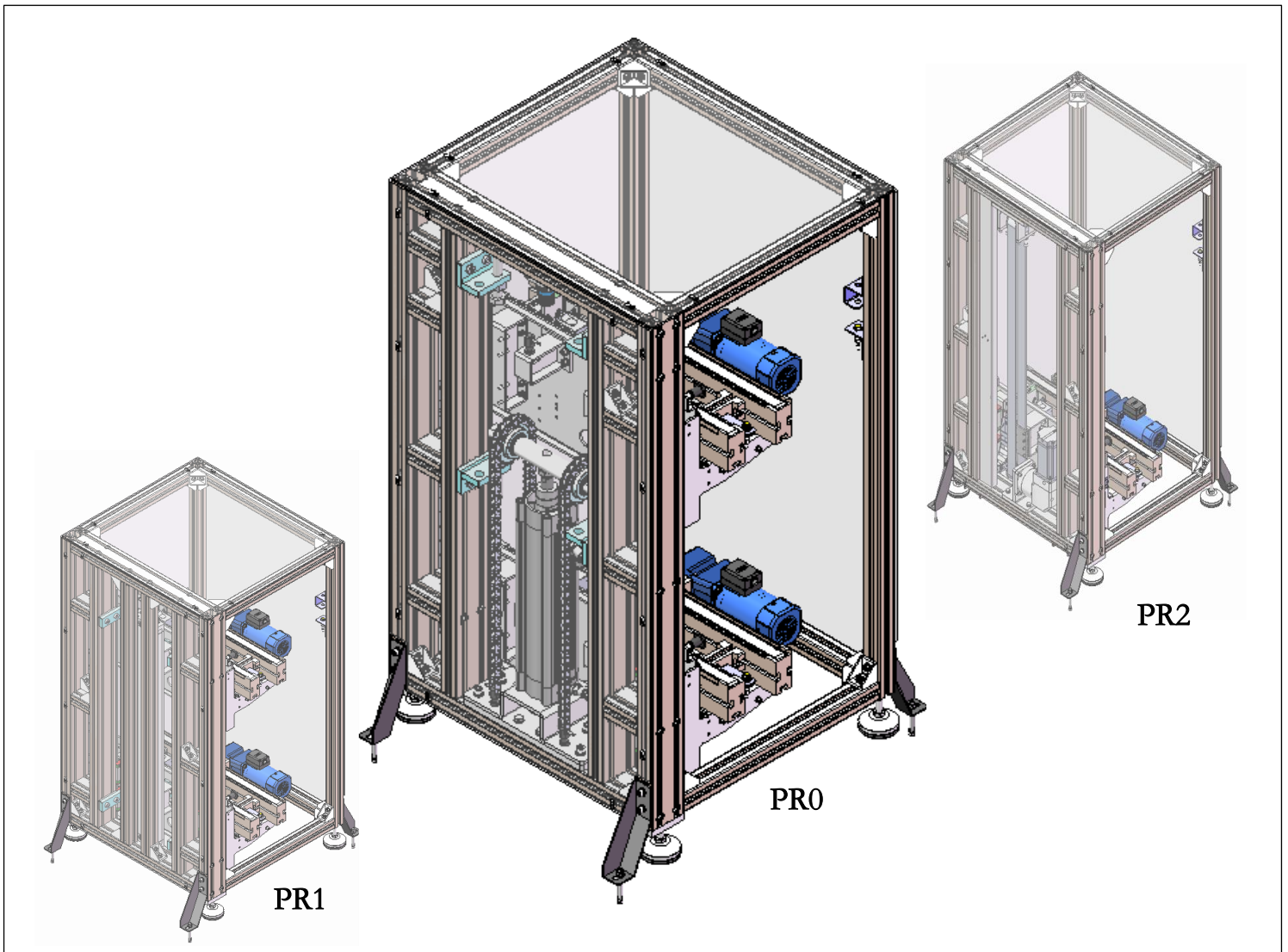


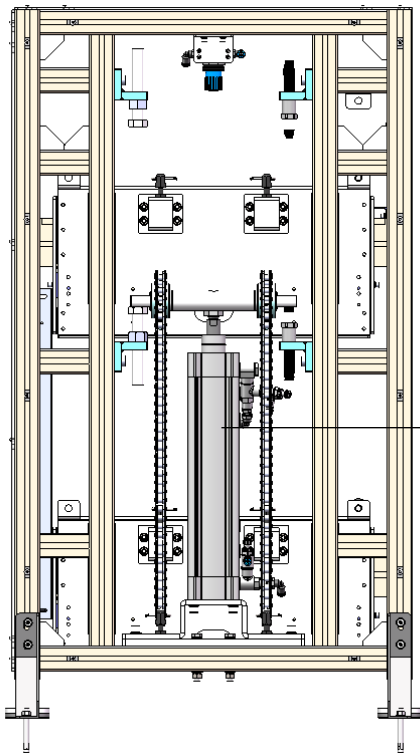
**PLU2 Lifting Function Unit**  
**Instruction & Maintenance Manual**  
**PLU2 提升机安装使用维护手册**



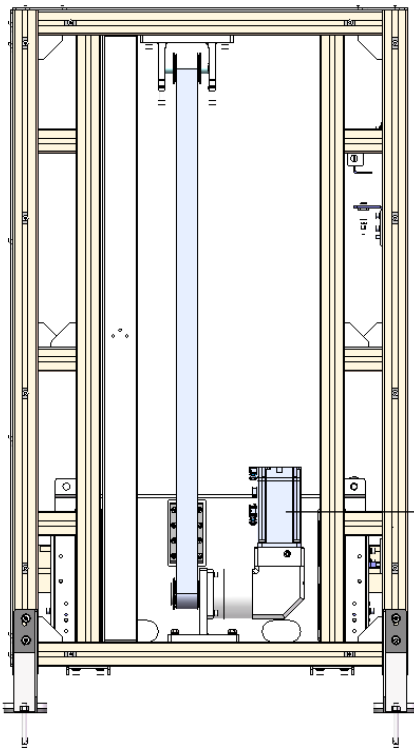
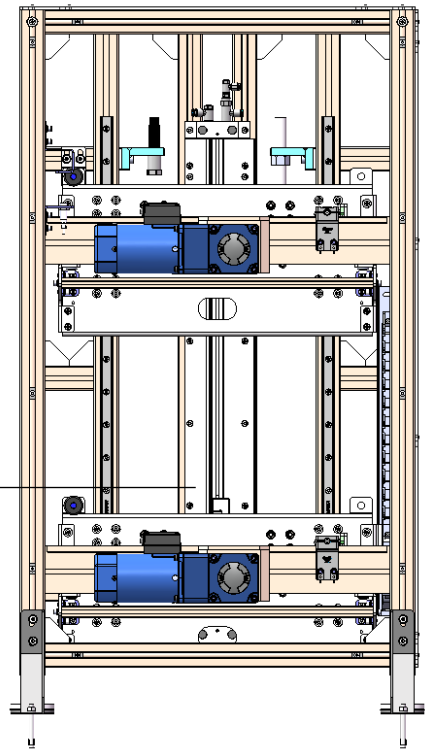
Suzhou LinkedGo Transfer System Co.,Ltd.

苏州领科工业技术有限公司

## Structure Diagram 结构示意图



倍程缸驱动 (PR0)  
无杆缸驱动 (PR1)



伺服驱动 (PR2)

Lifting Function Unit can be divided into three types due to different driving methods. PRx represents whether the structure is driven by a double range cylinder or a rodless cylinder or a servo drive. When x=0, it is driven by a double range cylinder, when x=1, it is driven by a rodless cylinder, and when x=2, it is driven by a servo.

提升机因驱动方式不同可分为3种类型。PRx 表示结构是倍程缸驱动或无杆缸驱动或伺服驱动，x=0 时表示倍程缸驱动，x=1 时表示无杆缸驱动，x=2 时为伺服驱动。

产品特征

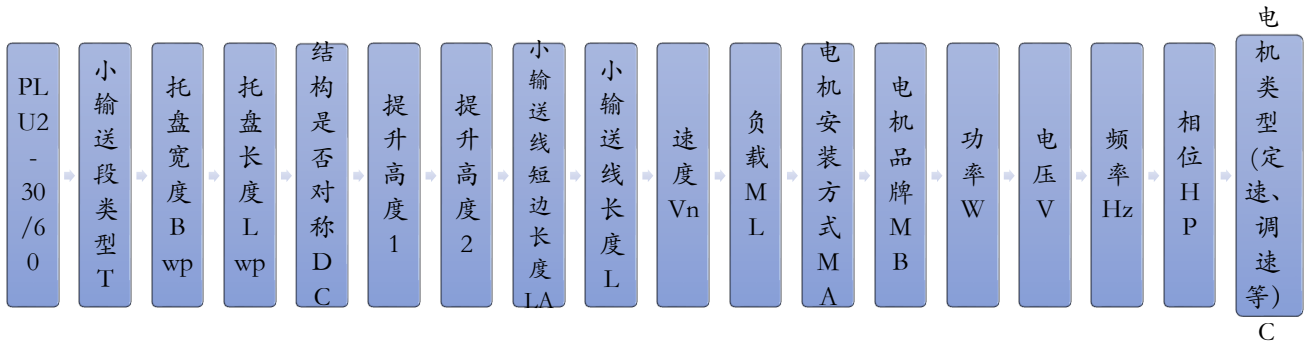
安装步骤

维护保养

- 1、The lifting function unit is mainly used to achieve circulating reflux control on the upper and lower conveyor lines.
- 1、提升机主要用于实现上下层输送线进行循环回流控制。
- 2、The conveying medium is a synchronous belt.
- 2、输送介质为同步带。
- 3、The maximum load of the workpiece pallet is 30kg or 60kg.
- 3、工件托盘最大负载 30kg 或 60kg。

