



裕祥集中潤滑給油裝置

Centralized Lubrication Systems

(電動注油機)

(Automatic lubricator)

YAC-H1P1/B1P1

抵抗式電動式注油機

Resistance type automatic lubricator

YAC-H2P2/B2P2

容積式電動式注油機

Piston type automatic lubricator

操 作 手 冊

Operation Manual

感謝您購買裕祥集中潤滑給油系統，為了適當使用而無問題，請詳細閱讀本手冊並確遵指示。

Welcome on using an iSHAN centralized lubrication systems. Read this owner's manual before installing, operating or maintaining the product. Failure to follow the instructions and safety precautions in this owner's manual could result in serious injury, death, or property damage. Keep for future reference.

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1 應用範圍

裕祥集中潤滑給油裝置乃為滾珠軸承、滑動軸承、平面滑軌、圓形滑軌、線性滑軌、凸輪、齒輪、鏈條...等機構而設計的。

裕祥集中潤滑給油裝置適用於各式工作母機，如車床、銑床、壓床、鉋床、磨床 ... 等，它可以同時對不同機器的潤滑點作潤滑。

YAC-H / YAC-B 機型適用的潤滑油黏度應介於 30 ~ 250 cSt，並請選用新的油料。

YAC-H2, YAC-B2 並可在間歇時經由脫壓裝置將管路中的壓力釋放掉。

YAC-H 型式的設計為連續性潤滑，但若有外接 Timer 亦可作間歇式潤滑；YAC-B2 為容積式電動注油機，也可以連續運作。

當油位達最低下限時，注油機會經由液位開關發出一警報信號，或經由連接外部控制器將機器立即停止。若控制器與機器主機也有相連，也可以將機器停止。也可將機器與電腦或其他控制系統相連接，以使用者的希望方式進行控制(客戶可以選配壓力開關，通過壓力變化來控制整個系統)。

2 基礎操作

2-1 安全措施

2-1.1 安裝前

- ☐ 安裝前先確定電源接線是否正確。
- ☐ 裕祥集中潤滑給油裝置不可使用於以油料潤滑機器以外的其他用途。

2-1.2 加油之前

- ☐ 潤滑油的黏度應介於 30~250 cSt，注意！若使用油料的黏度高於 250 cSt 注油機可能會燒毀。若黏度低於 30 cSt 可能會造成壓力或流量不足以及打不出油的情況。
- ☐ 只可使用新的油料，忌用已使用過的油來作潤滑。
- ☐ 不可加入化學物質或水。
- ☐ 清除油箱內的顆粒物塵埃，以確保正常潤滑。
- ☐ 加油到油箱時應注意勿濺到電子控制器。

