



巨輪興股份有限公司

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H 型美規油壓床 操作說明

SIP



中文 : C1~C5

中文
English
Ver. 16

1. 安全措施



不遵守以下的注意事項和警告將引起設備損失及人員傷害。



重要事項：未滿18歲人員不得擅自操作。操作 SUN RUN 油壓設備前請先仔細閱讀並了解相關操作手冊、安全事項和警告事項。操作人員負有油壓設備週邊之人員及環境之安全責任。



警告事項：為確保避免人員傷害和設備作業損失，請確認所有油壓設備及週邊配件，使用最大壓力為 **700 bar(10,000psi)**。



警告事項：操作人員於使用期間為避免傷害，需全程配戴安全防護措施。



危險事項：為避免人員傷害，請於操作過程中手、腳遠離液(油)油壓缸和液壓設備。



警告事項：禁止超載使用。
超載使用易造成設備損害及人員損傷。液(油)壓缸設計最大使用壓力為 **700 bar (10,000psi)**。



警告事項：當零件出現裂痕或損壞時，應立即以 **SUN RUN** 零件更換。正確標準的零件可防止人員或設備損傷。**SUN RUN** 零件經特別設計可完全適用並適用產品標稱的額定荷載或壓力。



重要事項：液壓設備必需由合格的液壓技工進行維修。需要修理時，請聯繫就近的 **SUN RUN** 服務據點並使用 **SUN RUN** 液壓油保固方為有效。



危險事項：千萬不可將溢流(安全)閥的壓力值設定高於泵浦的額定壓力。超載的壓力值可能引起設備損壞及人員損傷。
尤其千萬不可拆除溢流(安全)閥。



警告事項：系統操作壓力絕不可超過最低壓力元件之值最低值。系統中應加裝壓力錶藉以監測系統中的壓力並了解使用狀態。



警告事項：避免損壞油壓管。捲收油管時，避免油管強烈彎曲或打結。使用彎曲或打結油管易引起背壓。強烈彎曲或打結的油管亦易引起內部損壞或提早油管老化。



千萬不要重壓油管。劇烈的撞擊會造成油管內鋼絲網損壞。使用受損的油管可能導致油管破裂。



重要事項：千萬不要利用油管來提攜其他油壓設備(例如:小型油壓缸、泵浦..等)



危險事項：液(油)壓設備應遠離火或熱源。高溫會軟化包裝和密封材料，導致液壓油洩漏；高溫同時也會造成油管材質與包裝變質。為確保最好狀態，不要將液(油)壓設備暴露於 **65°C(150°F)** 高溫。在電焊場所時亦應注意防止電焊火花噴到油管。



危險事項：不要用手對油管施加壓力(包括拉或舉高) 高壓下洩漏的液壓油會穿透皮膚造成嚴重傷害。當液壓油侵入皮膚請立即就診。

2. 規範

2.1 倘若您所使用壓床搭配泵浦，請確認所有接頭是否完全密合連接並檢查是否合於下列規範：

氣動泵浦：7~10kgf/cm²

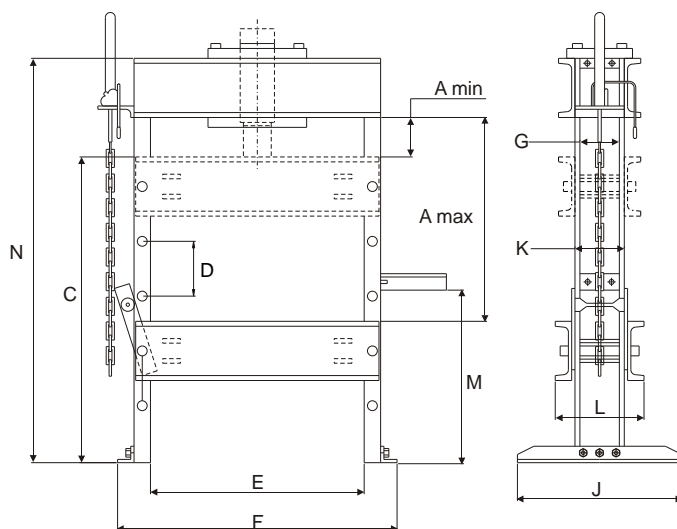
電動泵浦：如下所示

*電動泵浦請再確認銘牌上詳細規格

2.2 液壓油: Aw46



Pump Model 電動泵浦型號	Motor 馬達	Oil cap. 油箱容量
SIP-10EM	0.5 hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-256EM	0.5hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-2514EM	1hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-30EM	1hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-506EM	0.5hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-5013EM	2hp, 115V/ 220V, 50/60Hz ,1ph.	5gal.
SIP-100EM	2hp, 115V/ 220V, 50/60Hz ,3ph.	5gal.
SIP-150EM	2hp, 115V/ 220V, 50/60Hz ,3ph.	5gal.
SIP-200EM	3hp, 115V/ 220V, 50/60Hz ,3ph.	5gal.