产品特点

Model Description 型号说明



安装步骤

例:PLU2-30-T=TBC2/M-Bwp160-Lwp160-DC0-HA300-HB800-LA200-L800-Vn18-ML30-MAL011A-NORD-120W-380V-50Hz-3HP-C0

Model PLU2-30-T=TBC2/M-Bawp160-Lwp160-DC0-HA300-HB800-LA200-L800-Vn18-ML30-MAL011A-NORD-120W, indicating that the small conveyor line inside the elevator is TBC2/M, with a tray width of 160mm and a tray length of 160mm. The structure is asymmetric, with a lifting height of 300mm and 800mm, a short side of 200mm and a line length of 800mm, a running speed of 18, a load of 30kg, and a motor installation position of L011A. The motor brand is NORD, with a power of 120W and a voltage of 380V, A fixed speed motor with a frequency of 50Hz and a phase of 3.

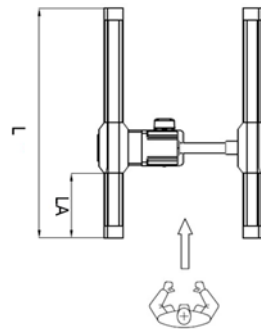
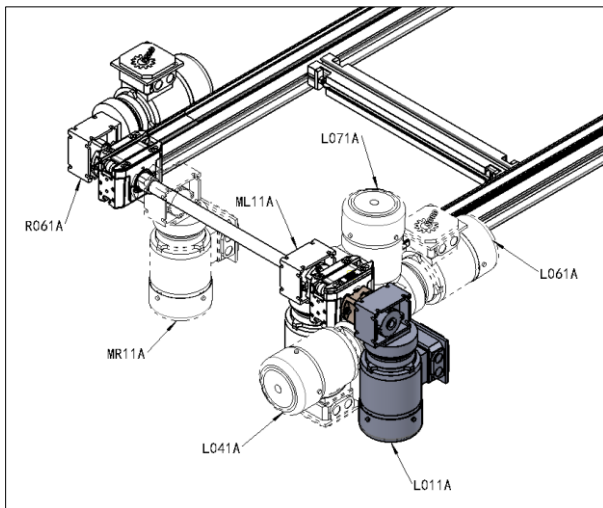
型号 PLU2-30-T=TBC2/M-Bwp160-Lwp160-DC0-HA300-HB800-LA200-L800-Vn18-ML30-MAL011A-NORD-120W, 表示提升机内的小输送线为 TBC2/M, 托盘宽度 160mm, 托盘长度 160mm, 结构不对称, 升降高度 1 为 300mm, 升降高度 2 为 800mm, 小输送线短边 200mm, 线长 800mm, 运行速度 18, 负载 30kg, 电机安装位置 L011A, 电机品牌为 NORD, 功率为 120W, 电压为 380V, 频率为 50Hz, 相位为 3 的定速电机。

维护保养

## 参数说明 Parameter Description

品名 Product Name	托盘长度 (mm) Pallet Length	托盘宽度 (mm) Pallet Width	速度 (m/min) Speed	电机安装方式 Motor installation method
PLU2	160;240;320; 400;480;640	160;240;320; 400;480;640	0~18	电机安装: MA=①_②_③_④_⑤_ Motor installation: MA=①_②_③_④_⑤_ ①电机安装位置: M 中置; R=右; L=左; Motor installation position: M center; R=right; L=Left; ②当①=R/L 时, ②=0; 当①=M 时, ②=R/L; ② When ①=R/L, ②=0; When ①=M, ②=R/L; ③电机安装位置: 1、2、3、4; Motor installation position: 1, 2, 3, 4; ④接线盒位置: 1、2、3、4; Location of junction box: 1, 2, 3, 4; ⑤出线口方向: A、B、C、D; Outlet direction: A, B, C, D;

## 电机安装位置 Motor installation position



Note: The diagram shows the installation method of motor L011A.

注: 图为电机 L011A 的安装方式。

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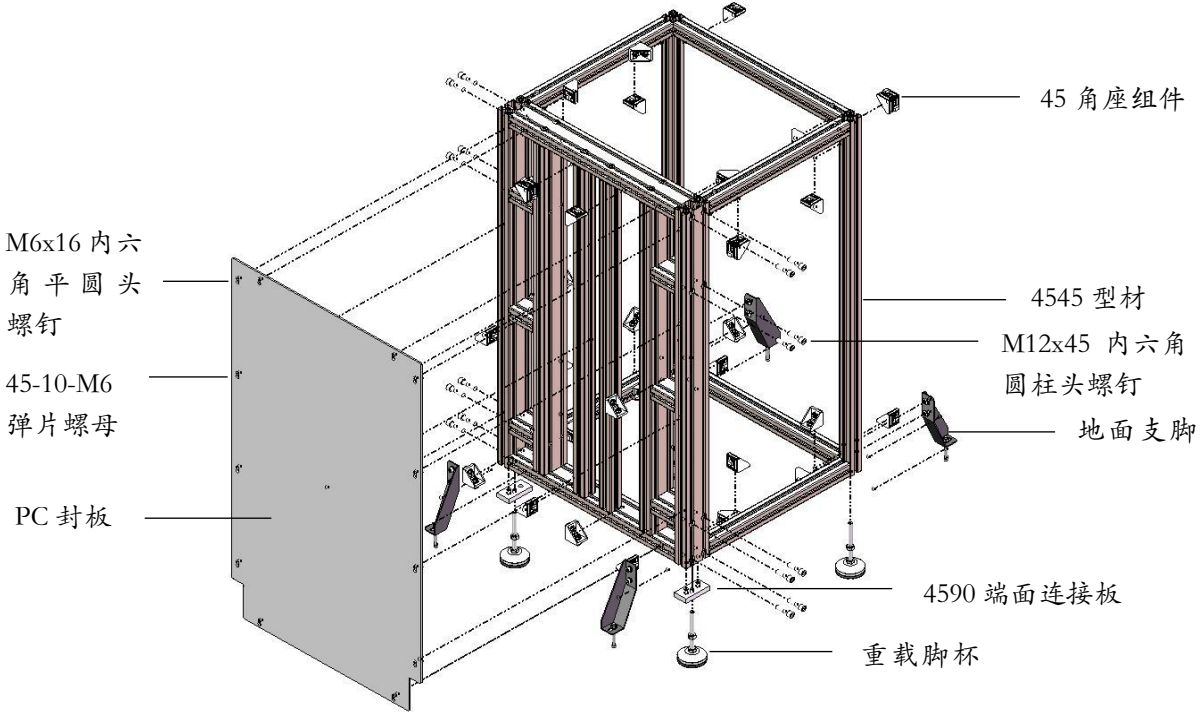
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安装步骤 Installation steps

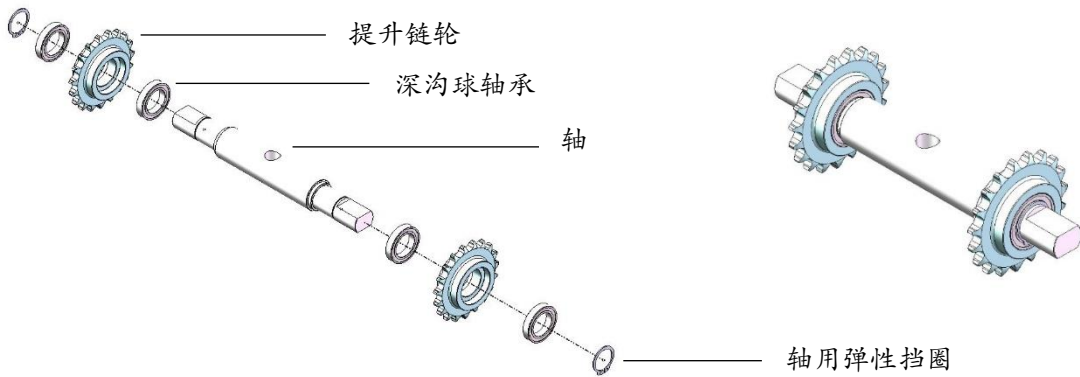
A Installing the PR0 type lifting function unit profile frame as shown in the following figure.

A 按下图所示，安装 PR0 型提升机型材框架。



B Installing sprocket shaft.

