

Huaxiu Intelligent Technology (Dongguan) Co., Ltd

HX-KX-B500

高速开箱机 (8 伺服款)

High speed unboxing machine (8 servo models)

前言

欢迎使用高速开箱机(8伺服款),在使用本机前请认真阅读本说明书。

相关操作人员必需经培训考核合格后方可上岗操作机器,未经培训使用本机造成的事故 或机器损坏等后果由使用厂家承担全部责任。在使用过程中有任何疑问或建议、欢迎向我公 司反应,我们将虚心聆听、热情为您提供相关服务。

为了保证安全, 机器运作中严禁无关人员靠近、触碰机器。

当机器出现故障时,应该及时告知机器 维护人员进行检修,或通知本公司。除人为损坏或无法抗拒的自然损坏之外,在保修期内我们为您提供免费服务,保修期过后进行有偿服务。客户在自行维修时应该注意安全,并且维护人员要熟悉机器,有一定的设备维修经验。本说明书最终解释权归本公司所有,如有变更或升级不再另行通知。

Welcome to use the high-speed unboxing machine (8 servo models). Please read this manual carefully before using this machine.

The relevant operators must undergo training and pass the assessment before they can operate the machine.

The consequences of accidents or machine damage caused by the use of this machine without training shall be borne entirely by the user manufacturer. If you have any questions or suggestions during use, please feel free to report to our company. We will listen humbly and provide you with relevant services with enthusiasm.

To ensure safety, unrelated personnel are strictly prohibited from approaching or touching the machine during operation.

When the machine malfunctions, it should be promptly notified to the machine maintenance personnel for inspection or to our company. Except for human damage or uncontrollable natural damage, we provide free services during the warranty period and paid services after the warranty period. Customers should pay attention to safety when repairing on their own, and maintenance personnel should be familiar with the machine and have some equipment repair experience.

The final interpretation of this manual belongs to our company, and any changes or upgrades will not be notified separately



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一 、安全通则 Safety regulations:

高速开箱机(8 伺服款)的操作、保养与维护必须由有充分培训并且考核合格的人员进行,他们必须熟悉机器的特点、功能与安全规则。

- 1. 每一位被核定的操作者或保养与维护人员在操作机器前都必须认真学习本说明书,并彻底了解它。
- 2. 操作者都必须遵守机器安全操作规程及保养的一切规则。
- 3. 高速开箱机(8 伺服款)是专为快速开箱,节省人工成本,而设计的专用设备,不允许作其它用途。应考虑防止误用。
- 4. 安全内容包括:安全指引,安全规则,事故预防和安全标识正确的操作等。
- 5. 除了本说明书中的安全规则之外,还必须遵守通用的职业性的安全规则与当地安全法规和条例。
- 6. 应防止所设计的安全装置、安全操作说明被损坏。
- 7. 应防止机器上的明显标志被破坏。
- 8. 安全标识、安全装置不能满足安全要求时,应立即修复或排除。
- 9. 应保持机器工作场所干净、整齐。不要在机器或安全范围内暂放影响安全操作的任何物品。
- 10. 电气设备的安装或维修必须由有资格的人员进行。机器必须可靠接地, 防漏电危险。在任何电气安装或维修之后, 应对电气安全特性方面进行测试。
- 11. 操作者不要穿松散衣服;袖口要紧扣;长发者戴工作帽;不得戴手套操作。 工作时最好不要戴珠宝等饰物。在需要时,应戴好眼睛、耳朵劳保用品。
- 12. 开机前必须检查所有的安全装置是否可靠。
- 13. 在下列情况之前, 机器电源开关应处于关的位置, 并挂警示牌:
 - ①、检查、测量时;
 - ②、做维护、保养、设置工作时;
 - ③、取下保护罩时:
 - ④、打开门或盖观察内部情况时;
 - ⑤、离开机器时。
- 15. 操作过程中严禁去掉任何安全罩盖, 严禁启动安全保护装置不完好的机器。



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- 16. 严禁触动机器运转中或没有完全停止运转的零部件,严禁在机器运转时或 没有完全停止运转时拆卸机器上的任何零部件。
- 17. 机器运转中或未完全停止前,操作者不得离开。
- 18. 机械或电器维修,必须先切断电源。
- 19. 机器定期每天清洁,每开机前检查机器有无异常或固定螺丝有无松开。
- 20. 收到机器时先检查机器在运输过程中有无受损,如果受损,应先把它记录下来,并尽快告知交运货物方。
- 21. 除非检修机器, 电器箱门不要随意打开, 以防灰尘进入, 造成故障。
- 22. 不要用汽油、有机溶剂来清洁机器。
- 23. 遇到紧急情况,请按急停开关,使机器停止。
- 24. 操作、维护、安装本机器的人员,必须仔细阅读本说明书,熟悉本机器的 结构、性能。否则所造成的设备及伤害事故,后果自负。

The operation, care and maintenance of the high-speed box opener (8 servo model) must be carried out by fully trained and qualified personnel who must be familiar with the characteristics, functions and safety rules of the machine.

- 1. Every approved operator or maintenance and maintenance personnel must carefully study this manual before operating the machine and thoroughly understand it.
- 2. Operators must comply with all the safety operating procedures and maintenance rules of the machine.
- 3. The high-speed box opener (8 servo model) is a special equipment designed for fast box opening and labor cost saving. It is not allowed to be used for other purposes. Preventing misuse should be considered.
- 4. Safety content includes: safety instructions, safety rules, accident prevention and correct operation of safety signs, etc.
- 5. In addition to the safety rules in this manual, general occupational safety rules and local safety laws and regulations must also be observed.
- 6. The designed safety devices and safety operating instructions should be prevented from being damaged.



