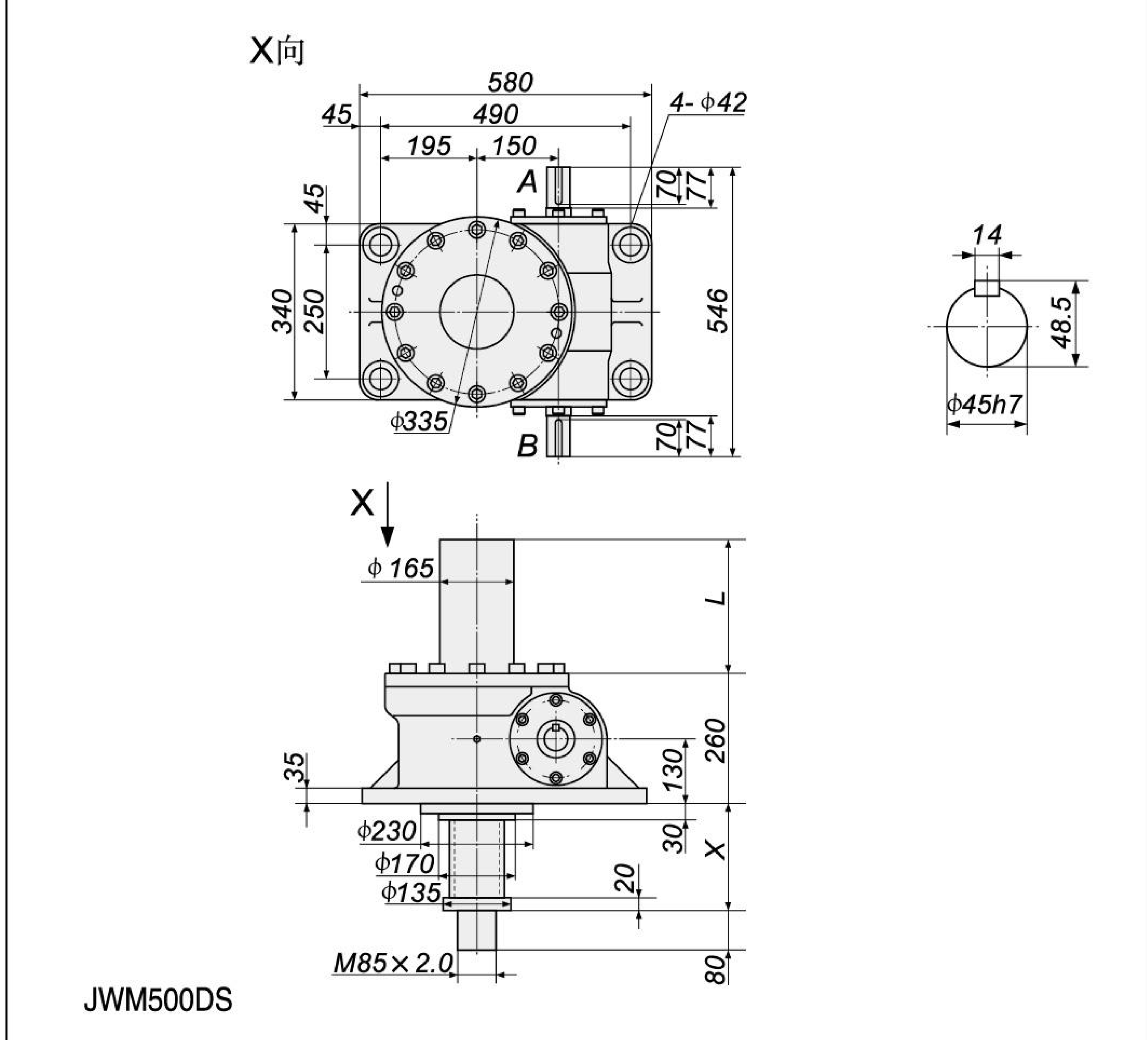



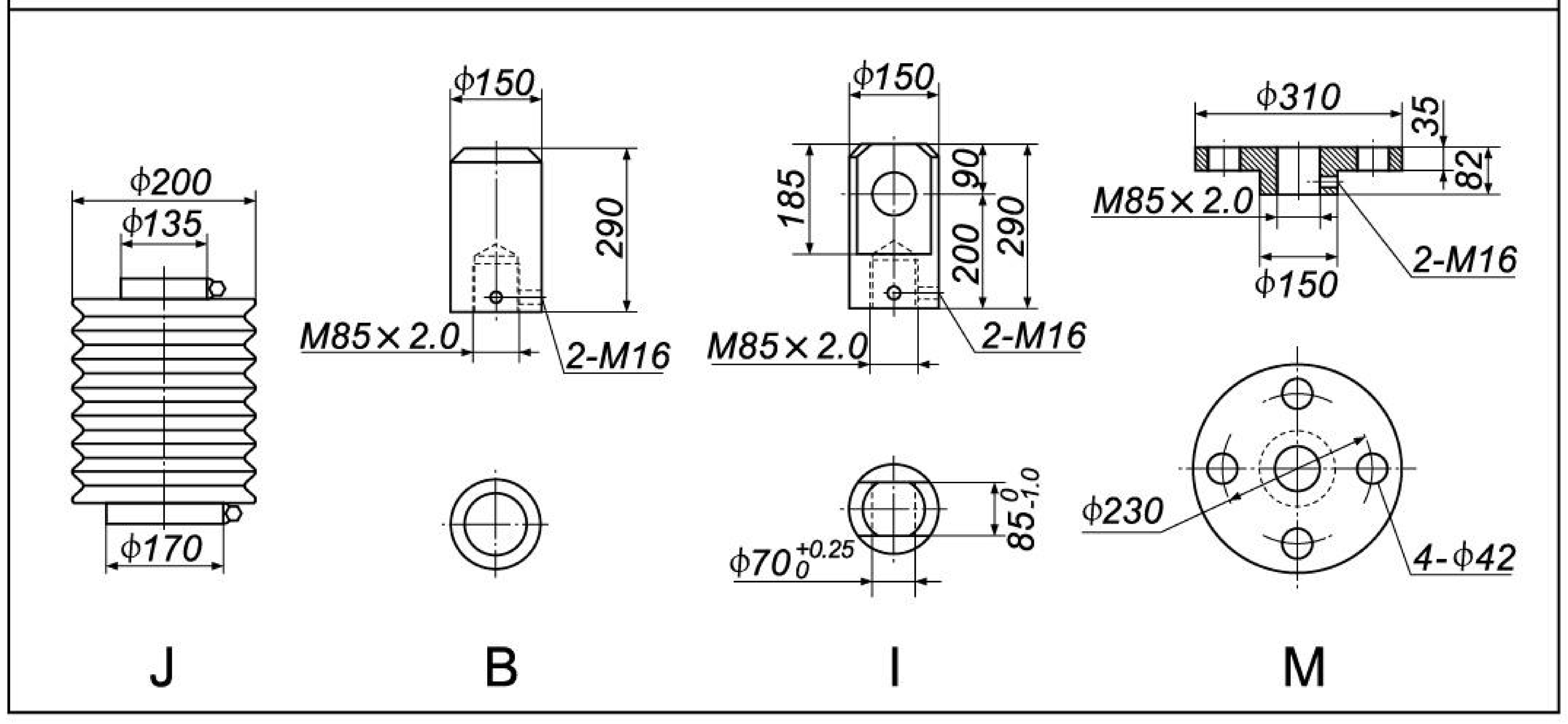




## JWM500

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




注：X(1)为加防尘罩时尺寸。

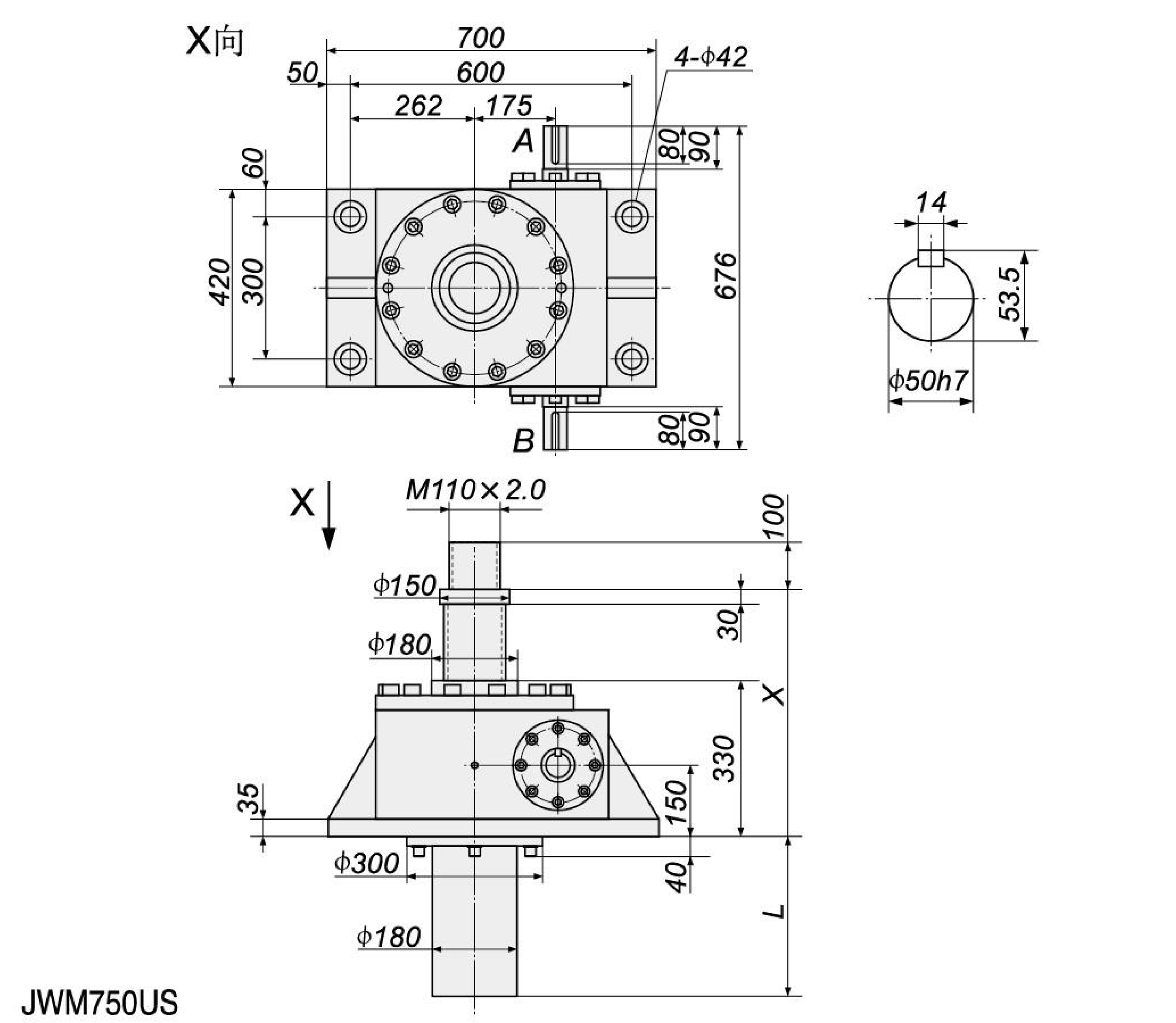
Note: "X(1)" is the dimension of jack with dust hood.

JW

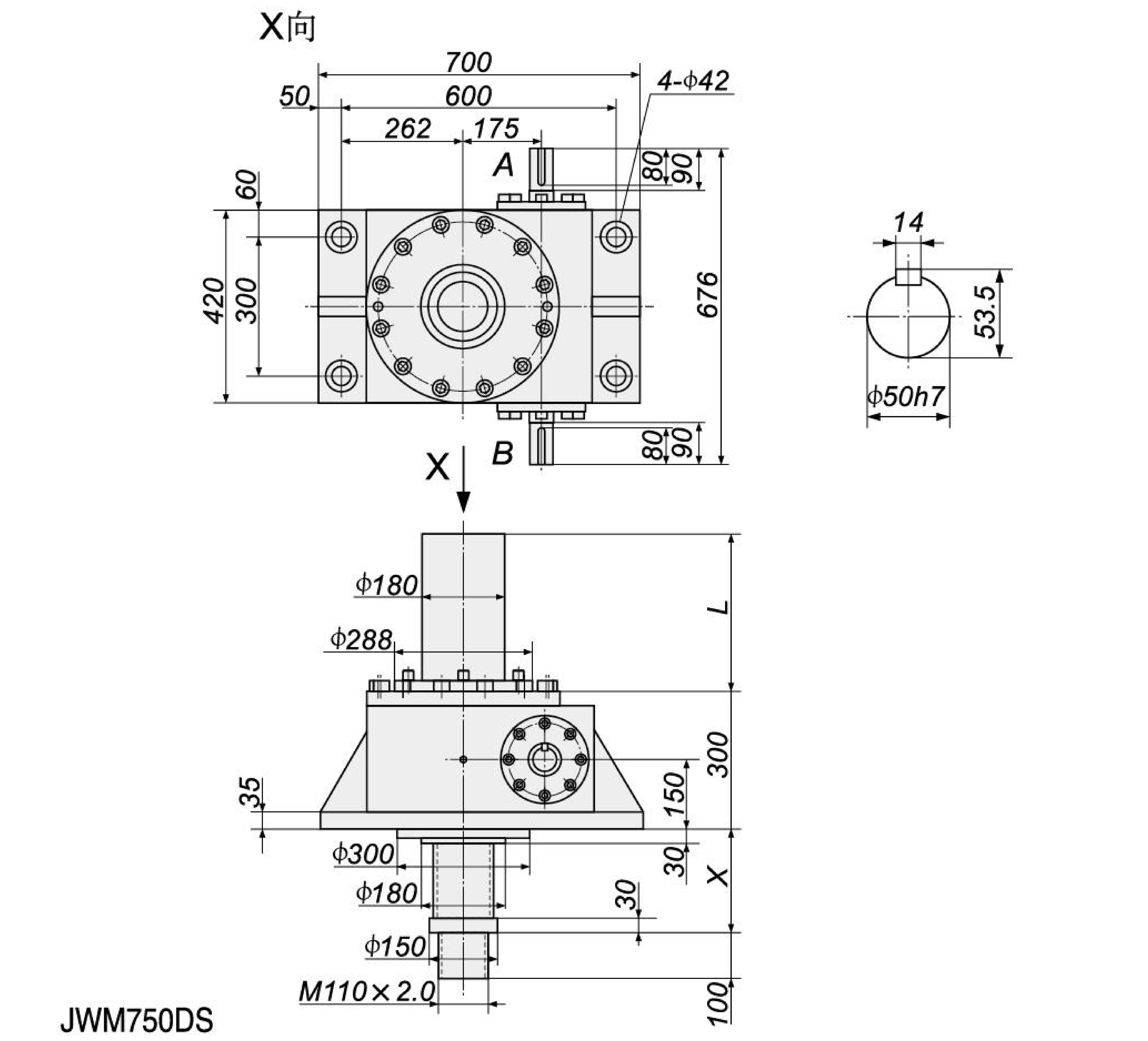
JW

## JWM750

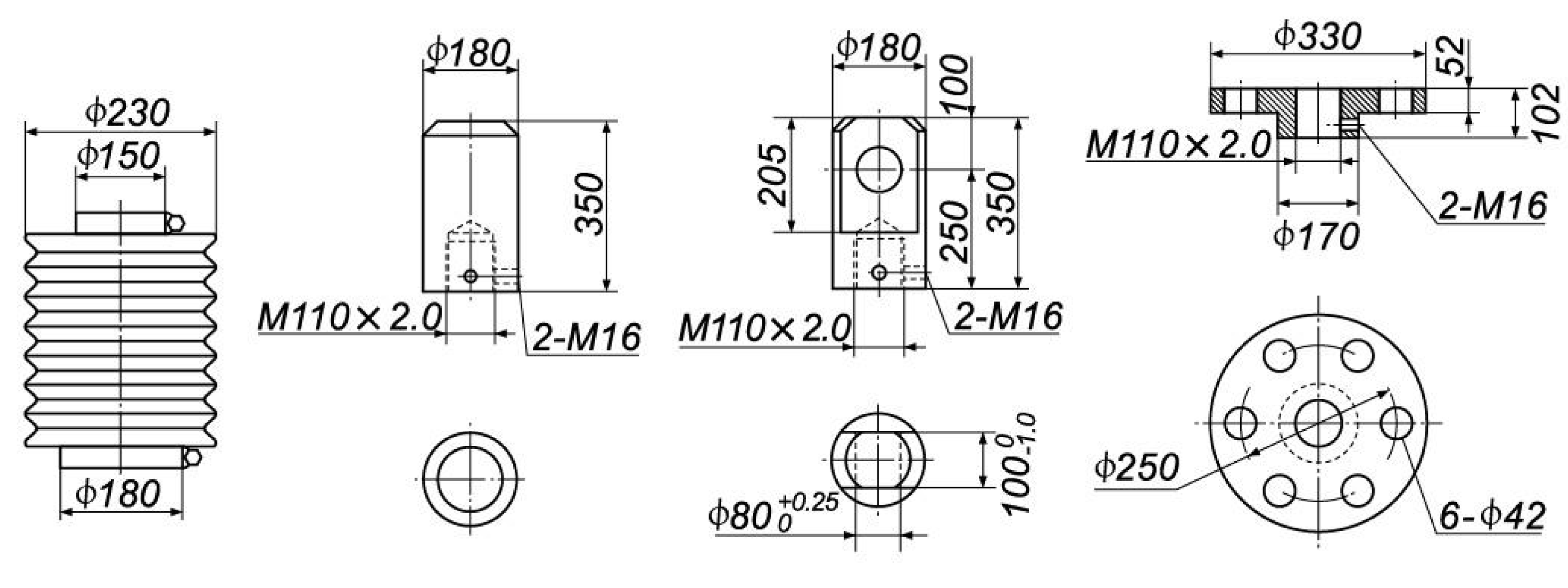
| 行程(mm) Journey | US | | | | | DS | | | | | m (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | X(1) | | L | X | | X(1) | | L | |
| | MIN | MAX | MIN | MAX | | MIN | MAX | MIN | MAX | | |
| 100 | 370 | 470 | 380 | 480 | 165 | 70 | 170 | 80 | 180 | 165 | 370 |
| 200 | 370 | 570 | 380 | 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