B 安装链轮轴。



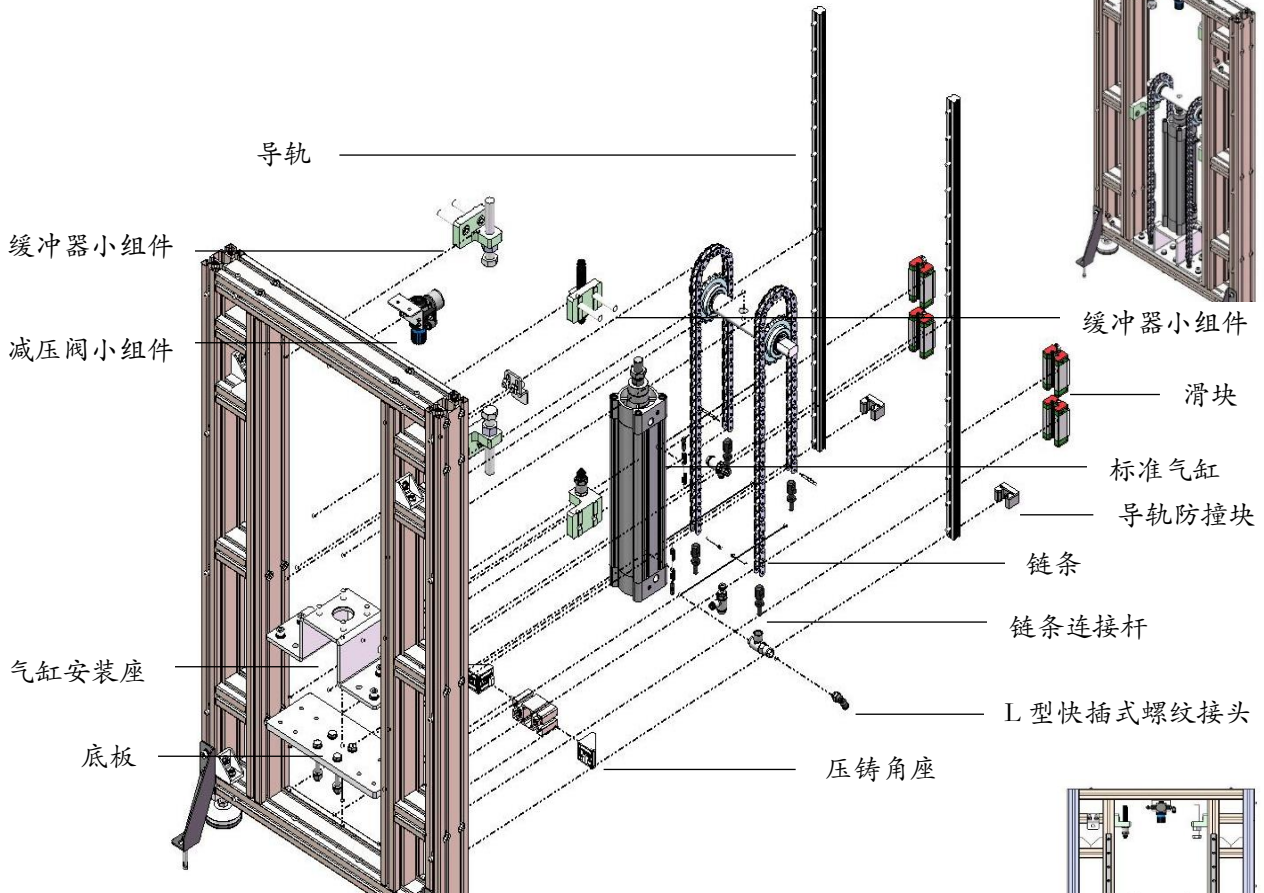
产品特征

安装步骤

维护保养

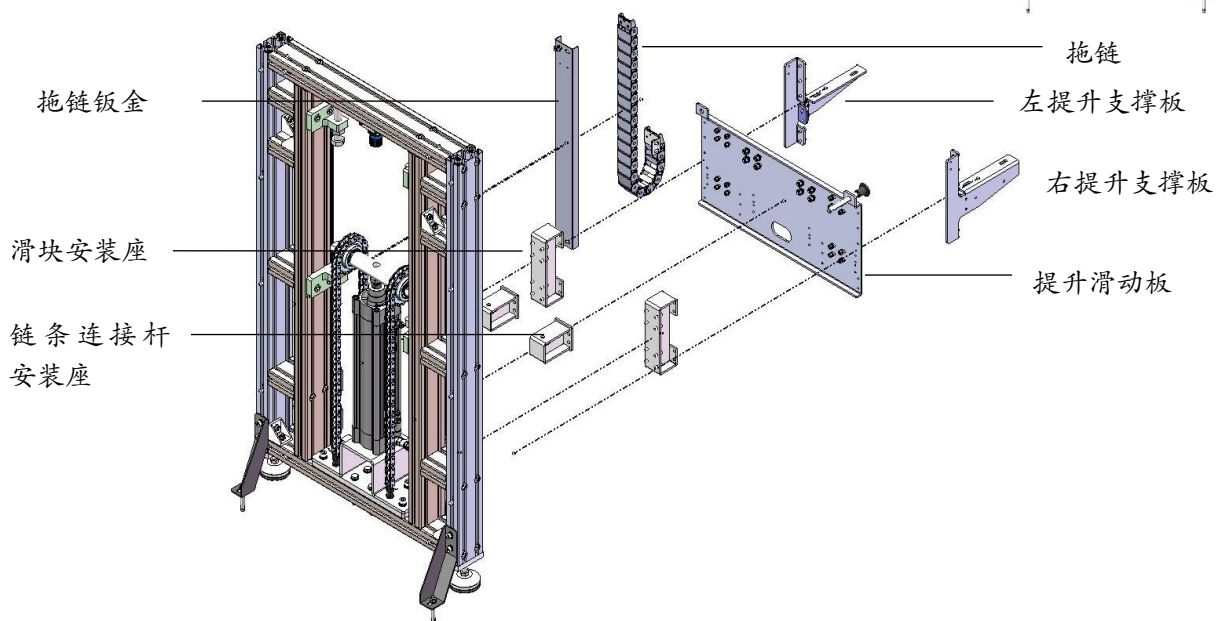
C Installing guide rails and cylinders.

C 安装导轨、气缸。



D Install transplanting mechanism.

