



斜臂式丝印机 使用说明书

High precision oblique Arm screen printing machine

OPERATION INSTRUCTION





● 前 言

欢迎您使用我司产品！

我司热诚为您提供满意优质产品,并希望您对我公司提出宝贵意见,以便与您共求发展、共创双赢。

我司是集研发、制造、销售、产品服务为一体的企业,专注烫金机,移印机,丝网印刷及辅助设备的开发和制造。我司技术力量雄厚、设备齐全、测试技术完善,拥有严谨的质量管理和完善的产品售后、技术咨询的服务体系。

我司产品的关键部件选用西门子、三菱、飞利浦、施耐德等日本、台湾、欧美国际知名品牌。产品质量可靠,性能稳定。

我司的主要产品为:

- ▲ 各类平面丝网印刷设备:烫金机,移印机;
- ▲ 网版制作、曝光及其辅助设备;
- ▲ 紫外线(UV)干燥工艺如磨砂、晶体冰花、皱纹、七彩宝石等设备;
- ▲ 红外线(IR)干燥设备;
- ▲ 各类丝网印刷油墨和辅助器材。

产品广泛适用于精密电子、印制线路板(PCB)、电脑键盘、陶瓷电路、薄膜开关电路、场致发光片(EL)、液晶显示片(LCD)、手机视窗镜片、IML、IMD、信号显示(LED)、陶瓷玻璃、CD光盘、铭板标牌、SMT锡膏、PVC、PET、PC胶片、广告、装璜、玩具、金属、皮革、塑料、无纺布袋、服装印花、烟、酒、茶、药、包装印刷等行业。

公司以“精益求精、不断创新”的质量及经营理念,孜孜不倦的追求精神,追求完美,跨越无限,与您携手共创美好未来。

● Foreword

Welcome to use our products!

Our company dedicate to provide you with satisfactory quality, and we hope you can give me some valuable advice, so that we can seek mutual development, and create a win-win situation.

Our company is high-technology enterprise focusing on pad printing machine, screen printing machines and hot stamping machine of developing, selling, manufacturing and service. Our company has strong technical experience, perfect processing machines, advanced testing technology and strict quality management control system.

Components of our products are imported from Japan's, Korea, America, and Euro such as Siemens, Mitsubishi,

高宝印刷机械科技有限公司

KC Printing Machine (Group) limited

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Philips, Schneider. Products is the first in the screen printing field in China with reliable quality and stable performance.

Our products are widely used in many fields such as: precise electron , packing, advertisement, nameplate , keyboard, toys ceramic, plastic, plastics CD discs , PCB, LCD , LED, PVC, PET, advertising decoration, toys, metal, leather, plastics, non-anti-bag, garment printing, tobacco, wine package , tea, medicine, packaging printing and so on.

● Main Parameters

Model	S-JY80120PV	S-JY70100PV	S-JY6090PV
Platform dimension(mm)	900*1300	800*1100	700*1000
Printing size(mm)	800*1200	700*100	600*900
Max printing screen frame(mm)	1100*1400	1000*1300	950*1200
Printing thickness(mm)	0~30mm	0-30MM	0-33MM
Adjustment (mm)	front and behind±10mm Left and right±10mm	front and behind±10mm Left and right±10mm	front and behind±10mm Left and right±10mm
Power Specifications	380V/50HZ	380V/50HZ	380V/50HZ
Power (W)	2.6KW	2.6KW	2.6KW
Printing pressure(kgf/c m ²)	6 kgf/c m ²	6 kgf/c m ²	6 kgf/c m ²
Dimension L*B*H(mm)	1750x1300x1210	1650*1200*1210	1450*1100*1210
weight(kg)	600kg	570kg	530kg

● 主要技术参数

机 型	S-JY6090PV	S-JY70100	S-JY80120PV
最大印刷台面积(mm)	700*1000	800*1100	900*1300
最大印刷面积(mm)	600*900	700*110	800*1200
最大网框安装(mm)	950*1200	1000*1300	1100*1400
承印物厚度(mm)	0-33MM	0-30MM	0~30mm
微调距离(mm)	front and behind±10mm Left and right±10mm	front and behind±10mm Left and right±10mm	前后±10mm 左右±10mm
电源规格	380V/50HZ	380V/50HZ	380V/50HZ
耗电量	2.6KW	2.6KW	2.6KW
气压(kgf/c m ²)	6 kgf/c m ²	6 kgf/c m ²	6 kgf/c m ²
机械外型尺寸(mm)	1450*1100*1210	1650*1200*1210	1750x1300x1210
机械重量(kg)	530kg	570kg	600kg