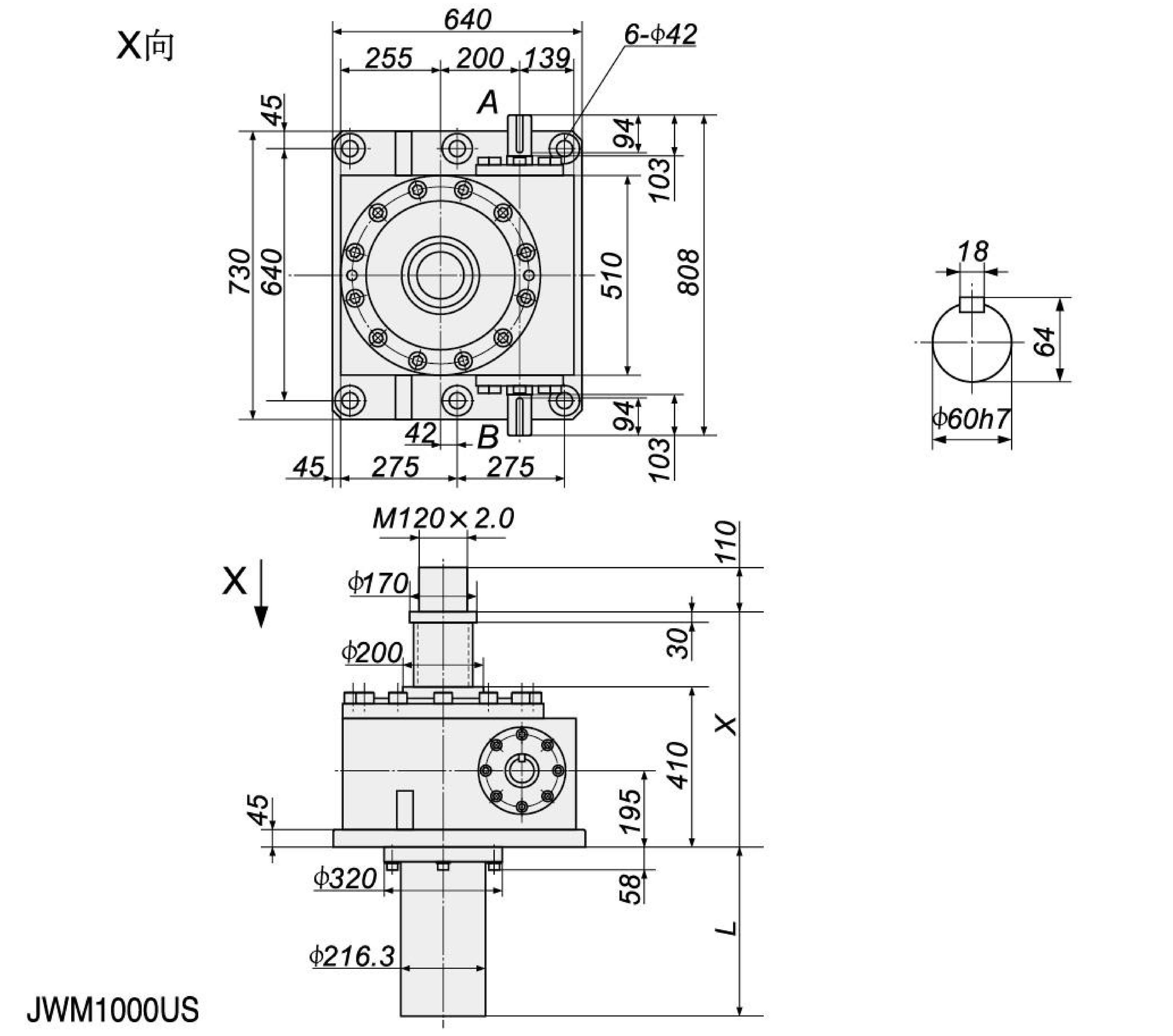
JWM750DS



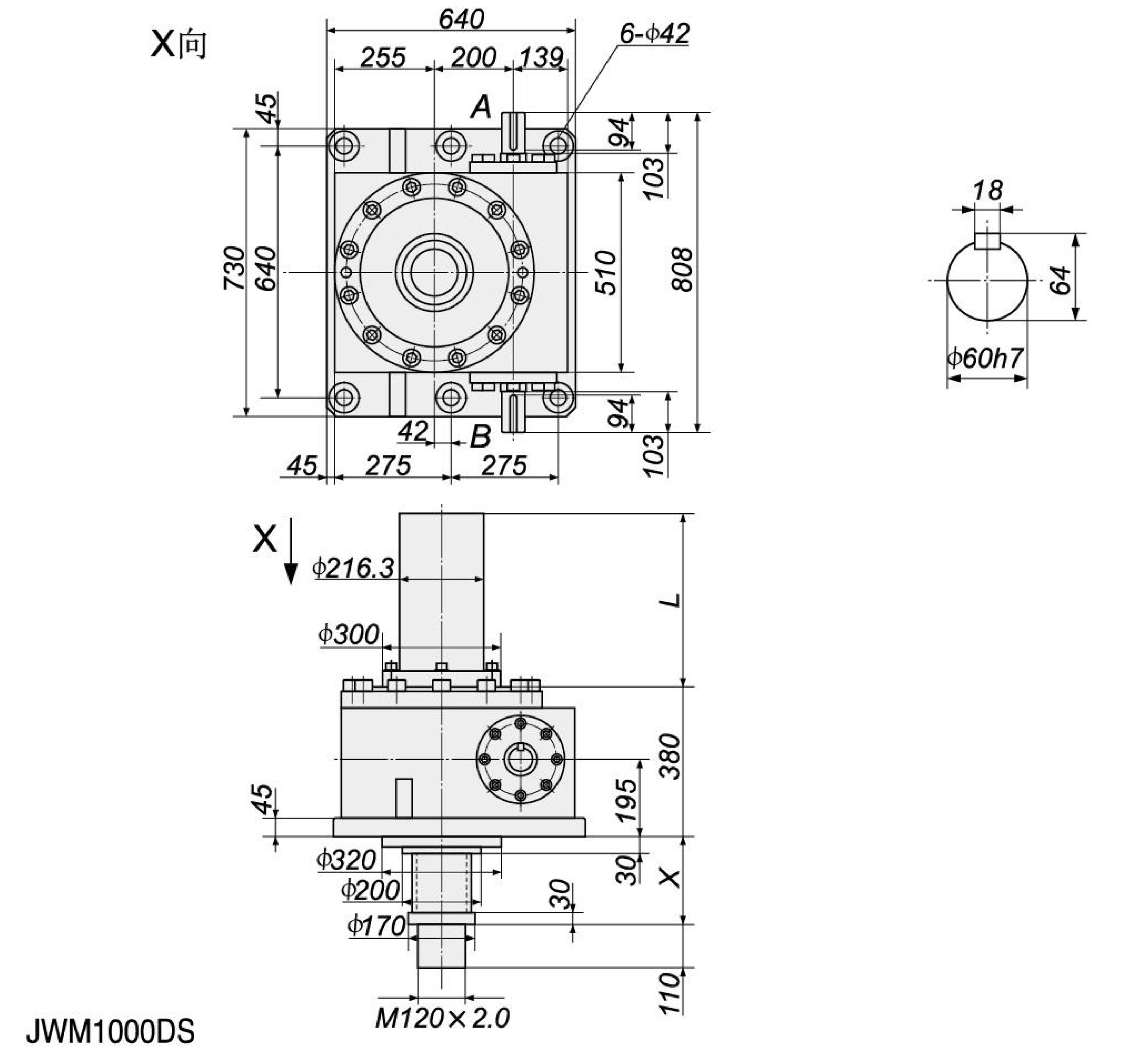
J B I M

## JWM1000

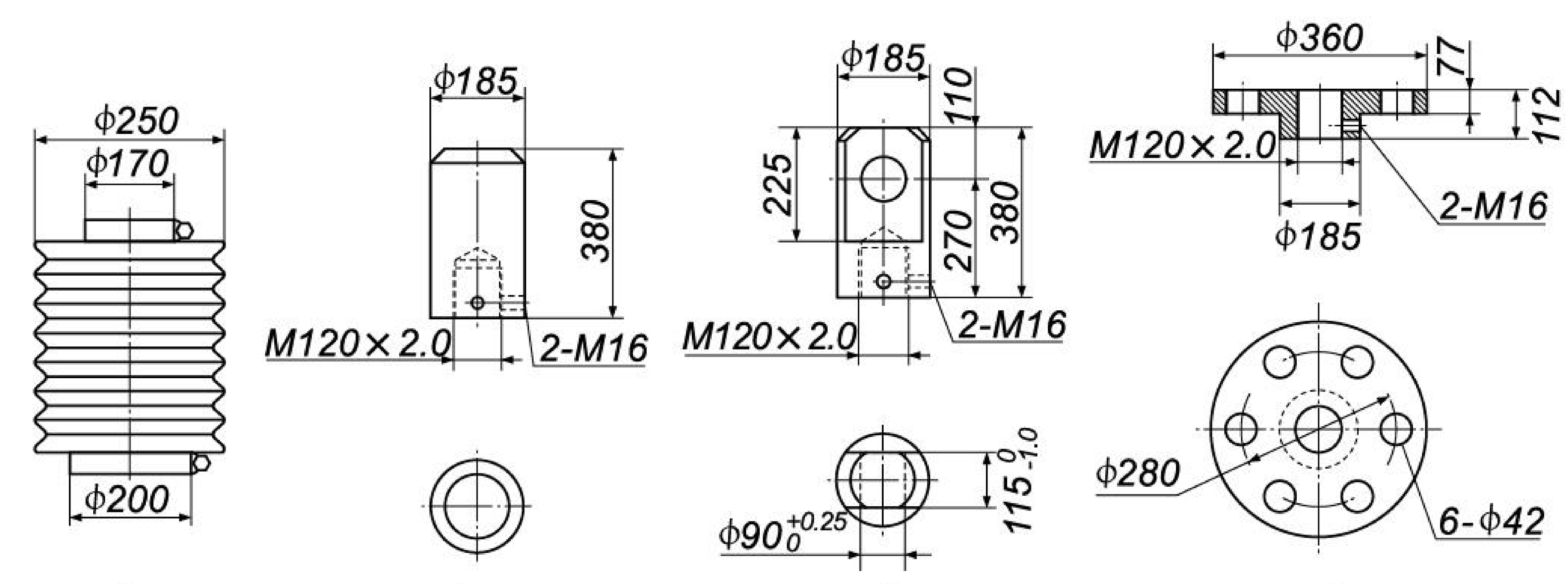
| 行程(mm) Journey | US | | | | | DS | | | | | m (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | X(1) | | L | X | | X(1) | | L | |
| | MIN | MAX | MIN | MAX | | MIN | MAX | MIN | MAX | | |
| 100 | 450 | 550 | 460 | 560 | 165 | 70 | 170 | 80 | 180 | 165 | 748 |
| 200 | 450 | 650 | 460 | 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

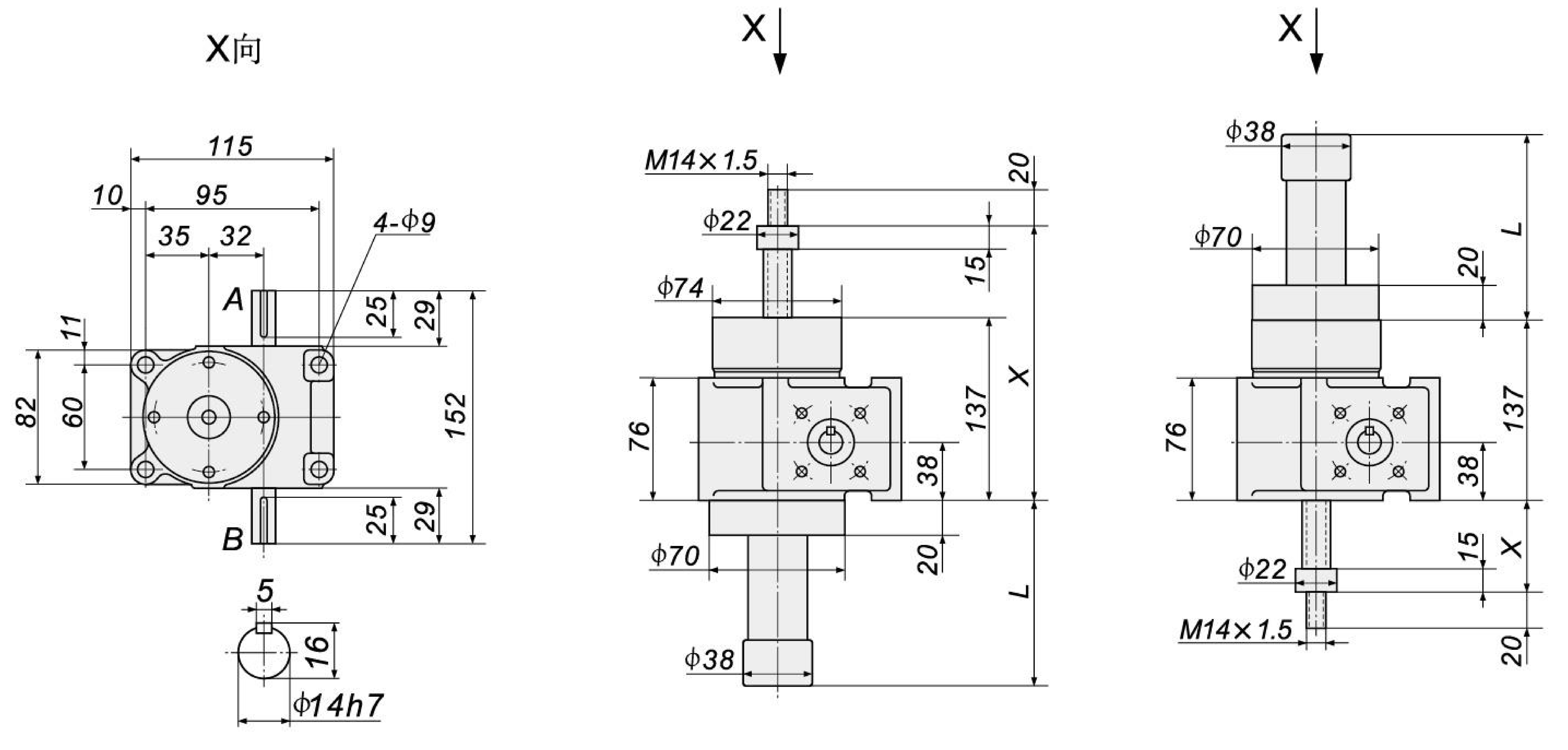


J B I M

注：X(1)为加防尘罩时尺寸。

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

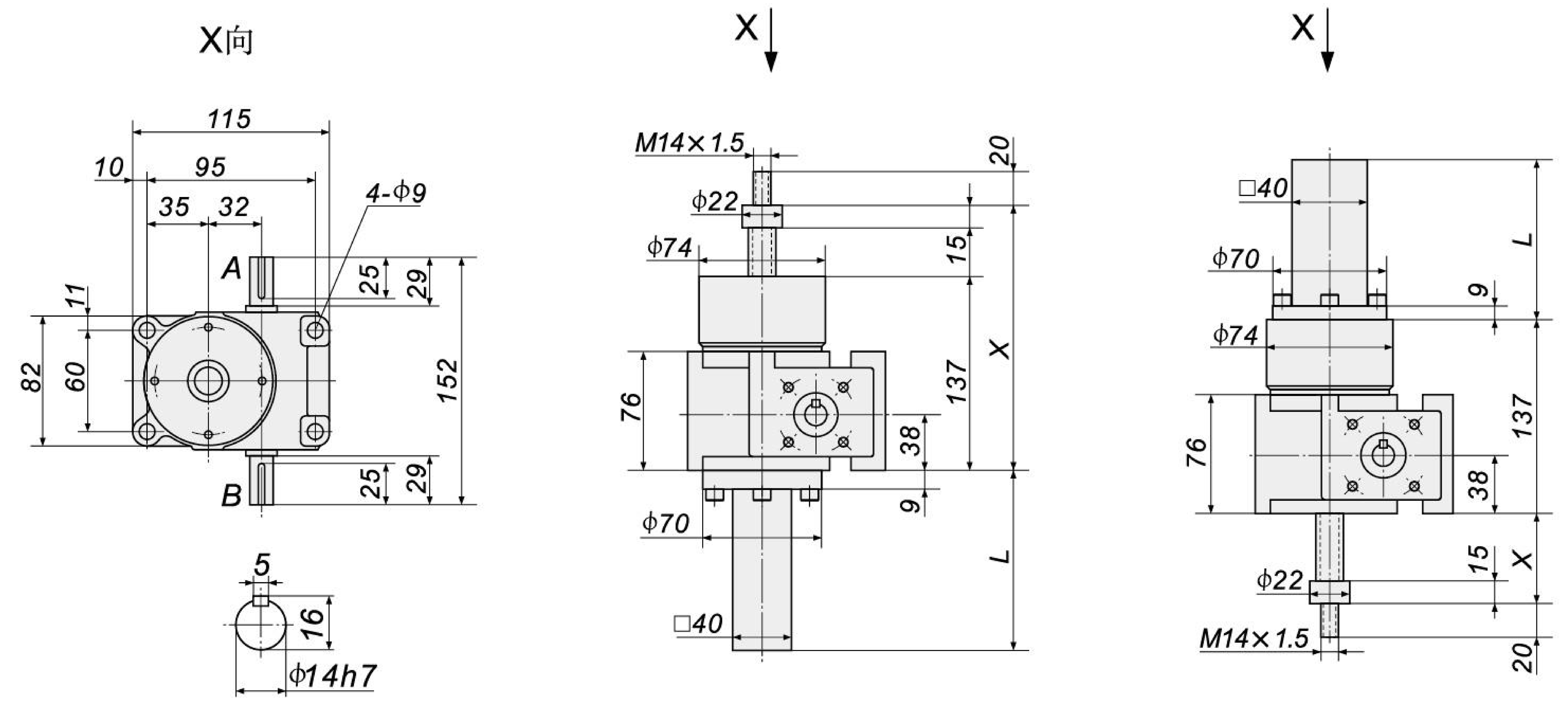
## JWB010



JWB010US JWB010DS

| 行程 (mm) Journey | U S X MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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 |

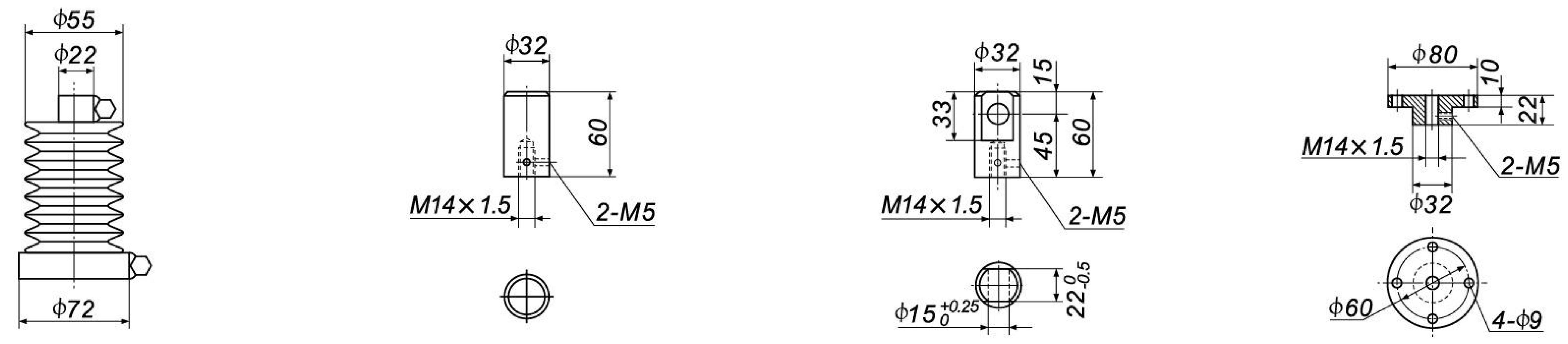
| 行程 (mm) Journey | D S X MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 25 | 125 | 75 | 175 | 194 | 6.7 |
| 200 | 25 | 225 | 75 | 275 | 294 | 7.0 |
| 300 | 25 | 325 | 115 | 415 | 434 | 7.4 |
| 400 | 25 | 425 | 115 | 515 | 534 | 7.6 |
| 500 | 25 | 525 | 150 | 650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



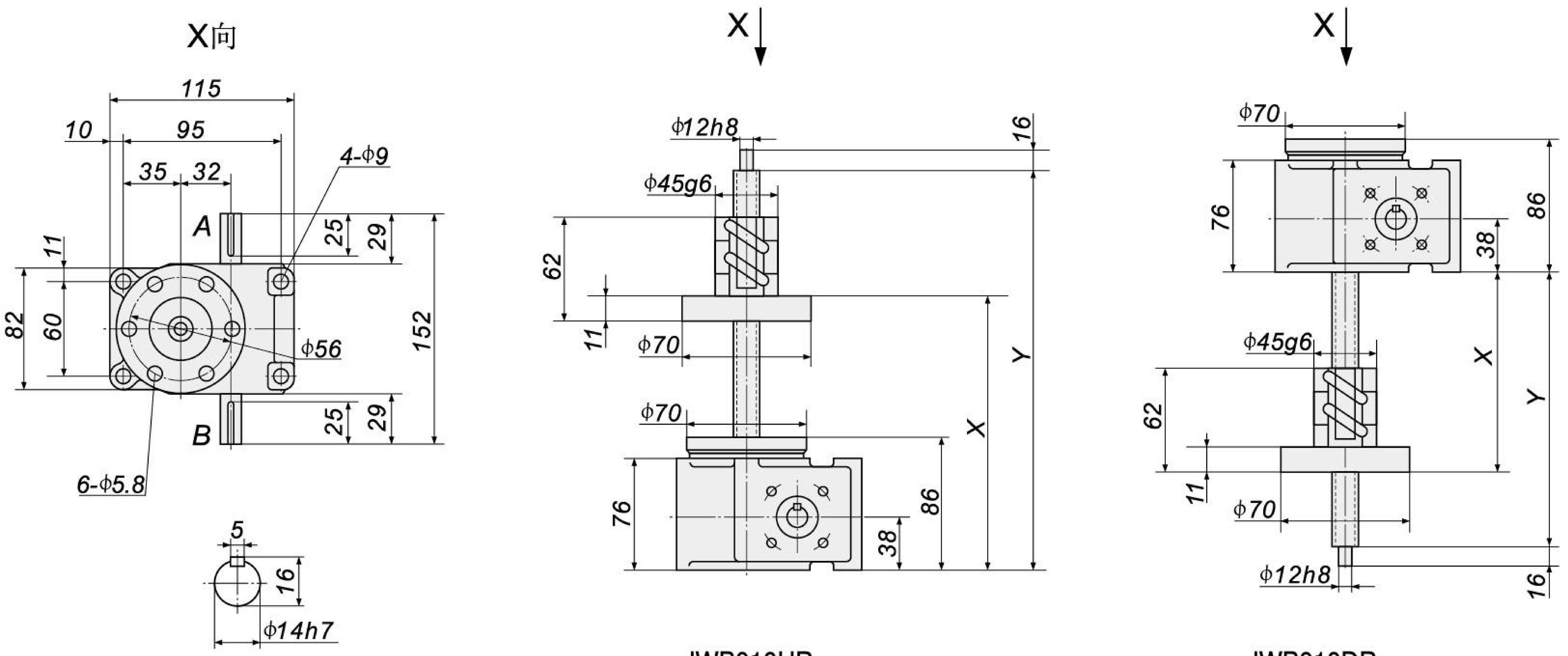
JWB010UM JWB010DM

| 行程 (mm) Journey | U M X MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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 MIN | X MAX | X(1) MIN | X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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

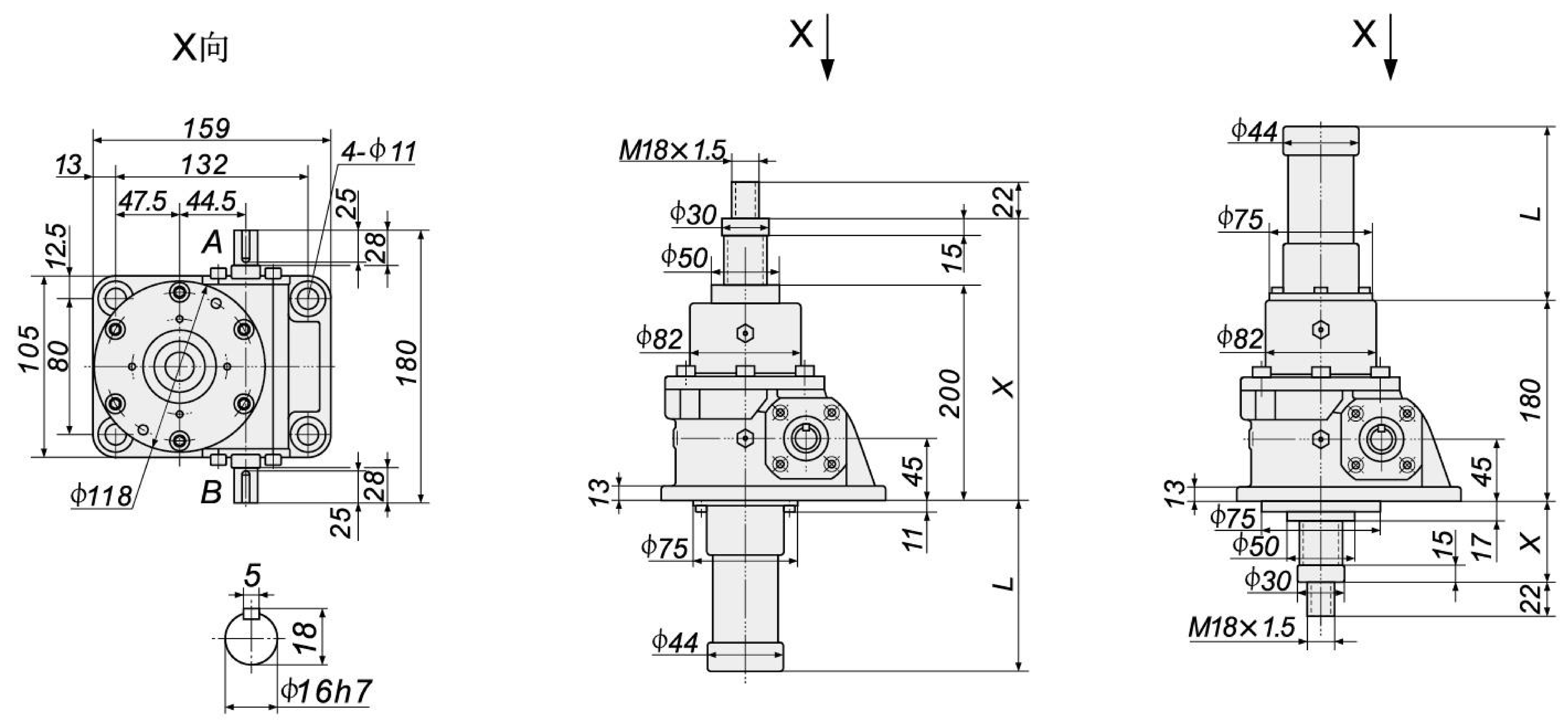
| 行程 (mm) Journey | U R X MIN | X MAX | Y | m (kg) |
|---|---|---|---|---|
| 100 | 108 | 208 | 265 | 5.9 |
| 200 | 108 | 308 | 365 | 6.1 |
| 300 | 108 | 408 | 465 | 6.4 |
| 400 | 108 | 508 | 565 | 6.6 |
| 500 | 108 | 608 | 665 | 6.8 |
| 600 | 108 | 708 | 765 | 7.0 |

| 行程 (mm) Journey | D R X MIN | X MAX | Y | m (kg) |
|---|---|---|---|---|
| 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 |

注：X(1) 为加防尘罩时尺寸。

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

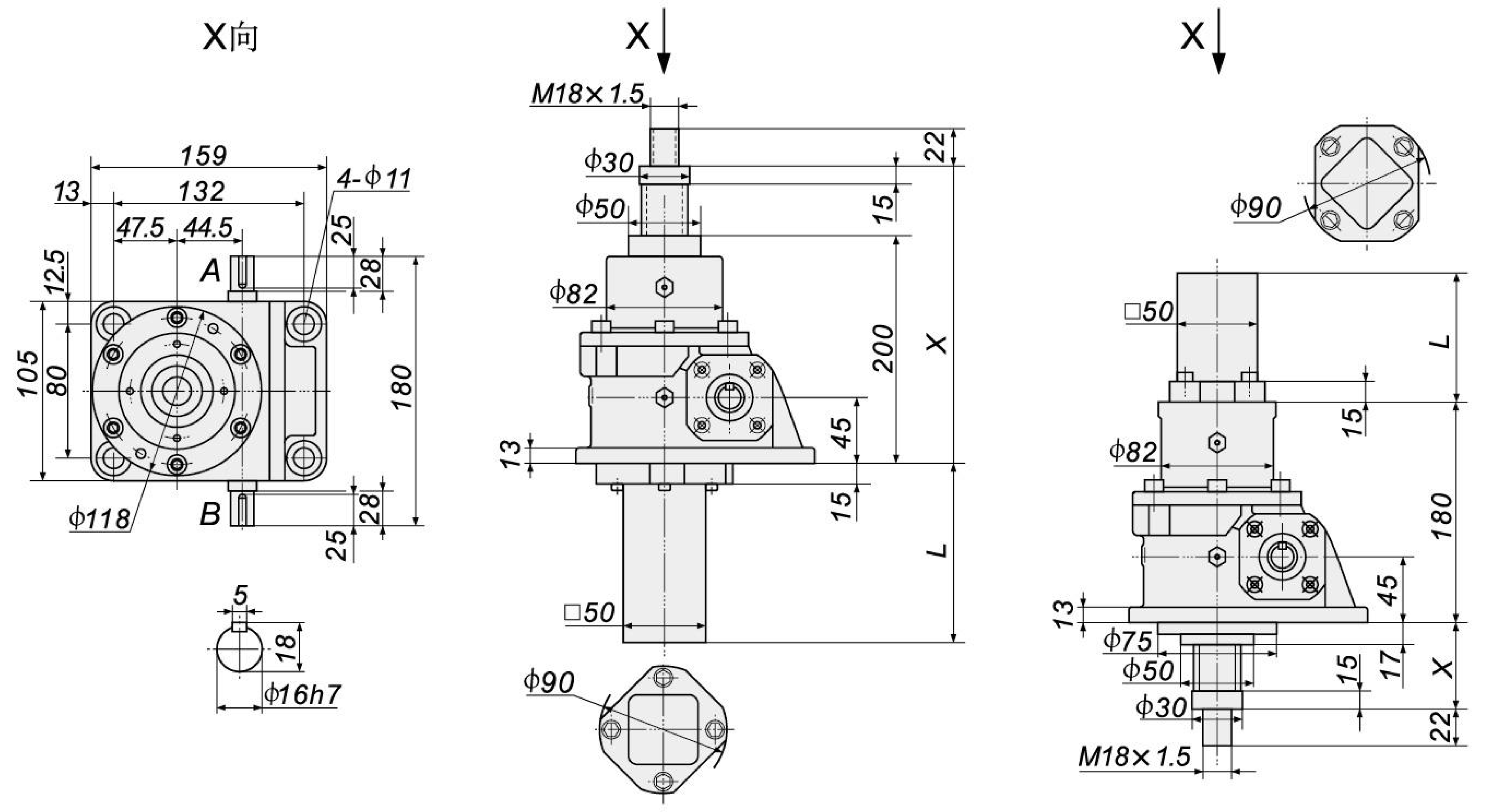
## JWB025




JWB025US　　JWB025DS

| 行程 (mm) Journey | US X MIN | US X MAX | US X(1) MIN | US X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 225 | 325 | 240 | 340 | 149 | 11 |
| 200 | 225 | 425 | 240 | 440 | 249 | 11 |
| 300 | 225 | 525 | 260 | 560 | 369 | 11 |
| 400 | 225 | 625 | 260 | 660 | 469 | 12 |
| 500 | 225 | 725 | 280 | 780 | 589 | 12 |
| 600 | 225 | 825 | 280 | 880 | 689 | 13 |
| 800 | 225 | 1025 | 300 | 1100 | 909 | 14 |