D 安装移栽机构。



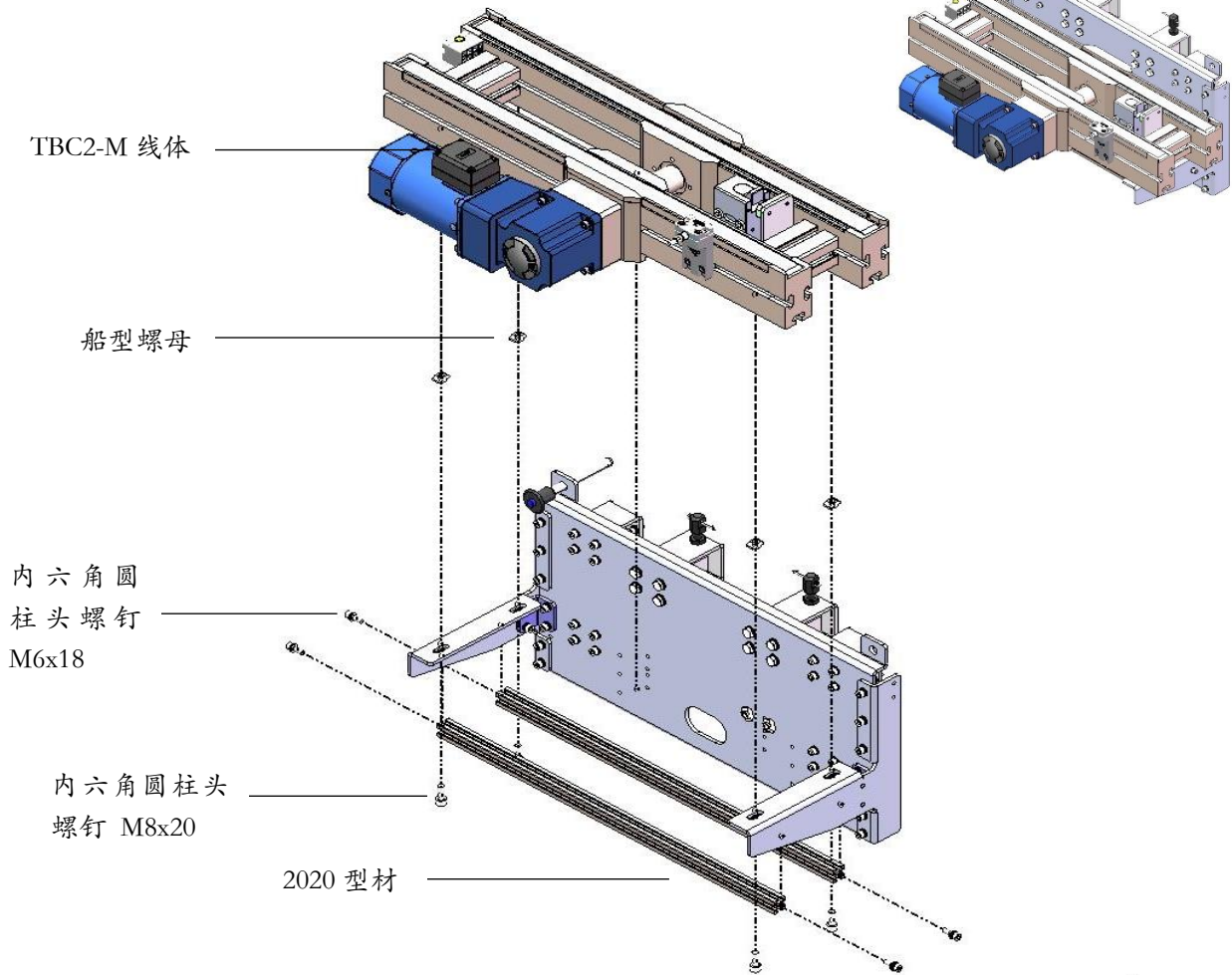
产品特征

安装步骤

维护保养

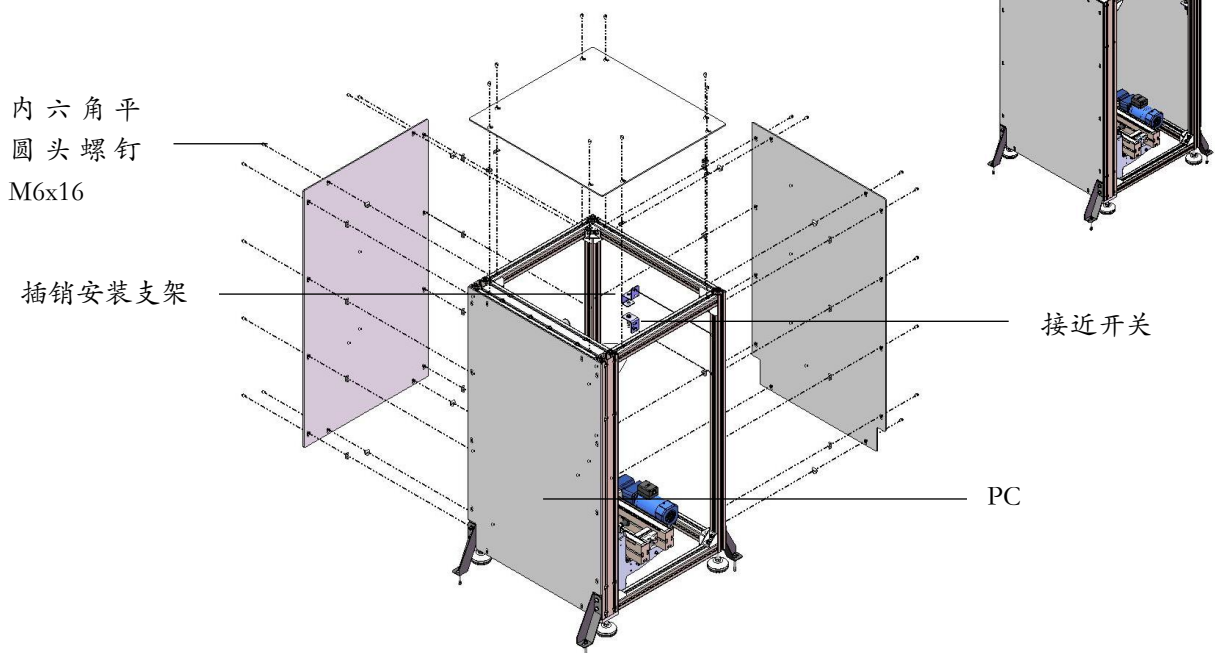
E Installing a small conveyor line.

E 安装小输送线。



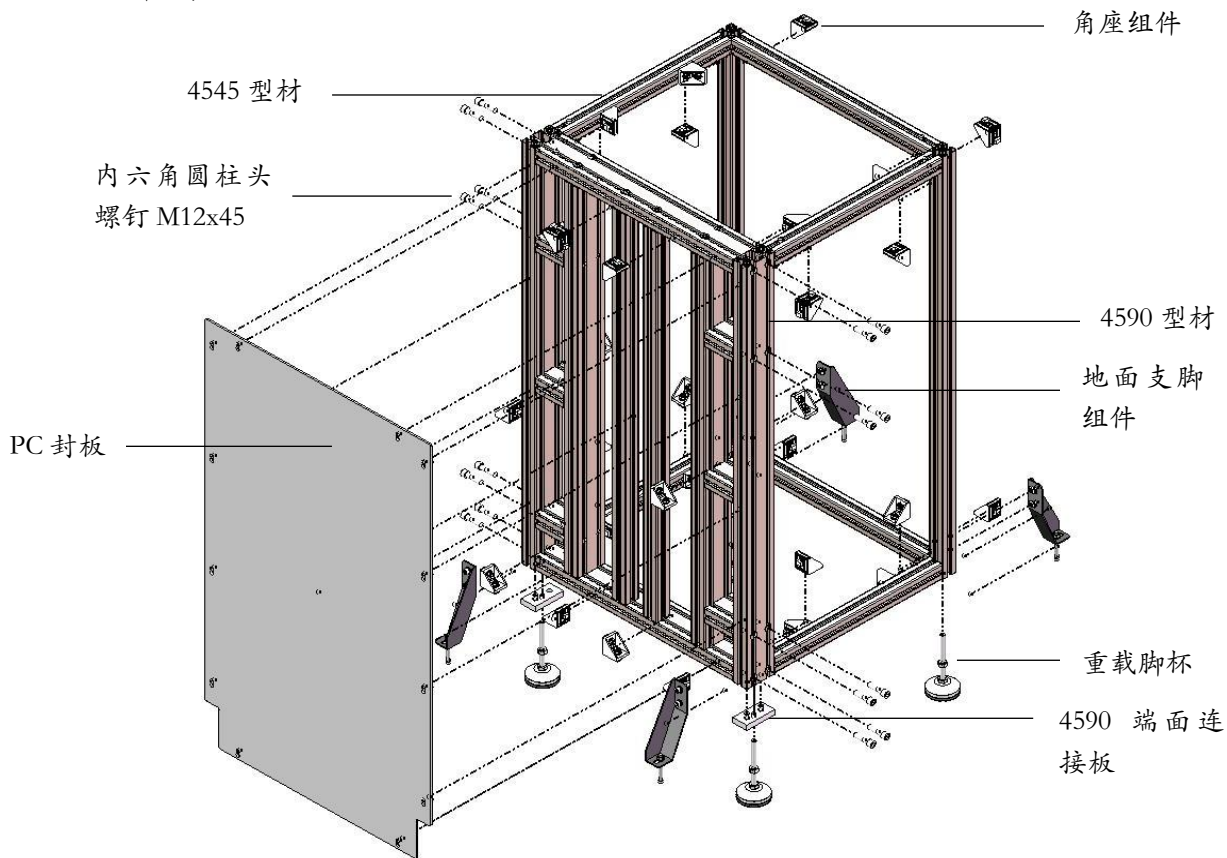
F Installing cover.

F 安装护罩。



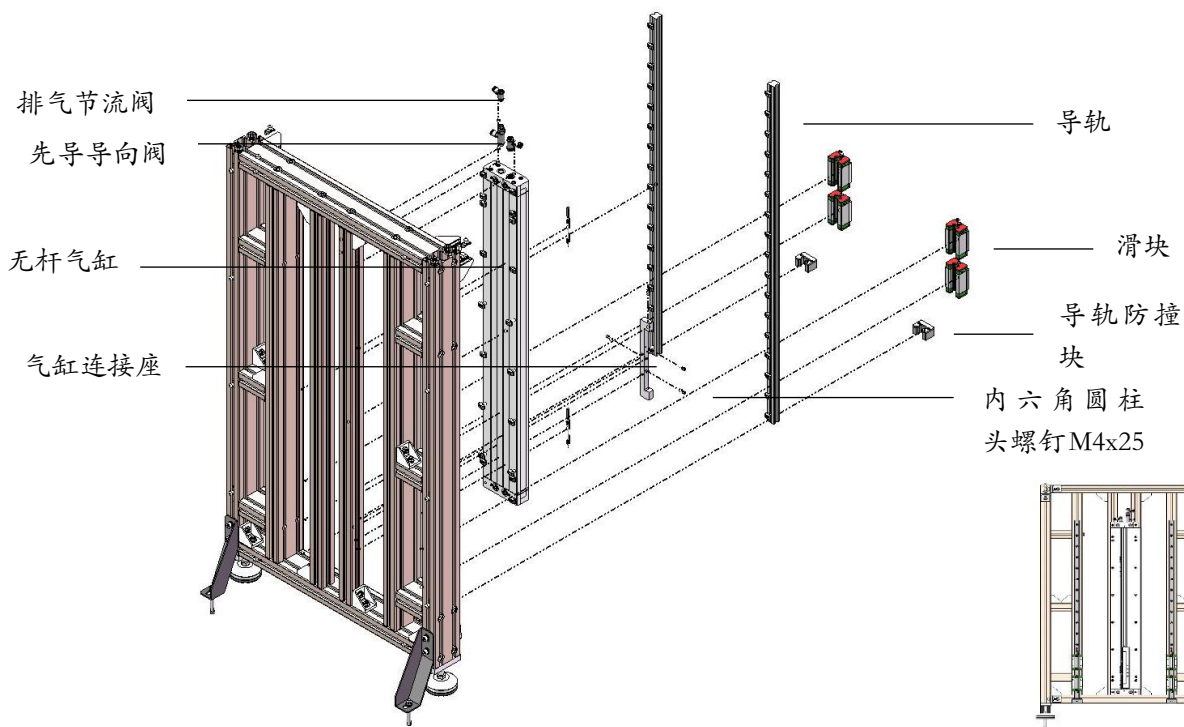
G Installing the PR1 type lifting function unit profile frame as shown in the following figure.