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- 7. The obvious signs on the machine should be prevented from being damaged.
- 8. When the safety signs and safety devices cannot meet the safety requirements, they should be repaired or eliminated immediately.
- 9. The machine workplace should be kept clean and tidy. Do not temporarily place any items that may affect safe operation in the machine or safety range.
- 10. The installation or maintenance of electrical equipment must be performed by qualified personnel. The machine must be reliably grounded to prevent leakage hazards. After any electrical installation or maintenance, the electrical safety characteristics should be tested.
- 11. Operators should not wear loose clothes; cuffs should be tightly buttoned; people with long hair should wear work hats; gloves should not be worn during operation. It is best not to wear jewelry and other accessories when working. When necessary, eye and ear protection equipment should be worn.
- 12. All safety devices must be checked for reliability before starting the machine.
- 13. Before the following situations, the machine power switch should be in the off position and a warning sign should be hung:
 - ①, when checking and measuring;
 - ②, when doing maintenance, maintenance, and setting work;
 - ③, when removing the protective cover;
 - ④, when opening the door or cover to observe the internal situation;
 - (5), when leaving the machine.
- 15. It is strictly forbidden to remove any safety cover during operation, and it is strictly forbidden to start the machine with incomplete safety protection devices.
- 16. It is strictly forbidden to touch the parts of the machine when it is running or has not completely stopped. It is strictly forbidden to remove any parts on the machine when the machine is running or has not completely stopped.



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- 17. The operator shall not leave the machine when it is running or before it has completely stopped.
- 18. The power supply must be cut off before repairing the machine or electrical appliances.
- 19. The machine should be cleaned regularly every day, and the machine should be checked for abnormalities or loosening of the fixing screws before each start-up.
- 20. When receiving the machine, first check whether the machine has been damaged during transportation. If it is damaged, it should be recorded first and informed as soon as possible.
- 21. Unless the machine is being repaired, the door of the electrical box should not be opened at will to prevent dust from entering and causing malfunctions.
 - 22. Do not use gasoline or organic solvents to clean the machine.
- 23. In case of emergency, please press the emergency stop switch to stop the machine.
- 24. Personnel who operate, maintain, and install this machine must read this manual carefully and be familiar with the structure and performance of this machine. Otherwise, the equipment and injury accidents caused shall be borne by themselves.

二、设备简介 Equipment Introduction

2.1 设备概述

高速开箱机(8 伺服款)是基开箱、封底、自动贴胶, ,气动吸盘为一体的高速开箱机(8 伺服款)设,使用者提供更加快捷的开箱效率,运用华秀智能独家技术和精密机械技术,通过自动感应纸箱完成自动开箱设备,实现对纸箱的稳定高效封箱; 采用自动化控制,手动调节和自动调节,充分显示人性化操作理念。

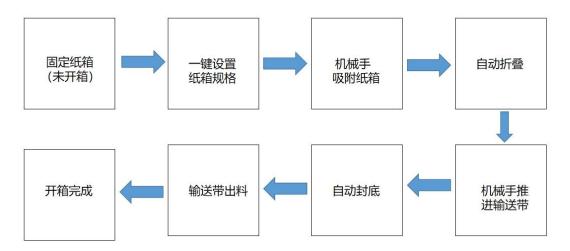
2.1 Equipment Overview



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The high-speed unboxing machine (8 servo models) is a high-speed unboxing machine (8 servo models) that integrates unboxing, sealing, automatic gluing, and pneumatic suction cups, providing users with faster unboxing efficiency. It uses exclusive technology from Huaxiu Intelligent and precision mechanical technology to automatically detect cardboard boxes and achieve stable and efficient box sealing; Adopting automated control, manual and automatic adjustment, fully demonstrating the concept of humanized operation.

生产工序流程:



2.2 设备简图(此图仅供参考,设备以实物为准)

Equipment diagram (this diagram is for reference only, the actual equipment shall prevail)



华秀智能 HUA XIU ZHI NENG

华秀智能科技(东莞)有限公司

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2.3 环境要求 Environmental Requirements

注意! 机器必须防止湿气。不允许放置于户外。

- 1) 机器不能安装在有腐蚀性或易燃气体的环境中, 预防机器损坏;
- 2) 机器的安装处不能受到强微波、紫外线、激光、X 射线的辐射,以免造成误动作和加速 绝缘老化;
- 3) 机器的安装处避免受到振动,碰撞和冲击,远离振源安装;
- 4) 机器的安装处避免雨淋的地方,禁止安装在露天的地方。

be careful! The machine must be protected from moisture. It is not allowed to be placed outdoors.

- 1) The machine cannot be installed in environments with corrosive or flammable gases to prevent damage to the machine;
- 2) The installation location of the machine should not be exposed to strong microwave, ultraviolet, laser, and X-ray radiation to avoid misoperation and accelerated insulation aging;
- 3) The installation location of the machine should avoid vibration, collision, and impact, and be installed away from the vibration source;
- 4) The installation location of the machine should avoid being exposed to rain, and it is prohibited to install it outdoors.

2.4 设备运输 Equipment transportation

- 1)每台设备地脚处均安装有脚轮,在平地转运时,可以将脚杯收起,脚轮接触地面进行转移,
- 2)主机部分可以通过叉车进行转运,转运时需要对叉车进行软保护,叉车承载力大于 2.5 吨,注意叉车在设备重心位置,转运时平稳
- 1) Each device is equipped with casters at the foot, which can be retracted when transported on flat ground. The casters touch the ground for transfer,
- 2) The host part can be transported by forklift, and soft protection is required for the forklift during transportation. The forklift has a carrying capacity greater than 2.5 tons, and attention should be paid to



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placing the forklift at the center of gravity of the equipment for smooth transportation

2.5 设备主要配置

2.5 Main Equipment Configuration

主要配置 Main configuration			
序号 Serial	部件名称	数量	备注
Number	Component Name	number	notes
1	开箱机械手	1 台	
	Open box robotic arm		
2	上下封机芯	1 个	
	Upper and lower sealed		
	movement		
3	PLC 高清系统	1台	
	PLC high-definition		
	system		
4	箱库料架	1 台	
	Box storage rack		
5	开箱机	1 条	
	case erecting machine		

主要电气元件项目

Main electrical component projects

序号	部件名称	数量	备注
Serial	Component Name	number	notes
Number			
1	气缸	2 个	
	cylinder		
2	触控屏	1 个	
	Touch screen		
3	感应器	5 个	
	a sensor		
4	信捷伺服 servo	8 个	
5	按键 key	4 个	
6	电池阀 Battery valve	3 个	
7	三联件 Fr I	2 个	tracheal system



