

# 液压榨油机说明书

## Hydraulic oil press manual

本说明书是香油机的一部分，请与香油机一起保存和使用。  
本说明书的内容在出版时是正确的，但我公司的产品质量在不断地持续改进，以追求做得更好，因此，本说明书所载内容与产品实物可能略有不同，敬请谅解，也请您在使用中注意。

This manual is a part of the sesame oil machine, please keep and use it together with the sesame oil machine.

The content of this manual is correct at the time of publication, but our company's product quality is constantly improving in pursuit of better performance. Therefore, the content contained in this manual may be slightly different from the actual product. Please understand. Please pay attention during use.

本公司保留在不做预先知会的情况下对产品进行改进的权利，对本公司产品的性能说明保留最终解释权。

The company reserves the right to improve the product without prior notice, and reserves the right of final interpretation for the performance description of the company's products.

本说明书提供了产品的主要技术参数，主要部件结构与调整，以及操作与维护保养方面的知识。

This manual provides the main technical parameters of the product, the structure and adjustment of the main components, and the knowledge of operation and maintenance.

为使本设备使用在最佳状态，请安装、操作、维护人员详细阅读本说明书。

In order to use this equipment in the best condition, please install, operate, and maintain personnel to read this manual in detail.

## **一、Introduction 产品介绍**

### **1、Working Principle 工作原理：**

本机是按照液体静压力传递原理，以液压油作为压力传递介质，对油料进行挤压进而将油脂榨出的一种榨油设备。它是由液压系统和榨油机本体两大部分组成的一个封闭回路系统。This machine is based on the principle of hydrostatic pressure transmission, using hydraulic oil as the pressure transmission medium to squeeze the oil and then squeeze out the oil. It is a closed loop system composed of two parts, the hydraulic system and the oil press body.

### **2、Pressing scope 压榨范围广：**

（可实现热榨和冷榨两种方式） hot pressing and cold

pressing can be realized

热榨油料类：芝麻、胡麻、花生、小麦胚芽、玉米胚芽等；

Hot pressed oils: sesame, flax, peanut, wheat germ, corn germ, etc. ;

冷榨保健油类：核桃仁、松仔、杏仁、油葵、橄榄、澳洲坚果、山茶籽等；

Cold-pressed health oils: walnut kernels, pine nuts, almonds, oil sunflowers, olives, macadamia nuts, camellia seeds, etc. ;

调味品及中药类：花椒、芥籽、紫苏等。

Condiments and Chinese medicines: pepper, mustard seeds, perilla, etc.

3、油质好：纯物理压榨，出油率高，冷榨过程中不产生温度，不破坏油料的有机成分，油质好，杂质少，饼值高，应用范围广。

Good oil quality: pure physical pressing, high oil yield, no temperature generated in the cold pressing process, no damage to the organic components of the oil, good oil quality, low impurity, high cake value, and wide application range

4、Convenient operation and high efficiency:



### 三、Main parts



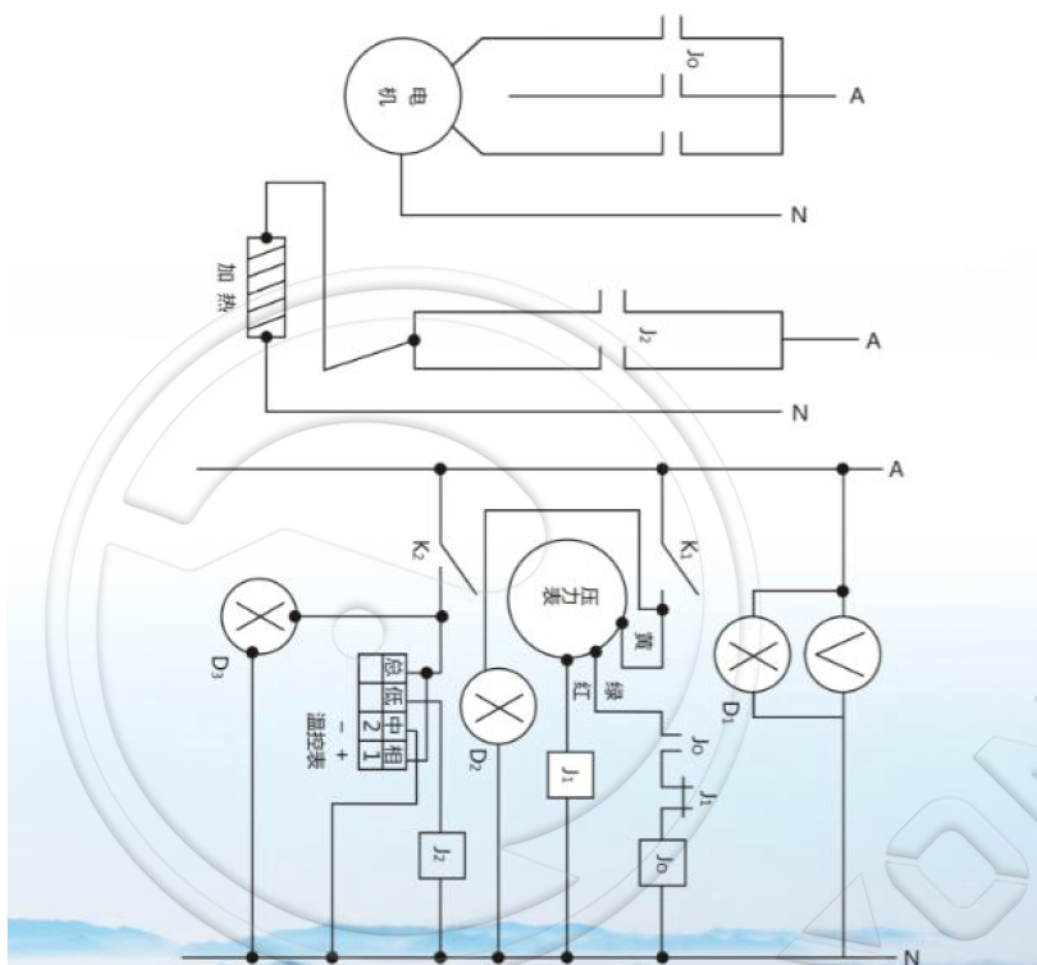


1. Upper nut   2. nut   3. Upper roof   4. Adjust screw  
5. Reinforcing ring A   6. Reinforcing ring B   7. Cylinder  
8. Oil tanker   9. Handle lever   10. Electric box  
11. Pressure gage   12. Oil pan   13. Oil mouth  
14. Stand column   15. Frame
- ①. Temperature controller   ② Heating light   ③ Heating  
button   ④. Electric pressure gauge   ⑤ Switch indicator light  
⑥ Power light   ⑦ Insurance   ⑧ Motor switch

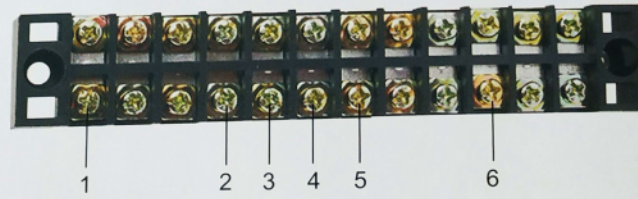
#### 四、Circuit and wiring 电路及接线

## 电气原理图

SAFETY TECHNOLOGY AND MAINTENANCE

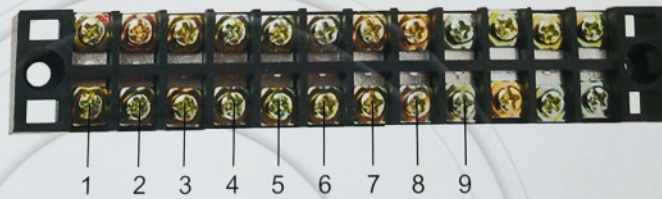


### Two phase electrical connection



1. Fire wire power (220V)    2. Neutral wire    3. 4 heating ring (connected)  
5. 6 pumping station motor (connected)

### Three phase electrical connection



1. 2. 3 Fire wire power (380V)    4. Neutral wire    5. 6 heating ring (connected)  
7. 8. 9 pumping station motor (connected)

## 五、安装 Install

1、将电表箱放在电表箱托盘上，打开电表箱后盖，将电表箱固定在托盘上。

Place the meter box on the pallet of the meter box, open the back cover of the meter box, and fix the meter box on the pallet

2. 机器放在水平工作面上，在连接管接口处处放置密封圈，上紧油管接头。

Place the machine on a horizontal working surface, place a sealing ring at the connection pipe joint, and tighten the oil pipe joint

3、电表箱内左起第 5，第 6 格电线连接主机加热圈，拧上绝缘



瓷帽。

Connect the 5th and 6th grid wires from the left in the meter box to the heating ring of the host, and screw on the insulating ceramic cap.