G 按下图所示，安装 PR1 型提升机型材框架。



H Installing guide rails and cylinders.

H 安装导轨、气缸。



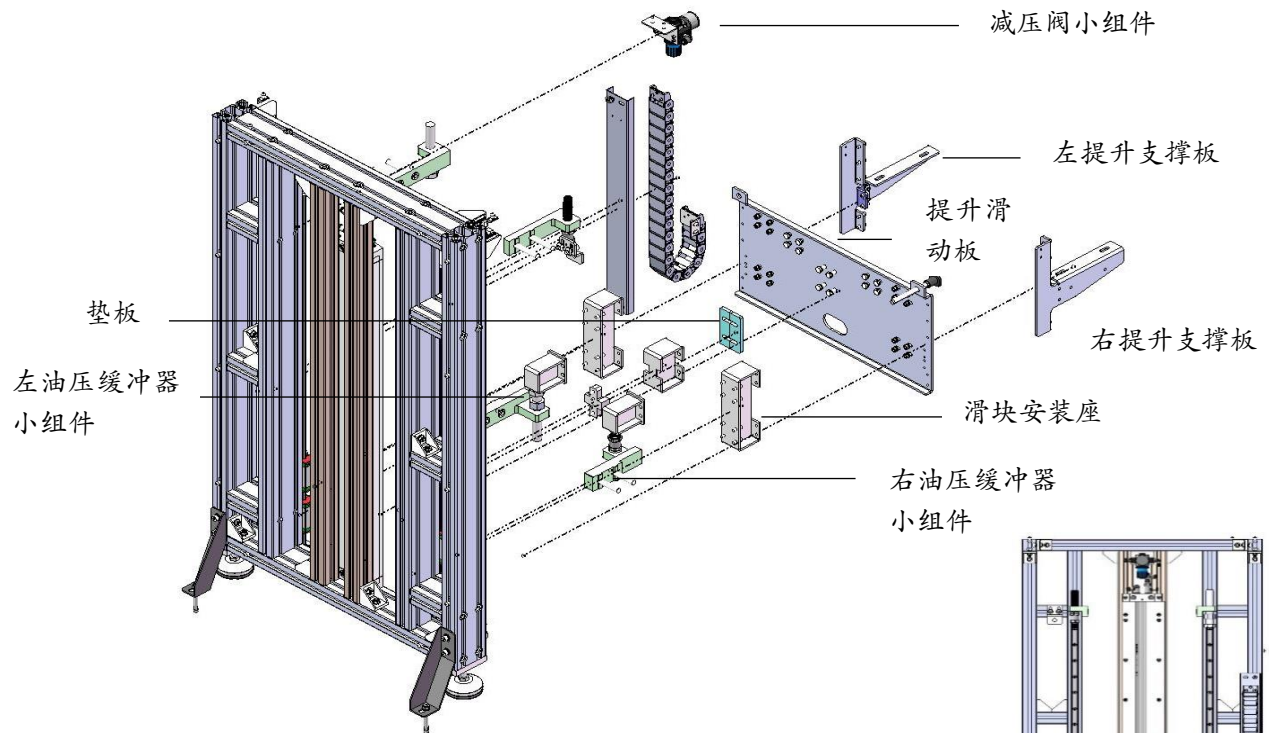
产品特征

安装步骤

维护保养

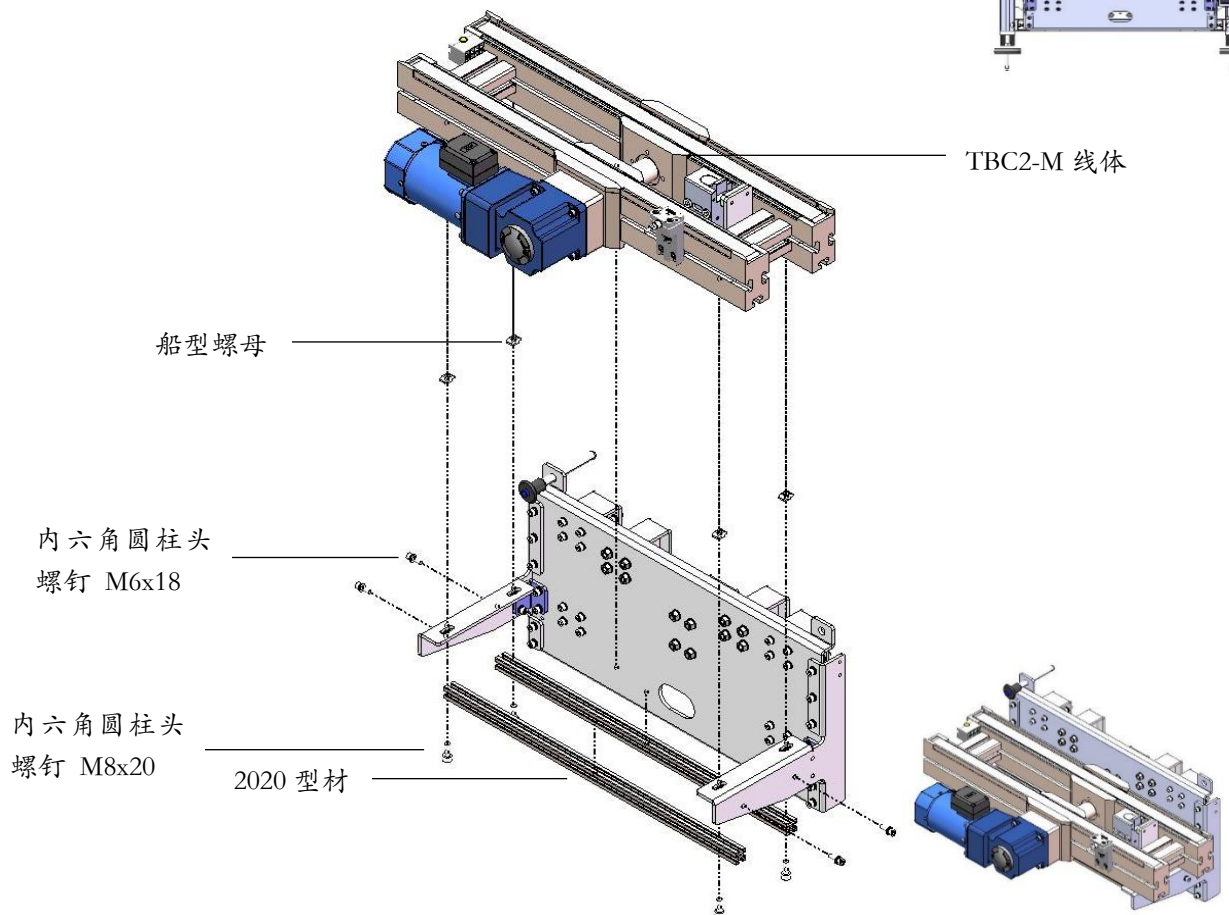
I Install transplanting mechanism.

I 安装移栽机构。



J Installing a small conveyor line.