● 机械的安装

- 1、**安装固定位置：**将机械移至指定位置，调整机械的四个地脚至四个地脚轮离地。使工作平台与地面保持水平。（注意：安装时在机台左右及后方保留可出入调整的空间）
- 2、**气管安装：**用φ8cm 气管连接空气压缩机之出口，另一端连接机械右侧的油水分离器，调整调压阀使气压值为 6kgf/C m²。

3、**连接：**①本机输入为三相五线 380V。②在机械最近墙壁上安装相应容量的空气开关，将电缆线按照三相五线连接方法连接，并连接地线 PE。③连接电源时请注意电源的相线，电源相线接反会造成机械的损坏，所以一定要确认电源的相线是否正确。④确认电源相线的方法：将电源接好后，打开电源开关和风机开关，确认工作台是否吸气为正确。

● Machine installation

1.Fixed location: let the machine fix the specified location, adjusting the machine's four feet to the ground castors on the ground. To maintain a level of working platform with the ground. (Note: when you install the machine, please keep the adjustment space between the machine's left ,right and the front or behind 's space.

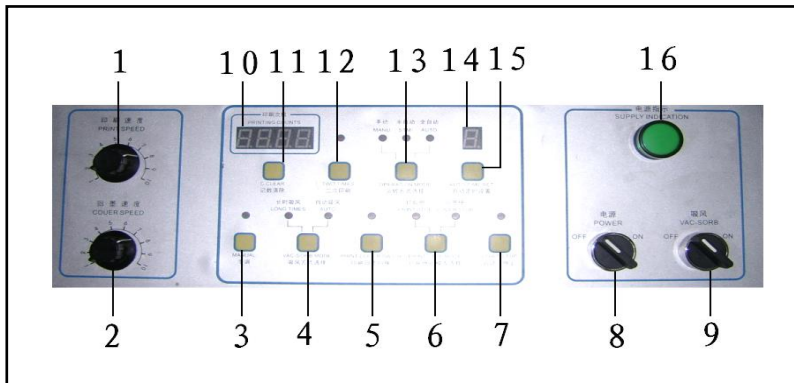
2, trachea install: use the $\phi 8\text{mm}$ trachea to connect with the export of air compressors and the other end to connect the right side of the oil-water separator machine, adjust the air pressure so that the value is $6\text{kgf} / \text{C} \text{ m}^2$.





3, connection: ① The machine input is three-phase five-wire 380V. ② Install the corresponding volume of air switch near the machine's wall and connect the ground wire PE. ③ When you connect the power, please notice the line, if the line connects not right, it will result in mechanical damage. so be sure to confirm the power of the phase line is correct. ④ Make sure the power phase approach: connect the power line well, open the power switch and fan switch, to confirm whether the stable suction or not.

● Control panel and operating instructions



Panel introduction

- 1、**Printing speed**: One to ten means it from small to largest one
- 2、**Cover speed**: One to ten that's means the speed from small to the largest one.



- 3、**Manual control**: The switch you don't control to use, the machine won't

Continue work (using on vertical screen printing machine)

- 4.**VAC-Sorb Mode**: you hit the left light means long time absorbing, or hit the right one means automatic

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absorbing.

5.Print Counter Switch:

When you hit the witch, the counter will be up , and when you hit the switch again, the counter will be down.

6.Print stop model: you can chose the counter stop in the front or behind.

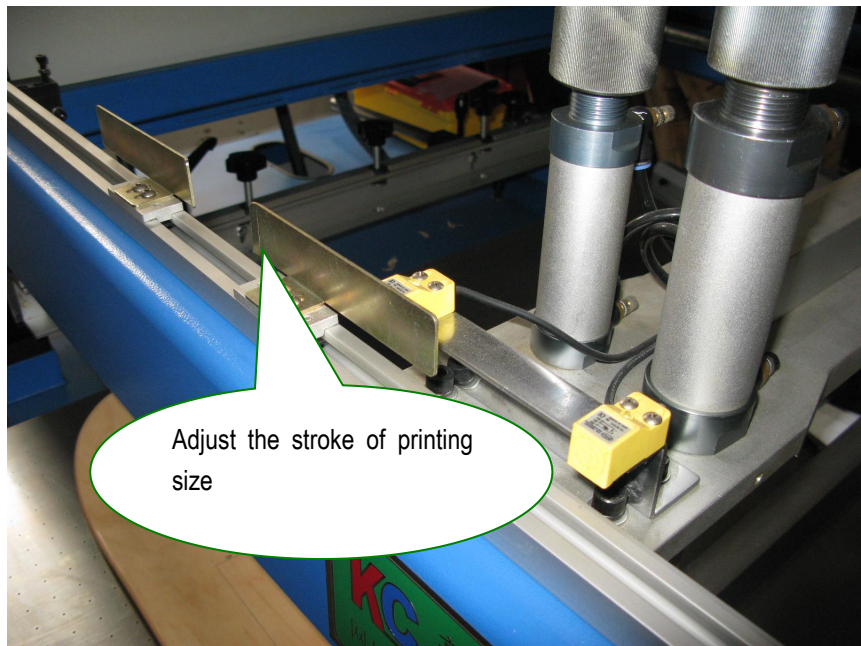
7.Start/Stop switch:

You can chose the print counter stop in the front or behind.