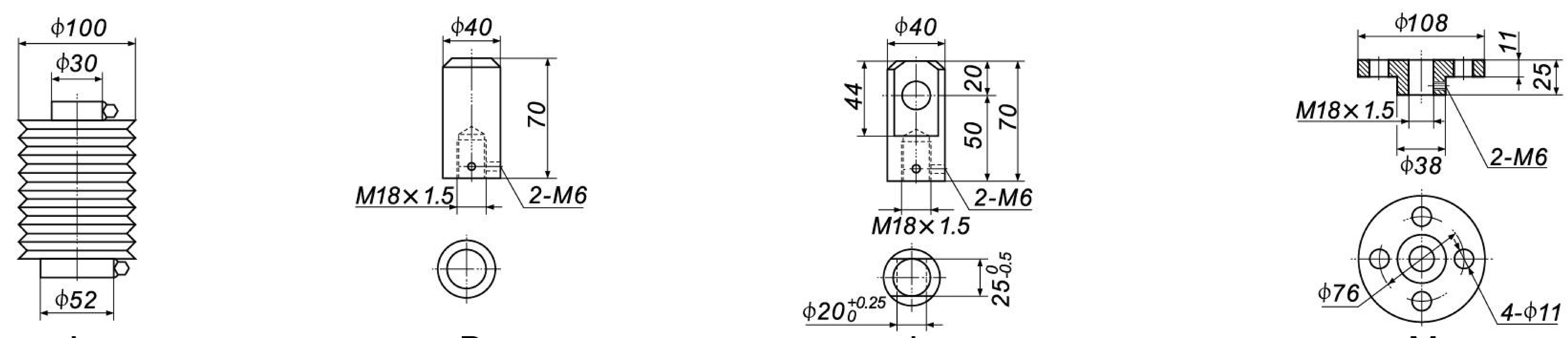
| 行程 (mm) Journey | DS X MIN | DS X MAX | DS X(1) MIN | DS X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 42 | 142 | 57 | 157 | 156 | 11 |
| 200 | 42 | 242 | 57 | 257 | 256 | 11 |
| 300 | 42 | 342 | 77 | 377 | 376 | 11 |
| 400 | 42 | 442 | 77 | 477 | 476 | 12 |
| 500 | 42 | 542 | 97 | 597 | 596 | 12 |
| 600 | 42 | 642 | 97 | 697 | 696 | 13 |
| 800 | 42 | 842 | 117 | 917 | 916 | 14 |



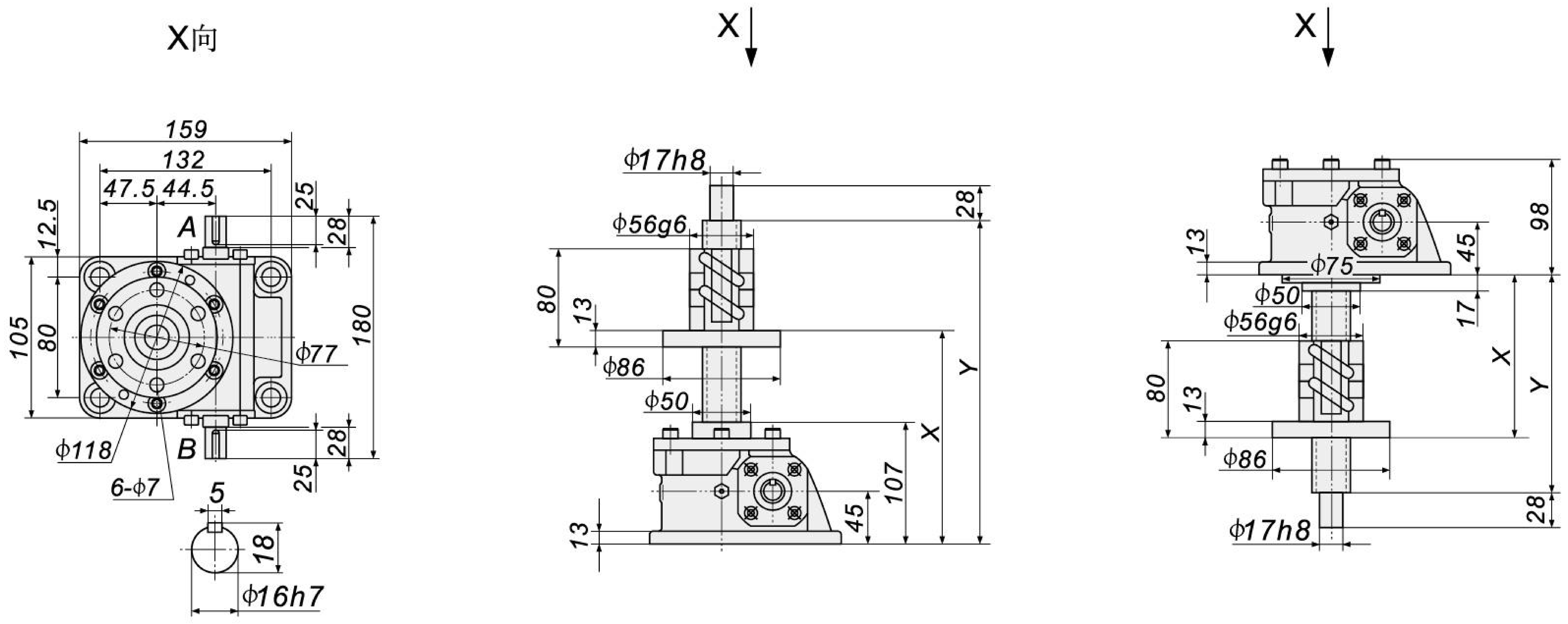

JWB025UM　　JWB025DM

| 行程 (mm) Journey | UM X MIN | UM X MAX | UM X(1) MIN | UM X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 225 | 325 | 240 | 340 | 175 | 12 |
| 200 | 225 | 425 | 240 | 440 | 275 | 13 |
| 300 | 225 | 525 | 260 | 560 | 395 | 15 |
| 400 | 225 | 625 | 260 | 660 | 495 | 16 |
| 500 | 225 | 725 | 280 | 780 | 615 | 17 |
| 600 | 225 | 825 | 280 | 880 | 715 | 18 |
| 800 | 225 | 1025 | 300 | 1100 | 935 | 21 |

| 行程 (mm) Journey | DM X MIN | DM X MAX | DM X(1) MIN | DM X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 42 | 142 | 57 | 157 | 182 | 12 |
| 200 | 42 | 242 | 57 | 257 | 282 | 13 |
| 300 | 42 | 342 | 77 | 377 | 402 | 15 |
| 400 | 42 | 442 | 77 | 477 | 502 | 16 |
| 500 | 42 | 542 | 97 | 597 | 622 | 17 |
| 600 | 42 | 642 | 97 | 697 | 722 | 18 |
| 800 | 42 | 842 | 117 | 917 | 942 | 21 |




J　　B　　I　　M



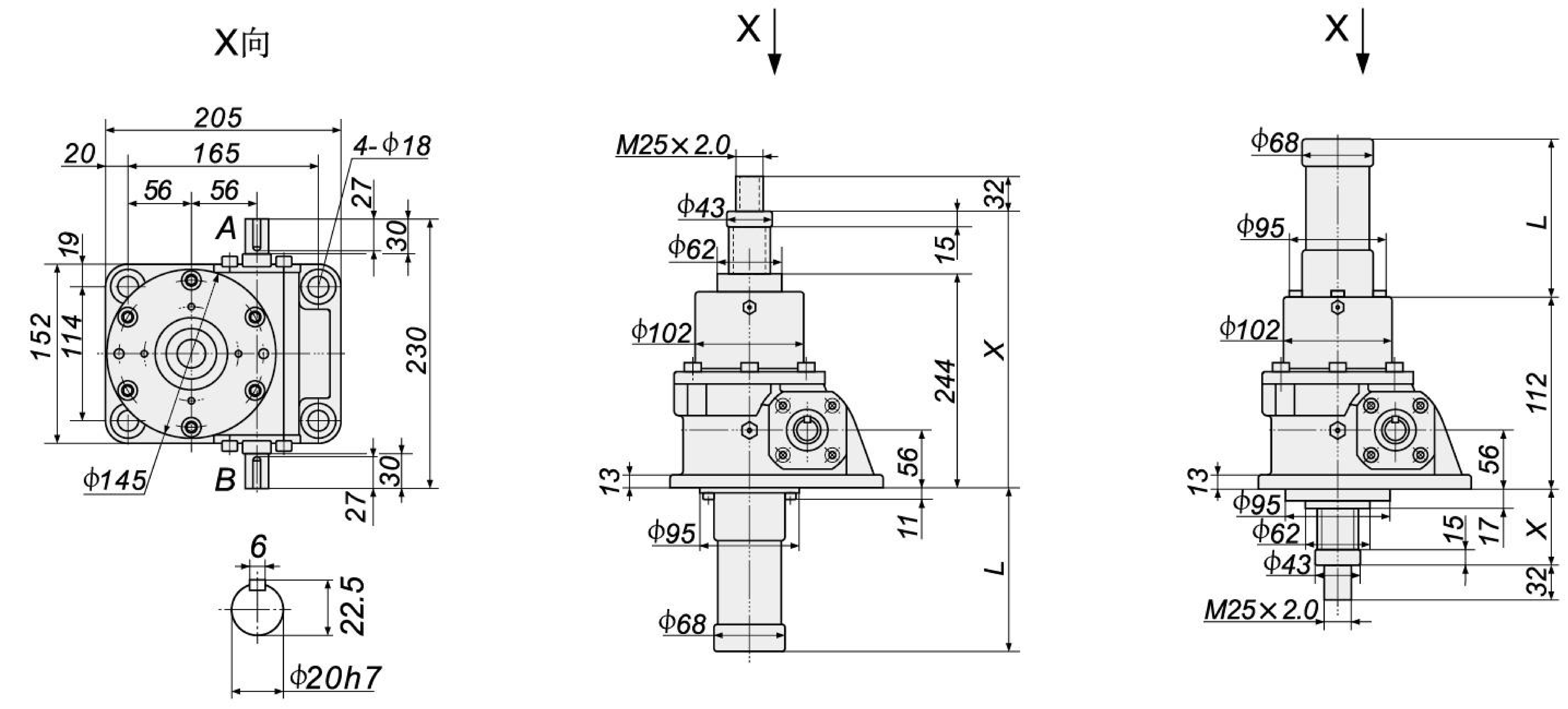

JWB025UR　　JWB025DR

| 行程 (mm) Journey | UR X MIN | UR X MAX | Y | m (kg) |
|---|---|---|---|---|
| 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 |

| 行程 (mm) Journey | DR X MIN | DR X MAX | Y | m (kg) |
|---|---|---|---|---|
| 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 | 908 | 919 | 12 |

注：X(1)为加防尘罩时尺寸。　　Note: "X(1)" is the dimension of jack with dust hood.

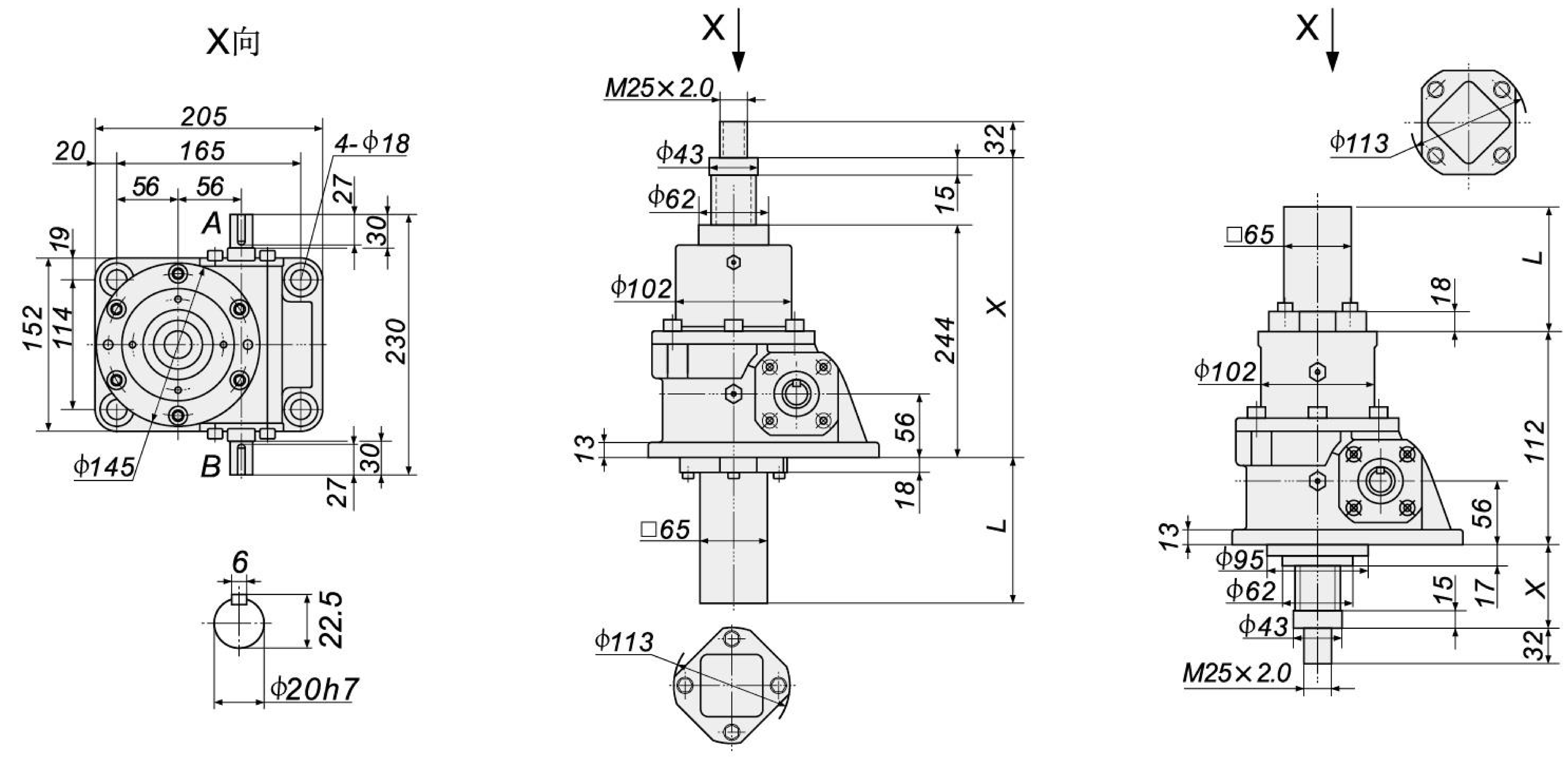
## JWB050




JWB050US JWB050DS

| 行程(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 |

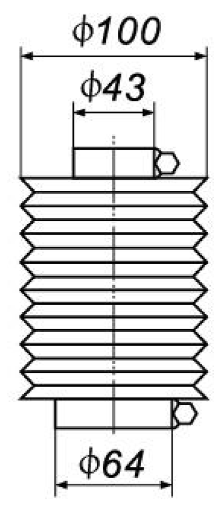
| 行程(mm) Journey | D S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 42 | 142 | 57 | 157 | 147 | 23 |
| 200 | 42 | 242 | 57 | 257 | 247 | 23 |
| 300 | 42 | 342 | 77 | 377 | 367 | 24 |
| 400 | 42 | 442 | 77 | 477 | 467 | 25 |
| 500 | 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 |



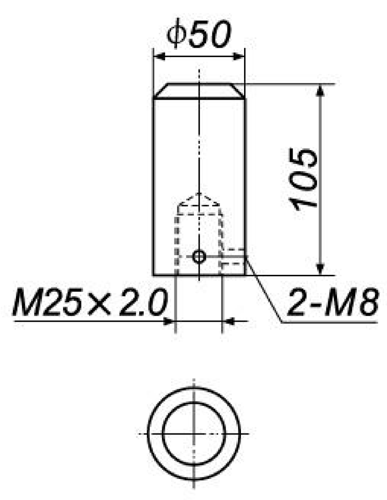

JWB050UM JWB050DM

| 行程(mm) Journey | U M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | 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 |

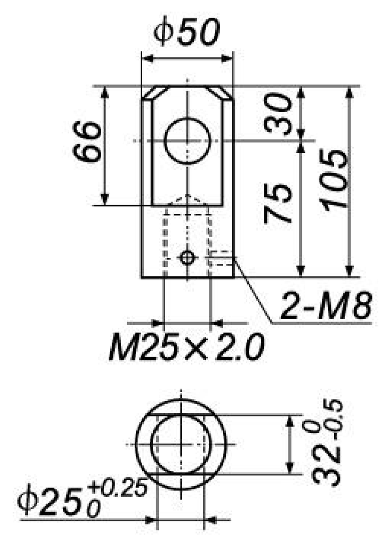
| 行程(mm) Journey | D M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 42 | 142 | 57 | 157 | 175 | 25 |
| 200 | 42 | 242 | 57 | 257 | 275 | 27 |
| 300 | 42 | 342 | 77 | 377 | 395 | 29 |
| 400 | 42 | 442 | 77 | 477 | 495 | 31 |
| 500 | 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 |



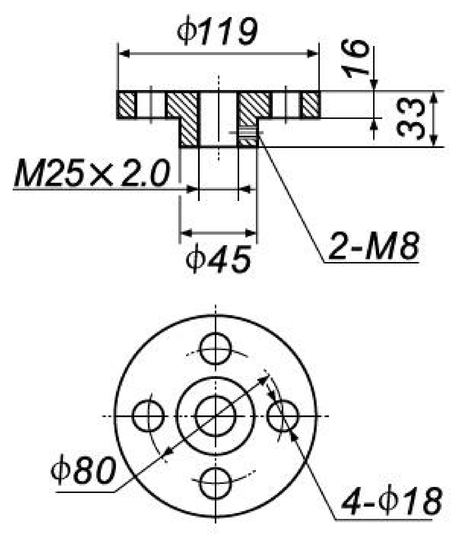

J



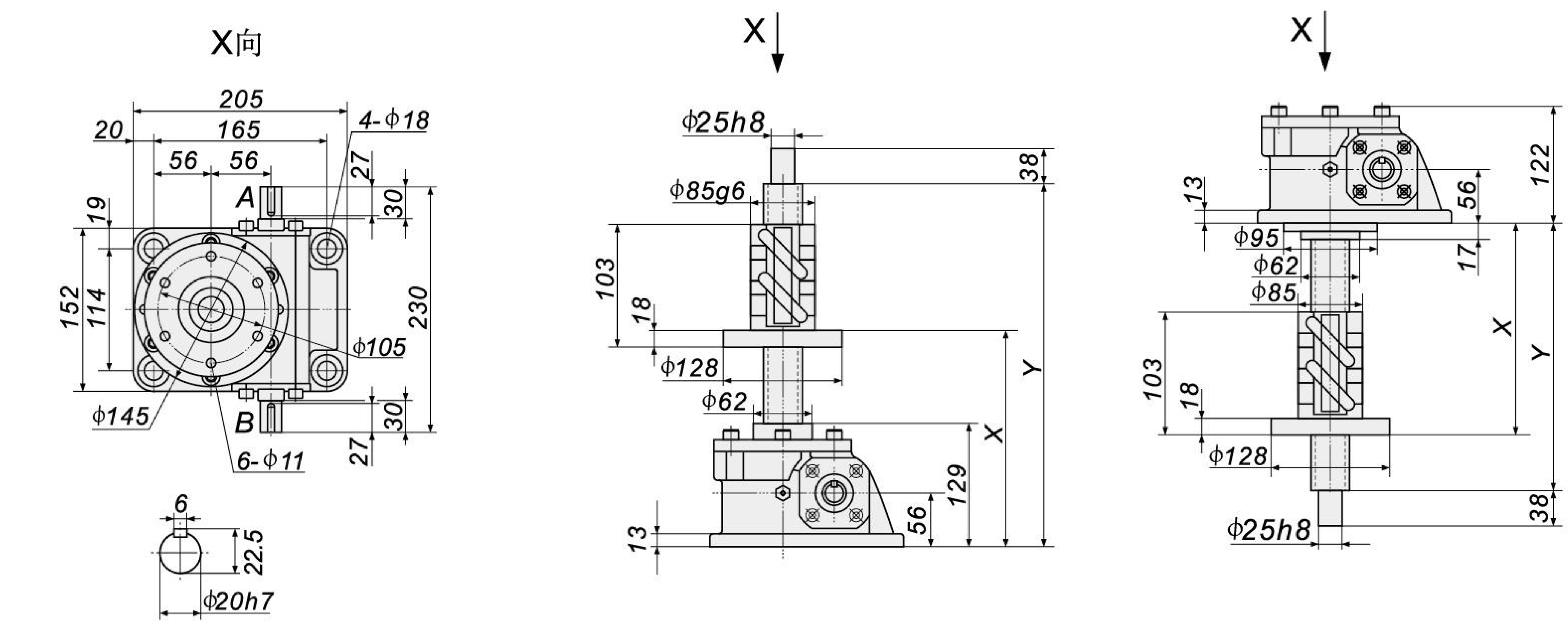

B




I




M




JWB050UR JWB050DR

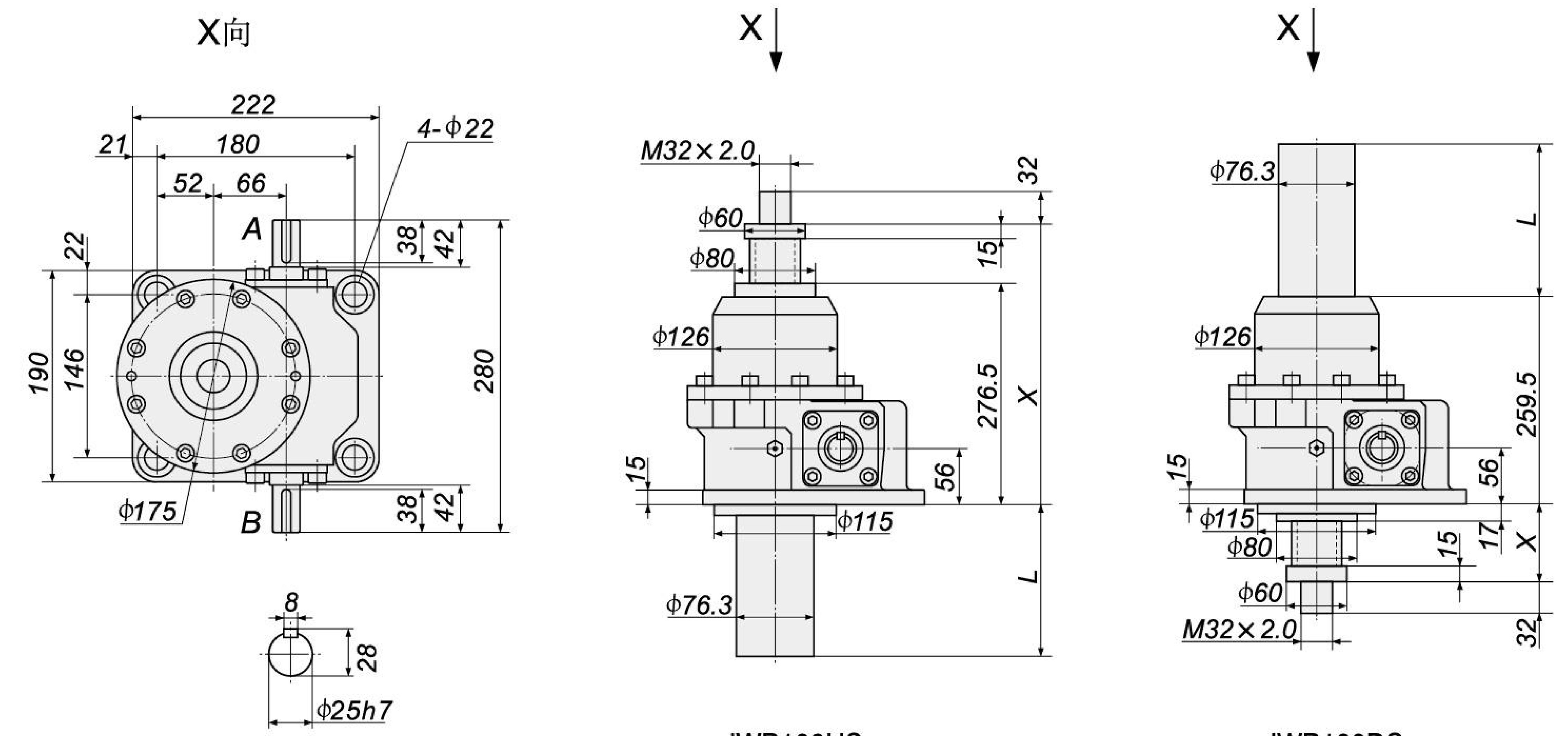
| 行程(mm) Journey | U R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 157 | 257 | 354 | 21 |
| 200 | 157 | 357 | 454 | 22 |
| 300 | 157 | 457 | 554 | 22 |
| 400 | 157 | 557 | 654 | 23 |
| 500 | 157 | 657 | 754 | 24 |
| 600 | 157 | 757 | 854 | 24 |
| 800 | 157 | 957 |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

