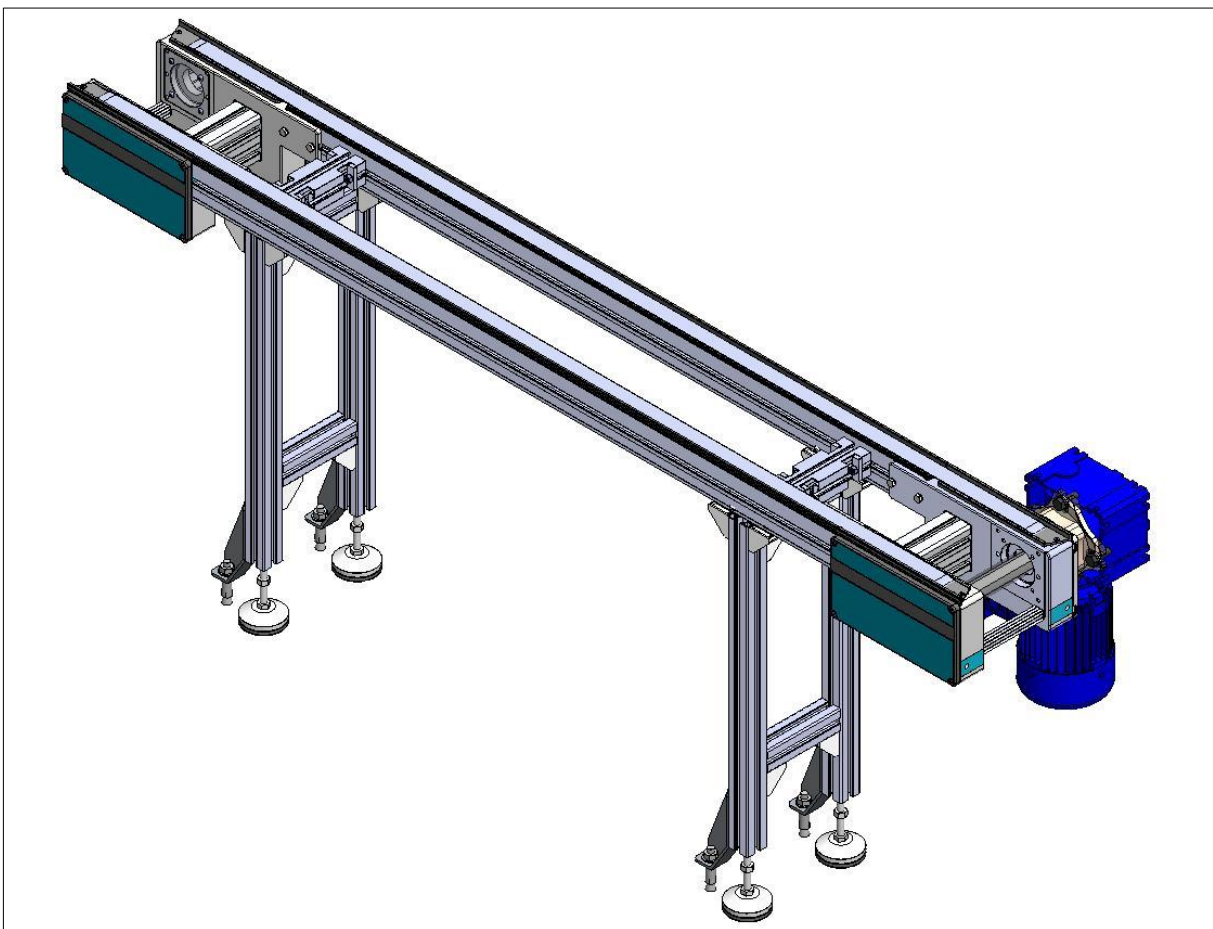


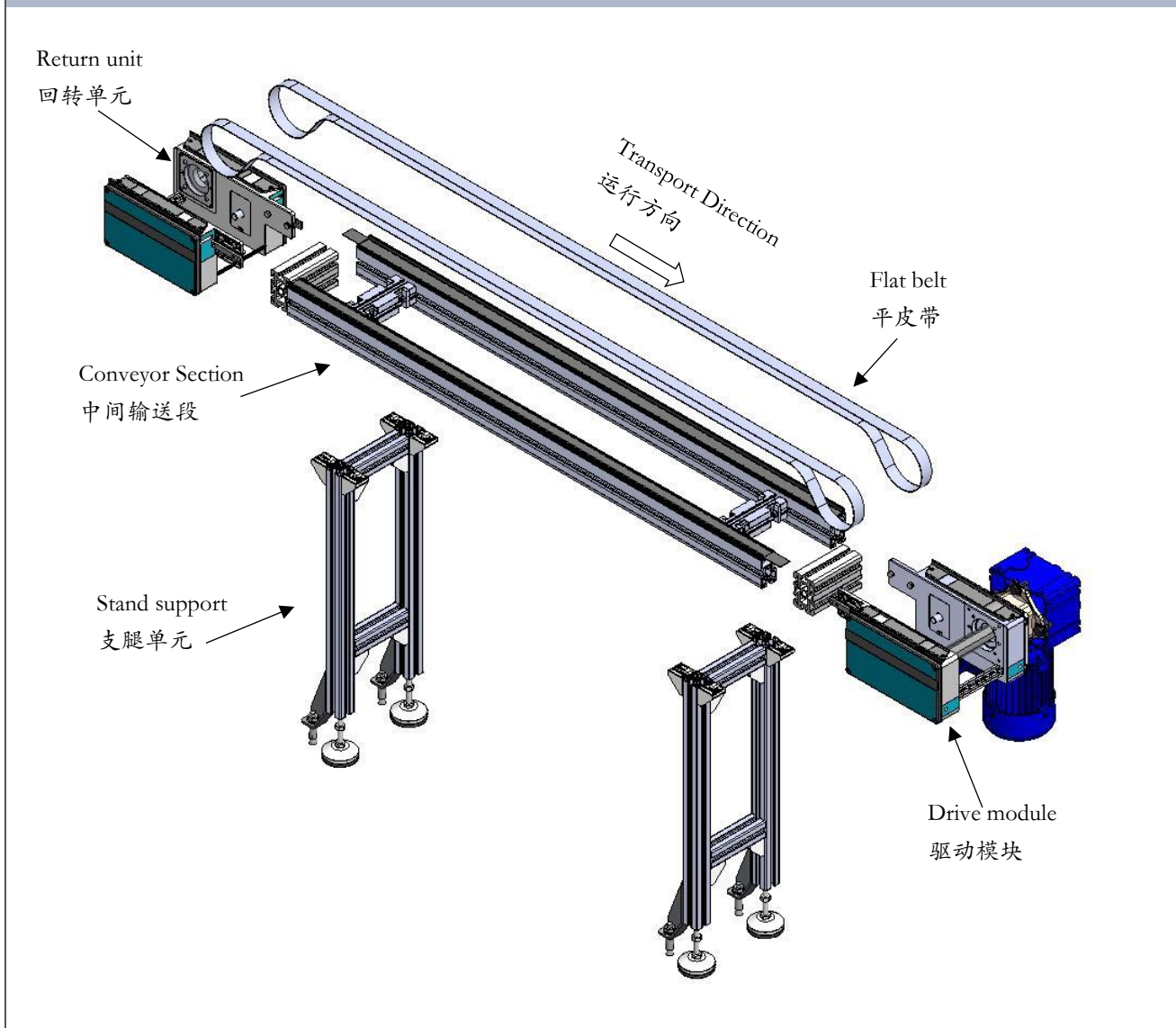
FBC2 Belt Conveyor Section
Instruction & Maintenance Manual
FBC2 皮带输送段安装使用维护手册