壓床型號 Press Model Number	能 力 Cap.	油壓缸型號 Cylinder Model Number	泵 浦 Pump	外型尺寸 H-Frame Press Dimensions (mm)												重量 (僅框架 重量) W.t (Frame W.t)
				工作檯面高度 Vertical Daylight		C	D	E	F	G	J	K	L	M	N	
	A (max)			A (min)												
SIP-RSC1010	10(101)	RSC-1010	H A E	1016	62	1187	127	473	632	—	756	108	189	889	1321	90
SIP-RSR1010		RSR-1010														
SIP-RSC256	25(232)	RSC-256	H A E	1384	178	1448	302	737	1029	102	762	133	272	673	1930	270
SIP-RSC2514		RSC-2514														
SIP-RSC308	30(295)	RSC-308	H A E	1384	178	1448	302	737	1029	102	762	133	272	673	1930	270
SIP-RSR3014		RSR-3014														
SIP-RSC506	50(498)	RSC-506	H	1233	179	1372	264	730	1086	134	914	184	365	781	1930	490
SIP-RSC5013		RSC-5013	A													
SIP-RSR5013		RSR-5013	E													
SIP-RSC10010	100(933)	RSC-10010	H	1080	178	1295	297	889	1295	171	914	222	441	842	1930	735
SIP-RSR1006		RSR-1006	A													
SIP-RSR10013		RSR-10013	E													
SIP-RSR15013	150(1386)	RSR-15013	E	1232	318	1384	254	1219	1706	232	1118	333	555	1213	2286	1960
SIP-RSR20013	200(1995)	RSR-20013	E	1232	318	1384	254	1219	1706	232	1118	333	555	1213	2286	1960

H：手動 Hand Pumps A：氣動 Air Hydraulic Pumps E：電動 Electric Pumps

3.操作

將上拉油壓千斤洩壓閥放鬆洩壓，避免鍊條拉斷。使用前請確認平台使用高度，將平台升到適當高度後將插銷置入。

再將物件平穩放置，如有搖晃情形請重新放置，務必平穩放置以防物件飛出發生危險。

3.1 調整工作檯面方法：

3.1.1 絞輪式

將昇降絞輪依順時針方向旋緊，將插銷取下，再利用昇降桿調整高度；順針方向上升；反方向則反，定位後再將插銷插回孔內。

3.1.2 油壓式

上升:先將昇降油壓洩壓閥鎖緊再將插銷取下，再利用昇降油壓桿上下操作則檯面上升，定位後再將插銷插回孔內再洩壓。

下降:先將昇降油壓洩壓閥鎖緊再將插銷取下，慢慢洩壓，定位後再將插銷插回孔。

警告：

不建議使用油壓缸上方勾環作為移動支撐使用，若需移動機台請使用堆高機等輔助工具撐起下方空間。

3.1.3 油壓式

上升:先將油壓缸下降至最低點,使用掛勾將鏈條與台面彈簧連接,利用線控上升寸動方式慢慢升高後再將左右兩邊插銷拔出。

上升至上一孔後再將插銷插入,如須再升高則使用上述相同動作即可。。

下降:利用線控上升裝置先將油壓缸上升至**2/3(約100mm位置)**,將掛勾與檯面用鏈條連接後利用線控上升寸動方式使插銷與孔產生間距即可將插銷拔出。

插銷拔出後即可用線控下降鈕下降至下一孔,定位後再將插銷插入即可。



3.1.1
絞輪式



3.1.2
油壓式



3.1.3
油壓式



3.操作

3.2確認2.1銘牌所標示相關訊息，若為電動型請同時注意綠色接地。

3.2.1動力源若裝置為電動型，啟動電源，電源指示燈亮，馬達運轉後再按開關上、下按鈕，則油壓缸依按鈕上、下動作。在出力時油壓錶顯示施壓壓力 kgf/cm^2 / bar。