| 行程(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 |

注：X(1)为加防尘罩时尺寸。

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

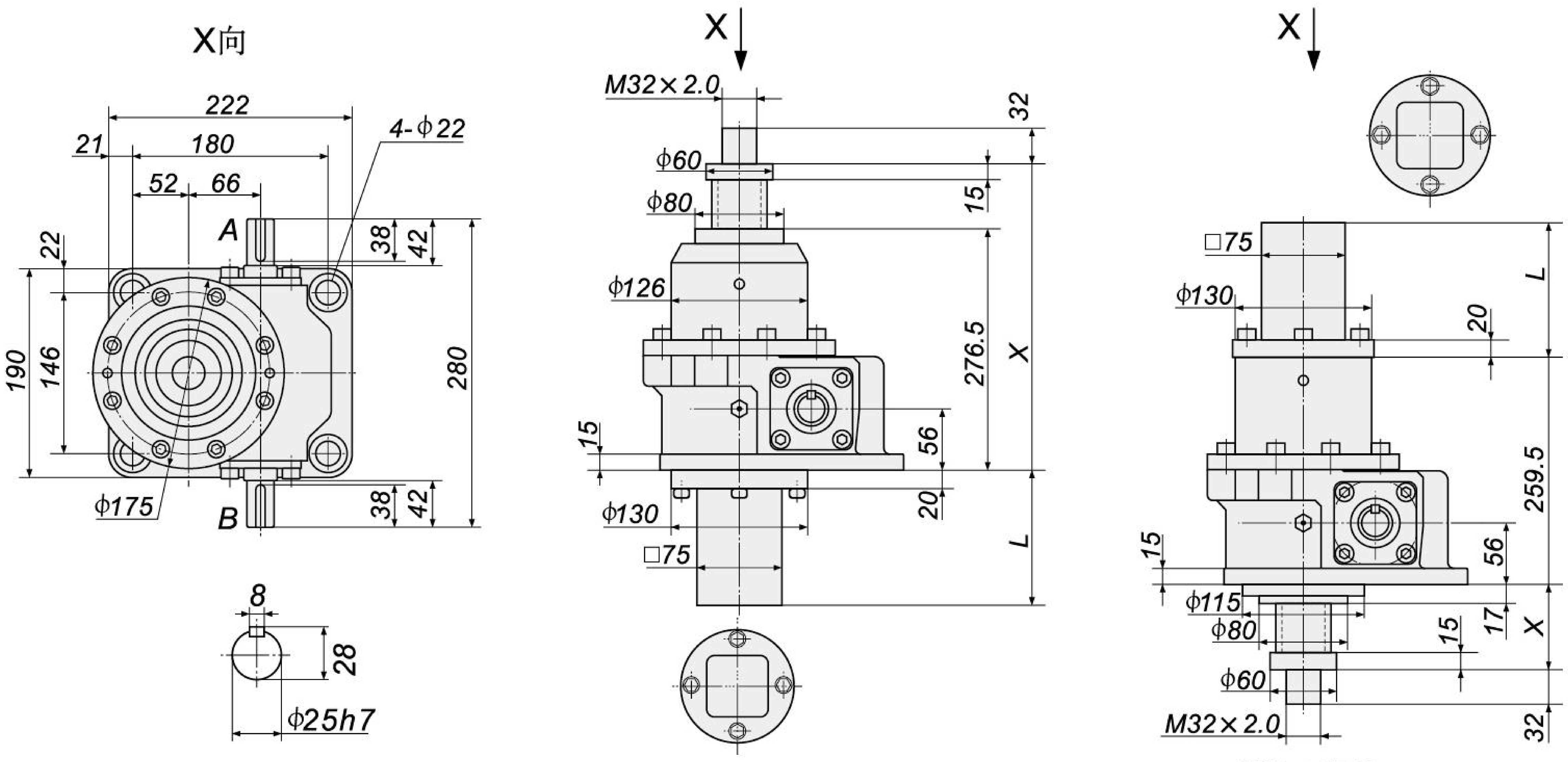
## JWB100



JWB100US　JWB100DS

| 行程(mm) Journey | US X MIN | US X MAX | US X(1) MIN | US X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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 |

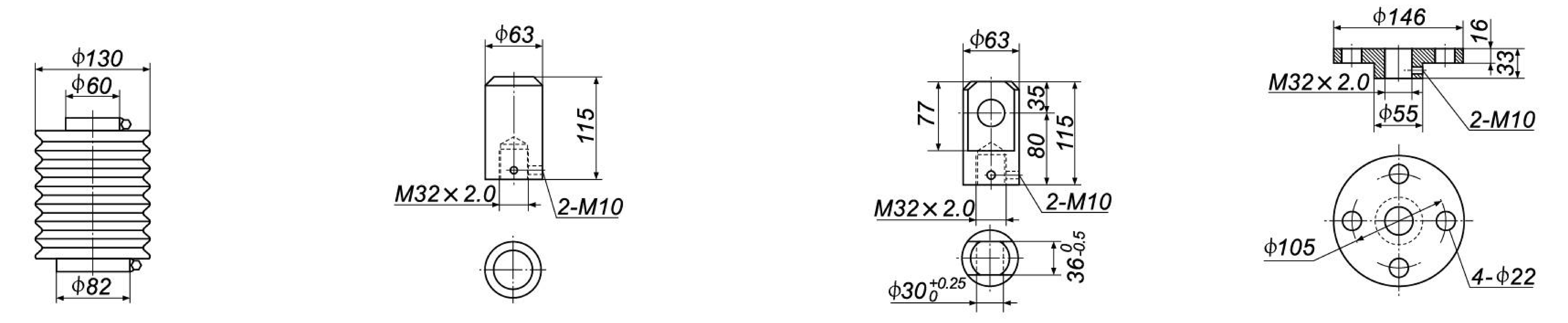
| 行程(mm) Journey | DS X MIN | DS X MAX | DS X(1) MIN | DS X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 100 | 42 | 142 | 52 | 152 | 151 | 36 |
| 200 | 42 | 242 | 52 | 252 | 252 | 38 |
| 300 | 42 | 342 | 67 | 367 | 366 | 41 |
| 400 | 42 | 442 | 67 | 467 | 466 | 43 |
| 500 | 42 | 542 | 92 | 592 | 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 |



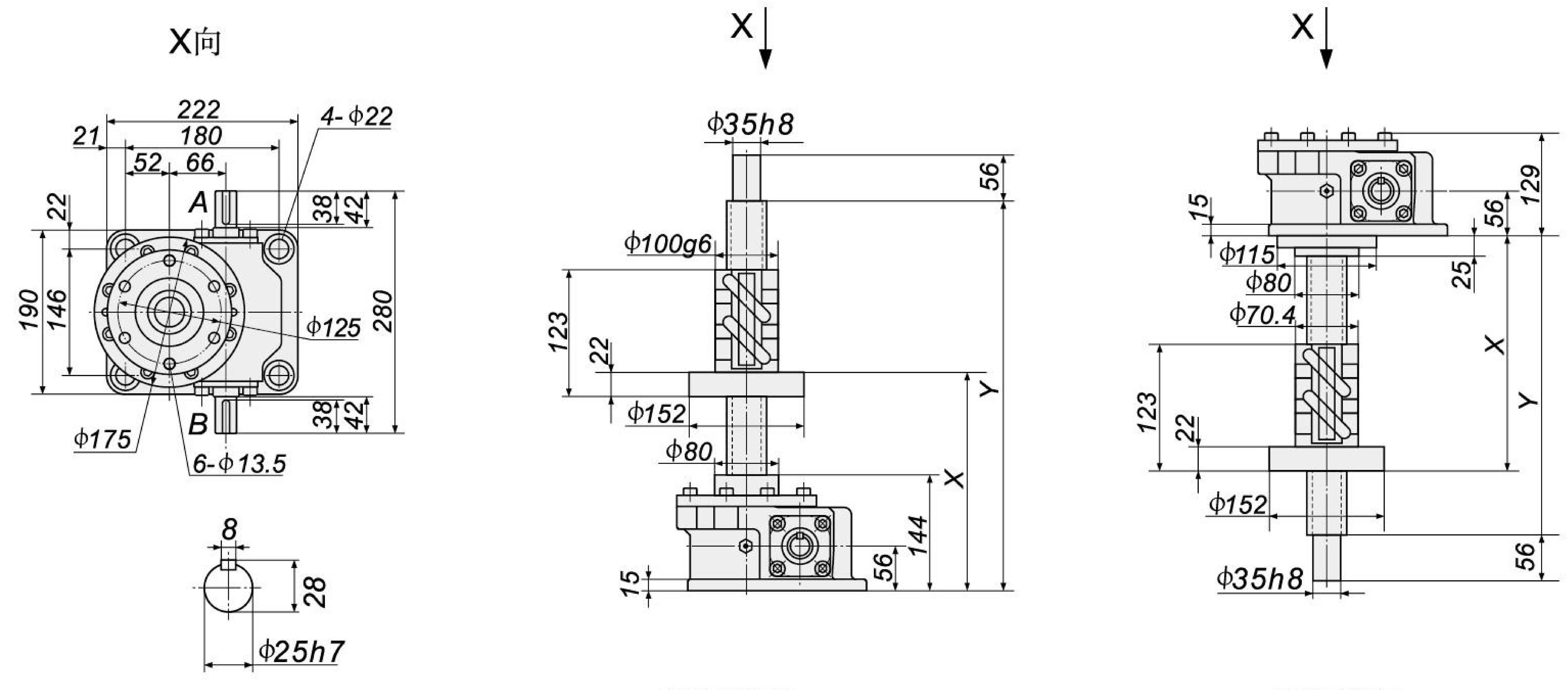
JWB100UM　JWB100DM

| 行程(mm) Journey | UM X MIN | UM X MAX | UM X(1) MIN | UM X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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 |

| 行程(mm) Journey | DM X MIN | DM X MAX | DM X(1) MIN | DM X(1) MAX | L | m (kg) |
|---|---|---|---|---|---|---|
| 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

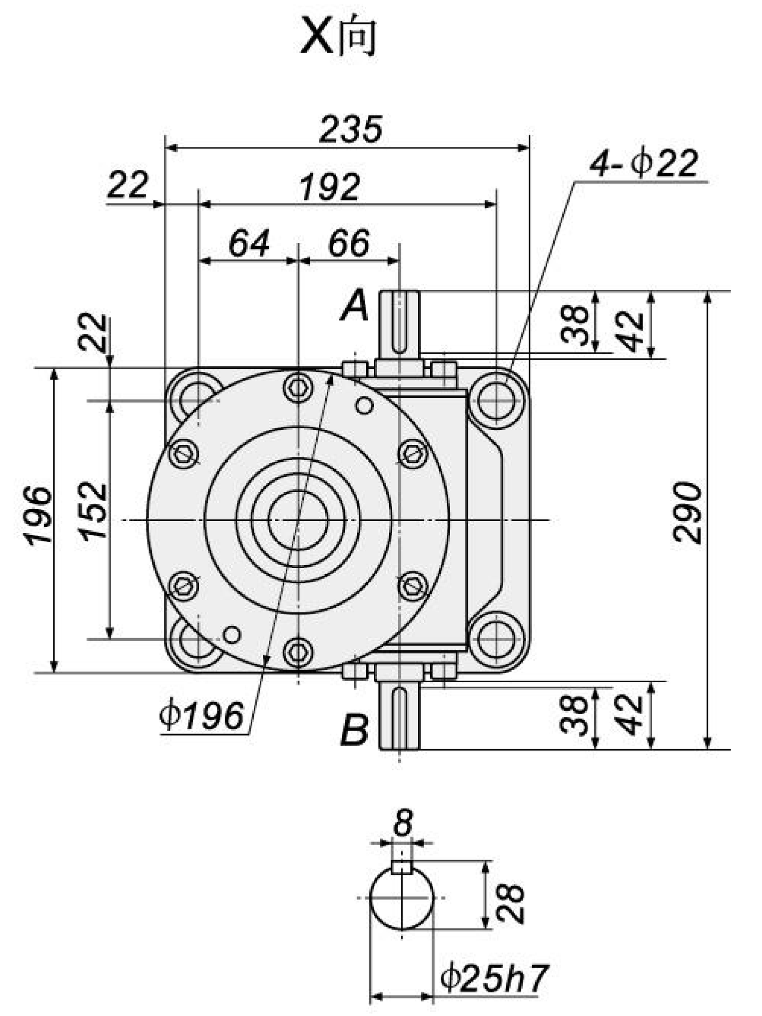
| 行程(mm) Journey | UR X MIN | UR X MAX | Y | m (kg) |
|---|---|---|---|---|
| 100 | 176 | 276 | 387 | 31 |
| 200 | 176 | 376 | 487 | 32 |
| 300 | 176 | 476 | 587 | 33 |
| 400 | 176 | 576 | 687 | 34 |
| 500 | 176 | 676 | 787 | 35 |
| 600 | 176 | 776 | 887 | 36 |
| 800 | 176 | 976 | 1087 | 39 |
| 1000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

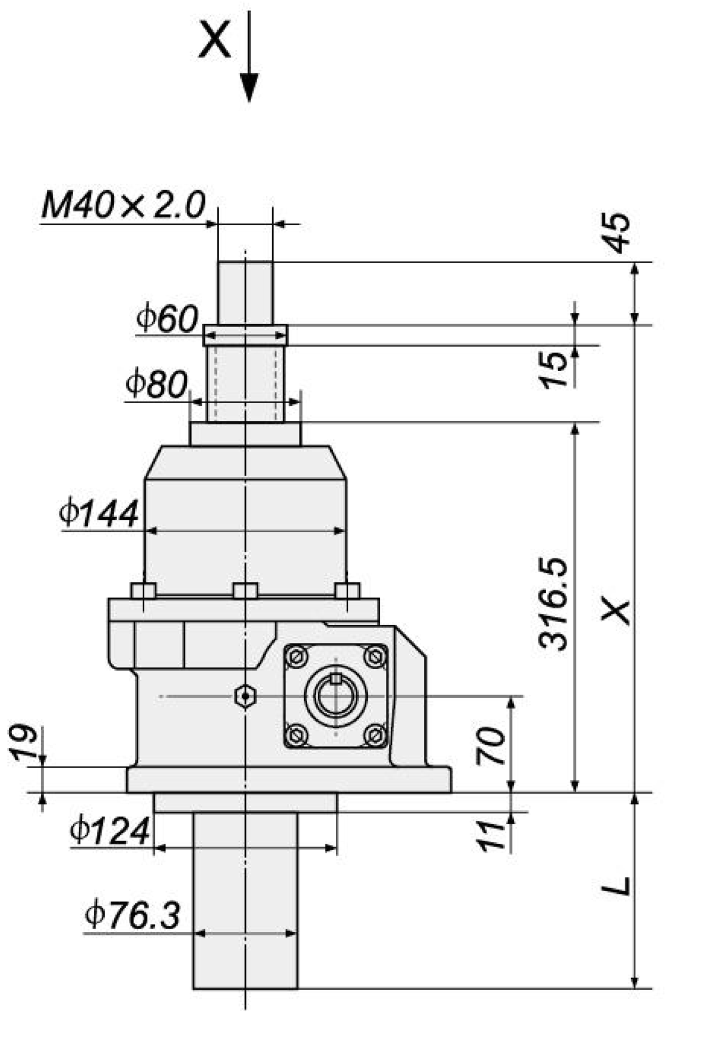
| 行程(mm) Journey | DR X MIN | DR X MAX | Y | m (kg) |
|---|---|---|---|---|
| 100 | 158 | 258 | 268 | 31 |
| 200 | 158 | 358 | 368 | 32 |
| 300 | 158 | 458 | 468 | 33 |
| 400 | 158 | 558 | 568 | 34 |
| 500 | 158 | 658 | 668 | 35 |
| 600 | 158 | 758 | 768 | 36 |
| 800 | 158 | 958 | 968 | 39 |
| 1000 |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

注：X(1)为加防尘罩时尺寸。

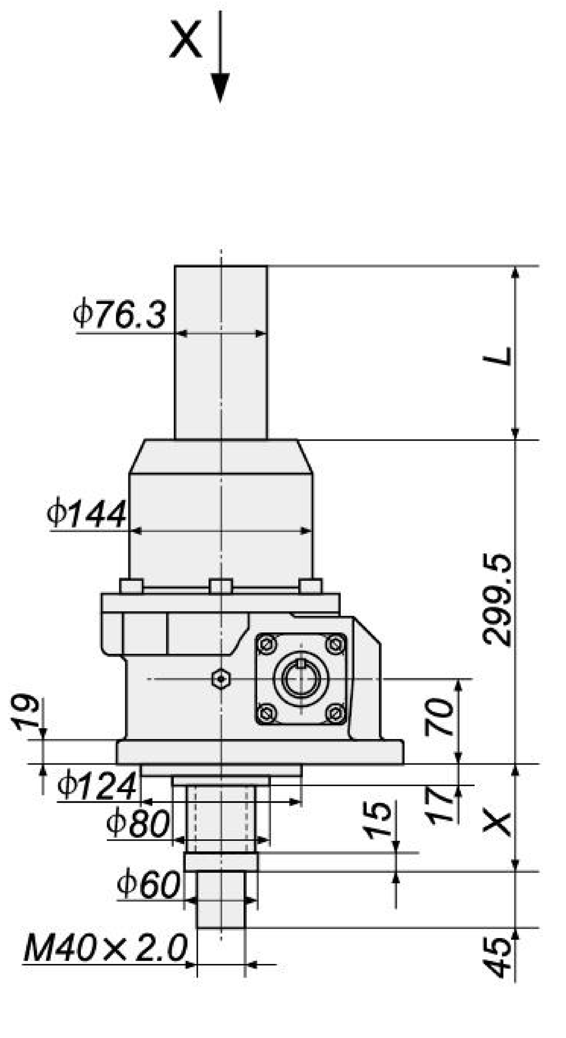
Note: "X(1)" is the dimension of jack with dust hood.

## JWB150



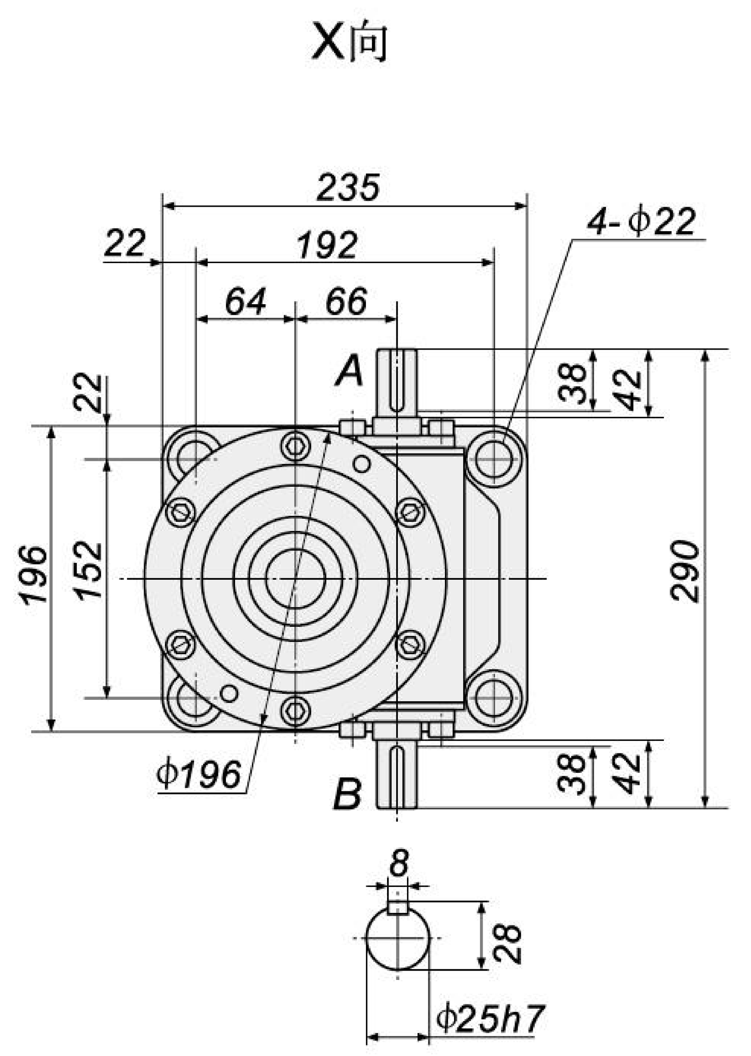

JWB150US

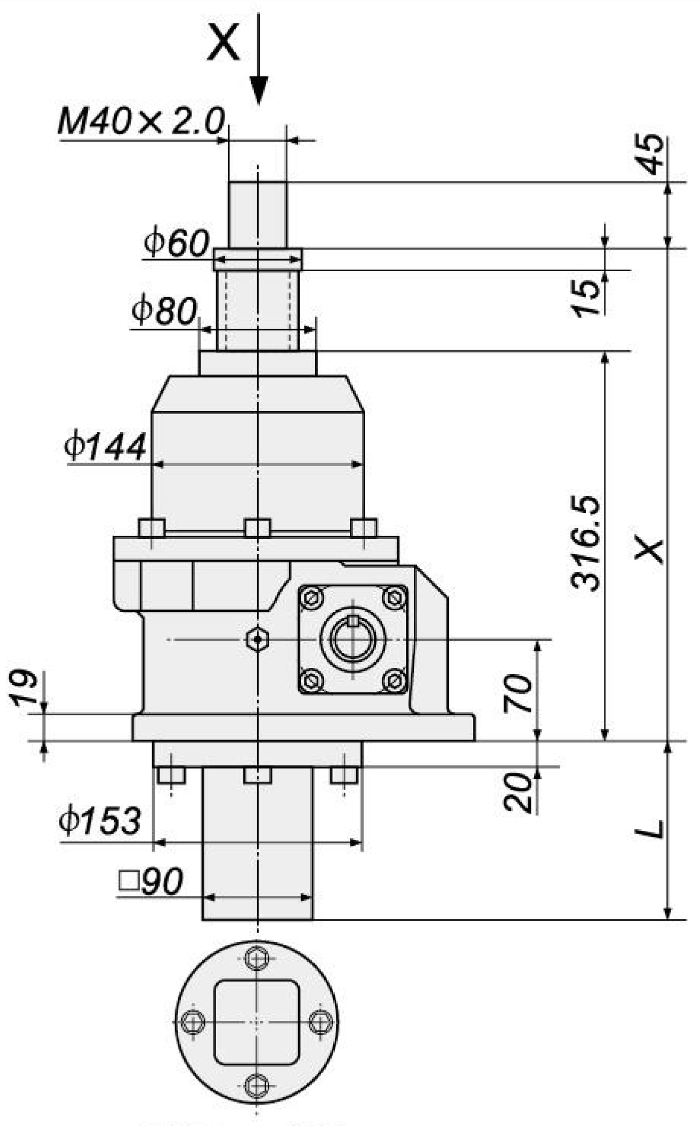



JWB150DS

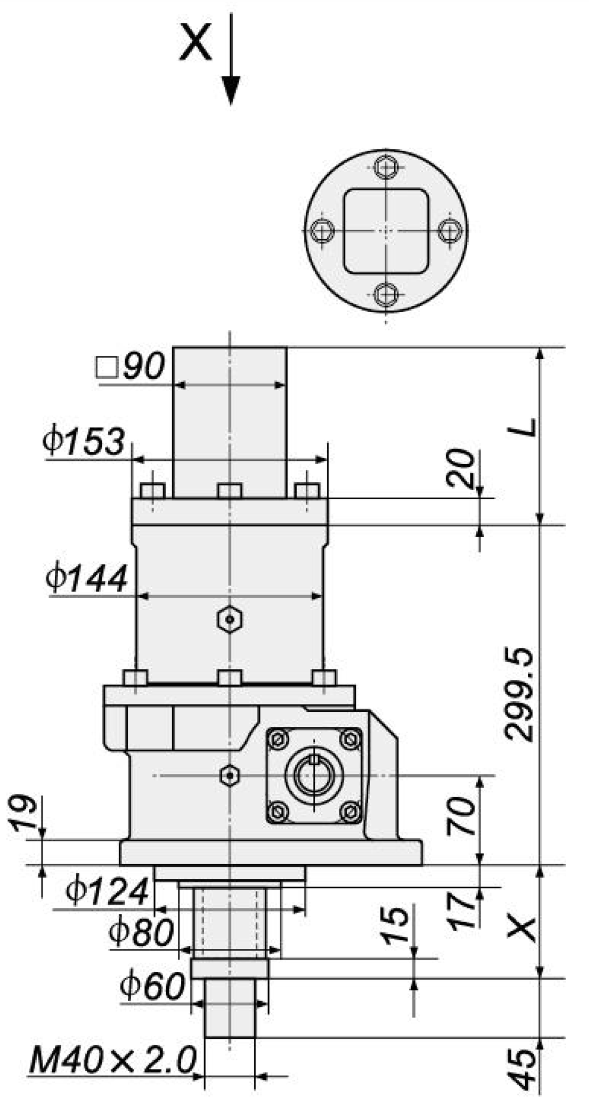
| 行程 (mm) Journey | U S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 342 | 442 | 352 | 452 | 151 | 46 |
| 200 | 342 | 542 | 352 | 552 | 252 | 48 |
| 300 | 342 | 642 | 367 | 667 | 366 | 51 |
| 400 | 342 | 742 | 367 | 767 | 466 | 54 |
| 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 |