J 安装小输送线。



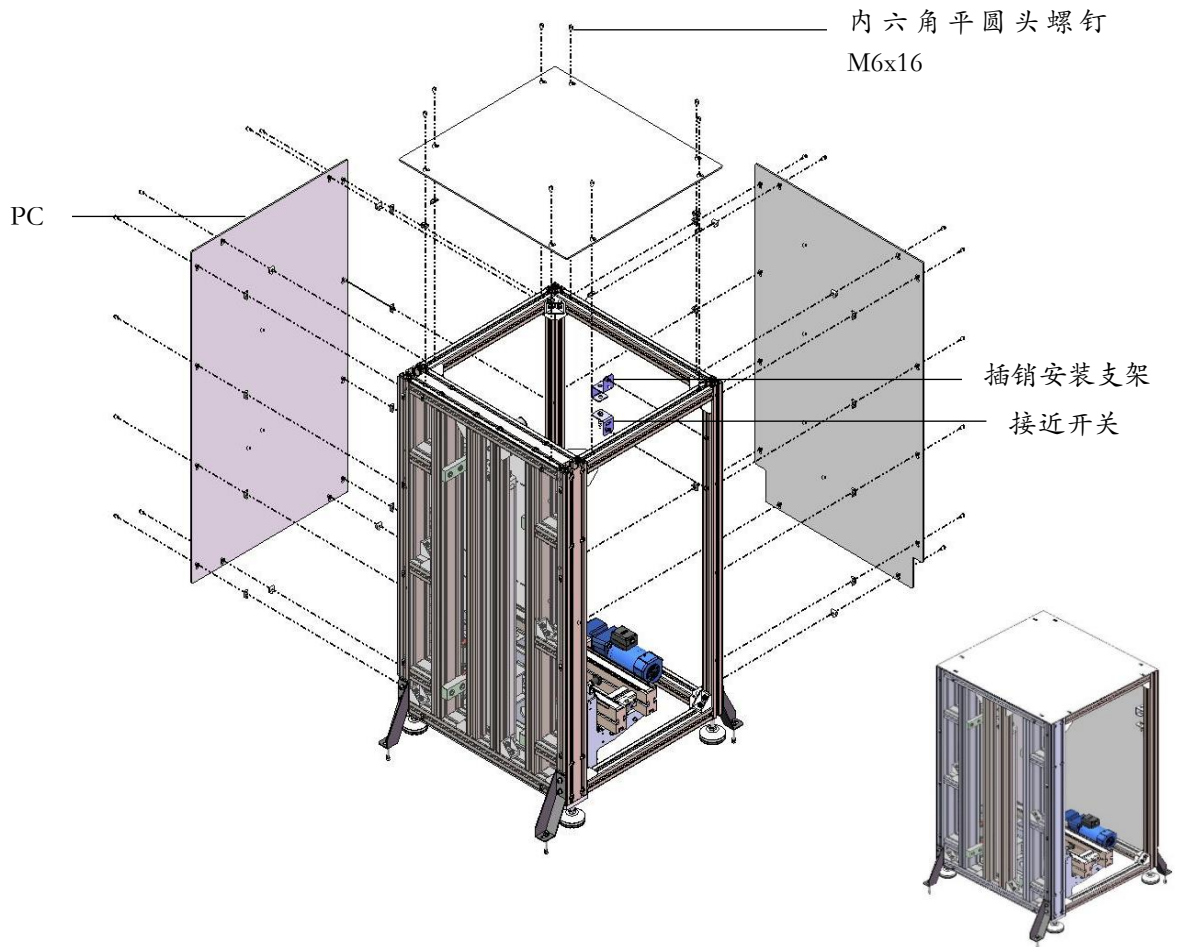
产品特征

安装步骤

维护保养

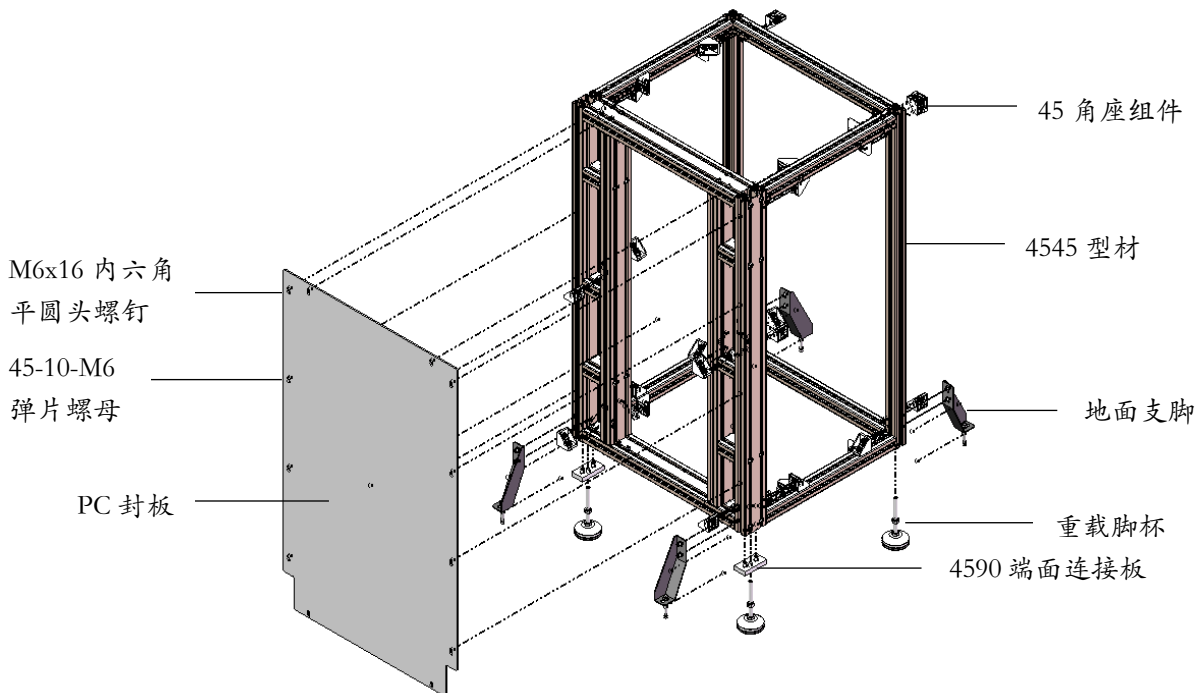
K Install the cover.

K 安装护罩。



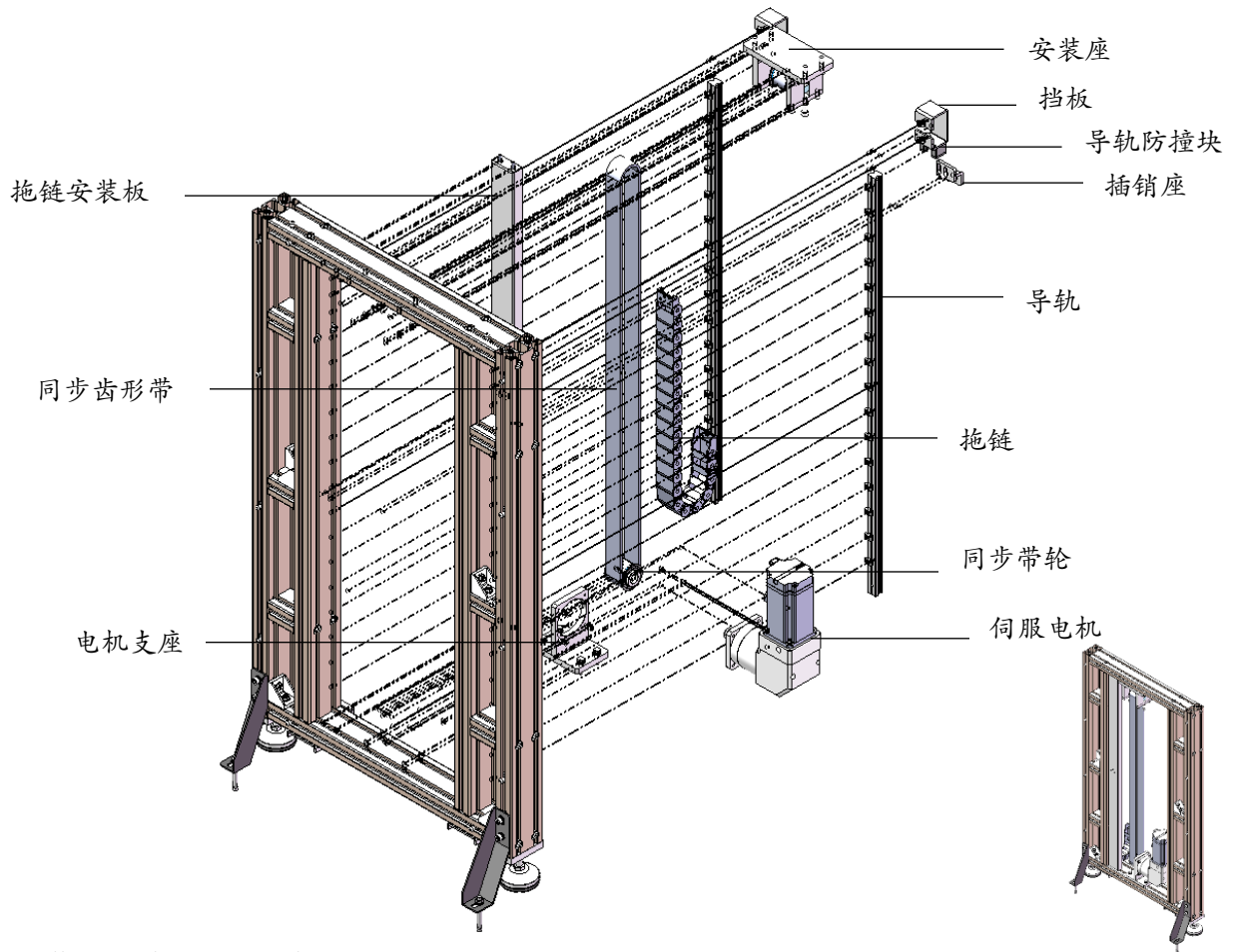
L Installing the PR2 type lifting function unit profile frame as shown in the following figure.