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



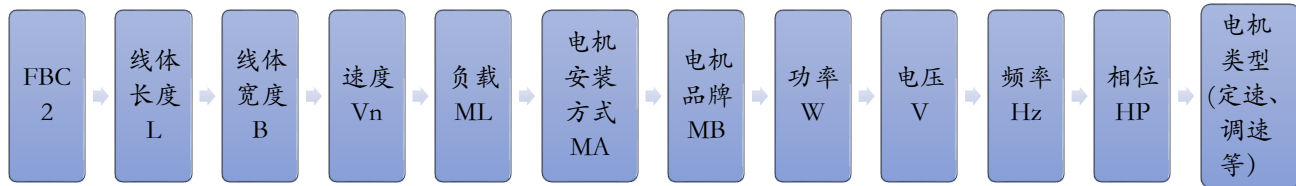
- 1、 The length L of the straight section is 1200-12000mm, and the width can be customized according to customer requirements.
- 1、 直线段长度 L 为 1200-12000mm， 宽度可根据客户要求定制。
- 2、 The conveying medium is flat belt.
- 2、 输送介质为平皮带。
- 3、 The maximum conveying section load during stacking operation is 150kg or 250kg.
- 3、 堆积操作中的最大输送段负载为 150kg 或 250kg。
- 4、 Can run in reverse.
- 4、 可反向运行。
- 5、 The motor can be installed on the right, left, and middle of the line (* when the conveying section width $B \geq 240\text{mm}$).
- 5、 电机可安装在线体右侧、 左侧和中间* (*当输送段宽度 $B \geq 240\text{mm}$)。

产品特征

安装步骤

维护保养

Model Description 型号说明



例：FBC2 - L2810 - B160 - Vn10 - ML30 - MAL011A - NORD - 120W - 380V - 50Hz - 3HP - C0

The model FBC2-L2810-B160-Vn10-ML30-MAR011A-NORD-120W-380V-50Hz-3HP-C0 represents a fixed speed motor with a line length of 2810mm, a line width of 160mm, a running speed of 10m/min, a running load of 30kg, a motor installation position of L011A, a motor brand of NORD, a power of 120W, a voltage of 380V, a frequency of 50Hz, and a phase of 3.

型号 FBC2-L2810-B160-Vn10-ML30-MAR011A-NORD-120W-380V-50Hz-3HP-C0, 表示线体长度 2810mm, 线体宽度 160mm, 运行速度 10m/min, 运行负载 30kg, 电机安装位置为 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。

参数说明 Parameter Description

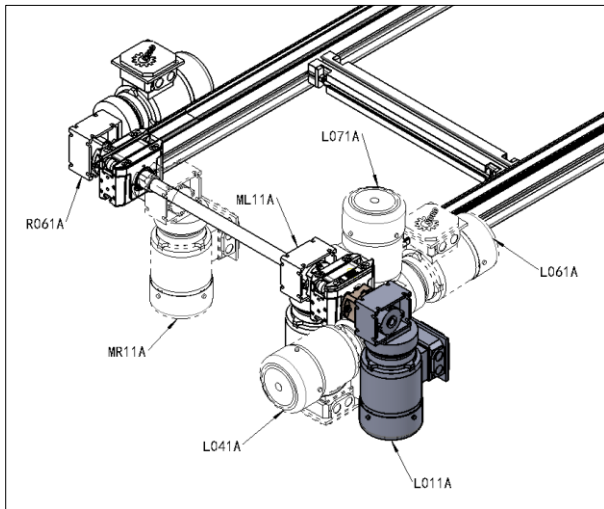
品名 Product Name	长度(mm) Length	宽度(mm) Width	速度 (m/min) Speed	电机安装方式 Motor installation method
FBC2	1200~12000	160~1200	6~18	电机安装：MA=①_②_③_④_⑤_ Motor installation: MA=①_②_③_④_⑤_ ①电机安装位置：M 中置；R=右；L=左； Motor installation position: M center; R=right; L=Left; ②当①=R/L 时，②=0；当①=M 时，②=R/L； ② When ①=R/L, ②=0; 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;