2-1.3 電子控制器的安全措施

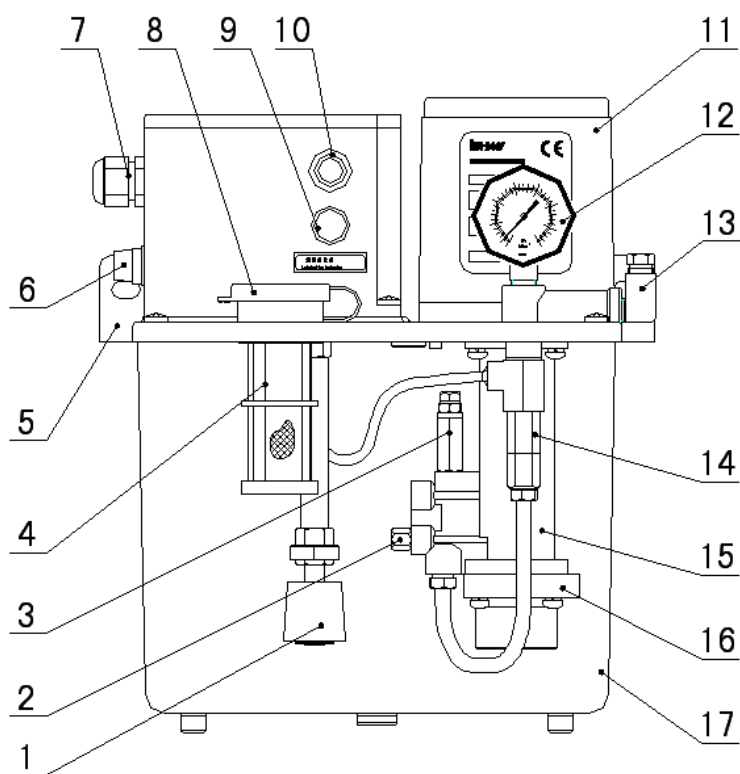
- ☐ 勿使電子控制器和水或油接觸，以免造成失序。

2-1.4 發生故障時

- ☐ 只有裕祥公司的客戶服務人員有權進行維修，並須使用原廠之備用零件。

2-2 注油機組成元件

- | | |
|------------------|------------------------|
| 1. 液位開關 | 10. 指示燈(YAC-B 專用) |
| 2. 排氣閥 | 11. 馬達 |
| 3. 溢流閥 | 12. 壓力錶 |
| 4. 加油口濾網 | 13. 直角接頭組 |
| 5. 上蓋 | 14. 脫壓裝置(YAC-B2/H2 專用) |
| 6. 保險絲 | 15. 油泵支架 |
| 7. 電纜固定頭 | 16. 齒泵 |
| 8. 加油口組 | 17. 油箱 |
| 9. 強制鍵(YAC-B 專用) | |



〔圖一〕

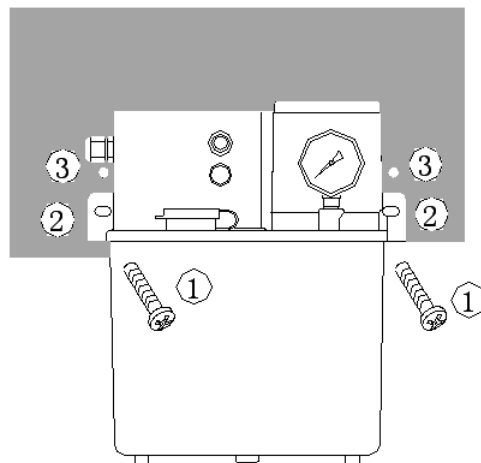
2-3 標籤貼紙

規格貼紙 ISHAW PRECISION IND. CO., LTD. Model YAC-B1 Output Power 25 W Output Volume 300 cc/min Pressure (Max.) 10 kgf/cm² NO. 000001 ISHAW PRECISION IND. CO., LTD. Model YAC-B2 Output Power 25 W Output Volume 150 cc/min Pressure (Max.) 20 kgf/cm² NO. 000001	小心觸電
馬達外殼前方	電子箱外殼上方
配線貼紙 YAC-B 配線貼紙	操作说明 ISHAW 注意事项 (Attentions) 1. 限用新油，严禁回收使用。 Please make sure to use new oil, and used/recycle oil is inhibited. 2. 请每两个月清洗一次油箱，并清洁或更换加油口和吸油口滤网。 Please clean the oil tank per every two months, and also clean or change the oil inlet and the filter of gear pump. 3. 初次使用时（或油量打不出来时），请先将压力归零，待油内空气排出后，再调至所需之压力。 If the oil can't be pumped out at first use, set the pressure to zero and let the air out, then adjust the pressure accordingly. 4. 建议客户使用美孚、国光、佳德士等知名品牌润滑油；并在夏季使用46#~150#润滑油，冬季使用32#~68#润滑油。并根据季节温差变化，选择近似粘度值的油剂使用，以达到更好的润滑效果。（温度与粘度关系对照表见操作说明书） Suggest customer using the MOBIL、CPC、CALTEX etc. famous brand's oil, and Please use the oil of 46# to 150# in summer and 32# to 68# in winter. Please according to season temperature difference change, Choice approximation degree of viscosity value of oil make use of, By means of arrive preferable lubrication effect. (temperature and degree of viscosity bearing synopsis see operating specification..)
配線蓋下方	油箱右前方

2-4 安裝

2-4.1 安裝注油機

安裝時用兩支螺絲 (1)將上蓋(2)的孔鎖在機器上(3)的位置，機器上兩螺孔(3) 相距 205 mm(參考圖二)，安裝後機台高度必須介於 0.6~1.7 公尺的範圍。