8.Power switch: OFF /ON

9.VAC-Sorb:off/on

10.Print accounts: you will see the printing times when the machine began to work



11.Counter Clear:

When you hit the switch, the number on it will become zero.

12.Two Time Print:

When you hit the second print witch it means the second print/

13.Operating mode: when the manual light turn on, each one is only means single step, when the semiautomatic light turn on, and means the work ways is semiautomatic and so on.

14.Stop Time: the machine print times

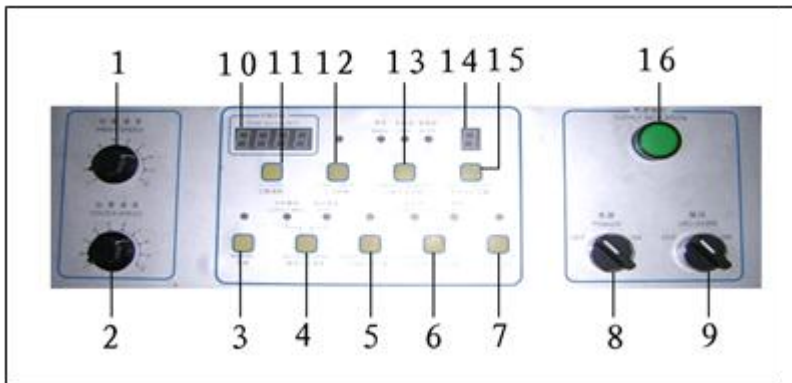
15. Time Set:

When you hit the switch, it means the stop time has changed

16. Power introduction:

The light turn on it means the work has turn on the power.

● 控制面板及操作说明



1、印刷速度旋钮:

---1 至 10 速度为从小到大。

2、回墨速度旋钮:

---1 至 10 速度为从小到大。

3、手调按钮: 该按钮在此机上不应用 (立式机型上应用)。

4、吸风方式选择按钮:





---按下按钮左灯亮为长吸风，按下按钮右灯亮为自动吸风。

5、印刷回墨切换按钮：

---按一下按钮为印刷刮刀下，回墨刀上；再按一下按钮印刷刮刀上，回墨刀下。

6、印刷停止模式选择按钮：

---可选择印刷回墨刀停前或停后。

7、启动停止按钮：

---该按钮可选择启动或停止。

8、电源开关：

---OFF 为关、ON 为开。

9、风机开关：

---OFF 为关、ON 为开。

10、印刷次数显示：

---半自动或全自动印刷时显示当前印刷的次数。

11、记数清除按钮：

---按下记数清除按钮，印刷次数归 0。

12、二次印刷按钮：

---按下二次印刷按钮灯亮为二次印刷

13、运转方式选择按钮：

---当手动灯亮时，各运转方式为单步；当半自动或全自动灯亮时，运转方式显示为半自动或全自动印刷。

14、印刷停顿时间显示：

---自动印刷间隔时间。

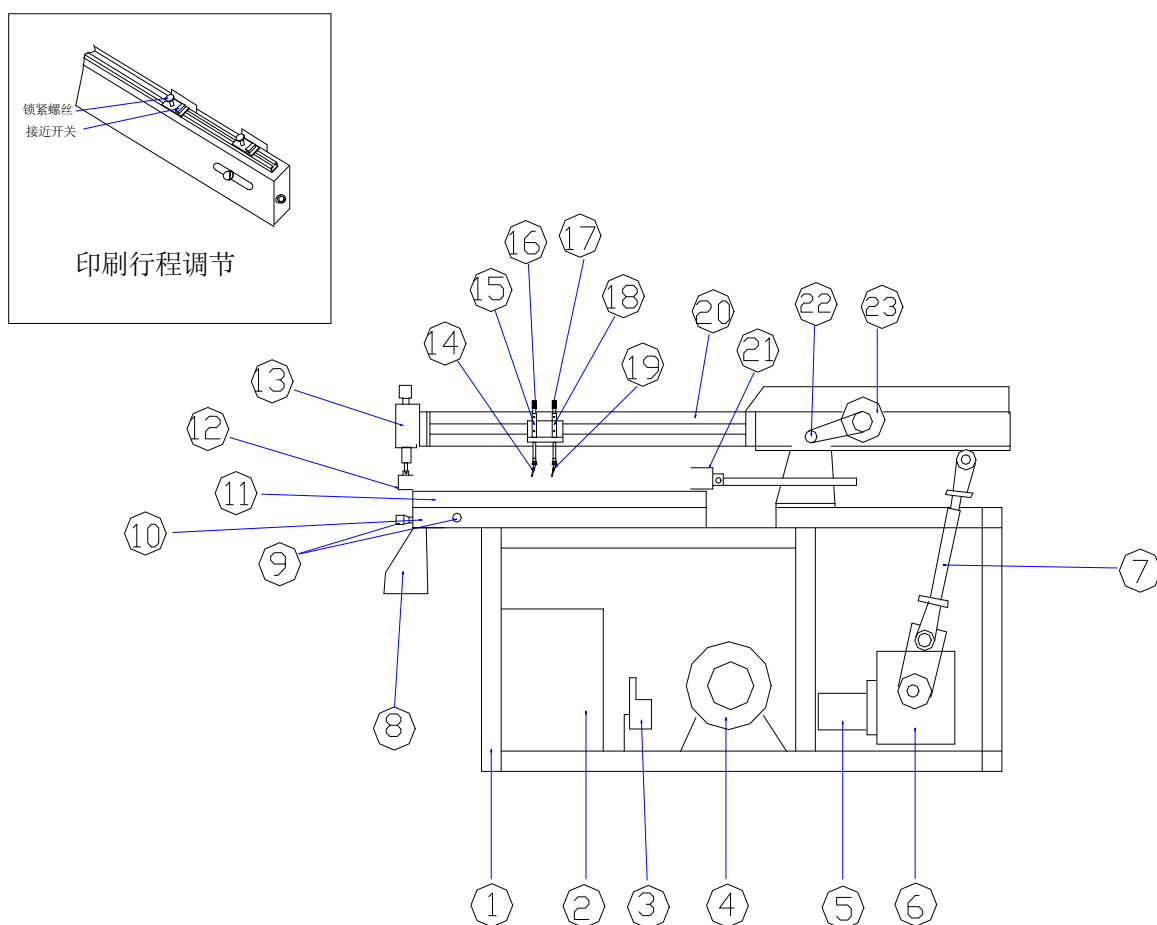
15、自动定时设置按钮：

---按下设置按钮停顿时间改变。

16、电源指示：

---灯亮为已开启电源。

● Mechanical Structure



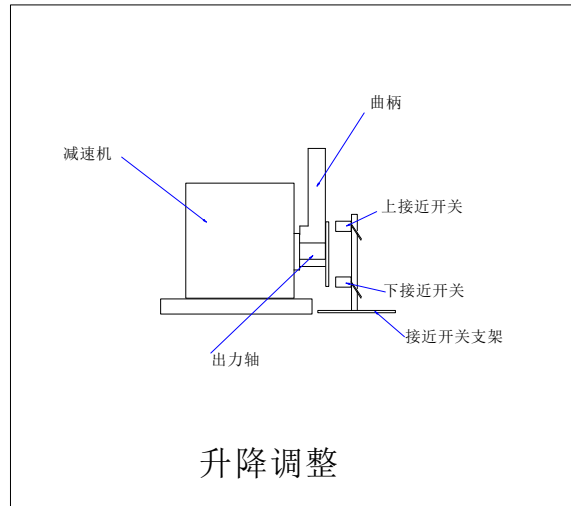
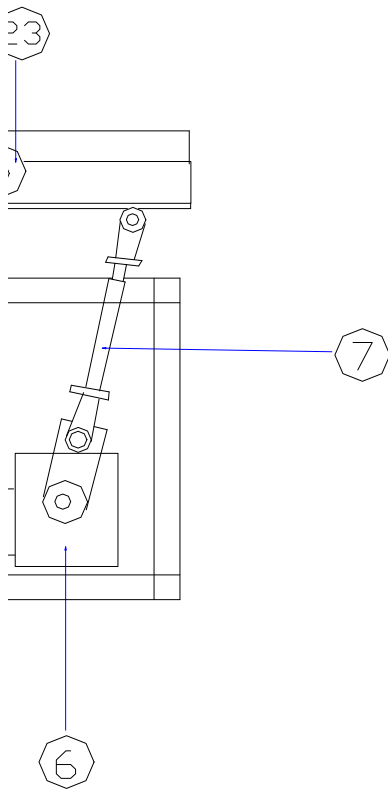
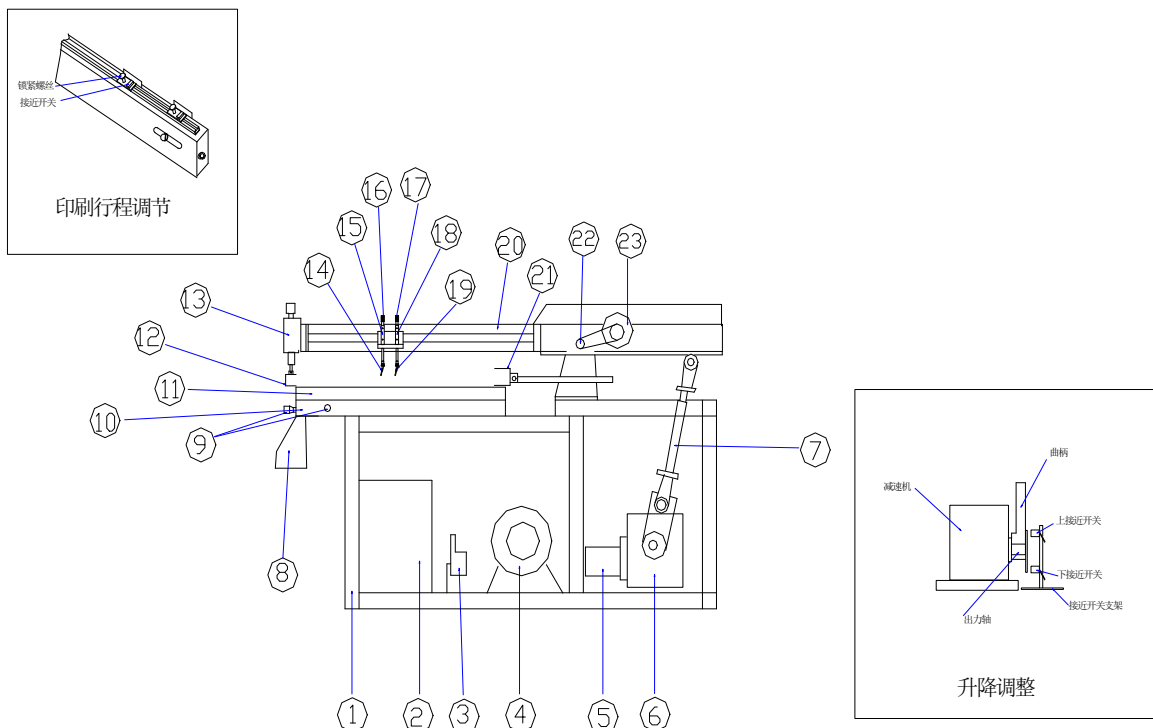