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8	电箱 electric box	1 个	
9	风扇 fan	2 个	
10	PCL	1 个	

三、主要技术参数

序号 Serial	名称 name	规格
Number		specifications
1	生产厂家 Manufacturer	华秀科技 Huaxiu Technology
2	品名 Name	高速自动开箱机(8 伺服款)
		High speed automatic unboxing machine
		(8 servo models)
3	型号 Model	50/60
4	功率/耗电 Power	2500W
5	效率 Efficiency	20-30 boxes/minute
6	电压 Voltage	220V
7	气压 Pressure	6公斤
8	重量 Weight	约 450kg
9	机器尺寸 Measure	263cm in length, 200cm in width, and
		140cm in height

四、原料与产品规格 Raw materials and product specifications

适用纸箱规格

Applicable carton specifications

序号	项目 project	规格参数 Specification parameters	
1	50 款	28-50cm in length, 15-40cm in width, and	
		15-45cm in height	



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2	60 款	Length 28-60cm, width 15-40cm, height
		15-50cm
3	胶带宽度 tape width	3-7. 5cm

五、设备配置及结构说明 Equipment configuration and structural description

5.1 配件清单 parts list

序号	Component Name	备注 notes
1	主机 host	1 台
2	开箱机芯 Unpacking mechanism	1 个

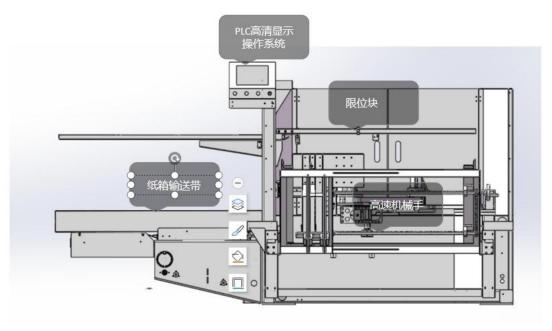
5.2 设备整体结构 Overall structure of the equipment

高速开箱机(8 伺服款)是基开箱、封底、自动贴胶,气动吸盘为一体的高速开箱机(8 伺服款)设,使用者提供更加快捷的开箱效率,运用华秀智能独家技术和精密机械技术,通过自动感应纸箱完成自动开箱设备,实现对纸箱的稳定高效封箱;采用自动化控制,手动调节和自动调节,充分显示人性化操作理念。

The high-speed unboxing machine (8 servo models) is a high-speed unboxing machine (8 servo models) that integrates unboxing, sealing, automatic gluing, and pneumatic suction cups, providing users with faster unboxing efficiency. It uses exclusive technology from Huaxiu Intelligent and precision mechanical technology to automatically detect cardboard boxes, achieving stable and efficient sealing of cardboard boxes; Adopting automated control, manual and automatic adjustment, fully demonstrating the concept of humanized operation.



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5.3 开箱机机芯 Unboxing machine core

机芯组是折盖封和四角封箱的重要组成部分,实现 对纸箱的标准封箱快速封箱,分别有两大,上下封和 四角边封机芯,分别实现上下封箱,四角边封。提高 封箱利用率,保证封箱的平整一致性,每段贴胶结束 都会有自动切割,能对各个纸箱状态进行检测,减少 人工成本。



The movement assembly is an important component of the folding cover and four corner box, achieving There are two standard quick sealing methods for cardboard boxes: top and bottom sealing Four corner edge sealed movement, achieving upper and lower box sealing and four corner edge sealing respectively. Increase Sealing utilization rate, ensuring the flatness and consistency of sealing, and the end of each section of adhesive pasting There will be automatic cutting, which can detect the status of each cardboard box and reduce Labor costs.

5. 4 开箱 PLC 操作系统

Unpacking PLC operating system 开箱工作中的操作系统

Operating system in unboxing work



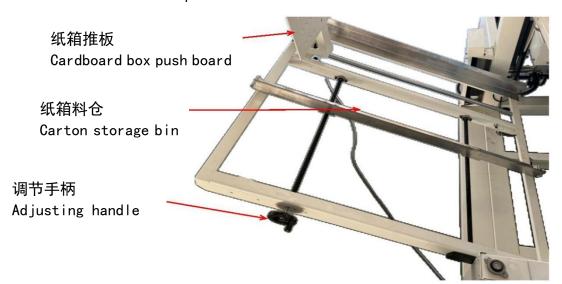


六、 使用操作说明 6、 Instructions for use and operation

6.1 箱库宽度调整 Box warehouse width adjustment

将纸箱放入箱库、调节手枘便箱库宽度台适放置纸箱

Place the cardboard box into the storage compartment and adjust the width of the compartment to fit the cardboard box on the table



6.2 压箱高度、皮带宽度调整 Adjustment of box height and belt width 先将一个底部成型、顶部未成型的纸箱放置在纸箱托板,根据纸箱宽度调节 皮带至合适的位置;后根据纸箱高度调节压箱板至合适的位置。

First, place a cardboard box with a formed bottom and an unformed top on the cardboard pallet, and adjust the belt to the appropriate position according to the width of the cardboard box; Adjust the pressure box board to the appropriate position according to the height of the cardboard box.





纸箱输送

压型板

6.3 摆杆位置调整 Adjustment of swing rod position 推动纸箱根据底部两侧箱页同时成型状态,用手转动摆杆至合适角度和高度, 调节完后拧紧螺丝, 防止摆杆松动。(见图 3.3)

Push the cardboard box according to the simultaneous molding status of the bottom two sides of the box pages, rotate the swing rod by hand to the appropriate angle and height, and tighten the screws after adjustment to prevent the swing rod from loosening. (See Figure 3.3)



6.4 箱库高度调整 Container height adjustment



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放置纸箱至料库,以调好横梁为基准,根据纸箱的总高调节料库升降手柄至 合适的位置。

Place the cardboard box in the material warehouse, use the adjusted crossbeam as a reference, and adjust the material warehouse lifting handle to the appropriate position according to the total height of the cardboard box.