产品特征

安装步骤

维护保养

电机安装位置 Motor installation position



注：图为电机 L011A 的安装方式。

产品特征

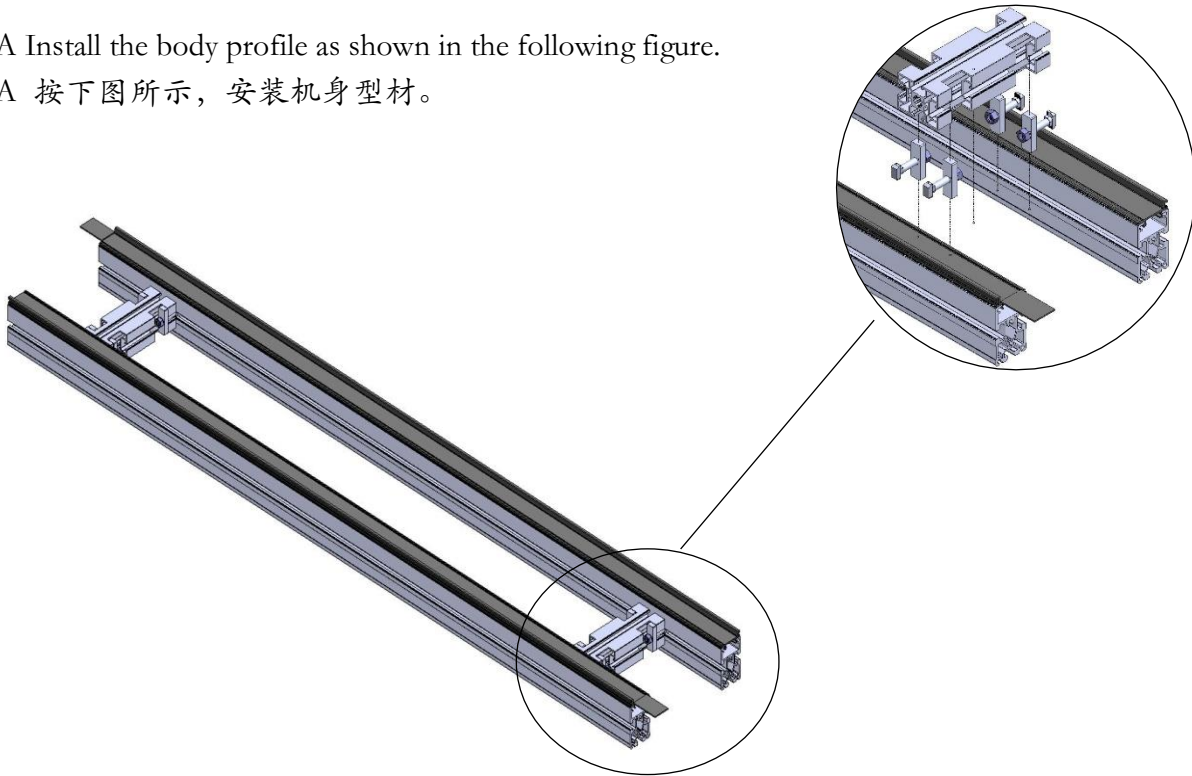
安装步骤

维护保养

安装步骤 Installation steps

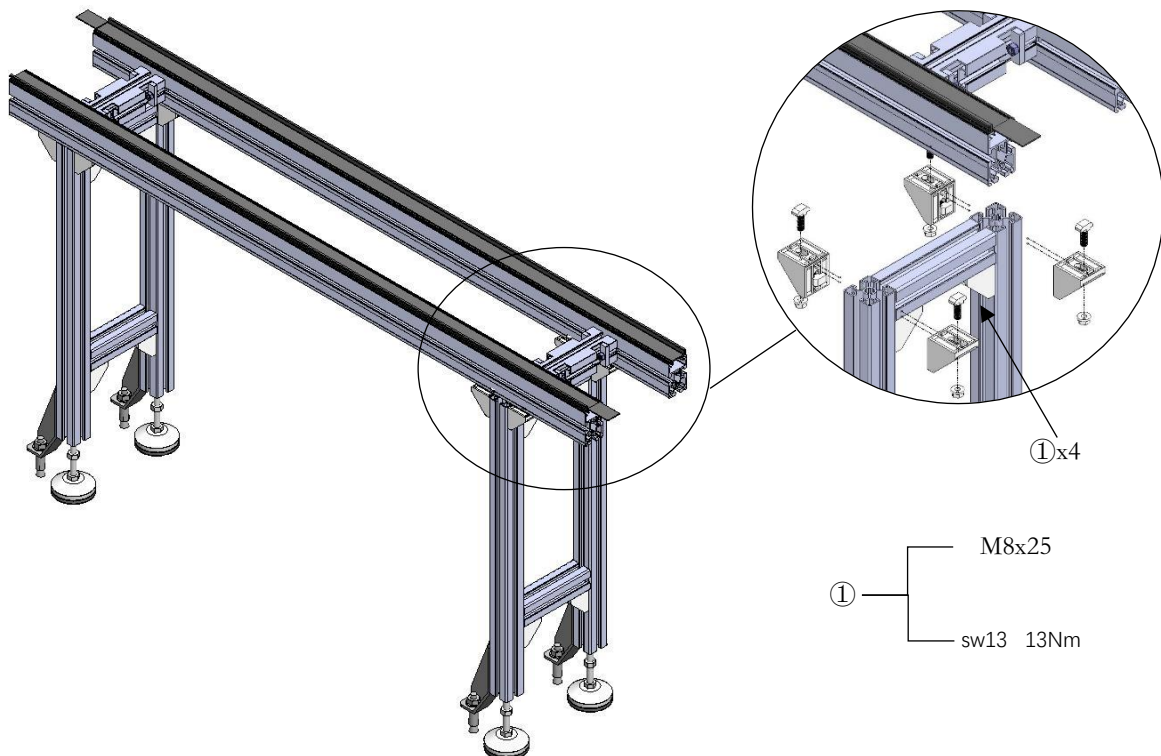
A Install the body profile as shown in the following figure.

A 按下图所示，安装机身型材。



B Assemble the stand support onto the Conveyor Section as indicated below.