| 行程 (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

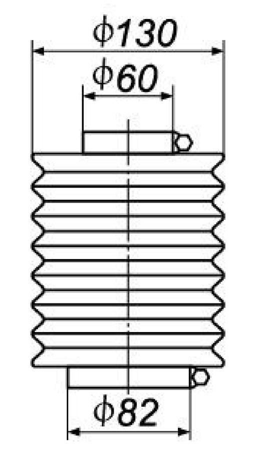



JWB150DM

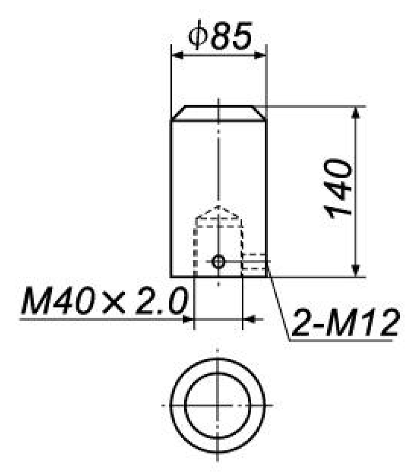
| 行程 (mm) Journey | U M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 342 | 442 | 352 | 452 | 221 | 52 |
| 200 | 342 | 542 | 352 | 552 | 321 | 55 |
| 300 | 342 | 642 | 367 | 667 | 436 | 59 |
| 400 | 342 | 742 | 367 | 767 | 536 | 62 |
| 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 |

| 行程 (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 |

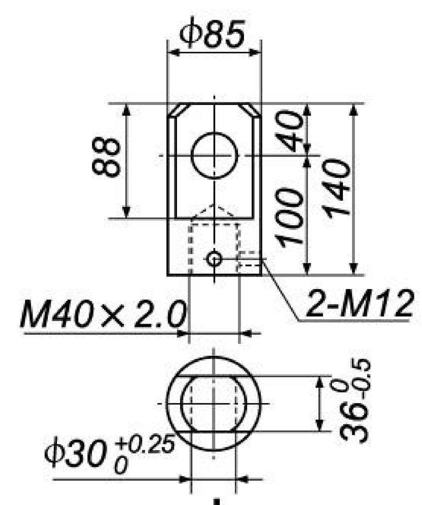




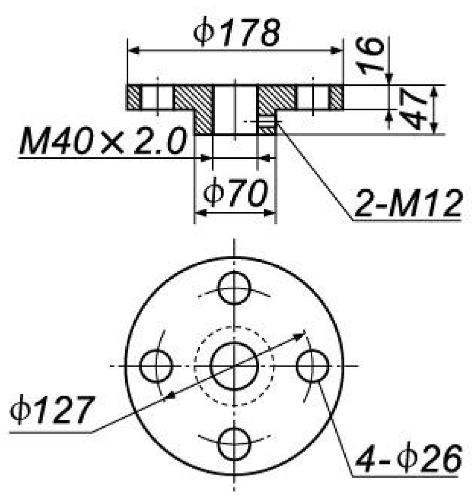

J



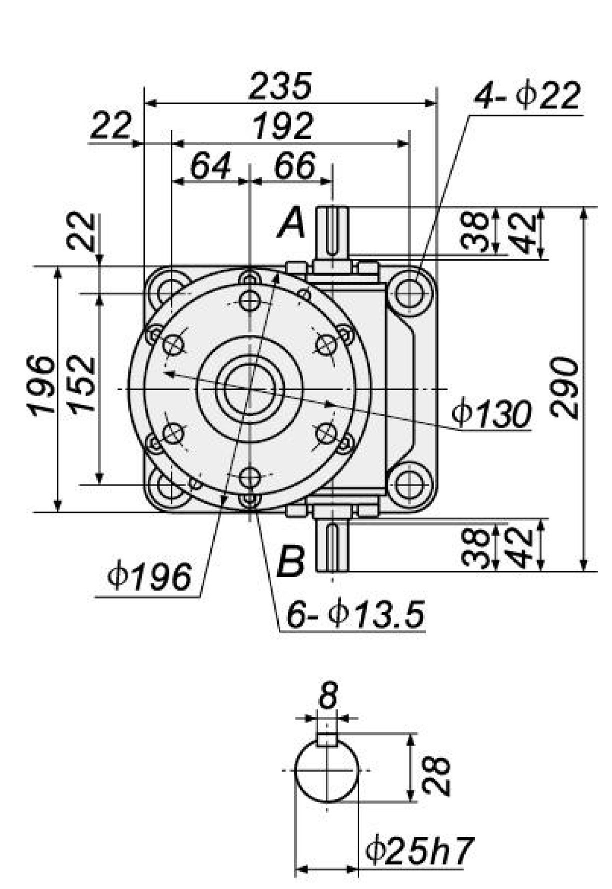

B

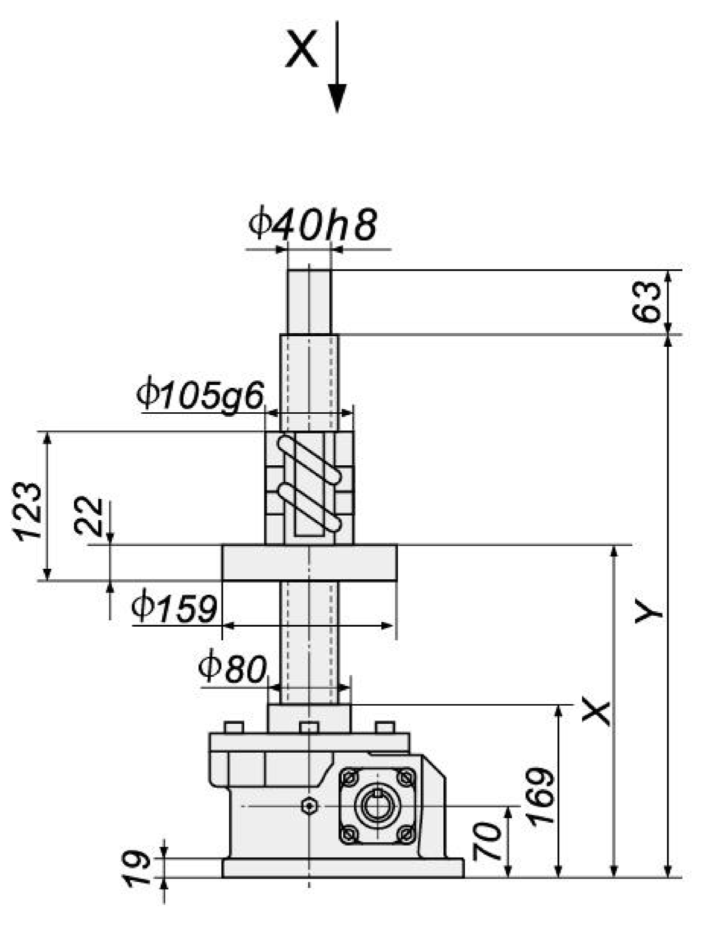



I

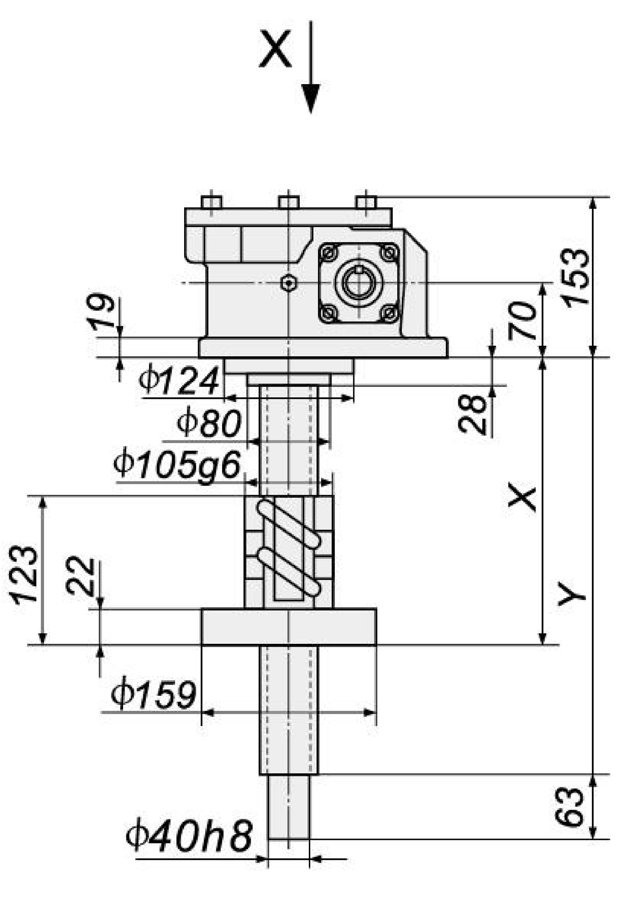



M




JWB150UR




JWB150DR

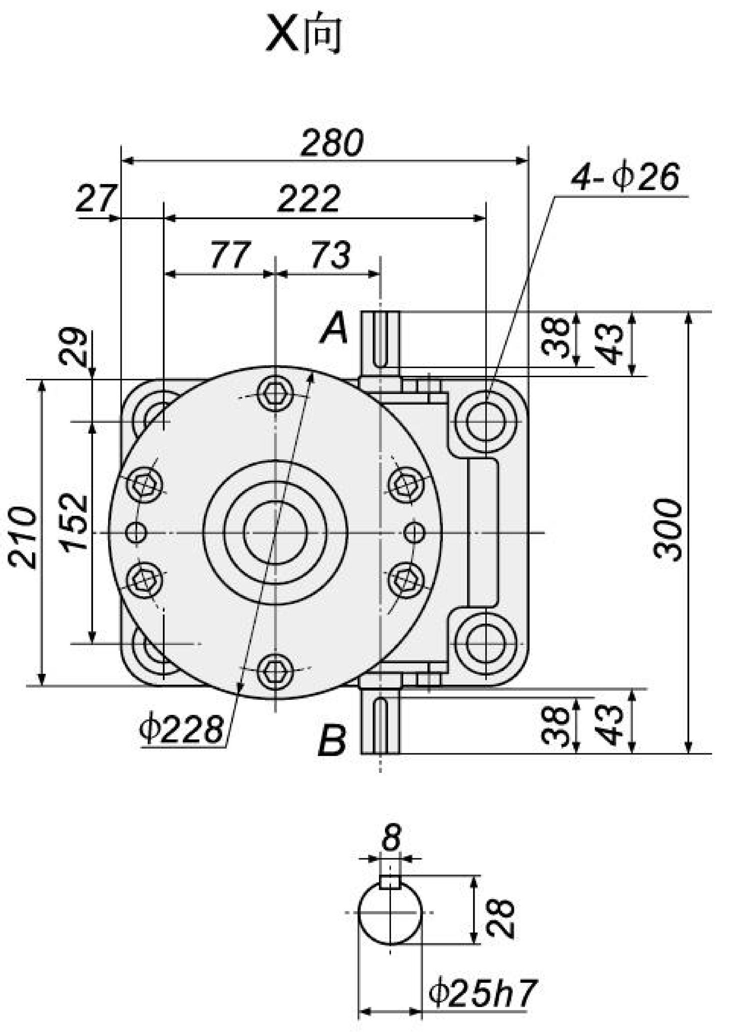
| 行程 (mm) Journey | U R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 201 | 301 | 412 | 41 |
| 200 | 201 | 401 | 512 | 42 |
| 300 | 201 | 501 | 612 | 43 |
| 400 | 201 | 601 | 712 | 45 |
| 500 | 201 | 701 | 812 | 46 |
| 600 | 201 | 801 | 912 | 47 |
| 800 | 201 | 1001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

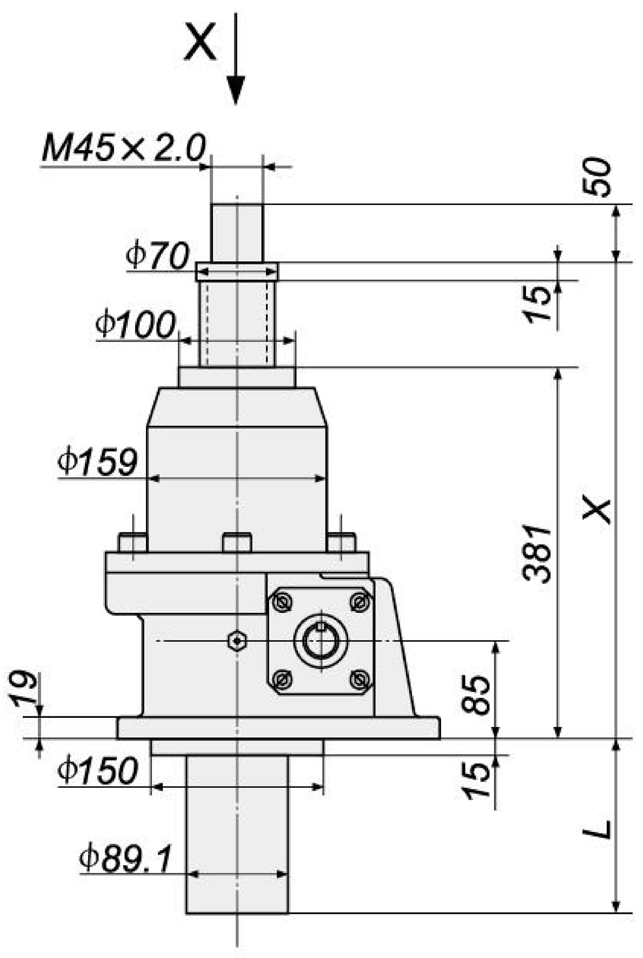
| 行程 (mm) Journey | D R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 161 | 261 | 272 | 41 |
| 200 | 161 | 361 | 372 | 42 |
| 300 | 161 | 461 | 472 | 43 |
| 400 | 161 | 561 | 572 | 45 |
| 500 | 161 | 661 | 672 | 46 |
| 600 | 161 | 761 | 772 | 47 |
| 800 | 161 | 961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

注：X(1) 为加防尘罩时尺寸。

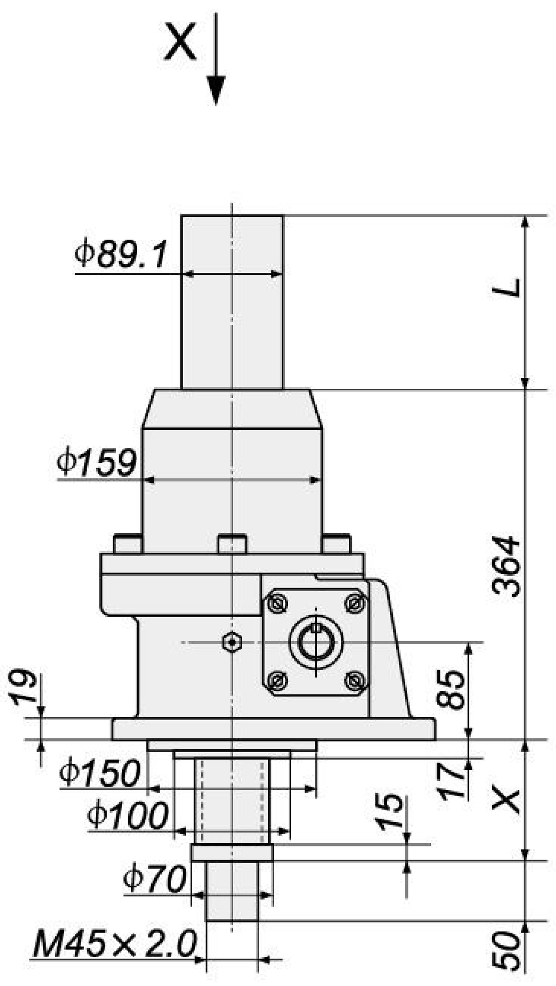
Note: “X(1)” is the dimension of jack with dust hood.

JWB200



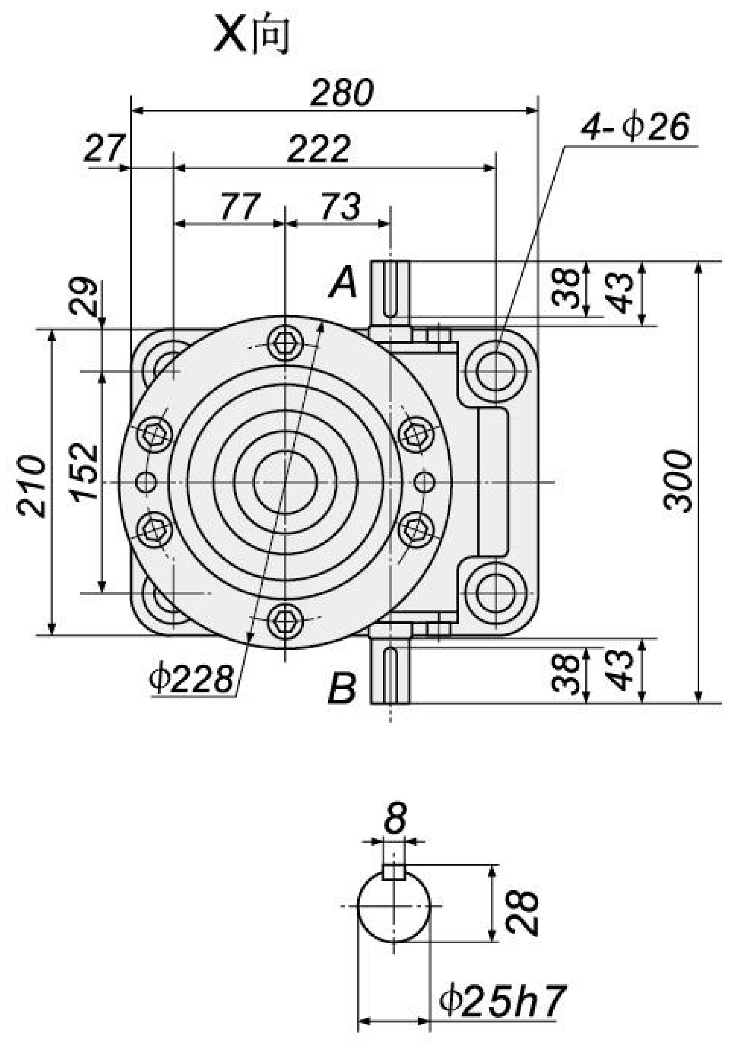

JWB200US

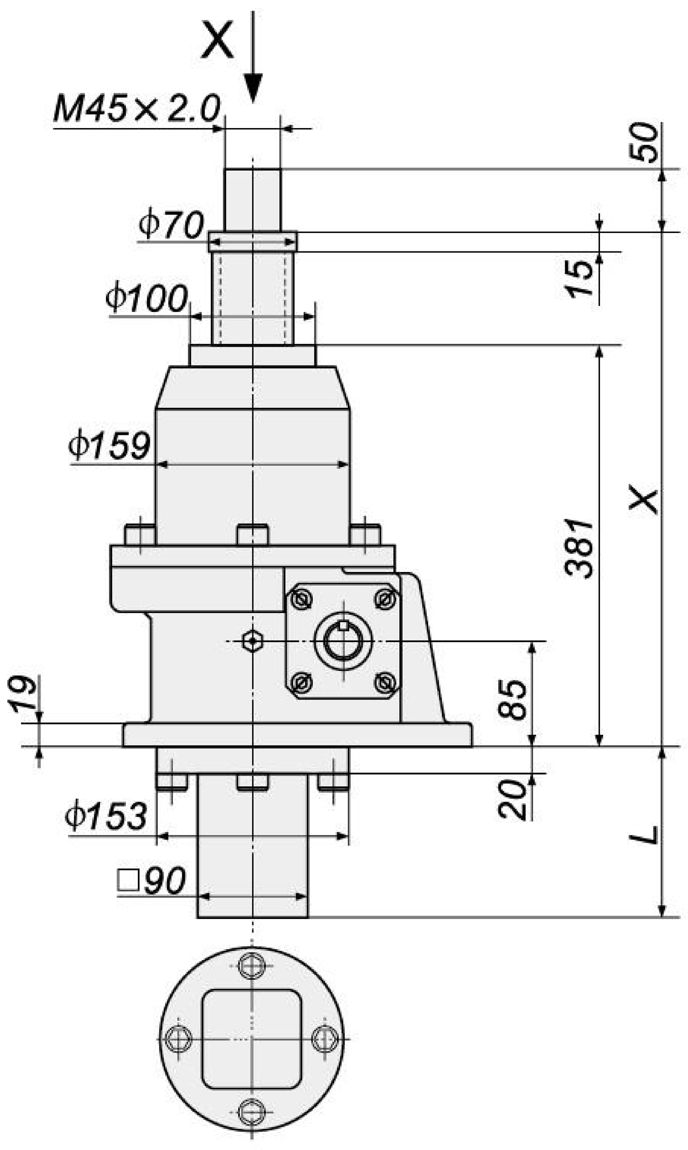



JWB200DS

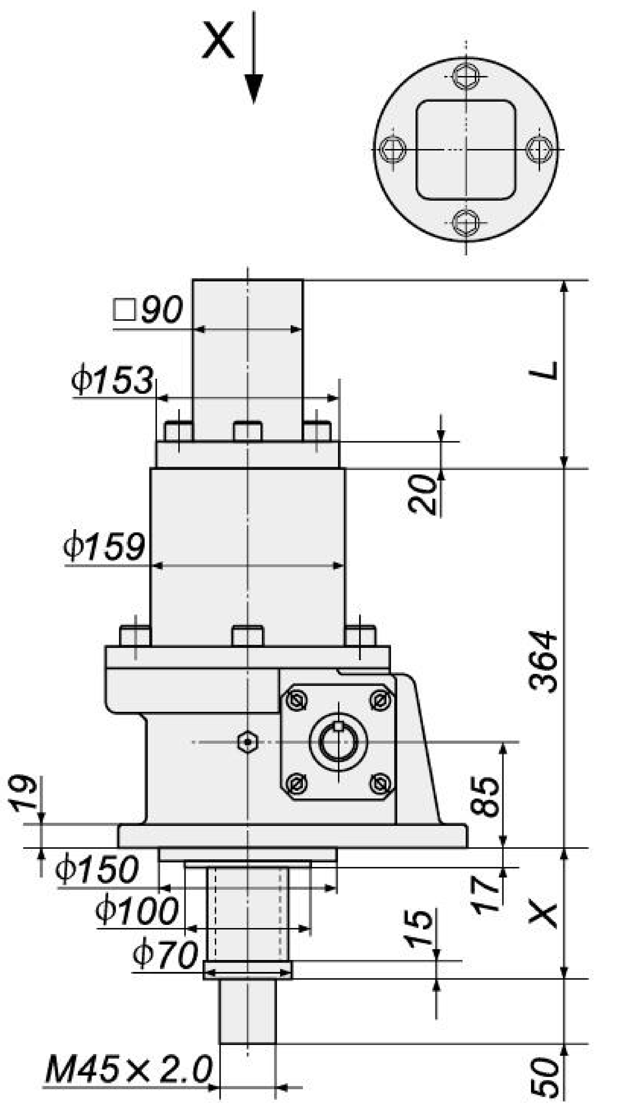
| 行程(mm) Journey | U S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 406 | 506 | 416 | 516 | 151 | 65 |
| 200 | 406 | 606 | 416 | 616 | 252 | 68 |
| 300 | 406 | 706 | 431 | 731 | 366 | 72 |
| 400 | 406 | 806 | 431 | 831 | 466 | 76 |
| 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 |

| 行程(mm) Journey | D S | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 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