Chart instruction

- | | |
|--------------------------------|---|
| 1--rack | 13--off-grid installation |
| 2--electrical cabinet | 14--scraper |
| 3--solenoid valve | 15--Blade Cylinder |
| 4--Fans | 16--squeegee pressure adjustment handle |
| 5--Lift motor | 17--the ink cover adjustment handle |
| 6-Reducer | 18--ink cover cylinder |
| 7--lifting rod | 19--ink cover knife |
| 8--control box | 20--lifting frame |
| 9-- platform adjustment handle | 21--the behind network folder |
| 10--drag disc | 22--drive shaft |
| 11--platform | 23--printing motor |
| 12--the front network folder | |

● 机械结构图



图例说明

- | | |
|-----------|---------------|
| 1--机架 | 13--离网装置 |
| 2--电器柜 | 14--刮刀 |
| 3--电磁阀 | 15--刮刀气缸 |
| 4--风机 | 16--刮刀压力调节手柄 |
| 5--升降电机 | 17--回墨刀压力调节手柄 |
| 6--减速机 | 18--回墨刀气缸 |
| 7--升降连杆 | 19--回墨刀 |
| 8--控制箱 | 20--升降架 |
| 9--台板调节手柄 | 21--后网夹 |
| 10--拖盘 | 22--传动轴 |
| 11--台板 | 23--印刷电机 |
| 12--前网夹 | |



● The main operations

When the machine installs well, and connect the power/gas source well, please let the electrical box 's switch keep closed, and then turn the Emergency Stop Switch, and then turn on the power switch, you can operate like these:

Test print

- 1, put the ink down to the network.
- 2, start power supplies and printing motor switch, you'd better to use the manual or foot pedal at the first time.
3. After you testing the ink uniformity, adjusting the ink knives and scrapers, and then locking the screw then you can start to print.

Pressure adjustment

1. the total pressure adjusted to 6 kgf / c m².
- 2, printing, ink back pressure, when you adjust it you should adjust the screw up or down.

Other things:

- 1、when you deal with the each parts adjustment, installation, uploading, firstly, you should turn off the power switch, and then to do other things.
- 2、adjusting the other parts, you must lock the screw, avoiding it become relax. And to ensure print performance and extended mechanical life.
- 3 Before printing, you must ensure the machine set well, keeping the space well, and then began to continue operating.