4、把热电偶连接在主机背面螺丝孔内。

. Connect the thermocouple to the screw hole on the back of the host.

5、两相电接法：将进线火线接在电表箱内左起第 3 格，进线零线接在第 4 格。电表箱内左起第 9，第 10 格电线接在泵站电机上，装上后盖。

Two-phase electrical connection: connect the incoming live wire to the 3rd grid from the left in the meter box, and the incoming zero wire to the 4th grid. Connect the 9th and 10th grid wires from the left in the meter box to the pump station motor, and install the back cover.

6、三相电接法：将进线火线接在电表箱内左起第 1、2、3 格，进线零线接在第 4 格。电表箱内左起第 7、第 8、第 9 格电线接在泵站电机，第 1、第 2、第 3 横排上。重新装好后盖。电机反转时，将任意两根火线位置调换即可。

Three-phase electrical connection: connect the incoming live wire to the first, second, and third boxes from the left in the meter box, and connect the incoming zero wire

to the fourth box. The seventh, eighth, and ninth grid wires from the left in the meter box are connected to the pump station motor, on the first, second, and third horizontal rows. Reinstall the back cover. When the motor is reversed, the positions of any two live wires can be exchanged.

7、将底座下的两个螺母拧紧，机器上端螺母调整至与上顶距离 6-8 毫米，将液压油加满泵站。

Tighten the two nuts under the base, adjust the upper nut of the machine to a distance of 6-8 mm from the top, and fill the pump station with hydraulic oil

液压油加注标准：（国内通常使用 46 号抗磨液压油即可）

Hydraulic oil filling standard: (No. 46 anti-wear hydraulic oil is usually used in China)

150 型加注 20 公斤；180 型加注 35 公斤；230 型、260 型加注 55 公斤；320 型、360 型、415 型加注 85 公斤；460 型加注 150 公斤。

150 is filled with 20 kg; 180 is filled with 35 kg; 230 and 260 are filled with 55 kg; 320, 360, and 415 are filled with 85 kg; 460 is filled with 150 kg.

## 六、机器的使用 Operation

1、打开电源，检查指示灯正常工作，首次使用机器，泄压阀

上手动泄压杆推至后位置，连续开关机器十次，排空泵站内气体，关机。打开温控器开关，将温度调制 50 到 60° C 即可。

Turn on the power, check that the indicator light is working normally, use the machine for the first time, push the manual pressure relief lever on the pressure relief valve to the rear position, switch the machine on and off ten times continuously, drain the gas in the pumping station, and shut down. Turn on the thermostat switch and adjust the temperature to 50 to 60° C.

2、将手动泄压杆推至后方，打开上顶，开机，观察料筒内活塞升起至能将压盘拿出时，立即关闭开关，注意：不要将活塞升起过高，否则活塞会脱出油缸，造成活塞倾斜，无法回落，以及液压油泄露。取出顶部压盘，料筒内其它配件勿动。

Push the manual pressure relief rod to the rear, open the top, turn on the machine, observe that the piston in the barrel rises to the pressure plate, immediately turn off the switch, note: do not raise the piston too high, or the piston will fall out of the cylinder , Causing the piston to tilt, unable to fall back, and hydraulic oil leakage. Take out the top pressure plate, do not move other accessories in the barrel

3、打开上顶，在料筒内底部放好一个棉垫，将炒好的油料排

烟后倒入料筒，再在物料上部放好另一个棉垫，放入压盘，关闭上顶，将手动泄压杆推至后方位置，启动开关，开始压榨。正常情况下，电表箱的电接点压力表压力达到 55-60 兆帕自动停机，压力降至 45 兆帕机器自动工作，重复 2-3 次，油料基本榨净，关闭开关。将手动泄压杆缓慢用力拉至能将泄压阀顶部小圆柱压下，保持压下状态 10 秒后，重新将手动泄压杆推至后方位置，打开上盖，打开主机开关，取出油饼，再将手动泄压杆轻轻拉至能将泄压阀顶部小圆柱压下状态，直到活塞落到底后即可开始下次压榨。

Open the top, put a cotton pad on the bottom of the barrel, pour the prepared raw materials into the barrel, put another cotton pad on the top of the material, put it in the pressure plate, close the top, and release the pressure manually Push the lever to the rear position, start the switch, and start squeezing. Under normal circumstances, the electric contact pressure gauge of the meter box will automatically stop when the pressure reaches 55-60 MPa, and the machine will automatically work when the pressure drops to 45 MPa. Repeat 2-3 times, the oil is basically squeezed out, and the switch is turned off. Pull the manual pressure relief lever slowly and forcefully until the small cylinder at the top of the pressure relief valve can be pressed down.