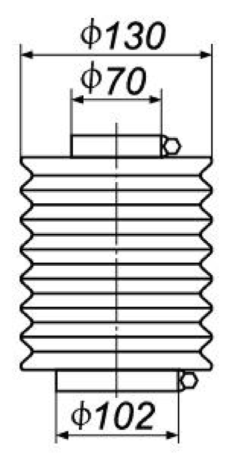



JWB200DM

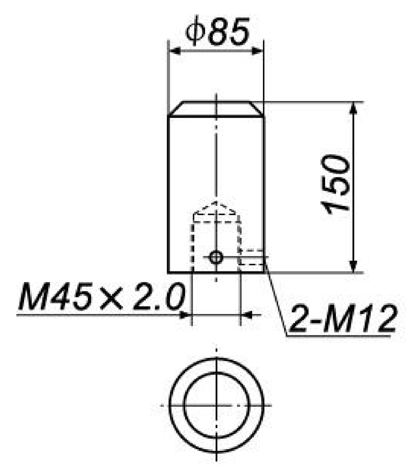
| 行程(mm) Journey | U M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 100 | 406 | 506 | 416 | 516 | 230 | 72 |
| 200 | 406 | 606 | 416 | 616 | 330 | 76 |
| 300 | 406 | 706 | 431 | 731 | 445 | 80 |
| 400 | 406 | 806 | 431 | 831 | 545 | 84 |
| 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 |

| 行程(mm) Journey | D M | | | | | |
|---|---|---|---|---|---|---|
| | X | | X(1) | | L | m (kg) |
| | MIN | MAX | MIN | MAX | | |
| 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 |

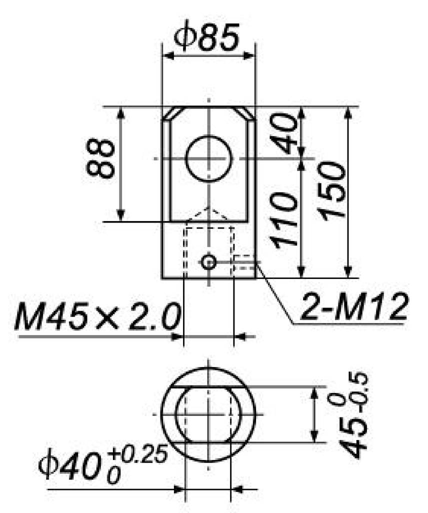
JW



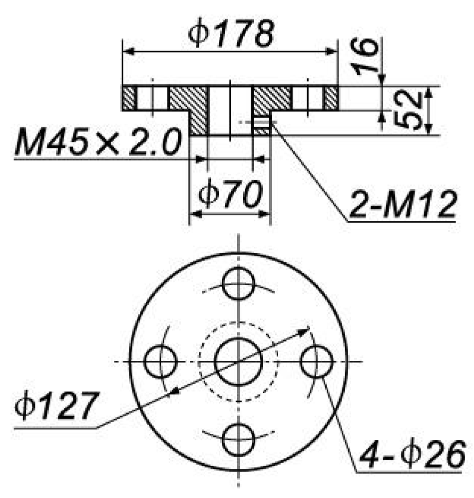

J



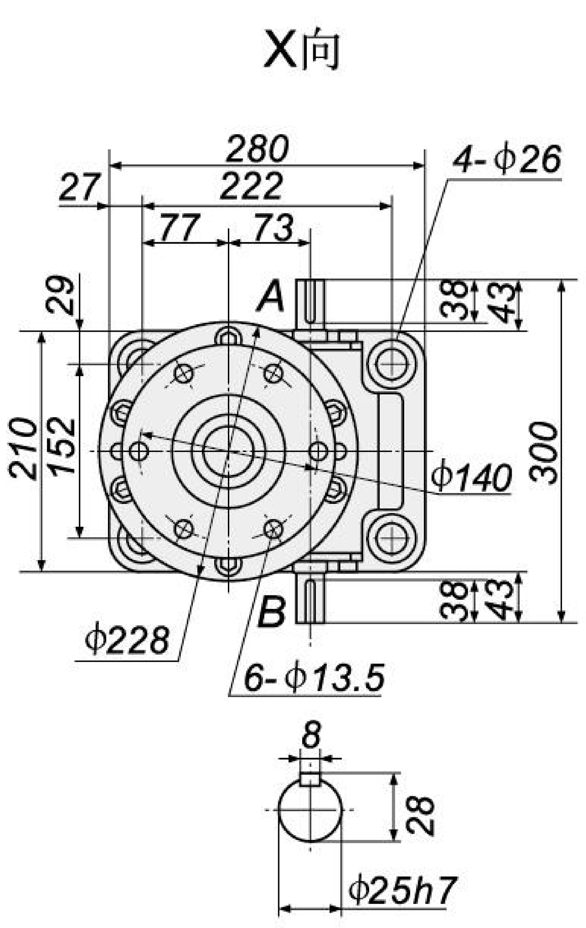

B

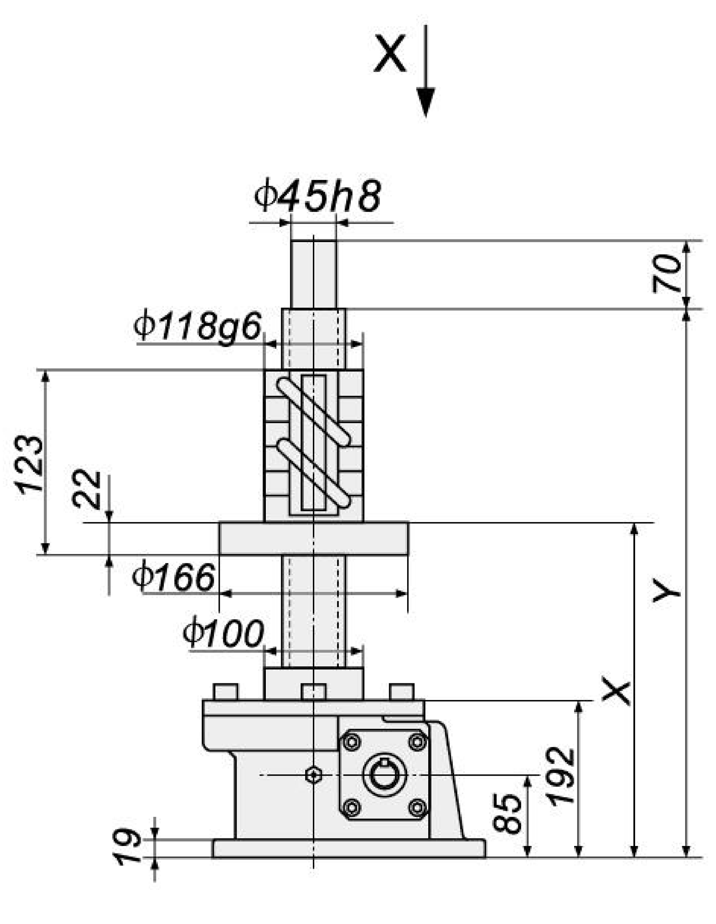



I

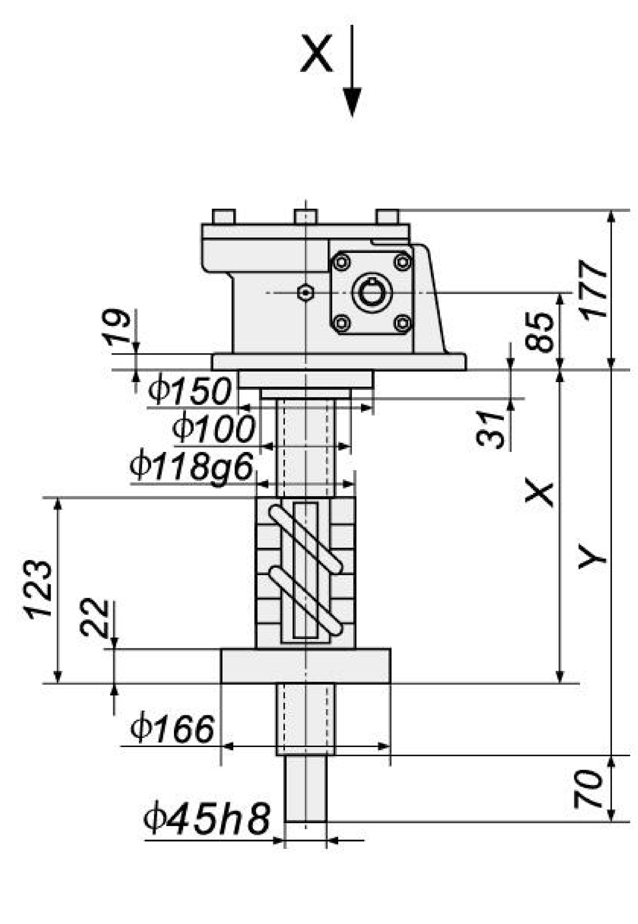



M




JWB200UR




JWB200DR

| 行程(mm) Journey | U R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | 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 |

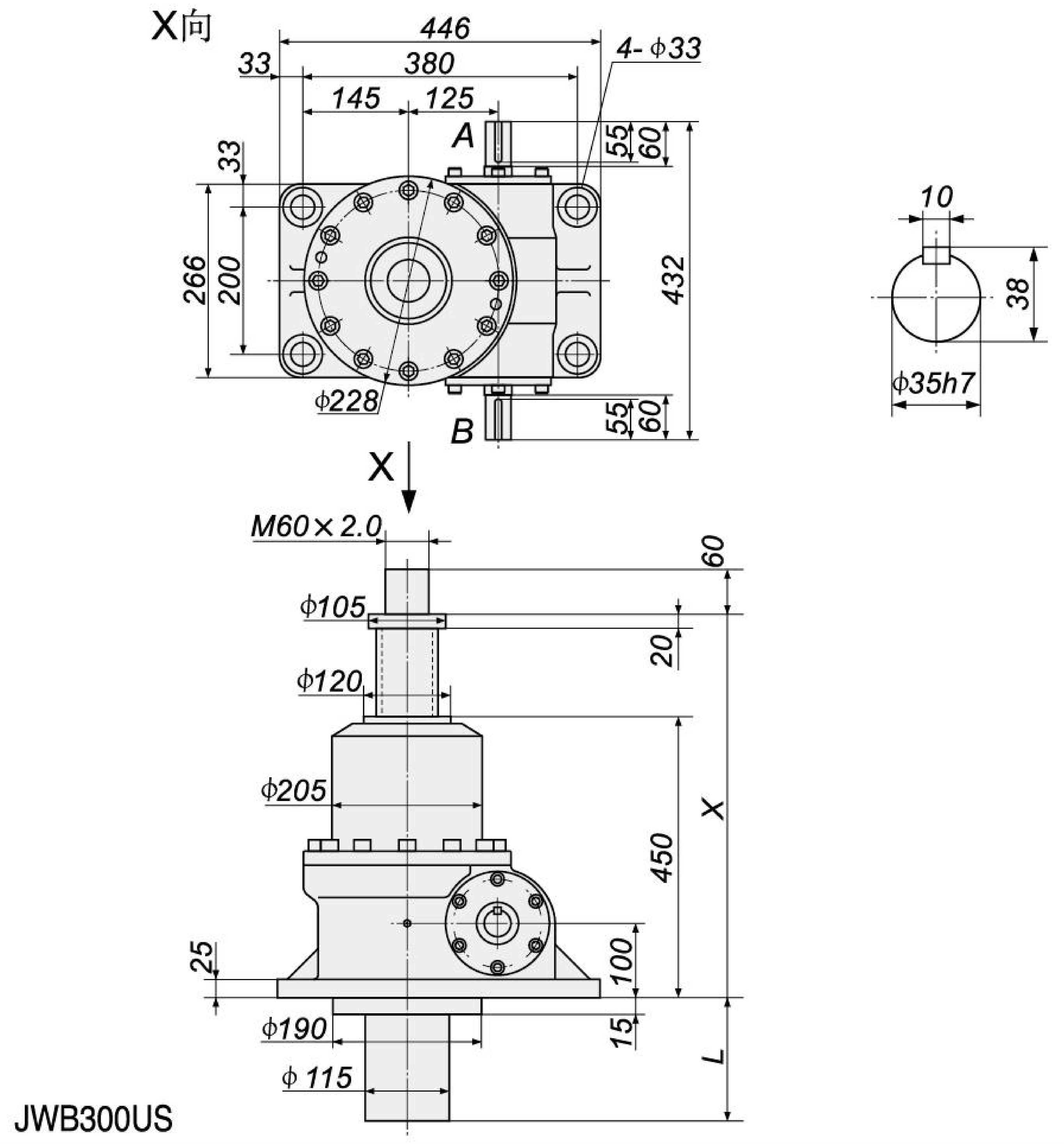
| 行程(mm) Journey | D R | | | |
|---|---|---|---|---|
| | X | | Y | m (kg) |
| | MIN | MAX | | |
| 100 | 164 | 264 | 274 | 56 |
| 200 | 164 | 364 | 374 | 58 |
| 300 | 164 | 464 | 474 | 60 |
| 400 | 164 | 564 | 574 | 62 |
| 500 | 164 | 664 | 674 | 65 |
| 600 | 164 | 764 | 774 | 67 |
| 800 | 164 | 964 |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

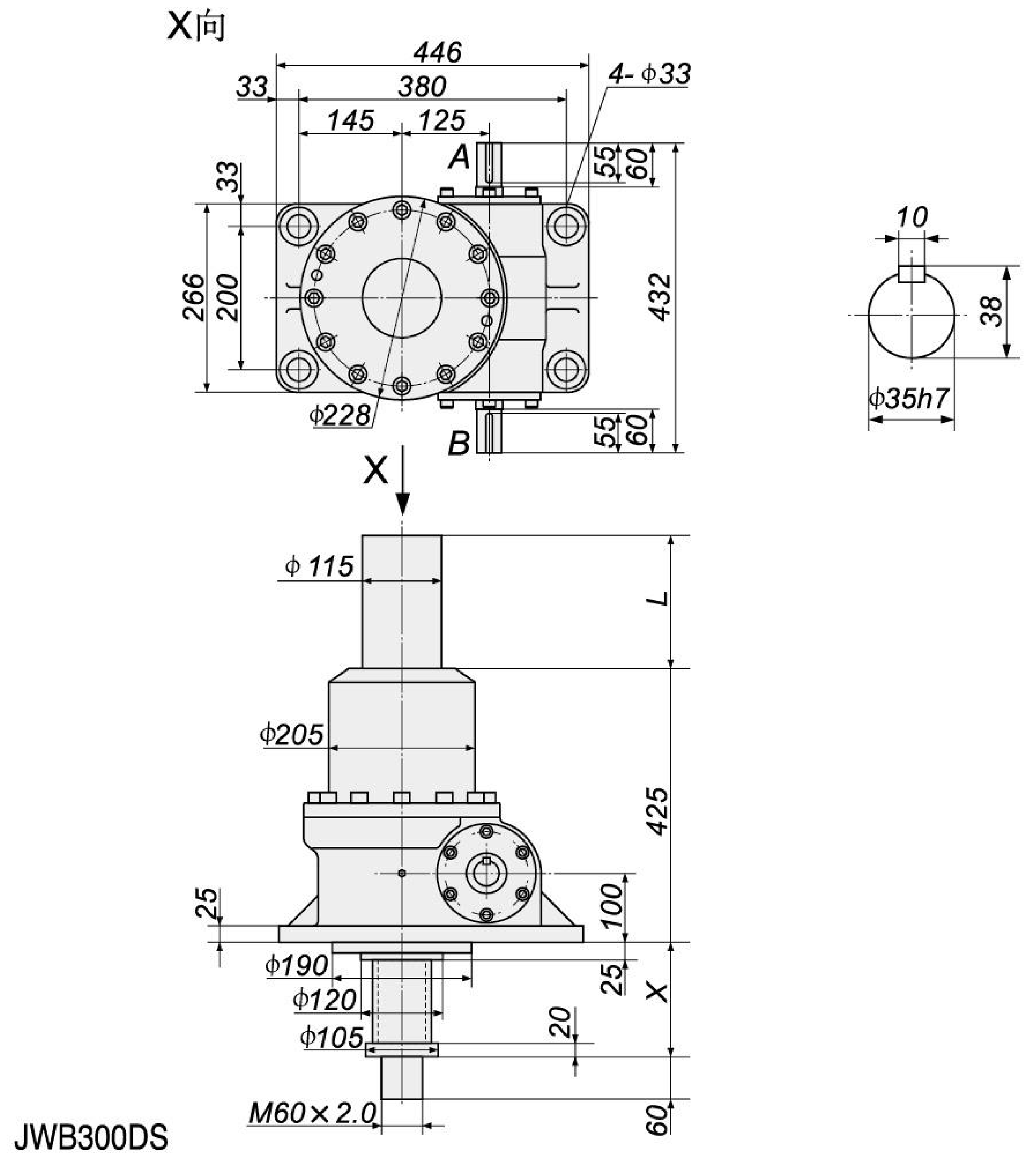
注：X(1)为加防尘罩时尺寸。

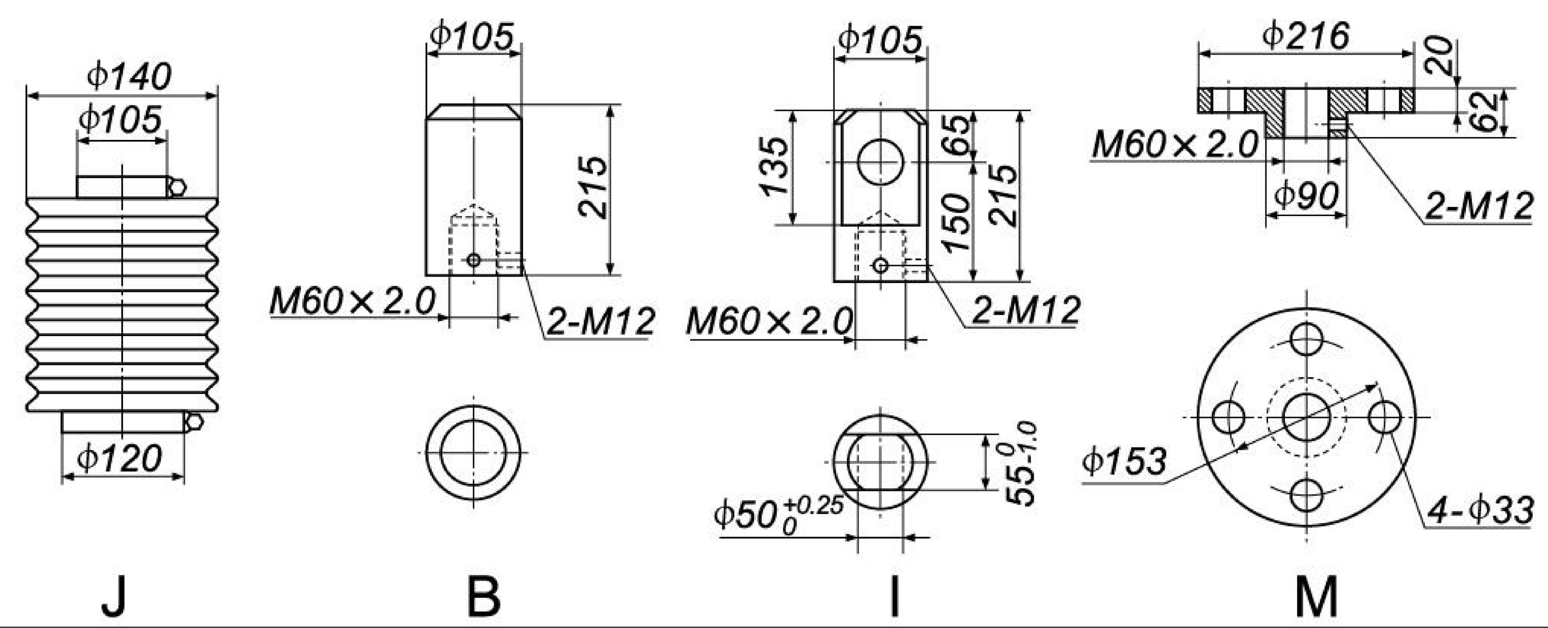
Note: "X(1)" is the dimension of jack with dust hood.

## JWB300

| 行程 (mm) Journey | US | | | | | DS | | | | | m (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | X(1) | | L | X | | X(1) | | L | |
| | MIN | MAX | MIN | MAX | | MIN | MAX | MIN | MAX | | |
| 100 | 480 | 580 | 490 | 590 | 160 | 55 | 155 | 65 | 165 | 160 | 153 |
| 200 | 480 | 680 | 490 | 690 | 260 | 55 | 255 | 65 | 265 | 260 | 159 |
| 300 | 480 | 780 | 505 | 805 | 375 | 55 | 355 | 80 | 380 | 375 | 166 |
| 400 | 480 | 880 | 505 | 905 | 475 | 55 | 455 | 80 | 480 | 475 | 172 |
| 500 | 480 | 980 | 520 | 1020 | 590 | 55 | 555 | 95 | 595 | 590 | 178 |
| 600 | 480 | 1080 | 520 | 1120 | 690 | 55 | 655 | 95 | 695 | 690 | 184 |
| 800 | 480 | 1280 | 535 | 1335 | 905 | 55 | 855 | 110 | 910 | 905 | 197 |
| 1000 | 480 | 1480 | 555 | 1555 | 1125 | 55 | 1050 | 130 | 1130 | 1125 | 210 |
| 1200 | 480 | 1680 | 565 | 1765 | 1335 | 55 | 1255 | 140 | 1340 | 1335 | 223 |
| 1500 | 480 | 1980 | 590 | 2090 | 1660 | 55 | 1555 | 165 | 1665 | 1660 | 242 |