顶部挡箱子衡 Top blocking box scale

料架宽度 调节手柄 Material rack lifting and adjusting handle



6.5 限位块调整 Adjustment of limit block 调节限位块和限位钉分别到纸箱边缘和纸箱折边中线位置。

Adjust the limit block and limit nail to the edge of the cardboard box and the centerline of the cardboard box fold, respectively.



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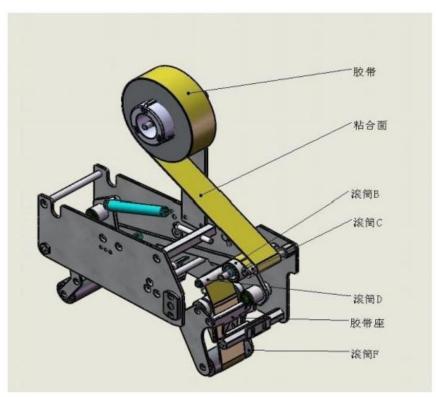
6.6开箱机机芯胶带安装要求 Installation requirements for tape of unboxing machine core

首先,将新 OPP 胶带卷放入芯轴上,如图所示 第二,拉出胶带,绕过滚筒 C 再绕过滚筒 B,第三,绕过滚筒 D,最后将胶带穿过胶带座 E 从滚筒 F 穿出,如下图所示。在整个过程中一定要注意,胶带的粘性面一定要朝外。

Firstly, place the new OPP tape roll onto the core shaft as shown in the figure Secondly, pull out the tape and wrap it around drum ${\tt C}$

Wrap around drum B, then around drum D, and finally pass the tape through tape holder E and out of drum F, as shown in the following figure

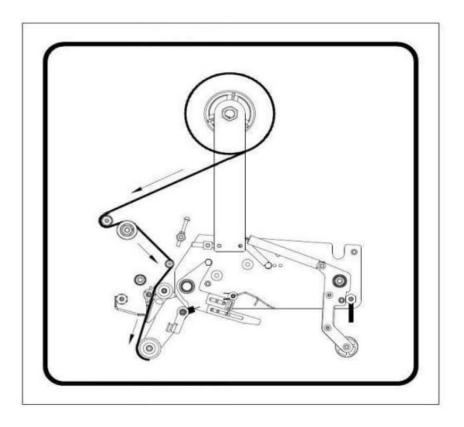
Show. Throughout the process, it is important to note that the adhesive surface of the tape must face outward.



6.7 胶带安装示意图 Installation diagram of tape



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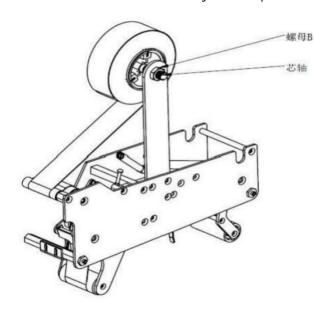


6.8 胶带位置调整胶带位置调整

如果胶带不在箱子的中心线上,请参照下图进行调整:松开螺母 B. 然后用螺丝刀调整心轴,从而可以调整胶带位置。

If the tape is not on the center line of the box, please adjust it according to the following diagram: loosen nut B, and then use

Adjust the spindle with a screwdriver to adjust the position of the tape.





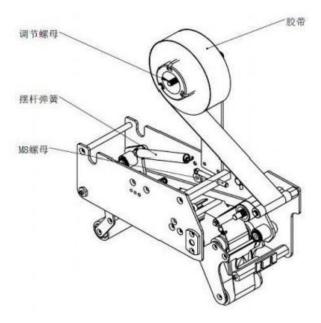
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6.9 胶带张力调整 Tape tension adjustment

旋转旋钮,可以使胶带卷转速适中,并调松开螺母 M8,调整螺钉 M8×50 的前后位置,改变摆杆长拉簧的弹力,从而控制胶带张力的大小.顺时针旋转旋钮,胶带张力变大,反之变小;螺钉 M8×50 向前调整,胶带张力变大,反之变小。

Rotate the knob to adjust the tape roll speed appropriately, loosen the nut M8, and adjust the front of the screw M8 imes 50

Adjust the tension of the adhesive tape by changing the elasticity of the long tension spring of the swing rod in the rear position Rotate the knob clockwise, glue The tension increases, and vice versa; When the screw M8x50 is adjusted forward, the belt tension becomes larger, and vice versa.



6.10 封箱胶带异常排除说明 Explanation for troubleshooting abnormal sealing tape

异常状态 abnormal state	原因 reason	排除方法 Troubleshooting
胶带切不断	刀片已不锋利或胶带膜卡	更换刀片;擦干净刀片及
Tape cutting continuously	住刀尖	上油
	The blade is no longer	Replace the blade; Clean
	sharp or the tape film is	the blade and
	stuck	Oil up
	Stay at the tip of the knife	
胶带切不断	刀片不够锋利	更换刀片;擦干净刀片及
Tape cutting continuously	刀尖被粘合剂堵塞	上油
	The blade is not sharp	Replace the blade; Clean



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	enough	the blade and
	The tip of the knife is	Oil up
	blocked by adhesive	
胶带已切断但拖一节	刀座被卡住,动作不灵活 检	检查贴带器各部位螺丝,
The tape has been cut but	查贴带器各部位螺丝,	或弹簧不够紧
dragged one section	或弹簧不够紧	Check the screws of each
	The knife holder is stuck	part of the tape
	and the movement is not	applicator,
	flexible. Check the screws	Or the spring is not tight
	of various parts of the	enough
	tape applicator,	
	Or the spring is not tight	
	enough	
胶带有切断但未贴合箱面	主拉簧太松,后轮反弹速 适	适度无法与皮带速度吻合
The tape has been cut but	度锁紧主拉簧螺丝	Moderate cannot match the
not adhered to the surface	The main tension spring is	belt speed
of the box	too loose, and the rear	
	wheel rebound speed is	
	moderate. Lock the main	
	tension spring screw	
	tightly	
纸箱走至中间被卡住不动	主拉簧太紧,前轮被陷在中间	适度放松胶带轮主拉簧
The cardboard box got	The main tension spring is	Moderately relax the main
stuck in the middle and	too tight, and the front	tension spring of the tape
couldn't move	wheel is stuck in the	roller
	middle	
胶带容易落	单向滚轮失去效能	更换新单向滚轮
Tape is prone to falling	The one-way roller loses	Replace the one-way roller
off	its effectiveness	with a new one
封箱后箱体偏歪及箱盖错角		封箱前,箱盖折平后两侧
The box body is skewed and		箱盖应与箱体对齐平行才
the box cover is		可推入封箱机进行封箱
misaligned after sealing		Before sealing the box,
		fold the lid flat on both
		sides
		The box cover should be
		aligned parallel to the box
		body
		Can be pushed into the
		sealing machine for
		sealing
封箱后纸箱后段上的胶带		调 节 贴带器上的螺母 M8
有皱纹或贴附下来的胶带		增大的拉力,如图 9 所示
没有平整		Adjust the nut M8 on the