B 按下图所示，将支腿单元安装到中间输送段上。



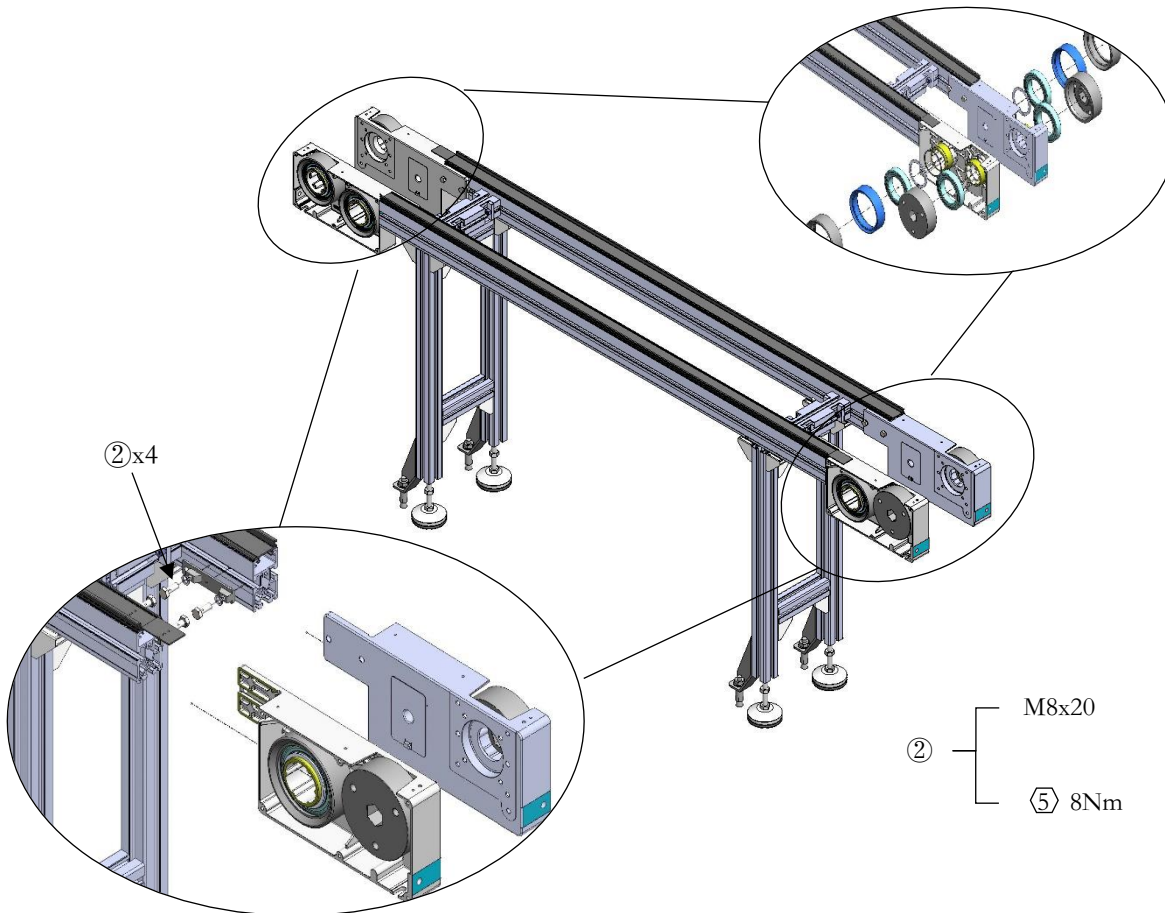
产品特征

安装步骤

维护保养

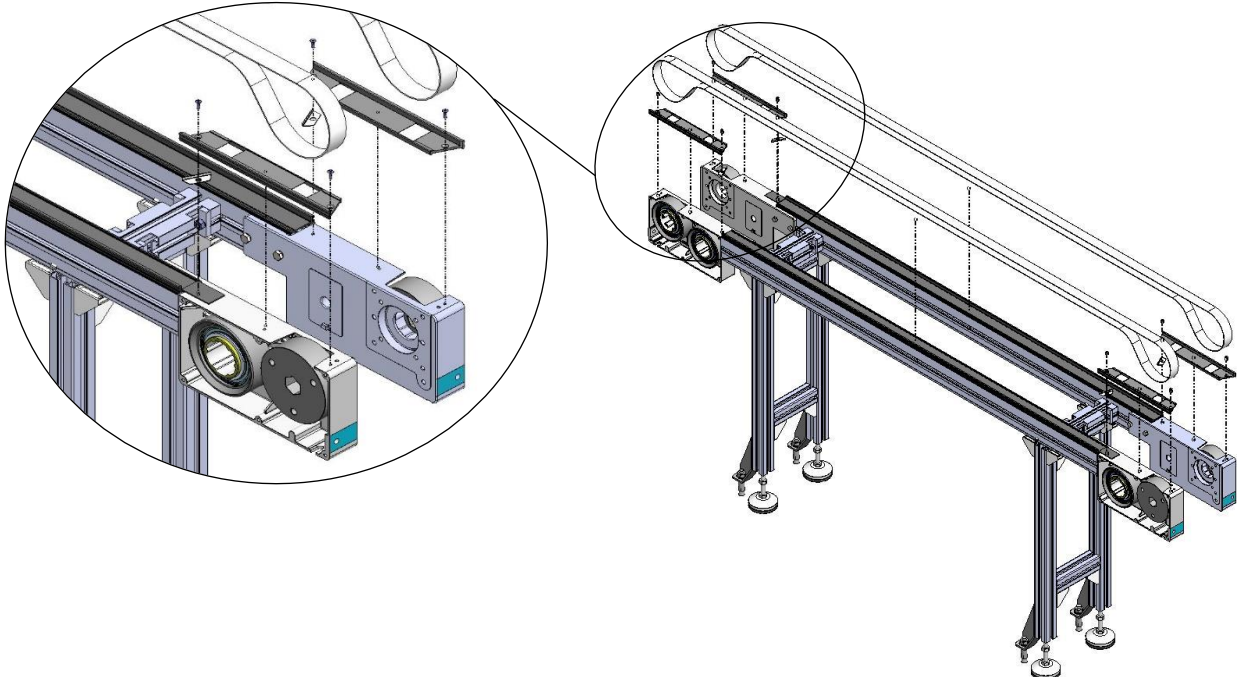
C Assemble the lower cover of drive unit, return unit onto two ends of conveyor body.