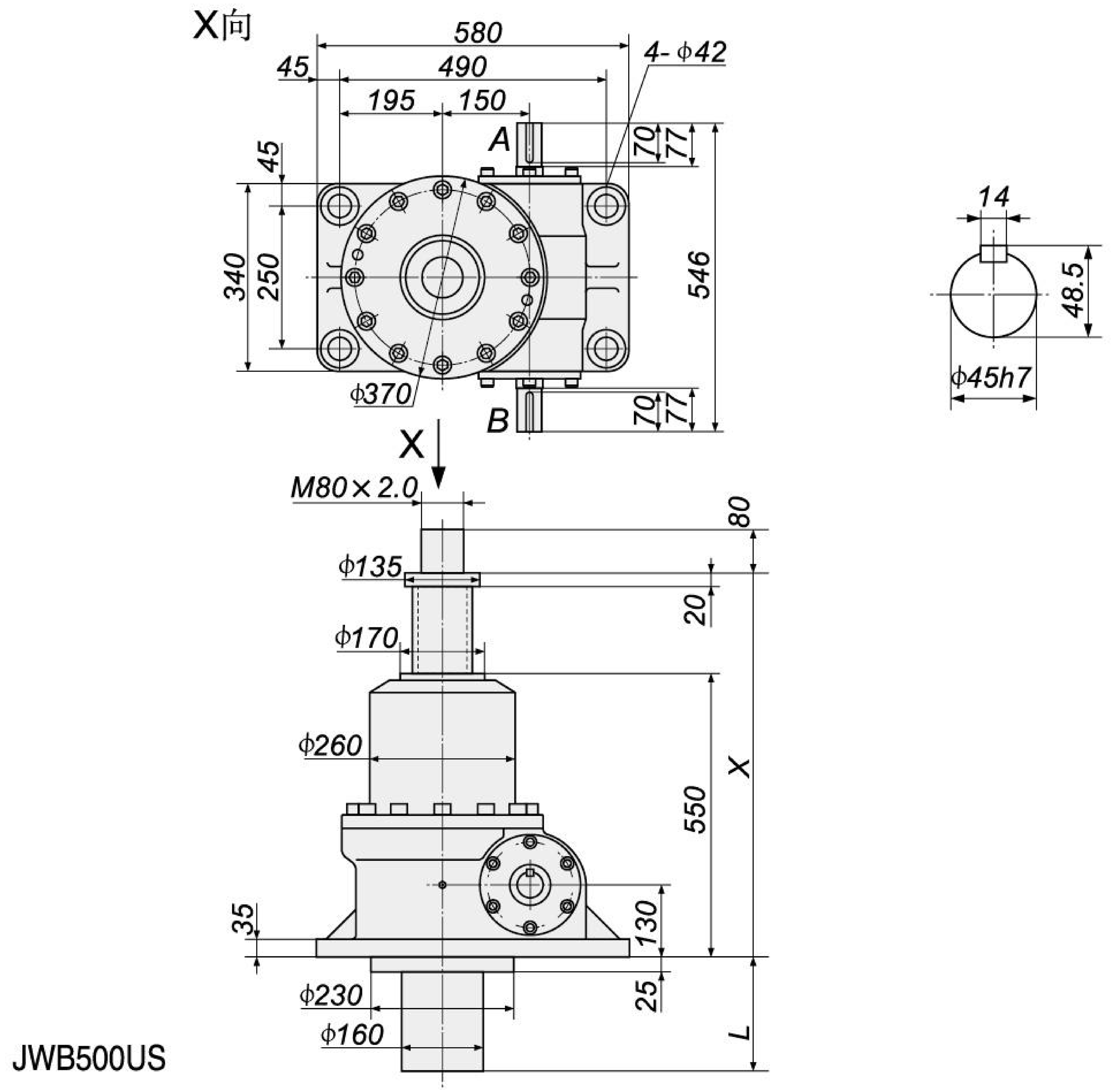


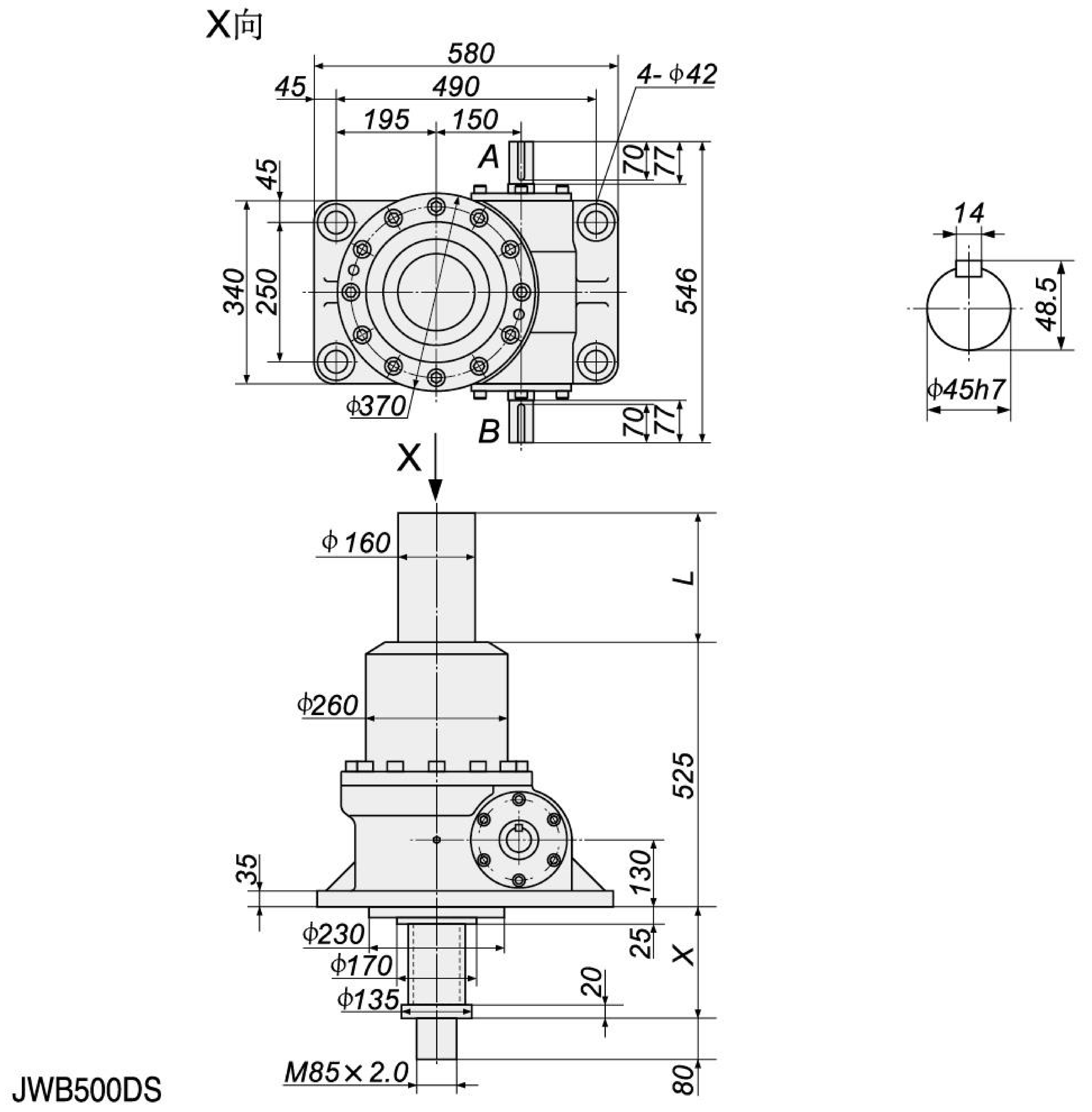



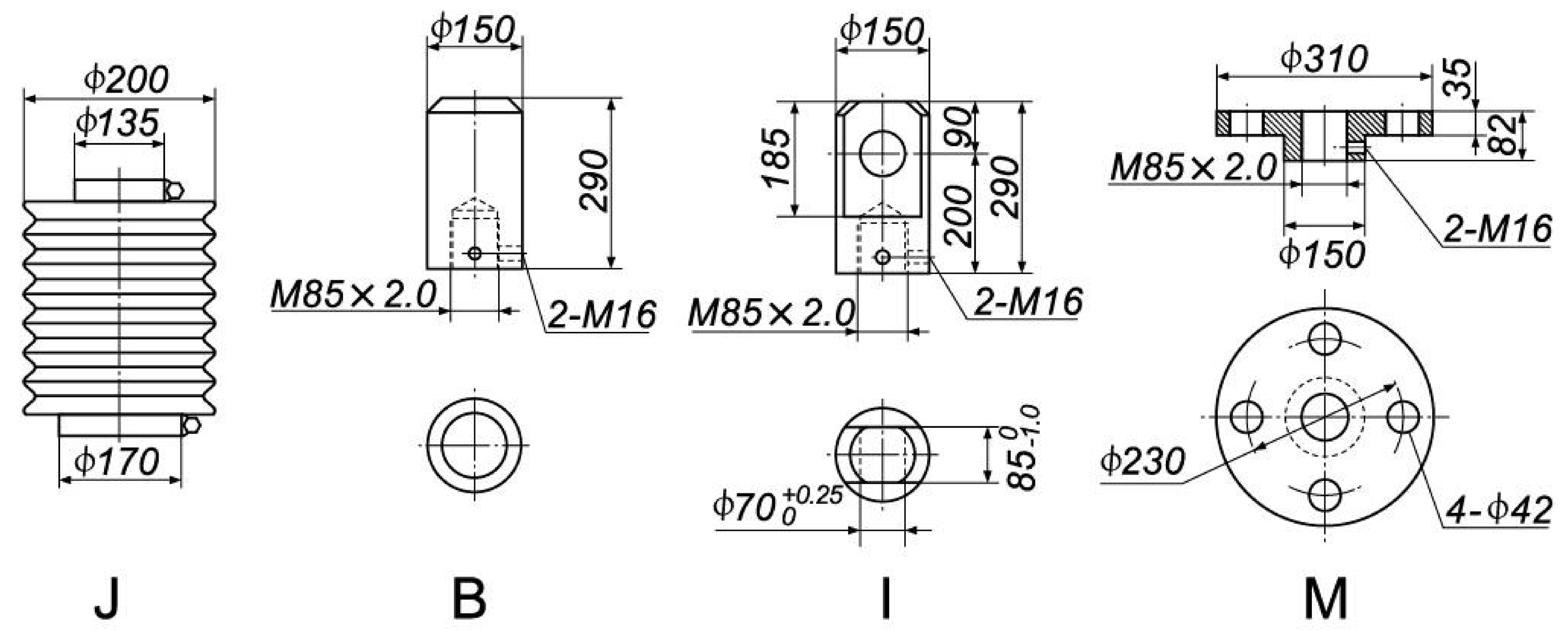




## JWB500

| 行程 (mm) Journey | US | | | | | DS | | | | | m (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | | X(1) | | L | X | | X(1) | | L | |
| | MIN | MAX | MIN | MAX | | MIN | MAX | MIN | MAX | | |
| 100 | 580 | 680 | 585 | 685 | 165 | 55 | 155 | 60 | 160 | 165 | 310 |
| 200 | 580 | 780 | 585 | 785 | 265 | 55 | 255 | 60 | 260 | 265 | 320 |
| 300 | 580 | 880 | 605 | 905 | 385 | 55 | 355 | 80 | 380 | 385 | 330 |
| 400 | 580 | 980 | 605 | 1005 | 485 | 55 | 455 | 80 | 480 | 485 | 340 |
| 500 | 580 | 1080 | 615 | 1115 | 595 | 55 | 555 | 90 | 590 | 595 | 350 |
| 600 | 580 | 1180 | 615 | 1215 | 695 | 55 | 655 | 90 | 690 | 695 | 359 |
| 800 | 580 | 1380 | 630 | 1430 | 910 | 55 | 855 | 105 | 905 | 910 | 378 |
| 1000 | 580 | 1580 | 645 | 1645 | 1125 | 55 | 1055 | 120 | 1120 | 1125 | 398 |
| 1200 | 580 | 1780 | 655 | 1855 | 1335 | 55 | 1255 | 130 | 1330 | 1335 | 417 |
| 1500 | 580 | 2080 | 675 | 2175 | 1665 | 55 | 1555 | 150 | 1650 | 1665 | 446 |




注：X(1)为加防尘罩时尺寸。

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

## 附件的确认：

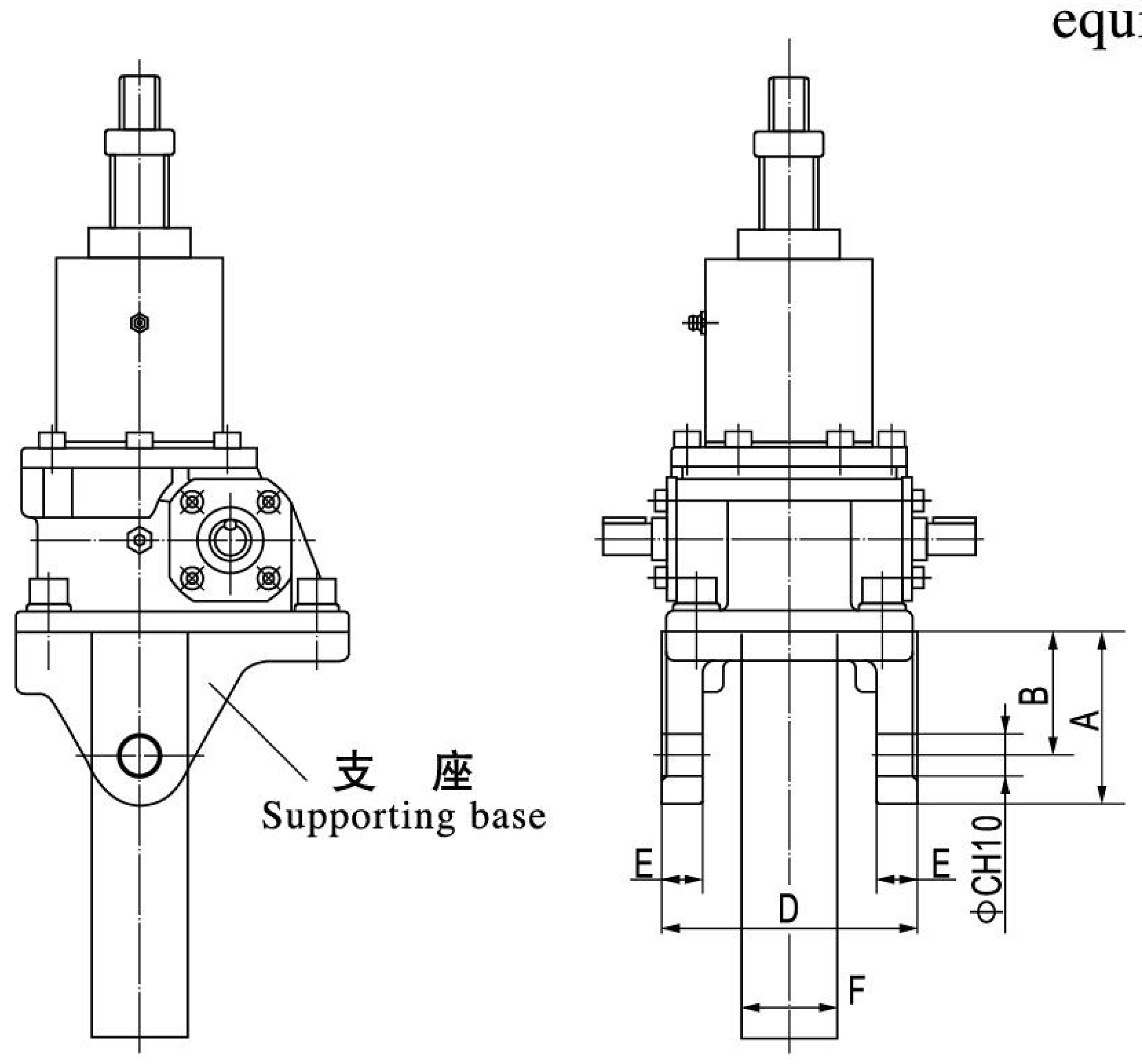
### C型安装：

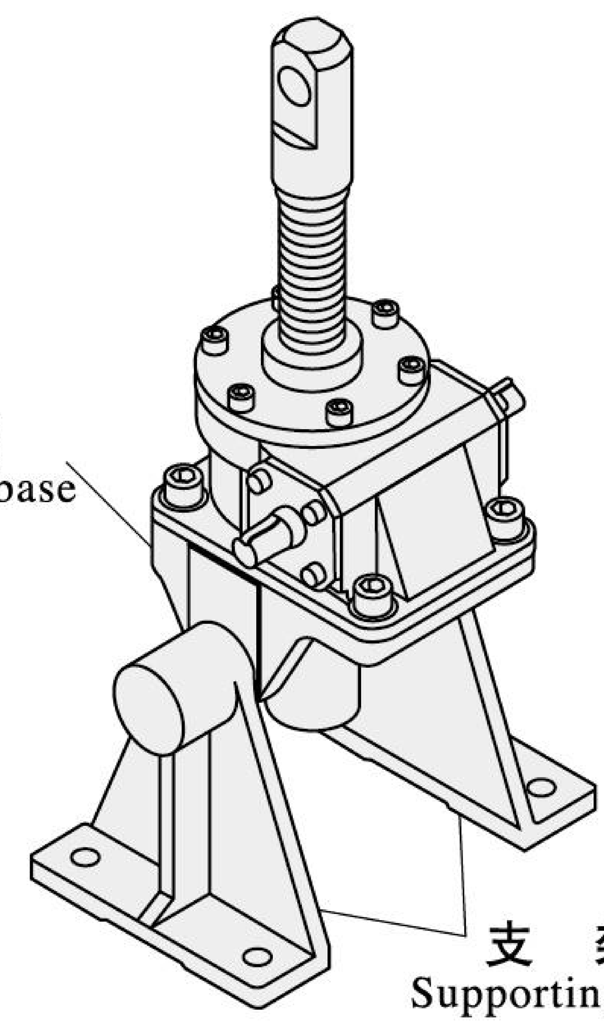
支座安装广泛应用于开关装置、倾斜装置。如图：

## Accessory confirmation:

### Support (Mode C mounting):

Support-mounted mode widely apply to tilting equipment.



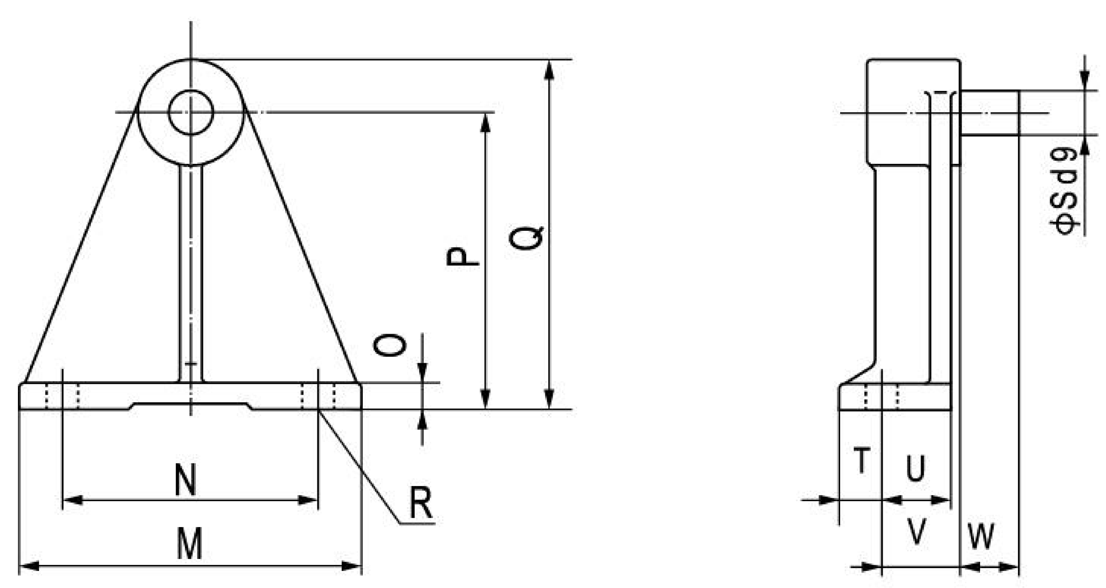




| 型 号 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 010 | 75 | 60 | 15 | 86 | 15 | 35 |
| 025 | 100 | 75 | 20 | 115 | 20 | 45 |
| 050 | 105 | 75 | 25 | 158 | 25 | 58 |
| 100 | 145 | 100 | 40 | 201 | 30 | 76.3 |
| 150 | 155 | 105 | 50 | 224 | 44 | 76.3 |
| 200 | 173 | 110 | 63 | 244 | 50 |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

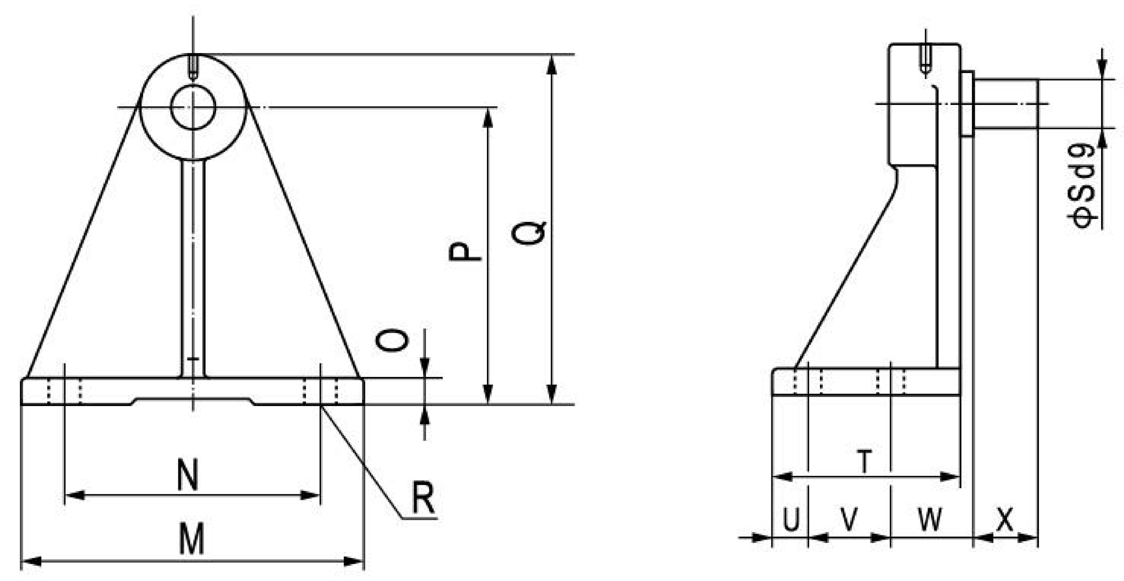
支架

支座与支架配合，实现多方位升降。

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




JW010-JW050




JW100-JW200

| 型 号 | M | N | O | P | Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 010 | 180 | 130 | 15 | 150 | 178 | 2－Φ18 | 15 | 25 | 40 | 45 | 17 | － |
| 025 | 180 | 130 | 15 | 150 | 178 | 2－Φ18 | 20 | 25 | 40 | 45 | 30 | － |
| 050 | 200 | 150 | 15 | 170 | 200 | 2－Φ18 | 25 | 25 | 40 | 45 | 35 | － |
| 100 | 280 | 220 | 22 | 240 | 290 | 4－Φ22 | 40 | 159 | 30 | 70 | 70 | 55 |
| 150 | 360 | 280 | 27 | 300 | 360 | 4－Φ33 | 50 | 195 | 40 | 85 | 85 | 70 |
| 200 | 400 | 320 | 30 | 380 | 450 | 4－Φ33 | 63 | 210 | 40 | 90 | 90 | 75 |

**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:

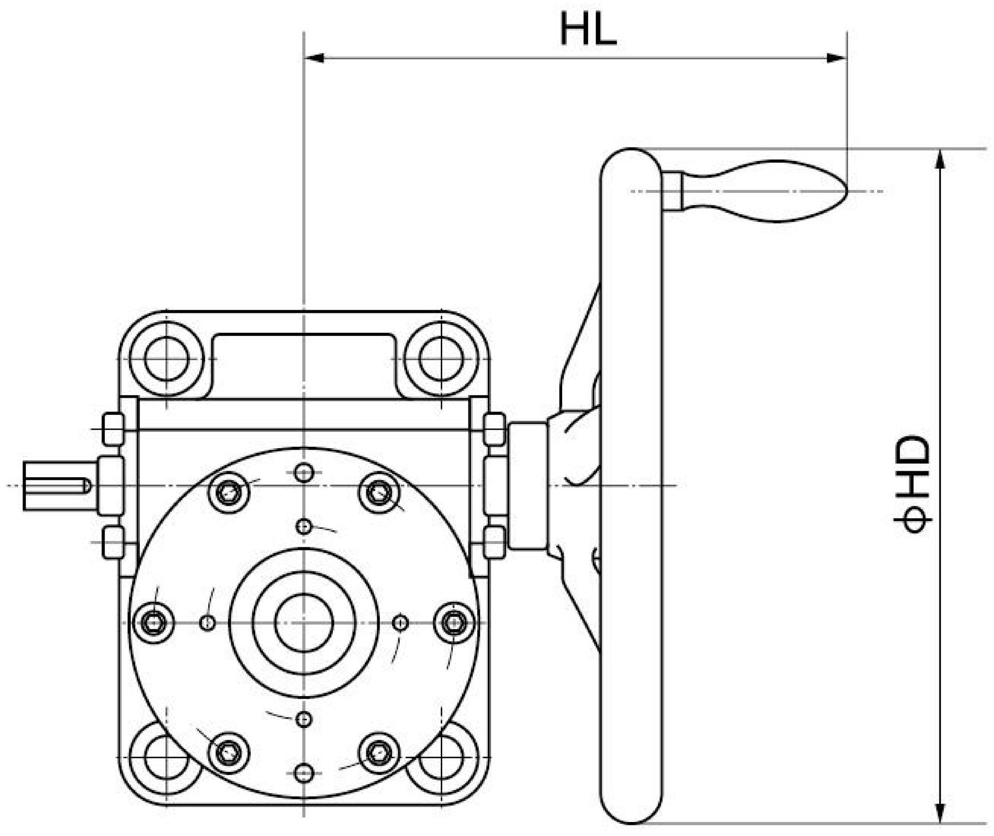
Hand wheel only apply to JWM under light shock or vibration condition but not for JWB.
$M_{handwheel}=M_{required}/r_{handwheel}$

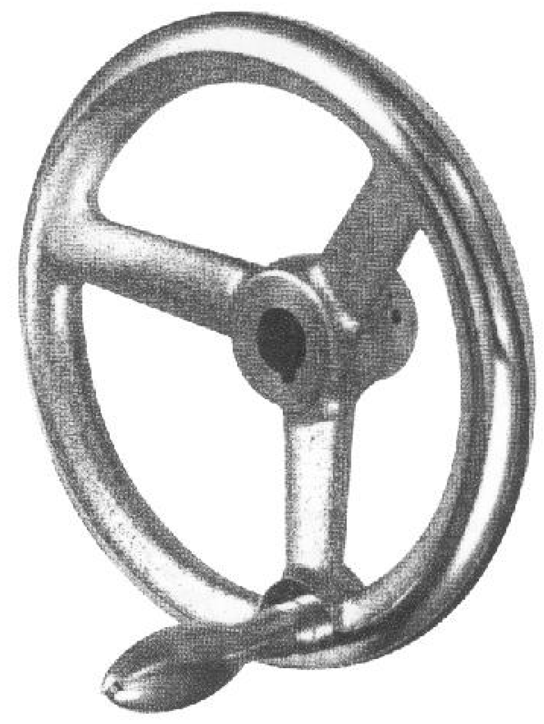
**型号表示:**

JWM025US－H200MI － NV100

升降机型号（见329页）
Refer to 329页

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 |

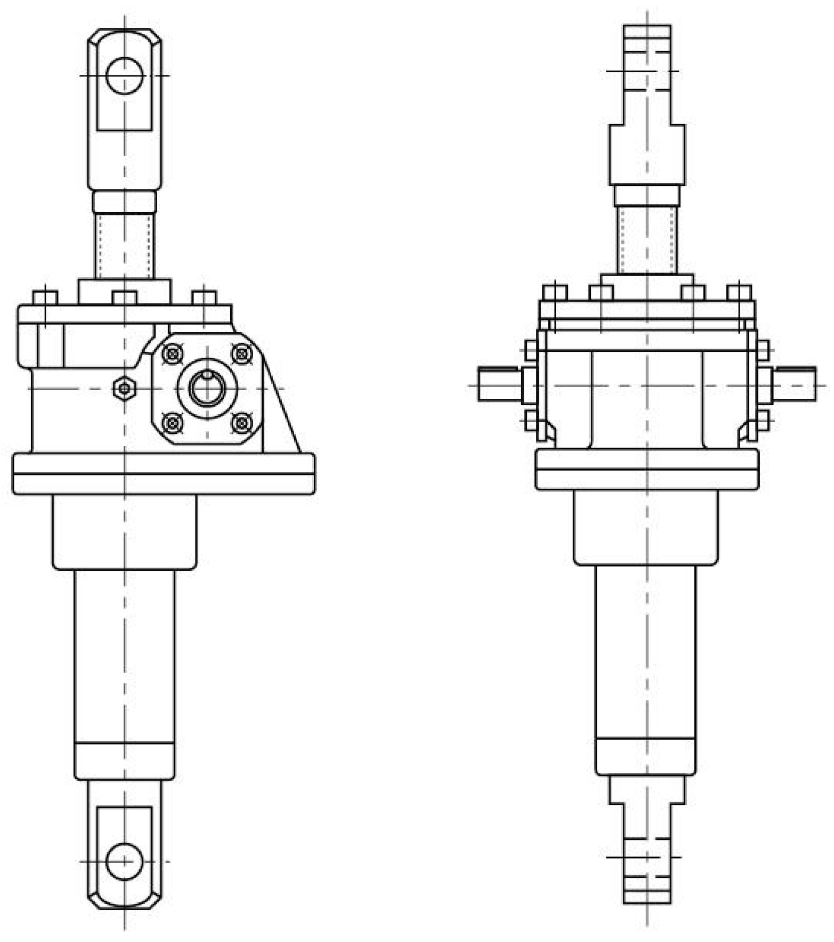
注：手轮为外购件，以定货时实物尺寸为准。

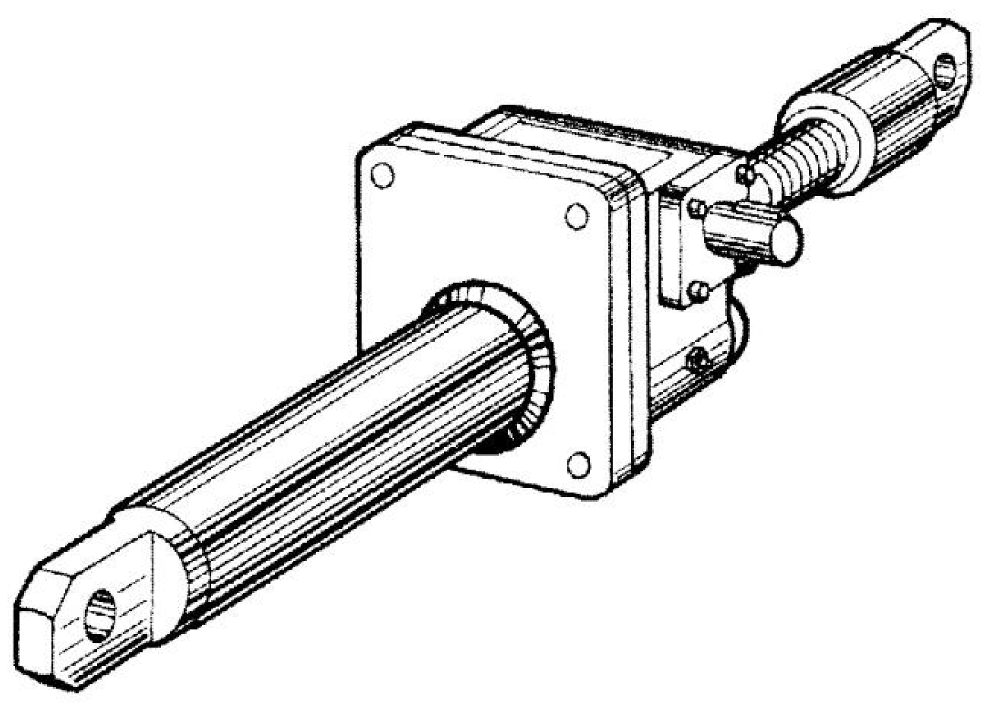
Note: The dimension of hand wheel is subject to product purchased from other factories.