L 按下图所示，安装 PR2 型提升机型材框架。



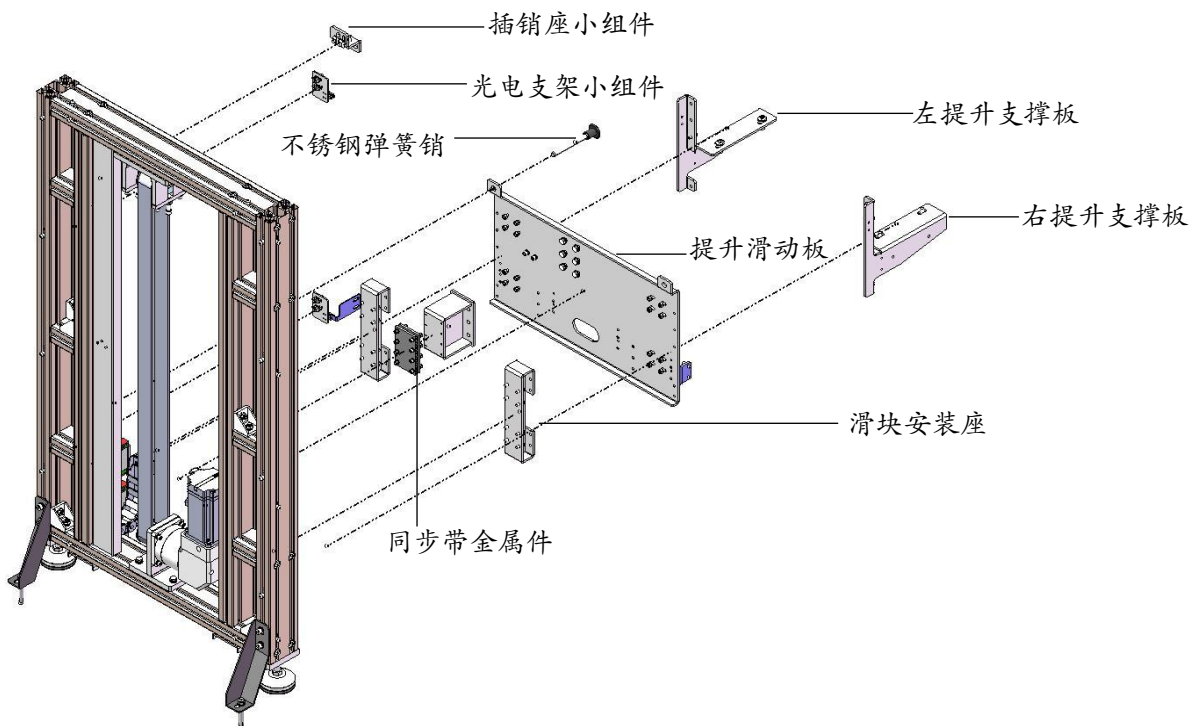
M Install the guide rail and servo motor.

M 安装导轨、伺服电机。



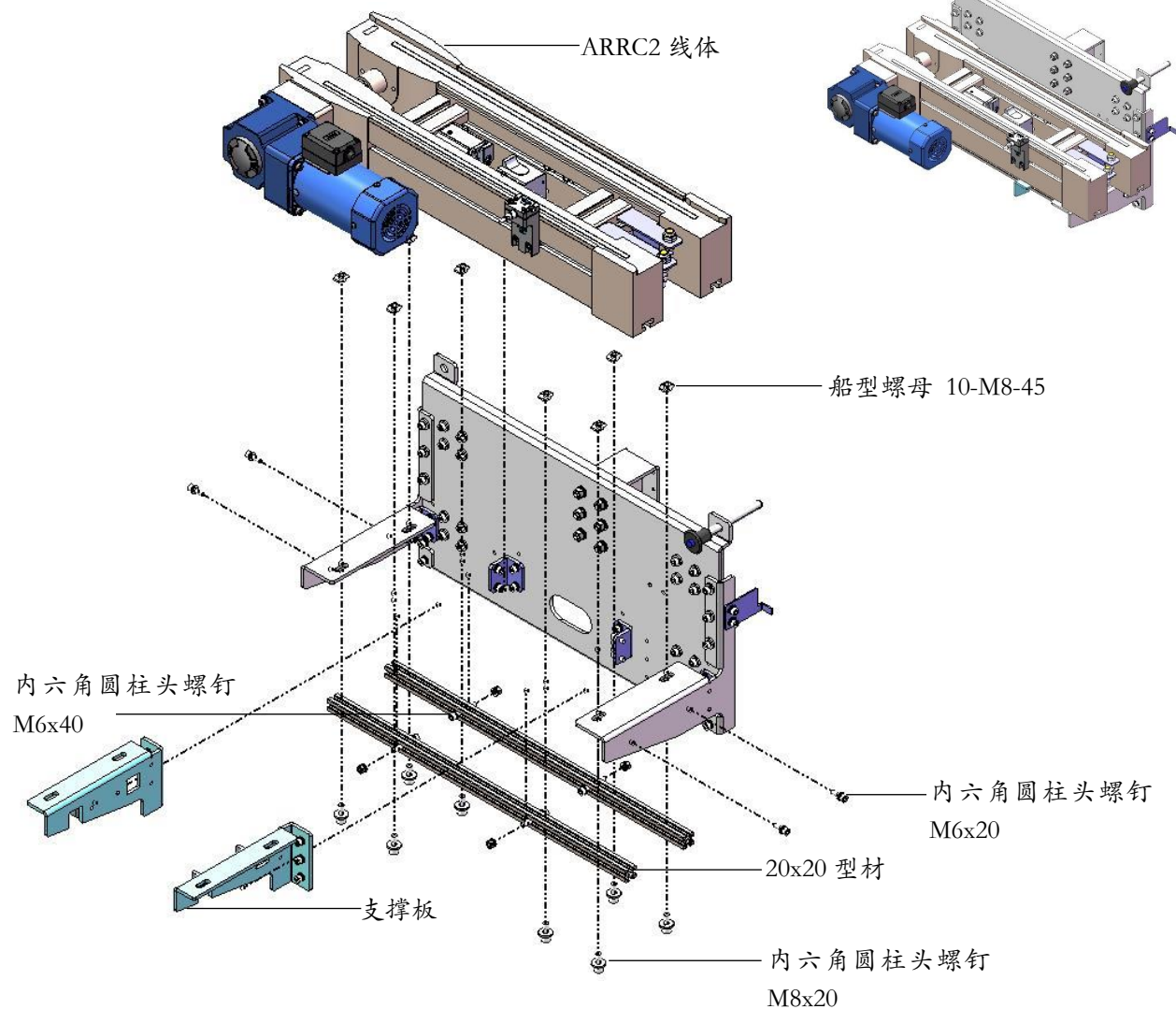
N Install transplanting mechanism.

N 安装移栽机构。



○ Installing a small conveyor line.