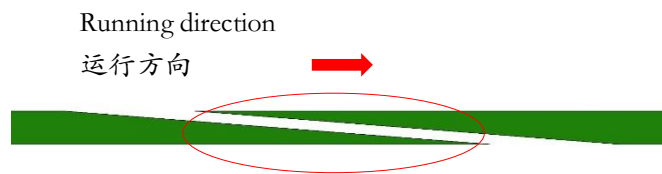
C 按下图所示，将驱动单元下壳体、回转单元安装于线体两端。



D After installing the belt guide plate, thread the belt into the belt guide plate, and place the material along the line into the groove of the profile to make it flat.

D 先安装好皮带导向板后，将皮带穿入皮带导向板，沿线体型材放入型材槽口内，使其平整。





Note:

When installing a flat belt, the top connection direction of the flat belt should be opposite to the running direction of the conveyor line .

请注意:

安装平皮带时，平皮带顶面接驳朝向应与线体运行方向相反。

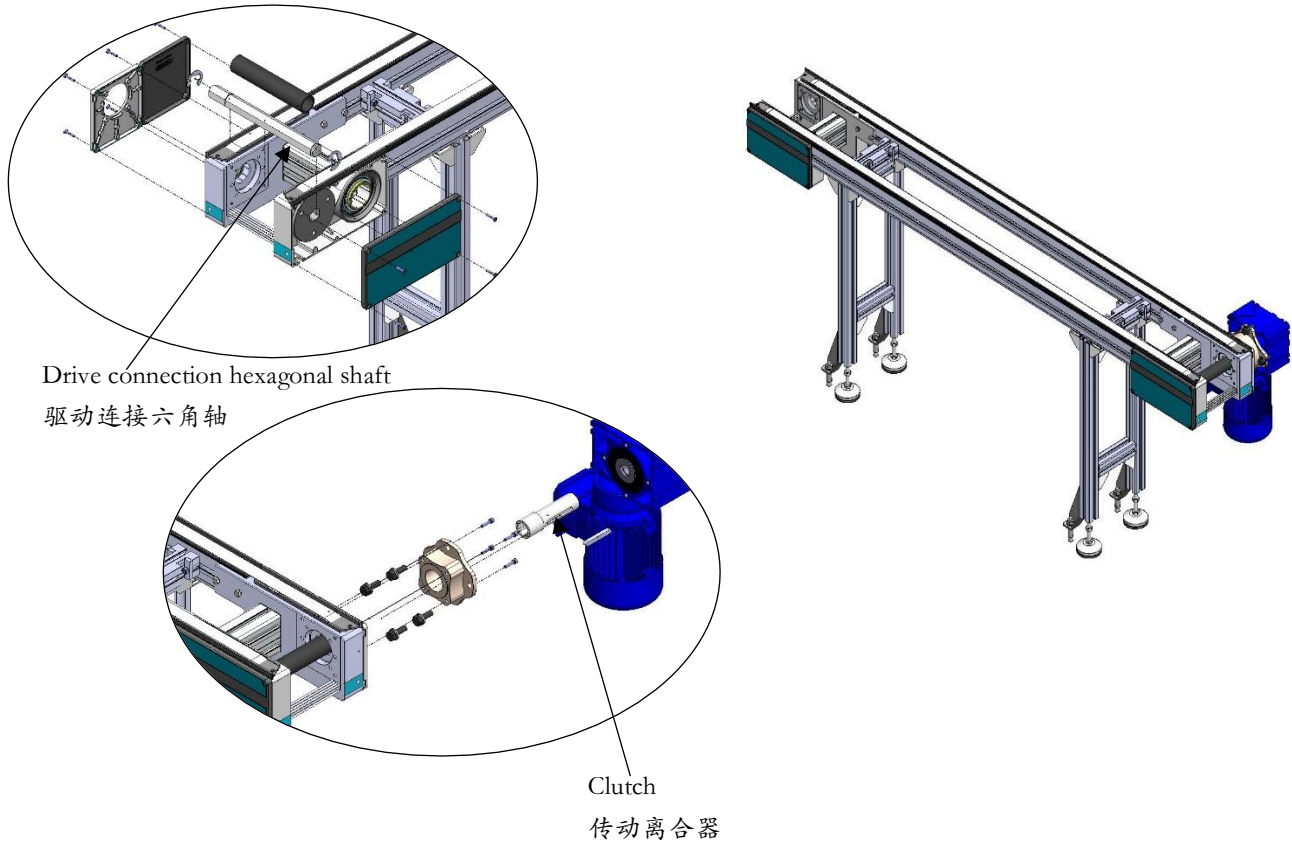
产品特征

安装步骤

维护保养

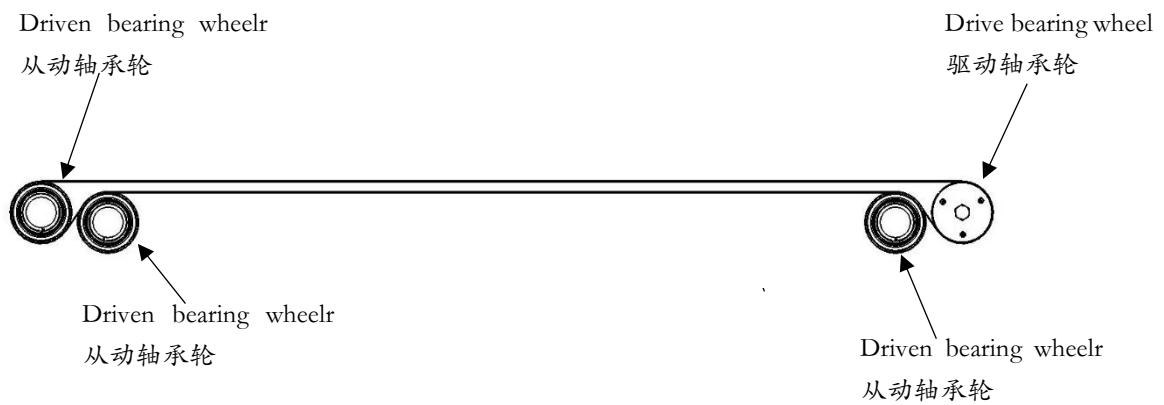
E Install the drive unit drive connection hexagonal shaft and other accessories as shown in the following figure. After assembly, connect the motor to drive connection hexagonal shaft.