**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.





JW

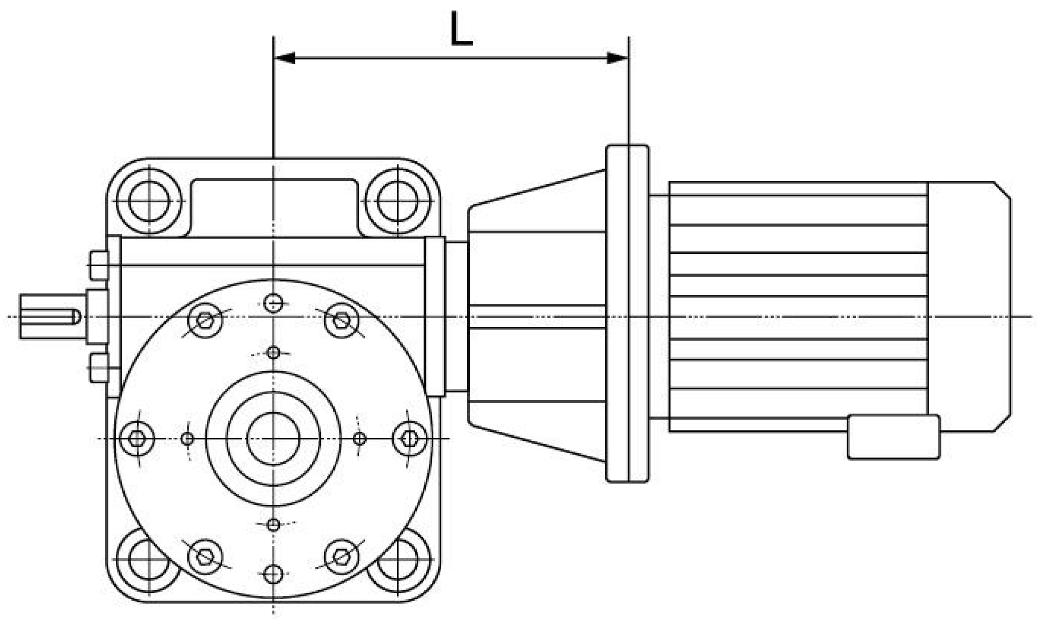
## 组合型式： Combination of JW series:

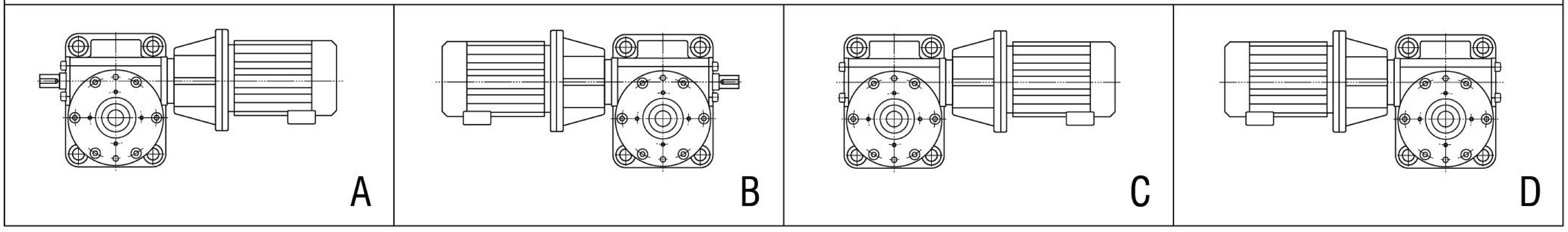
电机直联： Direct-connected-motor:

**型号表示** Illustration of types:

JWM050US－H200MI － Y － 0.55 － A

| 升降机型号（见329页） Refer to 329页 | 电机代号 Motor mode | 电机功率 Motor power | 配置形式 Combination |
|---|---|---|---|




| 型号 | JWM010 | | | | JWM025 | | | | | | JWM050 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 电机功率 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 | | | | | |

| 型号 | JWM100 | | | | | | JWM150 | | | | | | JWM200 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 电机功率 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 | | | | | |

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。

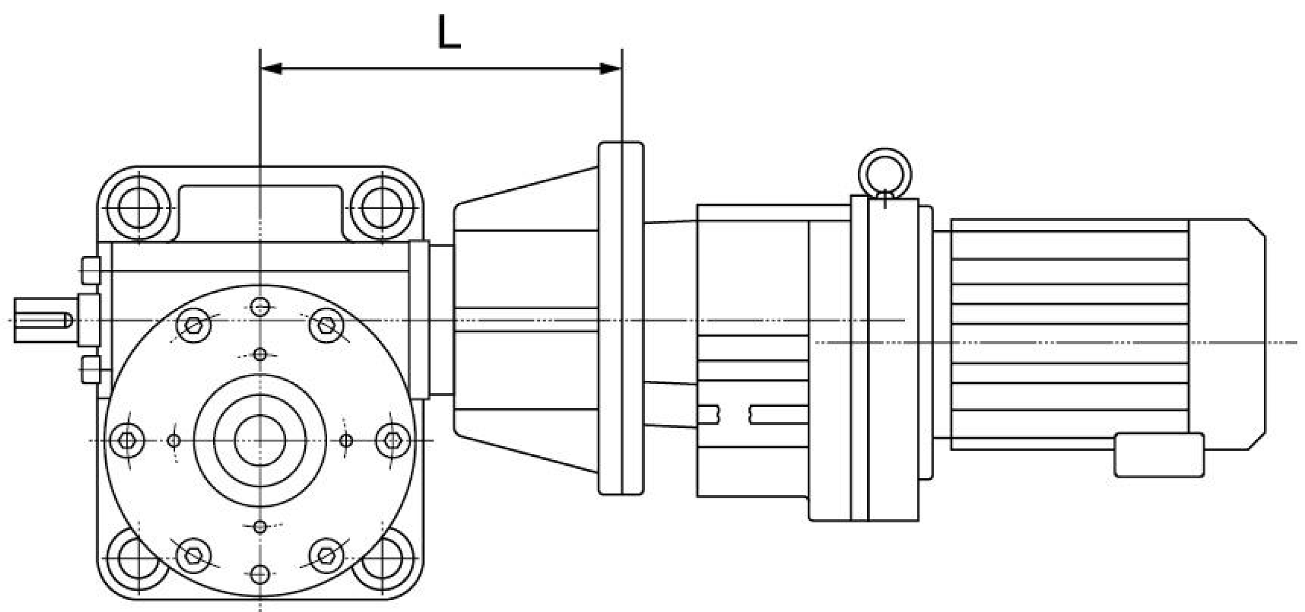
Note: 1. Motor power must accord with JM basic parameter table.
2. 4-pole motor power are available in the table.
3. 6-pole motors or “*” frequency conversion and braking motors should be foot-mounted for their heavy weight.

与减速电机组合式 Combination with gear motor:

**型号表示** Illustration of types:

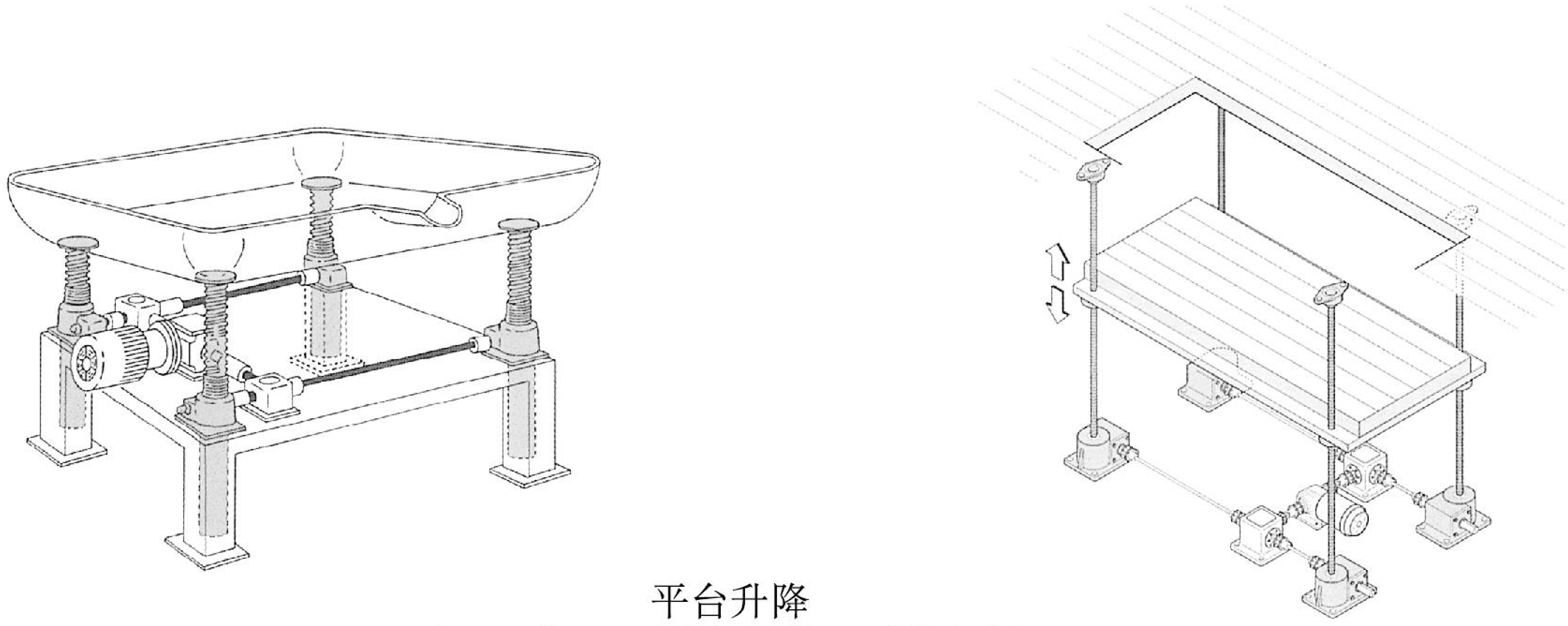
JWM050US－H200MI－ R37－5－Y－0.55 － A

| 见329页 Refer to 329页 | 见减速机表示方法 Illustration of the gear motor | 配置形式 Combination |
|---|---|---|

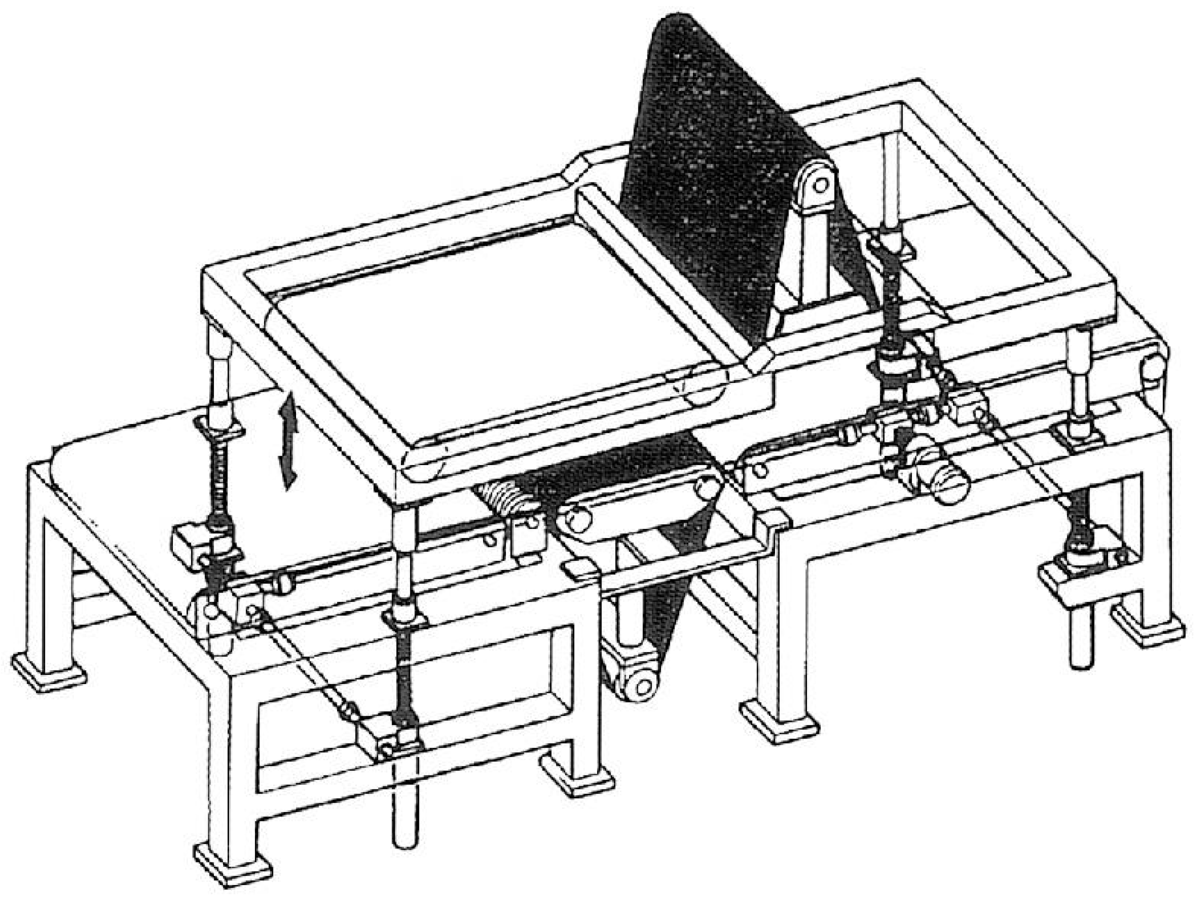



注：当直联的减速电机重量过重时，请咨询我司。 Note: If gear motor is over weight, consult us please.

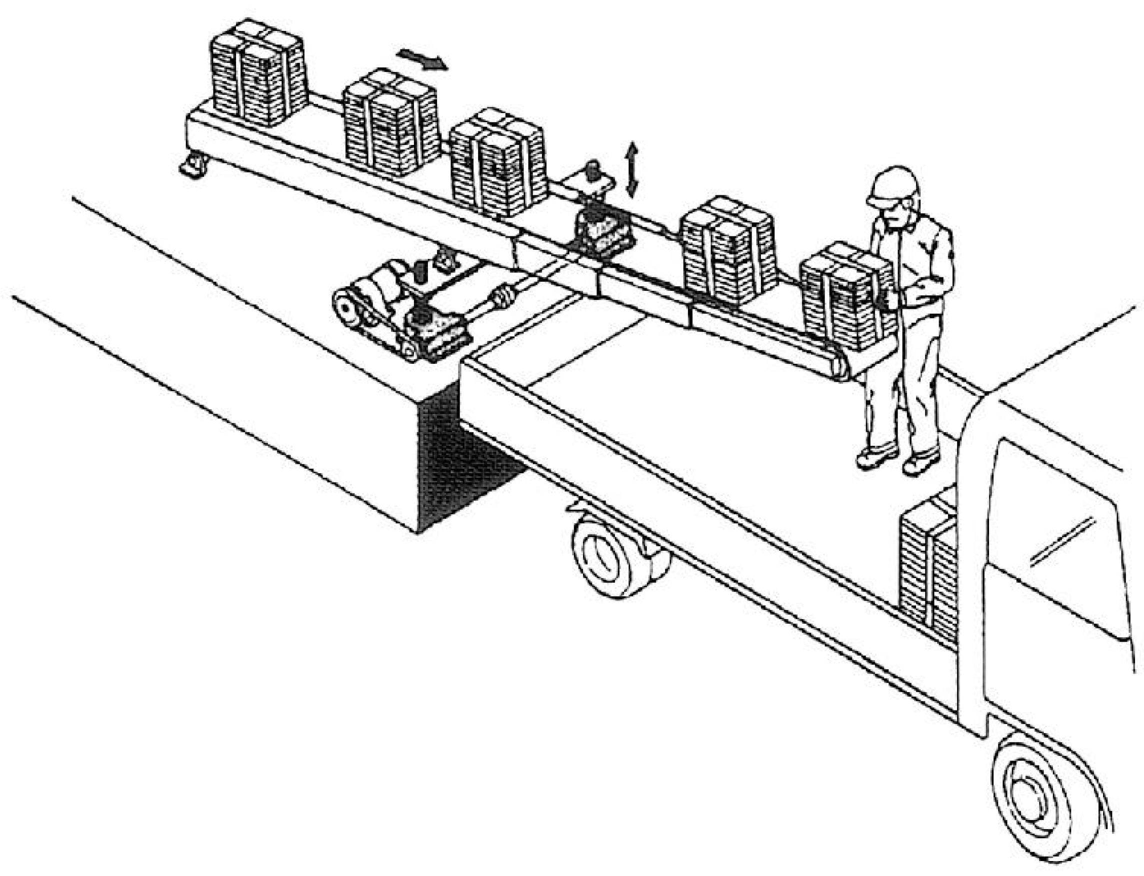
应用举例 Application example:



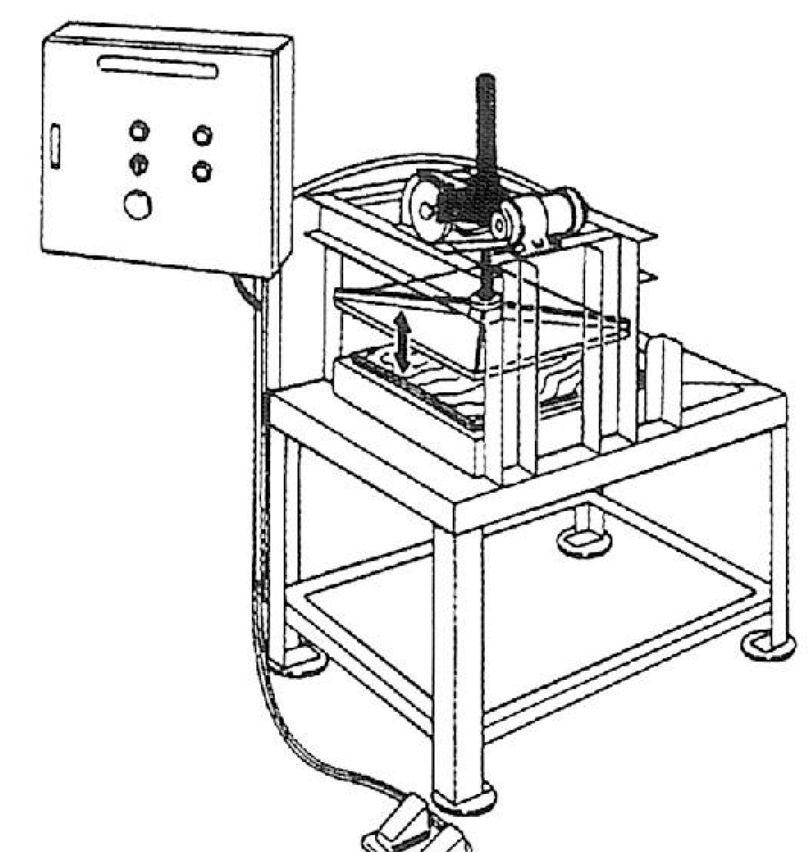
平台升降
Ascending and descending of flat slab



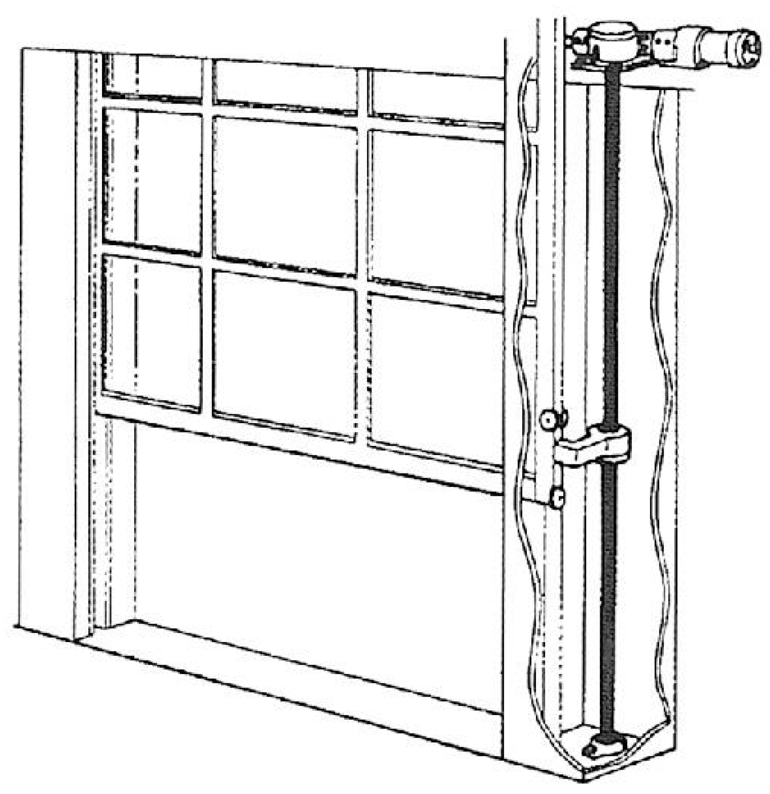
调整表面加工机的工作高度
Adjust operation height of surface machining tool



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)

因专注而专业 因专业而卓越

温州阿尔法机械制造有限公司
WENZHOU AERFA MACHINERY MANUFACTURING CO., LTD.
地　　址：浙江省平阳县鳌江大道390-394号
TEL/FAX：0577-63660251
客服热线：15958798933
http://aefjsj.com
E-mail: 15958798933@163.com