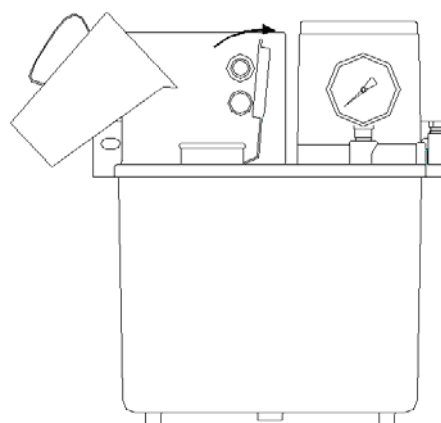


(圖二)

2-4.2 加入油料

打開丸蓋並注入乾淨未使用過的潤滑油到油箱內，直到油位標示線 HIGH 的高度(油箱的容量有 3 / 4 / 6 / 8 / 20 公升五種型式) 然後蓋上丸蓋，只能使用黏度介於 30 ~ 250 cSt 的潤滑油。

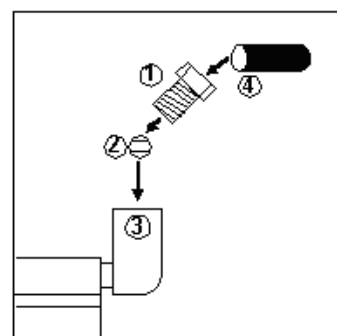
注意！若使用油料的黏度高於
250 cSt 注油機可能會燒毀



(圖三)

2-4.3 油管接法

現在開始接油管 (參考圖四)，出油口位於注油機右側，將油管接頭(3)上的套管帽(1)、套管(2) 取出，並將其套在油管上，然後將油管插入接頭內鎖緊以免漏油。本機台出口裝置特殊止逆接頭(3)，不可私自更換，以免影響操作。



(圖四)

2-4.4 安裝電源和警報器

為防止因電源供應不穩定而造成傷害，建議在電源輸入端加裝保險絲。

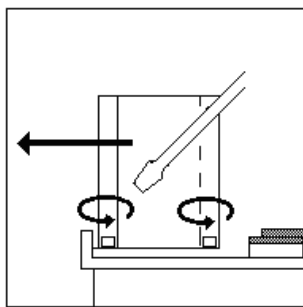
將配線蓋螺絲取下 (參考圖五) 有一個可以將電線鎖上的螺帽在配線蓋左側，將螺帽放鬆並將電線穿過此孔，固定於配線蓋內之端子盤上。

現在將電源接線接上(參考圖八)，首先連接地線，鬆開接地符號的螺絲將地線接上並旋緊。

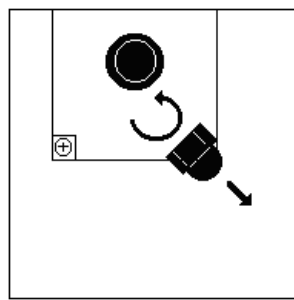
再將電源線分別接在 POWER 內的螺絲，當油面高度接近最低油位時液位開關將會由斷路變為通路 (或選擇由通路變為斷路)。

YAC-B2 為容積式注油機，也可作間歇潤滑注油機使用。當 YAC-B2 作間歇潤滑注油機使用時，必須用 Timer 控制電源 ON-OFF 的方式來控制注油機。另外亦有液位開關的訊號(標準型接於 NC 與 COM 上)輸出接點,可連接異常控制器。進一步說，如果供油量不足，電腦可根據使用者希望來處置。

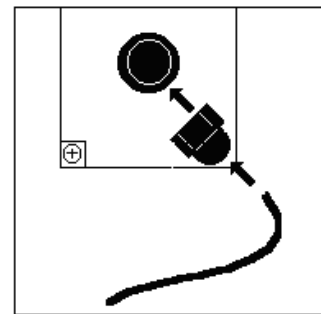
完成後將配線蓋蓋上，並將電纜固定頭旋緊以免電線被拉出造成斷路。將電源接上，若接線正確，注油機即可以開始運轉。