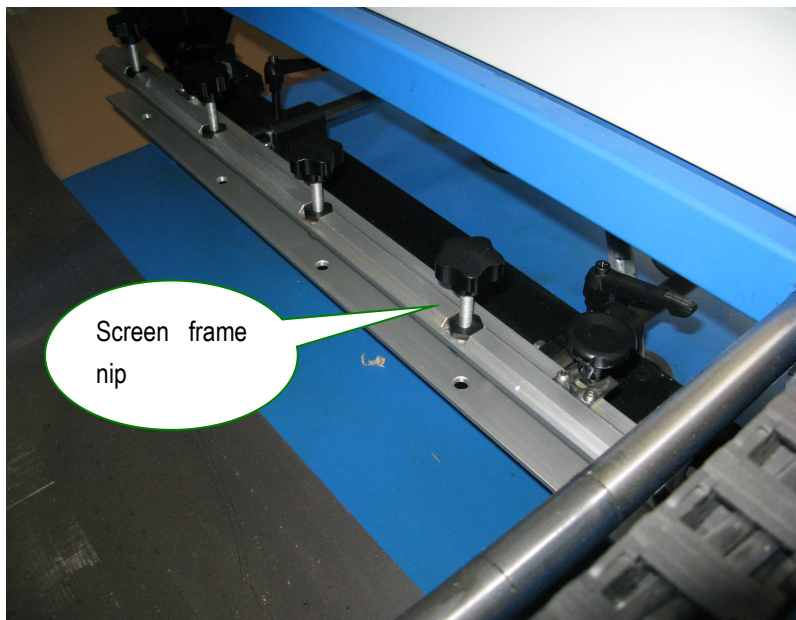
When you happen some emergency situation, you should hit the safety brake immediately, the head of the machine will rise automatically to ensure the operator or printed material 's safe

● 机械操作要领

机器安装好,并按要求接通电源和气源,将电器箱内保护开关闭合,再右旋急停开关,按下电源开关后可按下述方式操作:

试车印刷

- 1、将油墨调好倒入网版。
- 2、启动电源及印刷马达开关,先以手动或脚踏开关试行印刷。
- 3、试车后检验油墨的均匀度,适度调整回墨刀及刮刀,然后将固定螺丝锁紧即可印刷。



压力调整

- 1、总气压调整为 6 kgf/c m²。
- 2、印刷、回墨压力调整需调节气缸上压力螺帽上下行程。

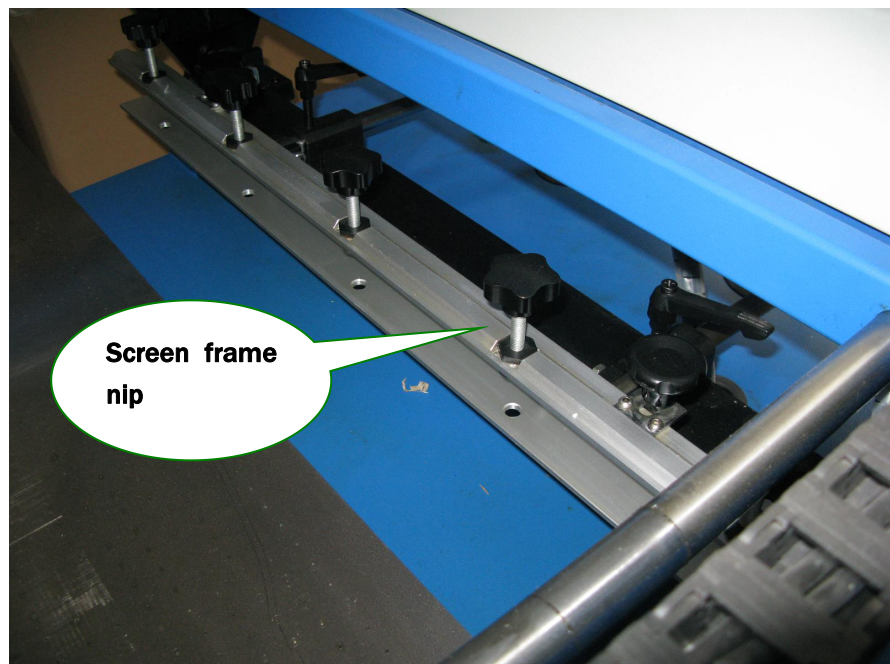
其它注意事项

- 1、如实施各部位之调整、安装、取卸,必须先将开关转向“OFF”位置,确认后 再实施,以确保安全。
- 2、调整各部位后,其螺丝、螺冒均需锁紧,避免松弛,以确保印刷效果和延长机械寿命。
- 3、印刷操作前,必须确实设定好印刷行程,预留前后间距,避免刮刀和回墨刀与前后网框夹碰撞,然后开始连续运转操作。
- 4、遇到紧急情况时,应立即压下安全刹车,则机头会自动升至高点以保护操作者的安