3.2.2將線控開關上的 "UP" 或 "DOWN" 按住(按UP表示往上；DOWN表示往下)。

出力時,壓力錶指示會上昇。當壓力達最大壓力時即達壓床額定荷載。

3.3工作過程時需注意物件變化，防止施壓過程工件承壓破裂，造成傷害。當按鈕放鬆時壓床自動停止動作，即不再產生施壓能力。操作過程操作人員應注意實施1.安全措施要項，避免危險。無論操作與否操作者四肢及軀體均應避免位於物件或壓台下方，防止物件或壓台突然掉落，造成危險。

3.4工作完成後請將油壓缸主軸縮回最高(原點)避免主軸受到其他物品碰撞，再關閉電源。

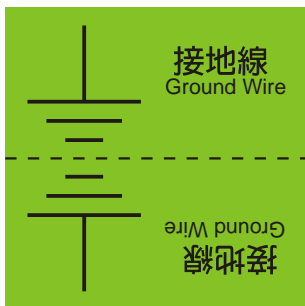


圖3.2

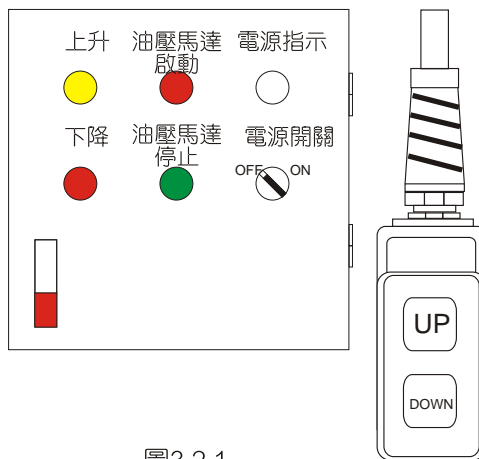


圖3.2.1

4.保養

4.1用油明細表

油品廠牌	國光牌特級循環機油 R
型號	R46 或 AW46
更換週期	運轉約500小時後需更換一次，油量不可低於1/2液面計。

4.2每日運轉時需注意是否有運轉雜聲，若發現異聲請關閉電源檢查。若無法查出原因請立即停止使用並通知原購買廠商。

5.故障排除

下列資訊可有助於解決使用疑問

問題	原因	解決
跳電	1.電源錯誤 2.運載保護器跳脫 3.欠相	1.請依油箱上銘牌所示，檢查電源是否正確 2.檢查電磁閥開關內的過載保護器是否發生啟動，產生跳脫。若發生跳脫二次以上情形則需注意是否馬達發生故障 3.檢查電源三條線是否有一條電線不通造成欠相產生高電流
液壓缸上升或下降速度變慢	1.馬達運轉方向錯誤 2.濾油網阻塞	1.檢查馬達運轉方向是否依箭頭方向指示運轉，可將二條電源線位置對調 2.清洗濾油網



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OPERATING INSTRUCTIONS

H FRAME PRESSES

SIP- series



English : E1~E4

1. SAFETY PRECAUTIONS



Fail to comply with the following cautions and warnings could cause equipment damage and personal injury.



IMPORTANT : Minimum age of the operator must be 18 years The operator must have read and understood all instructions, safety issues, cautions and warnings before starting to operate the SUN RUN equipment. The operator is responsible for this activity towards other persons.



WARNING : To avoid personal injury and possible equipment damage, make sure all hydraulic components withstand the maximum pressure of 700 bar(10,000psi).



WARNING: Always wear safety glasses. The operator must take precaution against injury due to failure the tool or workpiece.



DANGER: To avoid personal injury keep hands and feet away from cylinder and workpiece during operation.



WARNING : Do not overload equipment. Overloading cause equipment failure and possible personal injury. The cylinders are designed for a max. Pressure of 700 bar (10,000psi).



WARNING: Immediately replace worn or damaged parts with genuine SUN RUN parts. SUN RUN parts are designed to fit properly and withstand rated loads.



IMPORTANT: Hydraulic equipment must only be serviced by a qualified hydraulic technician. For repair service, contact the SUN RUN Service Center in your area. To protect your warranty, use only SUN RUN oil.



DANGER: NEVER set the relief valve to a higher pressure than the maximum rated pressure of the pump. Higher settings may result in equipment damage and/ or personal injury. Do not remove relief valve.