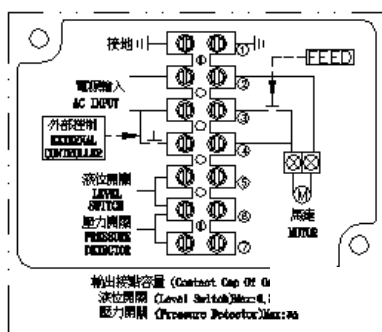
(圖五) Fig. 5



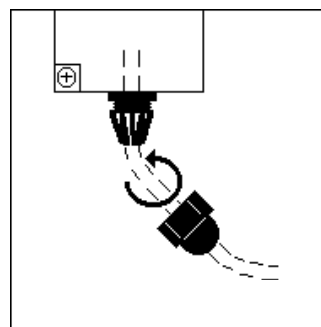
(圖六) Fig. 6



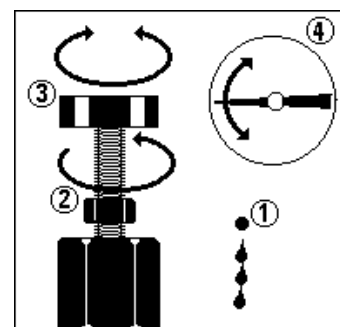
(圖七) Fig. 7



(圖八) Fig. 8



(圖九) Fig. 9



(圖十) Fig.

如果机台为 YAC-B1P1/H1P1 型号可(參考圖十)进行压力调整,旋鬆釋壓閥上的小螺母(2)將調壓閥旋鬆 (一般出廠前均已放鬆)，打開電源，待油從釋壓閥排油孔流出來，再將釋壓閥往下旋緊調整至所要的壓力（不可超過機台最大設定壓力）。若是您無法調整到想要的壓力值，請檢查您的配管末端油是否大量流失，可能是未裝抵抗式接頭

(比例接頭)，當您調壓完畢後，請將釋壓閥上的螺母(2)旋緊，以免不小心轉到釋壓閥而產生不想要的壓力變化。

3 補充油料

油料的高度必須大約介於油位標示線 **HIGH** 與 **LOW** 之間。如果油的高度掉到比液位開關的位置還低，注油機會送出一個警報信號。此時請加入新油(圖三)，將丸蓋打開並倒入新油。

注意! 切勿使用已用過的潤滑油。

4 保養

裕祥集中潤滑給油裝置的保養十分容易，為維護裝置請定期清理油箱。若油箱底部或濾油網發現雜質，請將注油機停止並將油箱四個角落的螺絲拆下，使油箱與注油機其他部份分離，油箱清洗後請將前面兩個較短的螺絲和後面兩個較長的螺絲旋緊。

5 異常處理 / 故障排除

! 作任何檢查前應先關閉電源。

! 對於未列於以下表格內的異常狀況，請勿自行修理及拆解 (請向本公司或經銷商諮詢)。

異常狀況	異常原因	故障排除
沒有油流出	1. 油品黏度太高或太低	使用適合的油料
	2. 液位開關沒作用	更換液位開關
	3. 馬達不轉	更換馬達(可能是電源接錯造成燒毀或沒有電源，請重新檢查電源)
馬達轉動但油未流出	1. 管路內有空氣(YAC-B1/H1)	打開釋壓閥及螺帽以釋出空氣，等油從釋壓閥排油孔流出來，再重新調整所要的壓力
	2. 拆解主機出口的油管，檢視油是否流出，若有表示注油機正常，可能是機械的配管阻塞或破裂	查出那段管路異常並加以處理
油流出量不足	1. 濾油網阻塞	清潔濾油網
	2. 電壓使用錯誤	使用正確電壓
	3. 油黏度太高或太低	使用適合的油料

6 保証

此裝置保證期間為 12 個月，在保證期間免費維修只有在裝置未被擅改並且完整，未拆封的狀態寄回給裕祥服務人員始予接受。請勿在未商議的情況下寄回剩餘零件，收件人負擔運費的方式需經本公司服務人員同意。此保證包含原廠材料和製造瑕疵，若因為天災或未遵照本操作手冊而至損壞則不在保證之內。

7 技術資料

7-1 規格 / 介面

	YAC-H1/ YAC-B1	YAC-B2/ YAC-H2
電源供應	AC220V or AC110V	AC220V or AC110V
輸出	25W/40W	25W/40W
最大吐出量	300 ml / min	150 ml / min
最大壓力	10 kgf/cm ²	20 kgf/cm ²
操作溫度	0~50℃	0~50℃
液位開關接點容量	0.3A (MAX)	0.3A (MAX)

8 注意事項

注意：本公司可以不用通知顧客，自行從事產品技術及外觀上的改進。本手冊之說明及資訊亦不在保證之內。因此，不得以此進行法律訴訟。

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1 Scope of application

iSHAN centralized lubrication systems are designed to lubricate ball bearings, flat bearings, flat slideways, circular slideways, linear guides, cams, gears, chains, etc..

iSHAN centralized lubrication systems are suitable for the lubrication of various machines, such as lathes, mills, presses, planner, grinder, etc. It is fit to control different lubricating points at the same time against different machines.