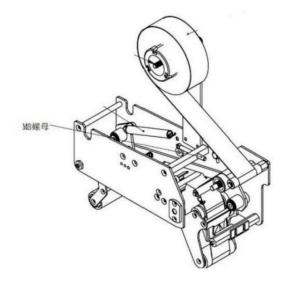
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Tape on the back section of	tape applicator
the cardboard box after	Increased tensile force
sealing	
Wrinkles or adhesive tape	
attached	
Not flat	

旋转旋钮,可以使胶带卷转速适中,并调松开螺母 M8,调整螺钉 M8×50 的前后位置,改变摆杆长拉簧的弹力,从而控制胶带张力的大小.顺时针旋转旋钮,胶带张力变大,反之变小;螺钉 M8×50 向前调整,胶带张力变大,反之变小。

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七、操作说明 Operating instructions

7.1 操作页面 Operation page

打开设备

Open the device login page with operator password 66666



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7.2 操作员使用说明 Operator Instructions



第一步;打开操作页面,点击产品号下方序号

Step 1: Open the operation page and click the serial number below the product number



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选择一项 全新的数据点击应用按钮

Select a new data and click the Apply button



点击主

页面操作规格

Page Operation Specifications



7.3 操作员设置规格 Operator sets specifications



分别输入纸箱规格 长、宽、高单位 MM(毫米)

Enter the carton specifications in length, width and height (mm)



依次输入对应的规格即可

Enter the corresponding specifications in sequence



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输入完成后点击 生成数据按钮 After entering the data, click Generate Data.

然后点击 数据保存按钮 Then click the Save Data button



返回主页面 Back to main page

设置完成 长按启动设备 Setting completed Long press to start the device





设备自动 适应他设置好的纸箱规格

The equipment automatically adapts to the carton specifications he has set (设备启动之后,会进行回零调成,回零之后会停止运行请勿操作,料架请勿防止纸箱,以免设备运行起来造成设备故障)

(After the equipment is started, it will be reset to zero. After it returns to zero, it will stop running. Please do not operate it. Do not place cartons on the material rack to avoid equipment failure when the equipment is running.)





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将纸箱放入指定位置后,点击固定好定位块,可定位线

再次点击启动按钮 可进行纸箱开箱。

After placing the carton in the designated location, click to fix the positioning block to position the line. Click the start button again to open the carton.



机器启动条件

- 1点击回零等待回零完成《回零中》
- 2点击启动按键机器运行《实体按键有效》
- 3点击停止运行机器停止《实体按键有效》
- 4点击清错清除报错信息

点击规格可设置纸箱 长度/宽度/高度尺寸/底边点击使能按键 设备校准可回主页进行开箱工作微调细节主页面可以进行操作

Machine start conditions

- 1 Click return to zero and wait for return to zero to complete "Return to zero"
- 2 Click the start button to run the machine "Physical button is valid"
- 3 Click stop to stop the machine "Physical button is valid"
- 4 Click clear error to clear error information
- Click the specification to set the carton length/width/height size/bottom edge.



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Click the enable button to calibrate the device. You can return to the home page to perform unpacking work and fine-tune the details. The main page can be operated

7.4 操作员规格切换 Operator specification switching

产品名,记录各种尺寸纸箱档案选择对应当前纸箱的配方档案来生产!没有记录的档案
Product name, record various sizes of carton files, select the corresponding formula
file for the current carton to produce! No recorded file



可存储多种规格纸箱尺寸切换快速生产无需修改参数操作员无权修改添加配方只负责生产 工作规格页面设置完成后,可在配方页面进行保存,可存多种规格纸箱尺寸,随时切换尺寸 形式 右下角可备注名称和修改名称,

Can store various carton sizes, switch quickly for production without modifying parameters. Operators have no right to modify and add recipes, only responsible for production. After the specification page is set, it can be saved on the recipe page. Can store various carton sizes, switch size formats at any time. The name can be noted and modified in the lower right corner.





纸箱规格设置完成后 点击生成数据,再点击数据保存按键,进行参数储存。切换纸箱尺寸:点击数据记录名,保存的尺寸以此类推,可以选择相应的尺寸进行生产工作。点击下载到触摸屏,点击保存,点击关闭可以回到主页进行启动,设备自动切换长度,宽度高度自动进行After the carton specifications are set, click Generate Data, then click the Data Save button to store the parameters. Switch carton size: Click the data record name, and the saved size and so on, you can select the corresponding size for production. Click Download to the touch screen, click Save, click Close to return to the home page to start, the device automatically switches the length, width and height automatically

7.5 操作员监控 Operator monitoring



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监控监测各个外部感应器和控制 单元输入输出时时状态

日志 记录所报警信息查看

Monitor and monitor the real-time status of input and output of various external sensors and control units

Viewing the alarm information recorded in the log

7.6 操作员说明 Operator Instructions

设备启动《数据修正》

此页面可调节, 纸箱封箱遇到一些问题, 以及调解方法

- 1. 待机定位: 可调节机械手位置为默认位置。
- 2. 取料定位: 可调节纸箱距离机械手的距离。
- 3. 折边定位:可调节机械手折起纸箱的位置。
- 4. 出料定位:可调节纸箱成型后机械手送入皮带输送线的位置
- 5. 纸箱高度: 可调节料架位置距离展开纸箱的距离。
- 6. 料架伺服: 可调节料架的高低控制位置
- 7. 纸箱宽度:可调节纸箱开箱过程送入皮带的输送线,输送线的宽度大小。
- 8. x- x+ y- y+ 分别可调节机械手的上下左右位置。