全及被印物。

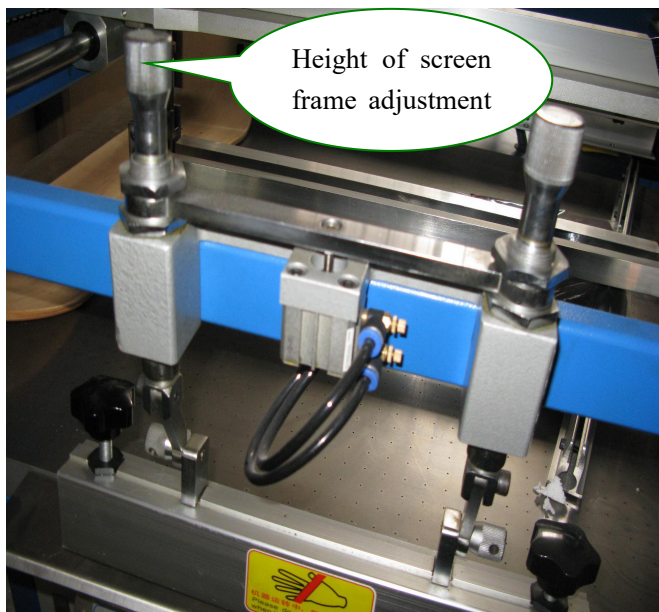
● Normal maintenance

- The mechanical workshop should keep neat and clean in order to maintain the printing quality of the machine's software 's using life.
- You should ask people to keep the machine neat and clean
- The sliding parts of machinery should always be injected into oil.
 - (1) the guides injected into 20#butter in every week.
 - (2) oil-water separator should be injected into 10 # lubricating oil.
- long time you don't use the machine , you should put some things on the machine ensure to prevent the ash.
- you don't using the machine long time. You should cut off the power source and the gas source.
- you don't using the machine long time. You should paint the rusty parts of the machine.
- when you adjust the triangular bell, you should keep 8-10mm to reduce vibration.



● 机械的正常维护与保养

- 使用该机械的生产车间应保持整洁干净，以保持印刷品质的稳定性及周边软体寿命。
- 机械的外观要保持整洁干净，要求经常擦洗。



- 机械的滑动部分应经常注入润滑油。
- 印刷导轨每周注入 20#黄油；
- 油水分离器应注入 10#润滑油。
- 长时间不用机械时，为防止灰尘应将机械罩上；
- 长时间不用机械时，把机械的输出电源和气源切断；
- 长时间不用机械时，应将机械易锈部分涂上防护油。
- 三角皮带松紧调整，应保持 8-10mm 弹性磨损或内沿有裂痕应换新品，

以减少震动。

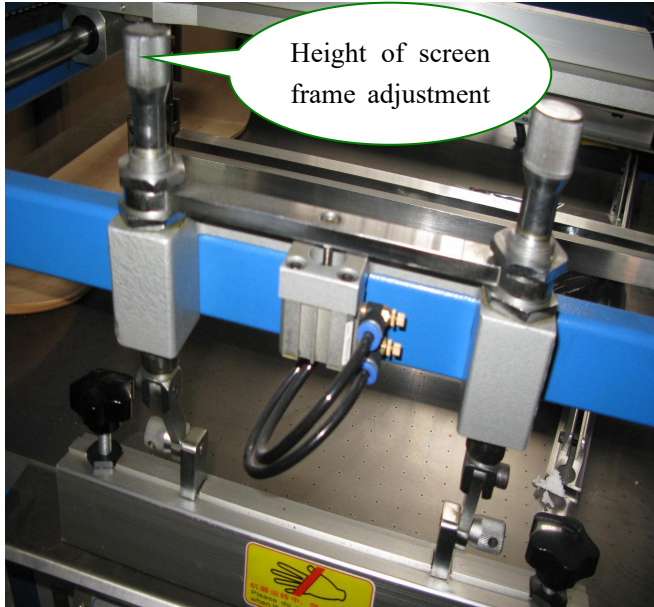
- 印刷过程中，如遇长吸风或不吸风，应将吸风电磁阀上节拆下，清理内部轴心各内孔，使轴心能上下动作，可永保电磁阀之寿命。
- 调整之螺丝部分应用机械油保持润滑。

● Mechanical periodic inspection and fault treatment

Mechanical periodic inspection items

- ▲ safety is first, you should check the machine when you use it .
- ▲ Examining the security switch is sensitive, pressing the safety switch at any time to confirm whether the machine is moving or not.
- ▲ when the head of the machine is down, press the brake plates , to confirm whether the rack rise up after the machine stop.
- ▲ Check Printing rail lubrication state, into the lubricating oil.
- ▲ inspection before and after the table / left movement is flexible.