The YAC-B / YAC-H lubrication units are suitable for using lubricant with a viscosity range at 30 to 250 cSt during it is running. Only new lubricant shall be used.

YAC-H2 / YAC-B2 model releases built-in pressure from the main line by dump valve at the interval time.

YAC-H is designed to continuously feed oil or at the interval if it is connected with the PLC control unit to control it. YAC-B2 is piston type lubricator and the motor can run continuously.

For safety, a pressure switch should be mounted to monitor the system. The pressure switch monitors whether the required pressure build-up occurs in the centralized lubrication system during the pump cycle time and detects any leaking or lubrication connection damage. The level switch is design to monitor the filling level and shut down the lubrication unit when the lubricant is insufficient. To get further safety, the lubrication unit can connect to other monitored device properly to enhance the alarm system.

2 Basic operation

2-1 Safety information

2-1.1 Before installing

!Before installing, read the manual for the correct connection of the power. To prevent chance of serious injury, death or property damage, disconnect the product from main power supply before working on it.

!Comply with the specifications on the rating plate of the motor or the electrical components..

!**iSHAN** centralized lubrication systems must not be used in other purposes other than lubricating machines.

2-1.2 Before lubricant filling

You must observe the machinery manufacturer's information on the lubricants to be used in the machinery.

!Use only new oil with a permitted range of oil viscosity from 30 to 250cSt. Warning ! Motor jammed or burned due to high resistance which caused by delivering higher than an oil viscosity of 250cSt, no pressure build-up in centralized lubrication system or insufficient oil delivery caused by pumping lower than an oil viscosity of 30cSt result in centralized lubrication system failure.

! **Only clean lubricant may be added.** Please never fill with used oil.

!Never fill with chemical substances, water or hazardous fluids.

! All components of the lubrication line system - including reservoir, pipes, hoses, cut-off valves, control valves, fittings, and so on - must be carefully cleaned before installation.

2-1.3 Control panel safety information

!In order to avoid disorders of the control panel, never let it have contact with water or oil.

2-1.4 Faults

! Only qualified, instructed specialists who are authorized by iSHAN may repair lubricators and must use the original spare parts.

2-2Parts of lubrication unit

- | | |
|-------------------------------|------------------------------------|
| 1. Level switch | 10.Indicator light(Only for YAC-B) |
| 2. Vent valve | 11.Motor |
| 3.Pressure relief | 12.Pressure gauge |
| 4.Strainer | 13.Elbow adapter |
| 5.Bracket | 14.Dump valve(Only for YAC-B2/H2) |
| 6.Fuse | 15.pump support |
| 7.Cable gland | 16.Gear pump |
| 8.Oil tank cap | 17.Reservoir |
| 9.Feed button(Only for YAC-B) | |