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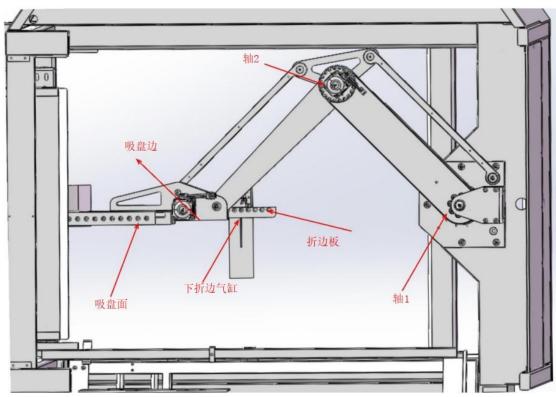
Equipment startup "Data Correction"

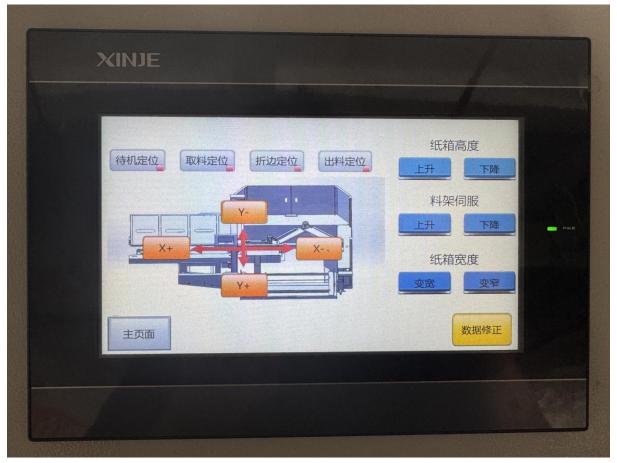
This page can be adjusted, some problems encountered in carton sealing, and mediation methods

- Standby positioning: The position of the manipulator can be adjusted to the default position.
- 2. Material picking positioning: The distance between the carton and the manipulator can be adjusted.
- 3. Folding positioning: The position where the manipulator folds the carton can be adjusted.
- 4. Discharging positioning: The position where the manipulator feeds the carton into the belt conveyor line after the carton is formed can be adjusted
- 5. Carton height: The distance between the material rack position and the unfolded carton can be adjusted.
- 6. Material rack servo: The height control position of the material rack can be adjusted
- 7. Carton width: The width of the conveyor line where the carton is fed into the belt during the unpacking process can be adjusted.
- 8. x-x+y-y+ can adjust the up, down, left, and right positions of the manipulator respectively.



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7.7 操作员设置定位教程 Operator Setting Positioning Tutorial 设备开机一键启动,长度宽度高度可一键调节,1-13 种纸箱尺寸,可保存参数,随时切换 待机点拖拽手臂到不妨碍纸箱的空余位置,配方档案就完成了,点击编号就可切换配方!由此 类推可添加各类纸箱尺寸规格

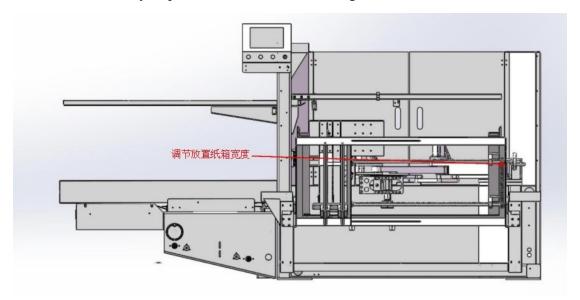
The equipment can be turned on with one button, and the length, width and height can be adjusted with one button. There are 1-13 carton sizes, and the parameters can be saved and switched at any time. Drag the arm to a free position that does not interfere with the carton, and the recipe file is completed. Click the number to switch the recipe! By analogy, various carton size specifications can be added

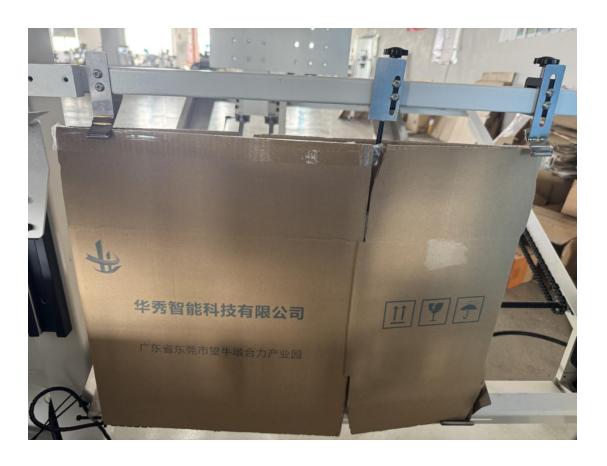




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配方切换机械部位需要手动调整《如图示》The mechanical parts for formula switching need to be manually adjusted as shown in the diagram

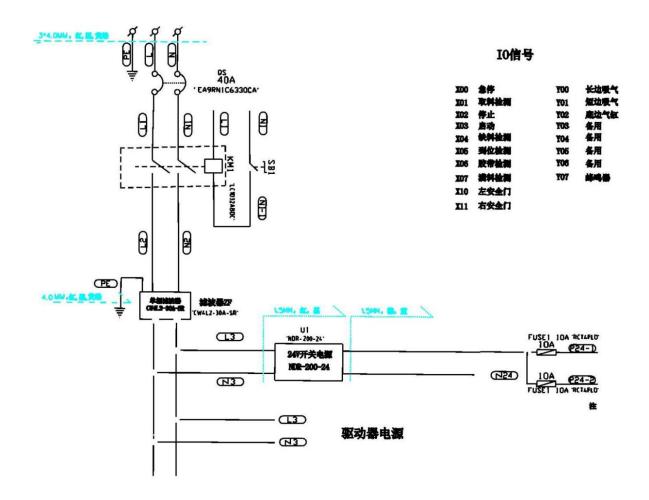






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八、电路解析 Circuit analysis



图例及备注:Legend and Remarks

1. 电线、电缆型号及标准 Wire and cable models and standards

DY 电缆类型 Cable Type BVR 电缆类型 Cable Type

1-01 电线编号 Wire number 2x 电线根数 Number of wires

1.0MM 单根电线横截面积 0MM single wire cross-sectional area

①电线类型: DY 表示电源线:XH 表示信号灯

Wire type: DY represents the power cord: XH stands for signal light

②) 电线型号: BV 表示硬心电线; BVR 软心电线 BVV 表示硬心双绞电线; RVVP 屏蔽电缆

2 Wire model: BV stands for hard core wire; BVR soft core wire

BVV stands for hard core twisted pair wire; RVVP shielded cable

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九、维护与保养 maintenance

9.1 设备维护 Equipment maintenance

为机械性能的维持以及寄希望的安全着想,并顾及生产技能的提高请常做以下各项检查:

- (1) 保持整机的清洁, 特别是在粉尘较重的工作环境中, 应定期对本机械的进行维护与保养;
 - a) 清洁机器前,须得关闭机器电源;
 - b) 用干净捻湿的抹布擦拭机器工作台面及外表面
 - c)用压缩空气清除鼻线部分的磨损尘粉
- (2) 给油: 各齿轮、链轮部分,涂上黄油,并补充或更换黄油;
- (3) 去除各轮轴间杂污物;清除齿轮间异物;
- (4) 各机构间结合螺母、螺丝是否松动,尤其是可调整部分的螺丝;
- (5) 传动齿轮与链轮等组合是否有松动或异常;
- (6) 各部分是否有损伤、变形、异常声音或其他的异状;
- (7) 操作面板上的开关机指示灯是否有异常状况;
- (8) 若机器上有防锈油,请务必清除,机器传动部位润滑处及注油部分要定期加注润滑油, 保持良好的运行状态。
- (9) 本机使用电源线路,请参照电气回路图装配保证机壳有效接地,防止出现静电或漏电, 杜绝人身安全事故发生。不要在指定环境之外的条件下使用机器。
- For the maintenance of mechanical performance and the safety of hope, while considering the improvement of production skills, please regularly perform the following checks:
- Keep the entire machine clean, especially in dusty working environments, and regularly maintain and upkeep the machinery;
- a) Before cleaning the machine, the power supply must be turned off;
- b) Wipe the machine workbench and outer surface with a clean and damp cloth
- c) Use compressed air to remove worn dust and powder from the nose line section
- (2) Oil supply: Apply butter to each gear and sprocket part, and replenish or replace the butter;
- (3) Remove impurities between each wheel axle; Remove foreign objects between gears;



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- (4) Are the nuts and screws connecting various institutions loose, especially the screws in the adjustable parts;
- (5) Is there any looseness or abnormality in the combination of transmission gears and sprockets;
- (6) Are there any damages, deformations, abnormal sounds, or other abnormalities in each part;
- (7) Is there any abnormal condition with the power on/off indicator light on the operation panel;
- (8) If there is rust proof oil on the machine, please be sure to remove it. The lubrication and oil injection parts of the machine transmission should be regularly lubricated to maintain good operating conditions.
- (9) This machine uses power circuits. Please refer to the electrical circuit diagram for assembly to ensure effective grounding of the casing, prevent static electricity or leakage, and prevent personal safety accidents. Do not use the machine under conditions outside the specified environment.

9.2 定期检查 regular inspection

作业期间机器应每星期实施一次,除每天检查要项外,须施行下列检查:

- 1. 电子箱内的粉、灰尘要用吸尘器或软毛刷清除粉尘,
- 2. 外部电器配线检查。外部电源是否有变形、损伤、漏电或短路状况
- 3. 操作面板开关检查。面板按钮,接点是否导通,是否与油污附着
- 4. 控制盘内继电器的各接点是否良好
- 5. 伺服系统的检查。伺服系统应避免尘埃及腐蚀性物质,环境温度应保持至适
- 6. 齿轮、链轮磨损检查
 - 转动及动作是否有磨耗
 - 是否有油污附着
 - 接触部分是否磨耗

During the homework period, the machine should be inspected once a week. In addition to the daily inspection items, the following inspections must be carried out:



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- The powder and dust inside the electronic box should be cleaned with a vacuum cleaner or soft bristled brush,
- 2. Inspection of external electrical wiring. Is there any deformation, damage, leakage or short circuit in the external power supply
- 3. Check the operation panel switch. Whether the panel buttons and contacts are conductive and whether they are attached to oil stains
 - 4. Are the contacts of the relays in the control panel in good condition
- 5. Inspection of servo system. The servo system should avoid dust and corrosive substances, and the ambient temperature should be maintained at an appropriate level
 - 6. Gear and sprocket wear inspection
 - Is there any wear on the rotation and movement
 - Is there any oil contamination attached
 - Is the contact part worn

9.3 注意事项 precautions

- 1) 使用本机前,须详读本手册,并了解全部内容与指示。
- 2) 机器需确认完成安装及必要的调整动作后,才能操作。
- 3) 启动前需确认在机器所有台面没有放置任何工具或器物。
- 4) 电源未关闭,不得触摸机器内部及电气设施。
- 5) 机器在运转中,操作者不得离开机器工作范围。
- 6) 非经本公司许可,不得任意改装机器,或在机器上接装任何非本公司认可的装置、刀具或周边设备,以免发生危险。
- 7) 在使用本机出现故障时,立即关闭电源开关,以免损坏电子箱内电子原件及相关子程序 配置,并及时同我公司售后服务部取得联系。
- 8) 切忌自行打开电子箱,如有违背因此产生的一切损失均自行承担。
- 9) 移动本机时,需轻拿轻放,安装要平稳。使机器能在最佳的条件下工作。
- 10) 注意维护本机清洁卫生,用干净的软布轻轻擦拭。注意!不得用化学原料及硬物清洁擦 拭电箱、机身,机身表面涂装乃静电粉沫烤制,一经损坏非油漆可补。
- 11) 本机维护时严禁带电操作,避免人为人身安全。
- 12) 机器工作时,严禁用手接触切刀及模具,避免高温烫伤和压伤。