E 按下图所示，安装驱动单元驱动连接六角轴及其他附件。组装完成后，将电机连接到驱动连接六角轴上。



Note: The flat belt bypasses the pulleys of the driving and rotating units, as shown in the following figure.

注意：平皮带绕过驱动单元和回转单元滑轮，绕行方式见下图。

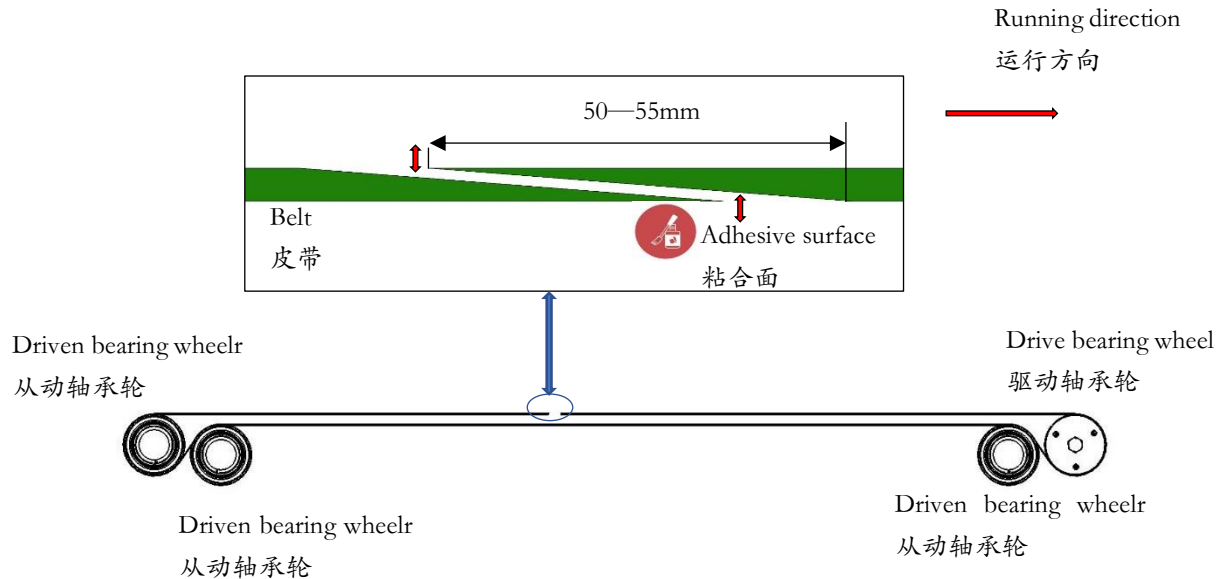


F Replacing the belt.

F 更换皮。

Method 1: On site welding and bonding

方法一：现场焊接粘结式



⚠ Attention: Please use a dedicated grinder for the adhesive surface of the belt!

注意：皮带粘合面请用专用打磨机！

Method 2: Using tooling tools, place the welded belt in a circular shape on the drive wheels at both ends of the wire body.

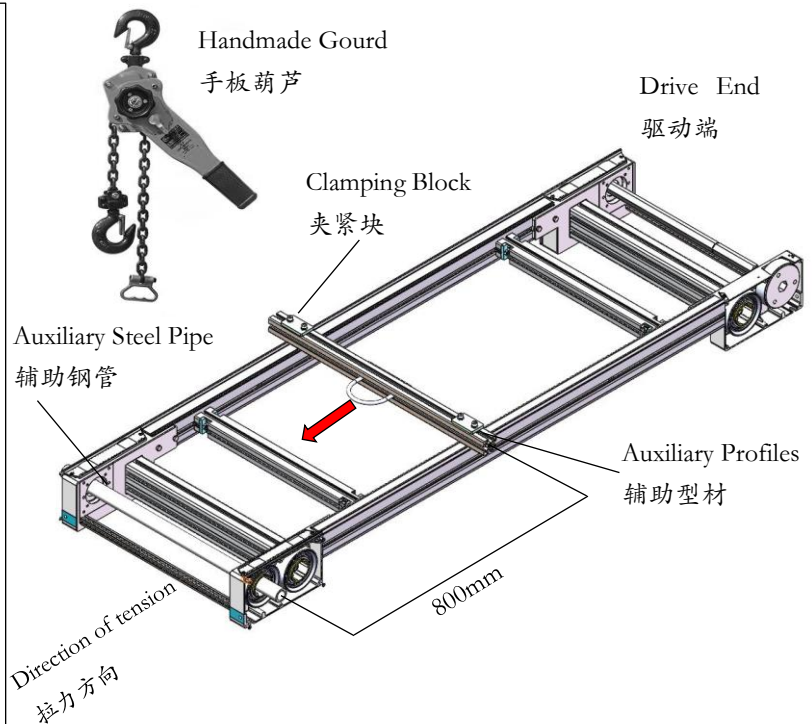
方法二：利用工装工具，将已焊接好的皮带呈环形套于线体两端的驱动轮上。

1. Place two circular belts on the driving wheel according to the conveying direction and bonding surface.

2. Pull up two circular belts, use clamping blocks to fix them on the auxiliary profile, then fix the two ends of the hand board hoist on the auxiliary shaft and auxiliary profile, tighten the hand board hoist to move it towards the driven end as a whole, and install the loose belt onto the driven wheel at the driven end.