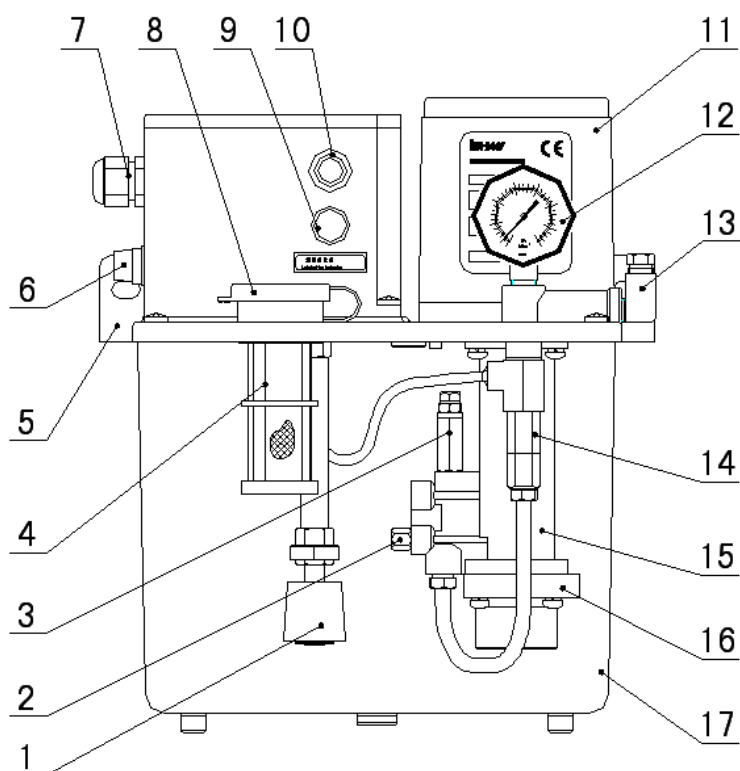


Fig. 1

2-3Label instruction

Model label ISHAW PRECISION IND. CO., LTD. Model YAC-B1 Output Power 25 W Output Volume 300 cc/min Pressure (Max.) 10 kgf/cm² NO. 000001 ISHAW PRECISION IND. CO., LTD. Model YAC-B2 Output Power 25 W Output Volume 150 cc/min Pressure (Max.) 20 kgf/cm² NO. 000001	Electric Shock
Positioned in front of the motor	Positioned on the cover of housing
Wiring instruction YAC-B	Operation instruction ISHAW 注意事项 (Attentions) 1. 限用新油，严禁回收使用。 Please make sure to use new oil, and used/recycle oil is inhibited. 2. 请每两个月清洗一次油箱，并清洁或更换加油口和吸油口滤网。 Please clean the oil tank per every two months, and also clean or change the oil inlet and the filter of gear pump. 3. 初次使用时（或油量打不出来时），请先将压力归零，待油内空气排出后，再调至所需之压力。 If the oil can't be pumped out at first use, set the pressure to zero and let the air out, then adjust the pressure accordingly. 4. 建议客户使用美孚、国光、佳德士等知名品牌润滑油；并在夏季使用46#~150#润滑油，冬季使用32#~68#润滑油。并请根据季节温差变化，选择近似粘度值的油剂使用，以达到更好的润滑效果。（温度与粘度关系对照表见操作说明书） Suggest customer using the MOBIL、CPC、CALTEX etc. famous brand's oil, and Please use the oil of 46# to 150# in summer and 32# to 68# in winter. Please according to season temperature difference change, Choice approximation degree of viscosity value of oil make use of, By means of arrive preferable lubrication effect. (temperature and degree of viscosity bearing synopsis see operating specification.)
Inside of housing	Right upper of the tank

2-4 Installation

2-4.1 Positioning and mounting (Fig.2)

The lubrication unit is attached to the intended mounting location (3) using appropriate fastening materials (1). The mounting dimensions of fixing holes are measured at 205mm. The installation location should be spaced between 0.6m to 1.7m above the ground.

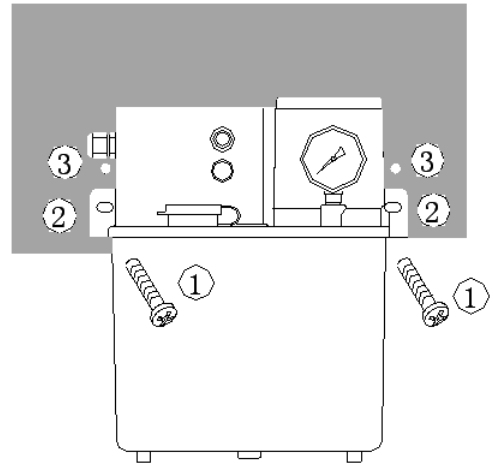


Fig. 2

2-4.2 Filling Oil

Remove the oil tank cap and fill clean and non-used oil into the tank and add up to the MAX mark (Fig. 3). Please note that only use permitted range of oil viscosity between 30cSt to 250cSt. The reservoir capacity is available from 3 / 4 / 6 / 8 / 20 liters.