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- 13) 机器的部件都不得随意增加和拆除,不得移用其它劣质配件更换、代替,以免影响已调 试好的正常状态。
- 14) 无论正常工作条件下及待机时,都严禁将手放在切刀刀片下,避免人为人身安全。
- 15) 对终止工作或作某部分装置调整, 务必先关掉电源
- 16) 若检修气压装置,请先停止空压机并去除残留空气
- 17) 若检修或调整电磁、压力装置、启动器等,必须有专业人员操作
- 18) 1) Before using this machine, please read this manual carefully and understand all the content and instructions.
- 19) 2) The machine can only be operated after confirming the completion of installation and necessary adjustment actions.
- 20) 3) Before starting, it is necessary to confirm that there are no tools or objects placed on any countertops of the machine.
- 21) 4) Do not touch the inside of the machine or electrical facilities until the power is turned off.
- 22) 5) The operator must not leave the working range of the machine while it is in operation.
- 23) 6) Without the permission of our company, it is not allowed to modify the machine or install any non approved devices, tools or peripheral equipment on the machine to avoid danger.
- 24) 7) When a malfunction occurs while using this machine, immediately turn off the power switch to avoid damaging the electronic components and related subroutine configurations inside the electronic box, and promptly contact our company's after-sales service department.
- 25) 8) Never open the electronic box by yourself. Any losses incurred as a result of violation shall be borne by yourself.
- 26) 9) When moving the device, handle it gently and install it smoothly. Enable the machine to operate under optimal conditions.
- 27) 10) Pay attention to maintaining the cleanliness and hygiene of this machine, gently wipe it with a clean soft cloth. be careful! Do not use chemical raw



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materials or hard objects to clean and wipe the electrical box and body. The surface coating of the body is baked with electrostatic powder, and once damaged, it cannot be repaired with paint.

- 28) 11) It is strictly prohibited to operate the machine with electricity during maintenance to avoid personal safety.
- 29) 12) When the machine is working, it is strictly prohibited to touch the cutting blade and mold with hands to avoid high temperature burns and pressure injuries.
- 30) 13) The components of the machine shall not be arbitrarily added or removed, and other inferior parts shall not be replaced or substituted to avoid affecting the normal state that has been debugged.
- 31) 14) It is strictly prohibited to place hands under the cutting blade under normal working conditions and standby mode to avoid personal safety.
- 32) 15) Before terminating work or making adjustments to a certain part of the device, be sure to turn off the power first
- 33) 16) If repairing the air pressure device, please stop the air compressor first and remove residual air
- 34) 17) If repairing or adjusting electromagnetic, pressure devices, starters, etc., professional personnel must operate them

9.4 气控维护 Pneumatic maintenance

- 一般性的气控检修方法也很简单,但是在检修机器前你必须了解本机各部分的动作性能,了 解各控制位置点的功能,以防出现安全事故。
- 1. 本机气控组成部分: 气源处理器,电磁阀,气缸,气管组成一个气控回路系统。本机气控 回路与电控系统相关联组成各部件的动作要求,缺一不可
- 2. 一般性故障说明及解决方法

气源处理器故障

原因:一般不会出现故障除非人为的损坏或者使用时间超过年限,或者未保养造成漏气问题。排除方法:经常保养或更换新品

电磁阀故障

华克智能 HUA XIU ZHI NENG

华秀智能科技(东莞)有限公司

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原因:电磁阀里边堵塞,线圈烧坏,或者螺丝松动导致线圈与阀体接触不

良, 电磁阀活塞磨损, 导致内漏。

排除方法:修理或更换新品

气缸故障

原因: 气缸活塞磨损产生内漏, 使用超年限

排除方法:更换新品

以上为一般性排除方法,气控兀件的油润滑也很重要。

The general pneumatic control maintenance method is also very simple, but before repairing the machine, you must understand the operational performance of each part of the machine and the functions of each control position point to prevent safety accidents.

1. The components of the local pneumatic control system include the air source processor, solenoid valve, cylinder, and air pipe, forming a pneumatic control circuit system. The action requirements of each component related to the pneumatic control circuit and electronic control system of this machine are indispensable

2. General fault description and solutions

Air source processor malfunction

Reason: Generally, malfunctions do not occur unless they are caused by human damage, have been used for more than a certain period of time, or have not been maintained, resulting in air leakage problems.

Exclusion method: Regular maintenance or replacement with new products

Electromagnetic valve malfunction

Reason: Blockage inside the solenoid valve, burnt coil, or loose screws causing the coil to not make contact with the valve body

Good, the solenoid valve piston is worn, causing internal leakage.

Exclusion method: Repair or replace with a new product

Cylinder malfunction

Reason: Internal leakage caused by worn cylinder piston, exceeding the service life

Exclusion method: Replace with a new product

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The above are general exclusion methods, and oil lubrication of pneumatic components is also important.

9.5 售后服务: after-sale service:

请参照上述操作指令进行操作。若本说明书内容有任何不明了之处,或出现其它质量事故,请致电至生产厂家,以便得到更好的售后服务。

Please refer to the above operation instructions for operation. If there is any ambiguity in the content of this manual or if there are any other quality accidents, please call the manufacturer for better after-sales service.

9.6 附录 9.6 Appendix

设备保养计划表/Equipment Maintenance Schedule

序号	设备编号	设备名称	保养内容	保养周期	保养时间	保养人	完成情况
Serial	Equipment	Equipment	Maintenance	service	Maintenance	Maintainer	Completion
Number	number	name	content	interval	Time		status



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计划编制人:			审核人: 日期:		批准人: 日期:		
H 701.		H 70:		H 701:			

部门 年月日

十: 装箱单 packing list

装箱单 packing list					
序号	名称及规格	数量	备注		
Serial	Name and	number	notes		
Number	specifications				
	开箱机 case erecting machine	一台	500/600		
	机芯 Movement	一台	下封 Below seal		



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十一: 合格证 certificate of conformity

合格证明书

本产品检验合格, 准予出厂

设备名	称_	
型	号	
机身绳		
检 验	员	
日	期	

certificate of compliance

This product has passed the inspection and is allowed to leave the factory

Equipment name	
Model number	
Body number	
Inspector	
Date	