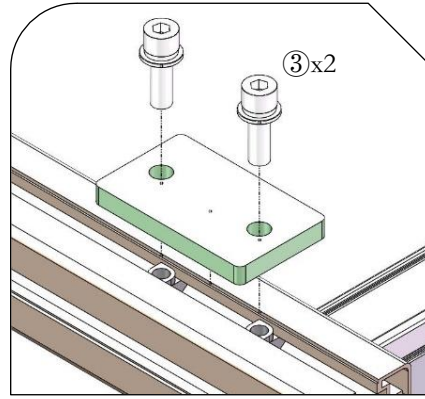
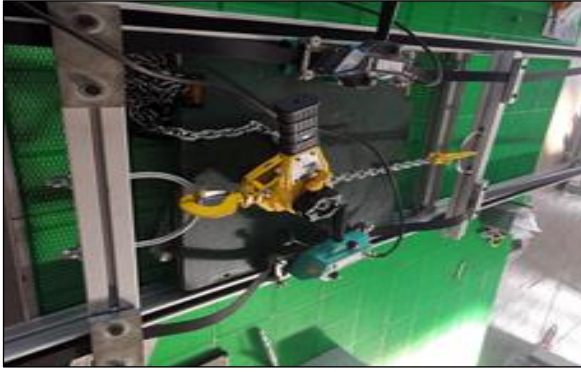
1、根据输送方向、粘合面将两条环形皮带套于驱动轮上。

2、拉起两条环形皮带，利用夹紧块，将其固定辅助型材上之后，将手板葫芦两端分别固定在辅助轴与辅助型材上，拉紧手板葫芦，使其整体向从动端移动，将松弛的皮带安装到从动端的从动轮上。



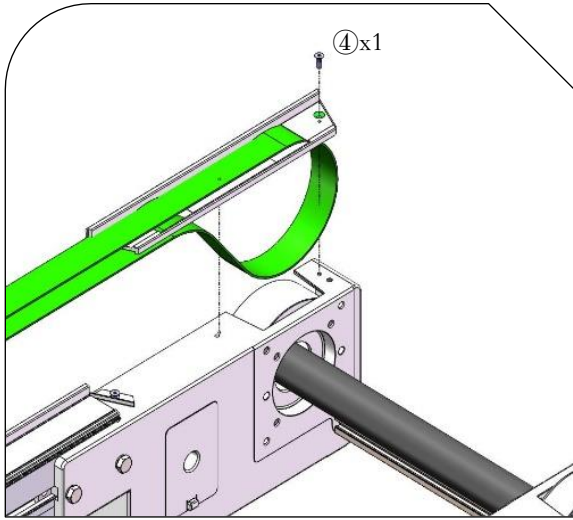
Realistic Operations

实景操作



③ — M8x25
⑥ 30Nm

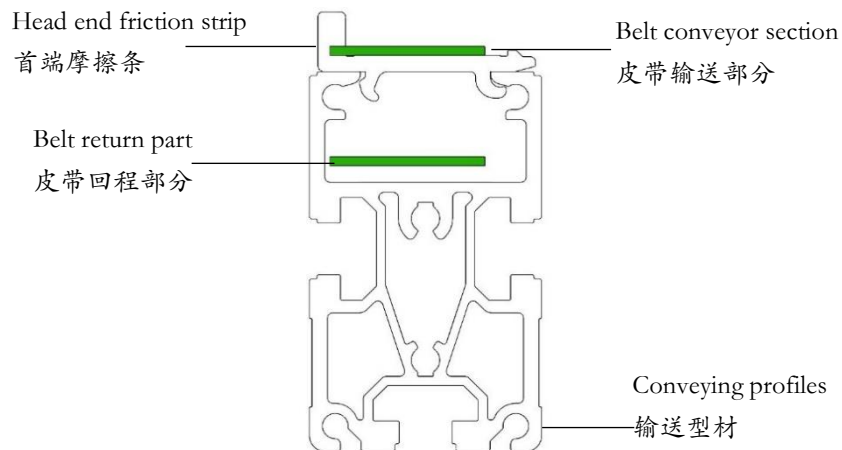
⚠ Attention: The contact surface between the clamping block and the belt needs to be rounded to avoid damaging the belt.
注意：夹紧块与皮带接触面需导圆角，避免损伤皮带。



④ — M4x12
⑥ 4Nm

3. Fix the friction strip at the head end on the drive and driven shells, release the lever hoist and clamping block.
3、将首端摩擦条固定在驱动、从动壳体上，松开手扳葫芦、夹紧块。

Section diagram after installation
安装完成后截面示意图



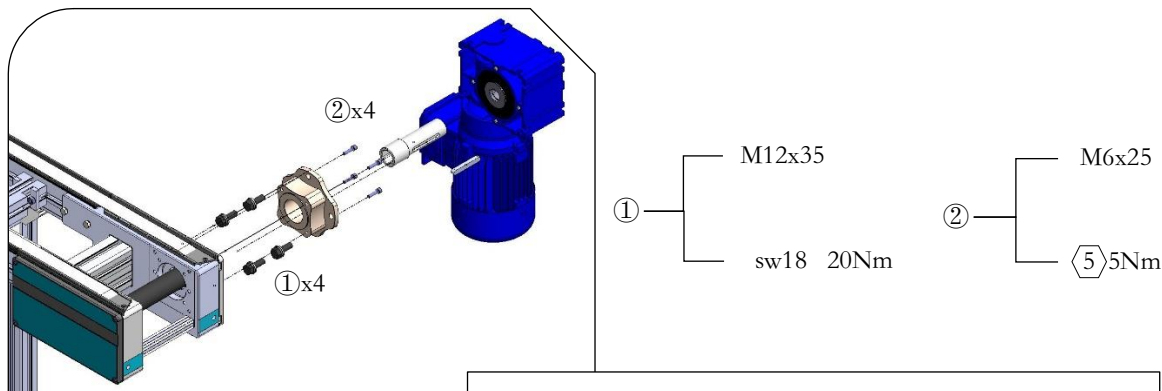
产品特征

安装步骤

维护保养

F Installing the motor.

F 安装电机



Attention:

注意:

1. The motor should be installed firmly and not tilted.
- 1、电机安装稳固不能倾斜。
2. The direction of the motor and junction box must meet the technical requirements.
- 2、电机与接线盒方向必须符合技术要求。

G Regular Troubleshooting.

G 常见故障及处理方法。

1. Abnormal noise from the drive module or rotary unit: a Check if the bearings need lubrication, and replace the driven wheel set if necessary.