After 10 seconds, push the manual pressure relief rod to the rear position again, open the upper cover, turn on the switch of the main engine, and take out the oil cake. Then gently pull the manual pressure relief rod until the small cylinder at the top of the pressure relief valve can be pressed down, and the next pressing can be started after the piston falls to the bottom.

## **七、安全技术和维护保养 Safety technology and maintenance**

1、本机电机采用 220 伏 380 伏电源，加热和控制系统采用 220 伏 380 伏电源，根据客户要求，也可改为定制电源。

The motor of this machine adopts 220V/380V power supply, and the heating and control system adopts 220V/380V power supply. According to customer requirements, it can also be changed to a customized voltage.

2、为保证电器系统工作安全，必须采用接地保护措施。

In order to ensure the safety of the electrical system, grounding protection measures must be adopted

3、本机液压系统属于超高压压力等级，压强最高为 60 兆帕。严禁超压使用！禁止擅自乱调，乱拆！否则，很有可能造成机器损坏和人员受伤。

The hydraulic system of this machine belongs to the



ultra-high pressure level, and the maximum pressure is 60 MPa. Do not use overpressure! Unauthorized adjustment and demolition are prohibited! Otherwise, it is likely to cause damage to the machine and personal injury.

4、压力表不灵或损坏不准的情况下，严禁开机生产，要更换新压力表后再开机。

If the pressure gauge is not working or damaged, it is strictly forbidden to start the production, and it is necessary to replace the new pressure gauge before starting the machine

5、机器在高压和保压期间禁止检修电器。

It is forbidden to inspect and repair electrical appliances during the period of high voltage and holding pressure.

6、使用操作过程中，请严格按照操作规程操作。

During the use and operation, please strictly follow the operating procedures

7、油料炒好后，一定要把烟排完再榨，否则榨油时会出现气体爆发，严重时伤人。

If the raw materials are fried, the smoke must be exhausted before squeezing, otherwise there will be an explosion of gas when the oil is squeezed, and it will

hurt people in serious cases.

8、油料榨干后，应马上出饼，否则时间过长会出现气体爆发现象。

After the oil is fully squeezed, the cake should be produced immediately, otherwise gas explosion will occur if the time is too long

9、如果油槽出现堵塞，请用钢卷尺的尺条进行清理刮通。

If the oil groove is blocked, please use a steel tape to clean and scrape through

10、新机使用一个月，必须将液压油过滤干净，并清洁油箱，以后每年更换液压油一次。较长时间不使用，请关闭总电源。

After the new machine is used for one month, the hydraulic oil must be filtered and the oil tank must be cleaned. After that, the hydraulic oil should be replaced once a year. If you do not use it for a long time, please turn off the main power supply.

八、发生故障的原因及排除方法

|                            |  |   |
|----------------------------|--|---|
| 不上<br>表压<br>不升<br>或<br>高压升 | 1. 有杂物吸入泵内进油阀内钢球不能恢复原位 Sundries are sucked into the pump and the steel ball in the oil inlet valve cannot be restored to its original position | 1. 清理泵内杂物，更换清洁的液压油<br>Clean up the debris in the pump and replace the clean hydraulic oil |
|----------------------------|--|---|

|  |   |
|--|---|
| 2. 液压缸不工作<br>The hydraulic cylinder does not work                          | 2. 拆开泵站上的手动阀,清洗手动阀<br>Disassemble the manual valve on the pump station and clean the manual valve |
| 3. 液压缸内油封损坏<br>The oil seal in the hydraulic cylinder is damaged           | 3. 更换新油封<br>Replace the new oil seal  |
| 4. 油管接头漏油,密封不严<br>The oil pipe joint leaks and the seal is not tight       | 4. 换上新密封件,上紧螺栓<br>Replace with new seals and tighten bolts  |
| 5. 活塞磨损严重<br>Piston wear is serious  | 5. 更换新活塞<br>Replace with new piston   |
| 6. 压力表损坏表针不升<br>The pressure gauge is damaged and the needle does not rise | 6. 更换新压力表<br>Replace with new pressure gauge  |