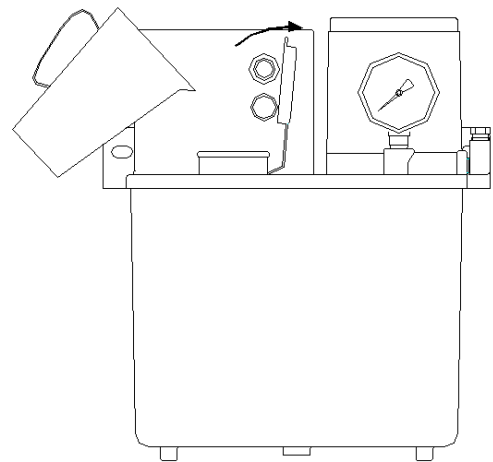


Fig. 3

2-4.3 Lubrication line connection

Solderless tube connection (double tapered sleeves) can be used. The tube must go through compressed bushing and double tapered sleeve (See Fig. 4). To avoid any leaking during running service time, it should be observed up to 1mm distance between the tube(4) end to the double sleeve(2). Insert tube end into counterbored port (3) up to the stop. First tighten compressed bushing finger-tight by hand. Then turn another 1 1/2 turns. The elbow adapter with check valve on the resistance type lubrication unit is specified. Never change it by yourself.

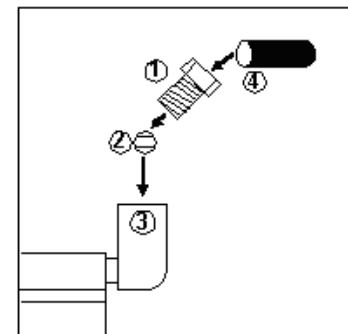


Fig. 4

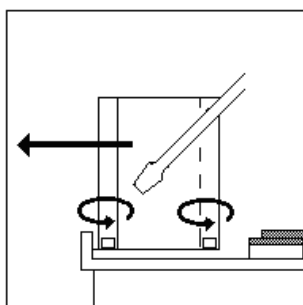


Fig. 5

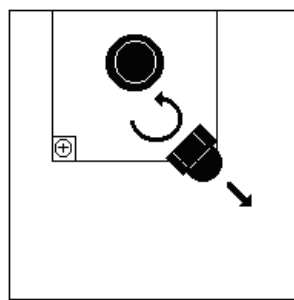


Fig. 6

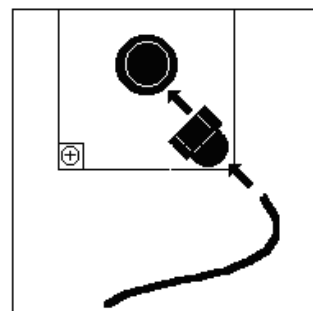


Fig. 7

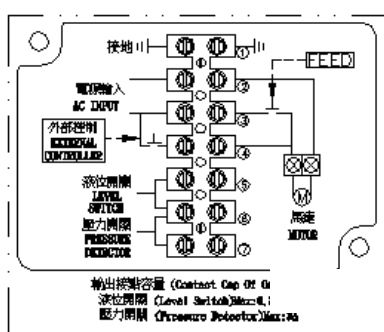


Fig. 8

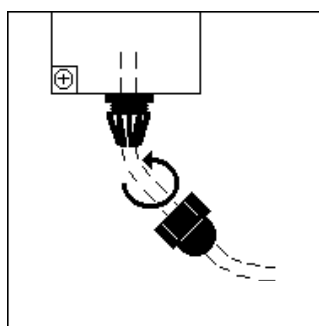


Fig. 9

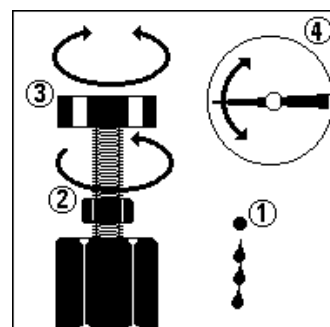


Fig. 10

2-4.4 Wiring and alarm

Warning !! To prevent chance of serious injury, death or property damage, disconnect the product from main power supply before working on it.

Install a fuse between the power supply and the product is strongly recommended!

The electrical circuit diagram of the lubrication unit is affixed inside the unit and can be accessed by removing the cap.