1、驱动模块或回转单元异响: a 检查轴承是否需要润滑, 必要时更换从动轮组。

2. Motor overheating: Check if the equipment is operating under overload and if the motor wiring is loose.

2、电机过热: 检查设备是否超载运作, 电机接线是否松动。

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, especially the accumulation of dust at the dust removal tank V. Before starting the machine every day, it is necessary to clean the floating dust, falling small parts, and other obstacles on the belt 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 shell needs to be removed, and use an air gun to remove the accumulated dust inside. During trial operation, check whether there are any abnormalities in various parts of the conveyor line, such as loose bearings or abnormal noise. Once any abnormalities are found, repair and replace them immediately. Check the belt daily for burrs, stretching deformation, tearing, wire breakage, wear, and looseness, and make timely adjustments, repairs, or replacements.

定期清洁输送线，特别是除尘 V 槽处的积灰*。每日开机前需清理皮带及线体上的浮尘、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，需拆掉外壳，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，一旦发现异常应即使维修和更换。每日检查皮带是否有毛边、拉伸变形、撕裂断丝、磨损和松动等情况，及时调整维修或更换。

Weekly Maintenance

周维护

Regularly inspect the accessories on the conveyor line body. For parts that are prone to damage such as synchronous wheels, 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。对于同步轮、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 oil volatilization. Under normal operation, the lubricating oil can be replaced every six months.)

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。）

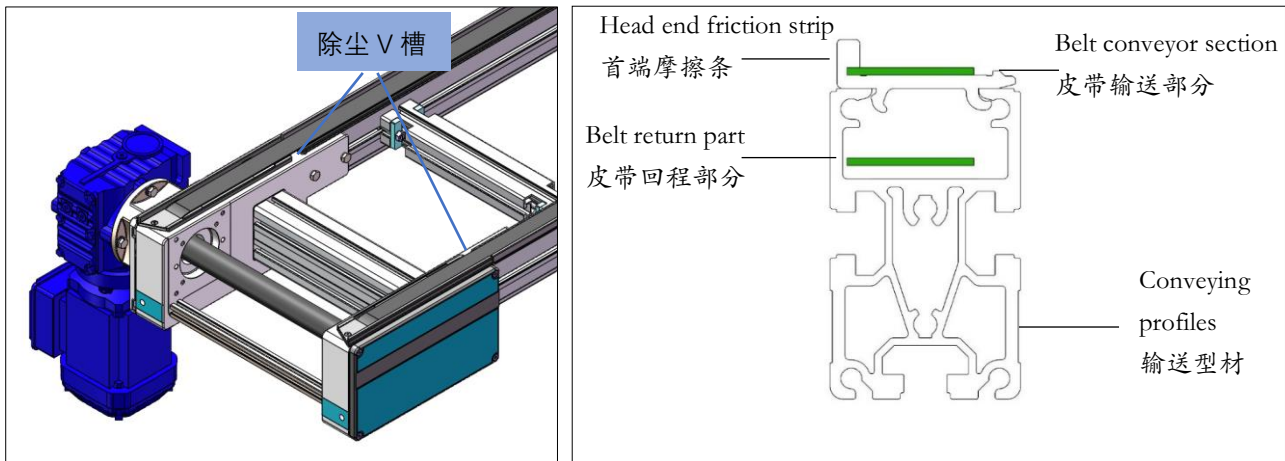
Quarterly Maintenance

季度维护

Check the wear of bearings, idlers, pulleys, and synchronous wheels, and replace them in a timely manner. Check if the belt is loose or deformed, and if the friction strip is severely worn, and replace it in a timely manner. Confirm that the operation is in good condition, without any belt jamming, slipping, deviation, or abnormal noise from the wire body. If this situation occurs, it is necessary to check whether the internal structure of the drive unit and rotary unit is intact.

检查轴承、惰轮、滑轮、同步轮的磨损情况，及时更换。检查皮带是否松弛变形，磨擦条是否磨损严重，并及时更换。确定运行状况良好，无皮带卡顿、打滑、偏移及线体异响的情况发生，如有此情况，需检查驱动单元、回转单元是否内部结构完好。

*



Reasons for dust generation and accumulation:

- (1) During transportation and pallet stacking, relative sliding occurs between the pallet and the flat belt, as well as between the flat belt and the friction strip, which generates a certain amount of dust.
- (2) At the same time, dust will gather towards the driving end under the drive of the flat belt. As the flat belt is pre installed, there is a very large squeezing force between the belt and the driving wheel. If dust is brought between the belt and the driving wheel, it will be crushed and attached to the surface of the driving wheel, causing serious problems such as raised wear, deviation, and tearing of the flat belt. Therefore, we have set up dust removal V-grooves on both sides near the driving end to scrape off the dust attached to the bottom of the flat belt to avoid such problems. However, scraping will cause dust to accumulate here.

粉尘产生和堆积的原因:

- (1)在输送和托盘堆积时，托盘与平皮带、平皮带与摩擦条之间，均会产生相对滑动，这会产生一定量粉尘；
- (2)同时，粉尘在平皮带的带动下会向驱动端汇集，因为平皮带为预紧安装，带子和驱动轮之

间存在非常大的挤压力，如果粉尘被带入带子与驱动轮之间，会被碾压附着在驱动轮表面，进而造成平皮带隆起磨损、跑偏、撕裂等严重问题，所以我们在靠近驱动端的两侧设置了除尘 V 槽，对平皮带底面附着的粉尘进行刮除，避免此类问题，但刮除时会造成粉尘在此处堆积。

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。

Suzhou LinkedGo Transfer System Co.,Ltd.
苏州领科工业技术有限公司

[Tel: +86-512-6636 1885](tel:+86-512-66361885)

Add: Room 706, Building D, Dongchuang Science and Technology Park,
No. 216 Jinfeng Road, Wuzhong District, Suzhou, P.R. China

Zip code:215101

E-mail: Sales@LinkedGo.com.cn

Website: [www. LinkedGo.com.cn](http://www.LinkedGo.com.cn)

Subject to technical modifications

电话： +86-512-6636 1885

地址： 苏州市吴中区木渎镇金枫路 216 号东创科技园 D 幢 706 室

邮编： 215101

邮箱： Sales@LinkedGo.com.cn

网址： www.LinkedGo.com.cn

我司保留技术更改的权利