- ▲ Check fan operation if is normal
- ▲ Check foot pedal action is sensitive.
- ▲ check the head of the machine if it normal.
- ▲ Check whether the oil-water separator into the oil.



- ▲ regularly let go off the water in the oil cup.

Fault treatment

Mechanical failure, or mechanical stops, the first self-test according to the following methods:

- 1) Check the input power to check it is normal or not.
- 2) Check the control panel if it reset each switch or not
- 3) Check whether the thermal relay in the protection of state or not.
- 4) Check the AC contactor if it normal or not.

● 机械的定期检查及故障处理方法

机械的定期检查项目

- ▲ 安全第一，每天使用机械前应先检查安全装置。
- ▲ 检查安全开关是否灵敏，机械运转的任何时间按下安全开关，确认是否有停止动作。
- ▲ 机器的机头下降时，按下刹车板，确认机架是否回升后停止。
- ▲ 检查印刷导轨润滑状态，注入润滑油。
- ▲ 检查工作台面前后/左右动作是否灵活。
- ▲ 检查风机运转是否正常。
- ▲ 检查脚踏开关动作是否灵敏。
- ▲ 检查机关上升/下降时是否有异常。
- ▲ 检查油水分离器中是否注入润滑油。

▲ 定期放掉油水分离器中的积水。

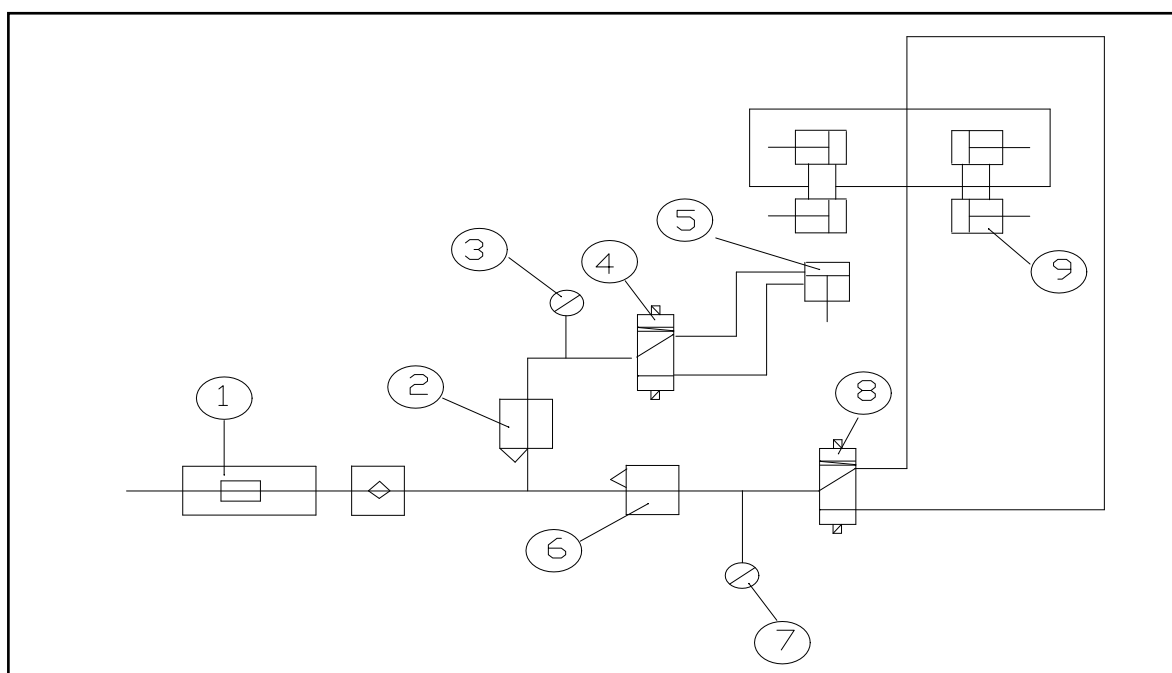
故障处理方法

机械发生故障，即机械停止时，首先按以下方法自检：

- 1) 检查输入电源是否正常；
- 2) 检查操作面板各个开关是否复位；
- 3) 检查热继电器是否处于保护状态；
- 4) 检查各交流接触器是否正常。

● Pneumatic schematic

● 气路原理图





编 号	名 称
1	空气过滤组合
2	离网调压阀
3	离网压力表
4	离网电磁阀
5	离网气缸
6	印刷调压阀
7	印刷压力表
8	印刷电磁阀
9	印刷气缸组

Number	NAME
1	Air Filter Combination
2	off-grid pressure regulating valve
3	Off-grid gauge
4	off-grid electromagnetic valve
5	Off-grid cylinder
6	printing pressure regulating valve
7	Printing Pressure Gauge
8	Printing solenoid valve
9	printing cylinder group