○ 安装小输送线。



产品特征

安装步骤

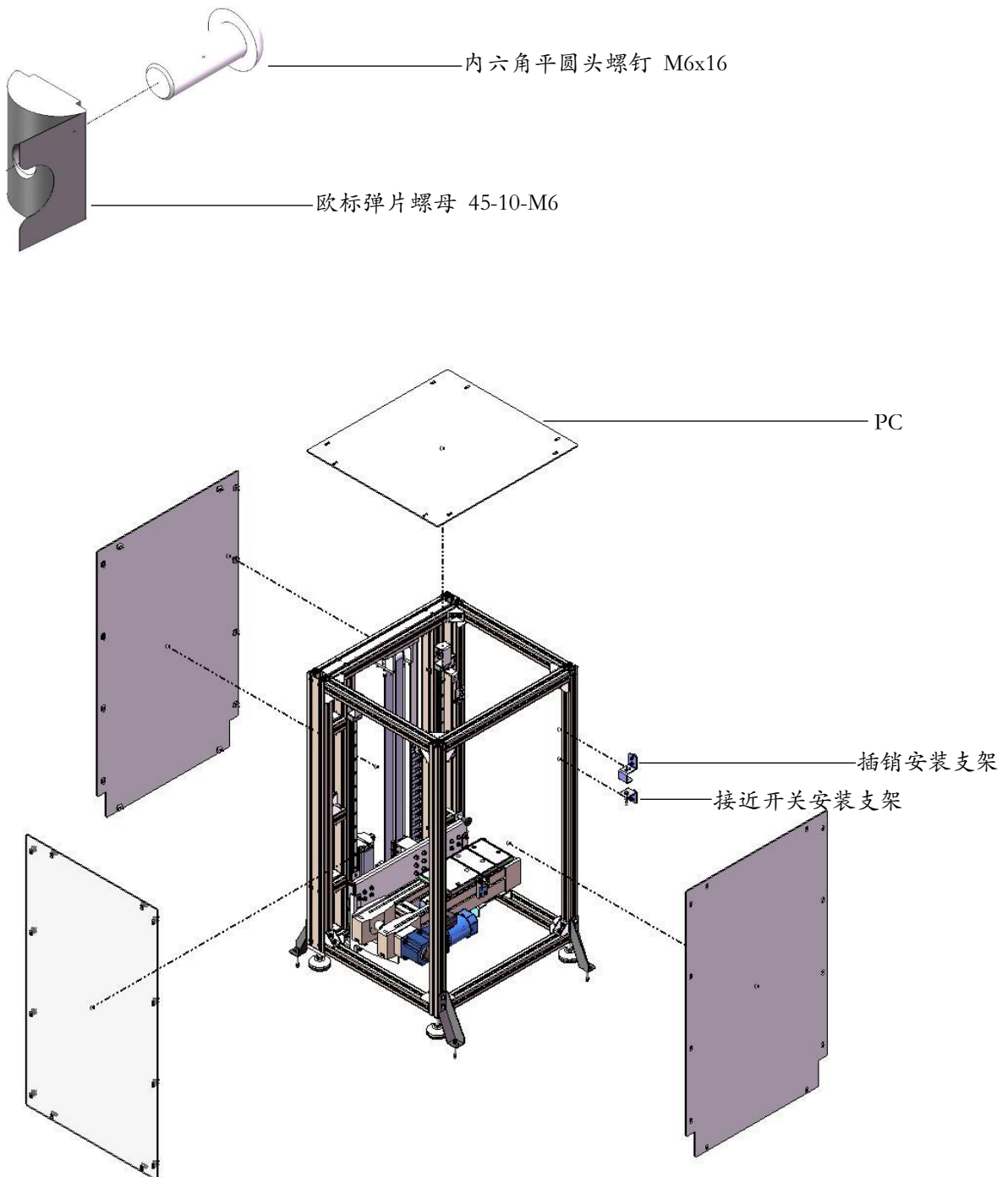
维护保养

P Install the cover.

P 安装护罩。

The connection method between PC and profile is shown in the following figure.

PC 与型材连接方式如下图所示。



## Maintenance 维护和保养

The UTS series tray conveying system requires regular maintenance and upkeep to extend the service life of the line. The conveying equipment should be kept clean to avoid direct sunlight or rain or snow, and to prevent contact with substances such as acids, alkalis, oils, organic solvents, etc.

UTS 系列托盘输送系统需按周期进行规定的保养维护工作，以延长线体使用寿命。输送设备应保持清洁避免阳光直射或雨雪浸淋，防止与酸、碱、油类、有机溶剂等物质接触。维护前需关闭对应的能源供给。

### Daily Maintenance

#### 日维护

Regularly clean the conveyor line. Before starting the machine every day, it is necessary to clean the floating dust, falling small parts, and other obstacles on the chain and wire body to prevent dust and dirt from affecting the operation of the wire body. When cleaning the machine head, it is necessary to remove the upper cover of the machine head and use an air gun to remove any accumulated dust inside. During trial operation, check all parts of the conveyor line for abnormalities, such as loose bearings or abnormal noise. Once any abnormalities are found, repair and replace them immediately. The steel wheel chain needs to be lubricated daily. 定期清洁输送线。每日开机前需清理链条及线体上的浮尘、掉落的小零件及其他障碍物，防止积尘和污垢影响线体运行。在清洁机头时，需拆掉机头上盖，用气枪清除里面积压的灰尘。试运行前，检查输送线的各部位是否有异常，如轴承有无松动或异常噪音，一旦发现异常应立即维修和更换。钢制链轮链条需每日润滑。

### Weekly Maintenance

#### 周维护

Regularly inspect the accessories on the conveyor line body. For easily damaged parts such as sprockets, bearings, and idlers, regular inspection, maintenance, and lubrication are required. If damage or looseness is found, it must be replaced immediately. Check if the fasteners on the wire body are loose and tighten them in a timely manner.

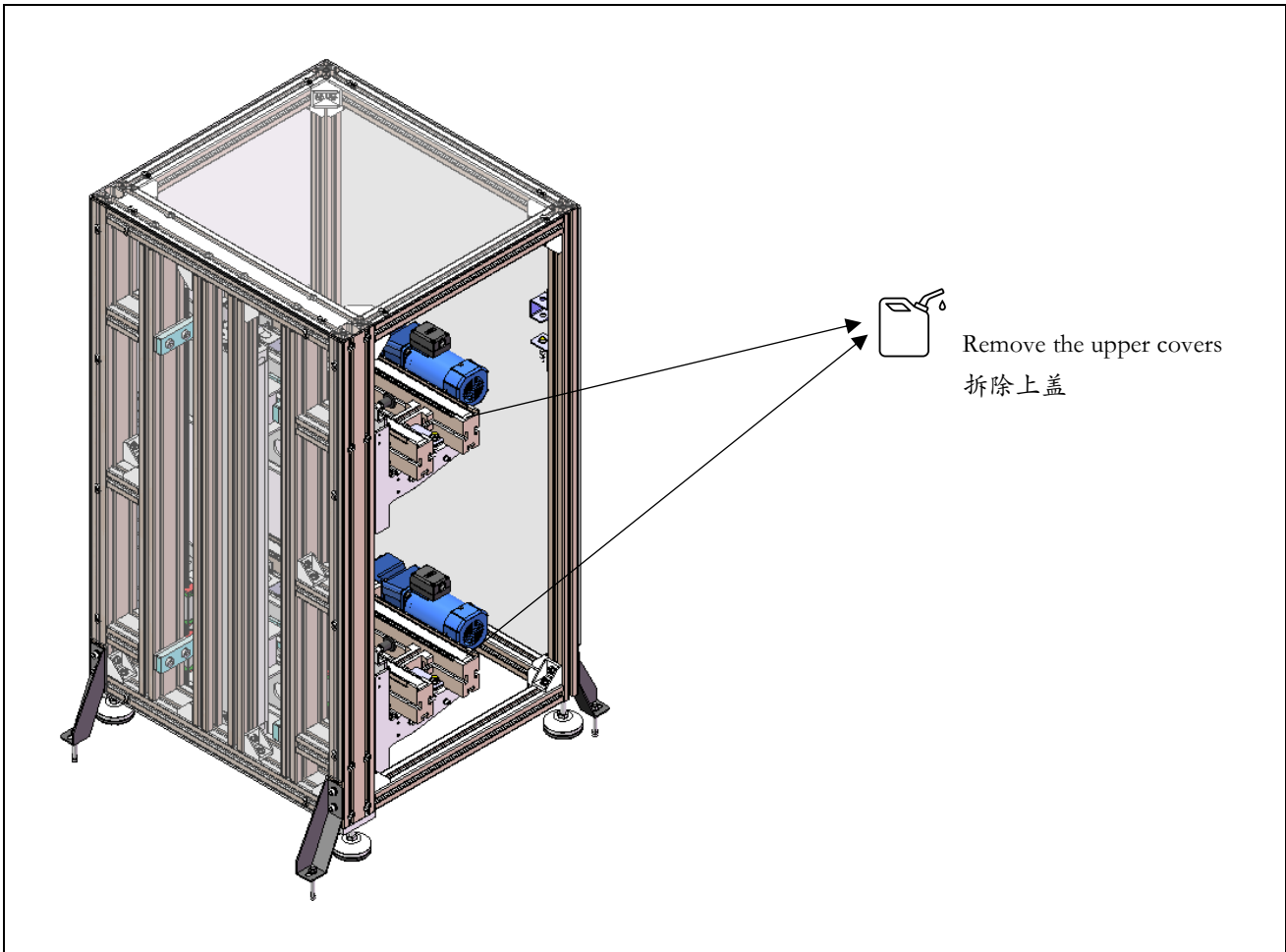
定期检查输送线体上的附件。对于链轮、轴承、惰轮等容易损坏的零件，需定期检查、保养和润滑。发现损坏和松动须立即更换。检查线体上的紧固件是否有松动情况，及时紧固。

### Monthly Maintenance

#### 月维护

Regularly clean motor bearings, check for wear, and replace lubricating oil in a timely manner. (It is necessary to replenish the oil at any time based on the on-site operating conditions and the degree of grease volatilization. Under normal operation, the lubricating oil can be replaced every six months.) Check whether the chain needs lubrication.

对于电机轴承等定期清洗，检查磨损情况，及时更换润滑油。（需根据现场运行状况及油脂挥发程度进行随时补油，正常运行下，可六个月更换一次润滑油。）检查链条是否需要润滑。



Quarterly maintenance

季度维护

Check if the guide strip and friction strip are severely worn or deformed, and replace them in a timely manner. Confirm that the running condition is good, observe if the chain is loose, and if there is any looseness, shorten the chain length by removing the chain link.

检查导向条、磨擦条是否磨损严重或者变形，并及时更换。确定运行状况良好，观察链条是否松弛，如有松动，可通过去除链节的方式缩短链条长度。

Disclaimer

免责声明

The customer shall inspect the equipment regularly. If the customer fails to maintain the conveyor as the state above, leading to any malfunction or damage to the conveyor, our company will not be responsible for it, all related costs (including material costs, installation and commissioning fees, and hotel expense) shall be borne by the customer.

客户应定期对设备进行检查。若客户未按要求对输送机进行维护，进而导致输送机发生任何故障或损坏，我司将不承担相关责任，由此产生的相关费用（材料费，安装调试费，差旅费）均由客户承担。

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Subject to technical modifications

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