Remove the cap (Fig.5) and inside you can see terminal plate and cable gland nut. Loosen cable gland (Fig.6) and then insert cable through the cable gland hole (Fig.7) to wire up. Fix the cable gland to the housing.

Wiring must comply with the electrical circuit diagram (Fig.8) of the lubrication unit affixed inside the unit. Otherwise, property damage or serious injury can occur. The connection of level switch is to close or open when lubricant is insufficient.

YAC-B2 is piston type lubricator and can feed oil at the interval if it is equipped with the PLC controller to control it. YAC-B2 is equipped with level switch which (Standard wiring connection COM+NC) which can send out a signal to the PLC controller and it will run depends on the program of the PLC.

After the electrical connection is finished, tighten the cable gland (Fig.9) and fix the cover. Then turn on the power and the power indicator on the display panel will light if the electrical connection is correct and the pump is delivering oil.

YAC-B1P1 / YAC-H1P1 are equipped with pressure regulator (Fig. 10) to adjust built-in pressure. First loose the nut (2) and turn on the power. After the lubricant comes out from the pressure relief valve, screw in the knob (1) until pressure build-in in the centralized lubrication system per the user's required pressure. Maximum built-in pressure regulating is limit to the lubrication unit's system pressure. If the user can't regulate pressure, please check lubrication connection where there is a leaking or the adapter is without check valve. After the user complete built-in pressure regulating, tight the nut to fix the pressure regulator in case there is any change by the accident.

3 Refilling lubricant

Always keep the oil level between HIGH mark and LOW mark. If the oil level falls below LOW mark, the lubrication unit will send an alarm signal to the control unit of the machine. Remove the cap (Fig. 3) and refill with new clean oil.

Warning! Never use used oil

4 Maintenance

iSHAN centralized lubrication system is easy to maintain. The reservoir must be cleaned before installation and in service time so clean the reservoir regularly. If there is any impurity or oil sludge found at the bottom of reservoir or on the strainers of the lubrication unit, disconnect the product from main power supply and take off the reservoir by removing 4 screws on the corners. After the reservoir is cleaned, assemble it to the lubrication unit.

5 Faults / Troubleshooting

Warning ! Disconnect the product from main power supply before working on it..

Warning ! Please do not try to repair or disassemble the lubrication unit for the faults not listed below. You should consult and inform **iSHAN** company at once.

Fault	Possible cause	Recertification
No lubricant	1. Impermissible lubricant	Fill system with suitable lubricant
	2. Level switch failed	Replace level switch
	3. Motor Jammed	Replace motor(Check electric connection or power supply if it is correct)
Motor runs but doesn't feed oil	1. No discharging to the lube point. Air in the centralized lubrication system (YAC-B1/H1)	Loosen the nut and pressure regulating valve to vent centralized lubrication system and then screw in per your required pressure.

	2. Disconnect the main line from the lubrication unit and check if pump feeds oil. If YES, the lubricator functions well and check lubrication connection if tubing is broken or blocked.	Check lubrication connection and find out the leaking or where blocked, then fix it.
Insufficient oil delivery	1. Filter blocked	Clean up filter or replace it
	2. Wrong voltage	Connect with correct voltage
	3. Impermissible lubricant	Fill system with suitable lubricant

6 Warranty

iSHAN warrants that it will repair or replace any product manufactured and sold by it which proves to be defective in material or workmanship within a period of one year from the date of original purchase for the clients. Any warranty claim will be considered invalid if the product is not complete or it was disassembled or failure to manual or damage caused by act of God. Any return must consult with iSHAN and obtain iSHAN's approval before action.

7-1 Specification

	YAC-H1/ YAC-B1	YAC-B2/ YAC-H2
Power supply	AC220V or AC110V	AC220V or AC110V
Output	25W/40W	25W/40W
Max. output volume	300 ml / min	150 ml / min
Max. output pressure	10 kgf/cm ²	20 kgf/cm ²
Ambient temperature	0~50℃	0~50℃
Level switched current, max.	0.3A (MAX)	0.3A (MAX)

8 Announcement

Warning:iSHAN reserves the right to make content and technical changes without notice and it includes the manual. It is invalid to file a lawsuit against iSHAN in above changes.

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