WARNING : The system operating pressure must not exceed the pressure rating of the lowest rated component in the system. Install pressure gauges in the system to monitor operating pressure. It is your window to what is happening in the system.



CAUTION: Avoid sharp bends and kinks that will cause severe back-up pressure in hoses. Bends and kinks lead to premature hose failure.



DO NOT drop heavy objects on hose. A sharp impact may cause internal damage to hose wire strands. Applying pressure to a damaged hose may cause it to rupture.



IMPORTANT: Do not lift hydraulic equipment by the hoses or couplers. Use the carrying handle or other means of safe transport.



CAUTION : KEEP HYDRAULIC EQUIPMENT AWAY FROM FLAMES AND HEAT. Excessive heat will soften packings and seals, resulting in fluid leaks. Heat also weakens hose materials and packings. For optimum performance do not expose equipment to temperatures of 65°C(150°F) or higher. Protect hoses and cylinders from weld spatter.



DANGER: Do not handle pressurized hoses. Escaping oil under pressure can penetrate the skin causing serious injury. If oil is injected under the skin, see a doctor immediately.

2.SPECIFICATION

2.1 If you use air or electric pump please check the detail at first :

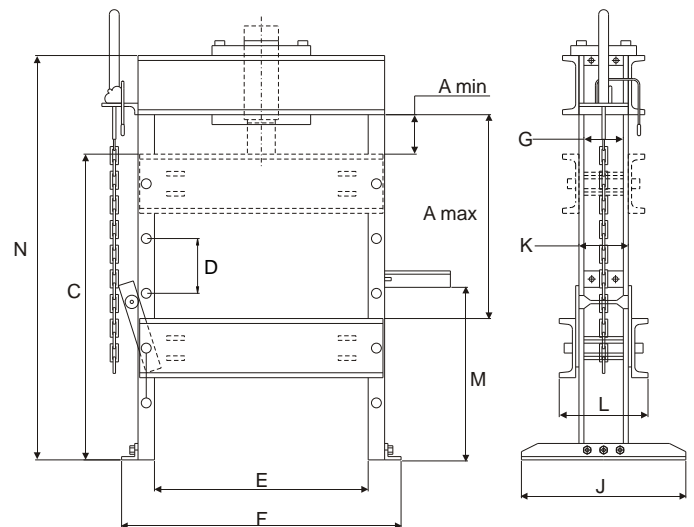
Air pump/ Air pressure : 7~10kgf/cm²

Electric Pump : Please check the data plate

2.2 Hydraulic oil: Aw46



Pump Model	Motor	Oil cap.
SIP-10EM	0.5 hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-256EM	0.5hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-2514EM	1hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-30EM	1hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-506EM	0.5hp, 115V/ 220V, 50/60Hz ,1ph.	3000c.c
SIP-5013EM	2hp, 1115V/ 220V, 50/60Hz ,1ph.	5gal.
SIP-100EM	2hp, 115V/ 220V, 50/60Hz ,3ph.	5gal.
SIP-150EM	2hp, 115V/ 220V, 50/60Hz ,3ph.	5gal.
SIP-200EM	3hp, 115V/ 220V, 50/60Hz ,3ph.	5gal.



Press Model Number	Cap. (tons)	Model No.	Pump	H-Frame Press Dimensions (mm)											
				Vertical Daylight		C	D	E	F	G	J	K	L	M	N
				A (max)	A (min)										
SIP-RSC1010	10(101)	RSC-1010	H	1016	62	1187	127	473	632	—	756	108	189	889	1321
SIP-RSR1010		RSR-1010	A												
SIP-RSC256	25(232)	RSC-256	H	1384	178	1448	302	737	1029	102	762	133	272	673	1930
SIP-RSC2514		RSC-2514	A												
SIP-RSC308	30(295)	RSC-308	H	1384	178	1448	302	737	1029	102	762	133	272	673	1930
SIP-RSR3014		RSR-3014	A												
SIP-RSC506	50(498)	RSC-506	H	1233	179	1372	264	730	1086	127	914	184	365	781	1930
SIP-RSC5013		RSC-5013	A												
SIP-RSR5013		RSR-5013	E												
SIP-RSC10010	100(933)	RSC-10010	H	1080	178	1295	297	889	1295	171	914	222	441	842	1930
SIP-RSR1006		RSR-1006	A												
SIP-RSR10013		RSR-10013	E												
SIP-RSR15013	150(1386)	RSR-15013	E	1232	318	1384	254	1219	1706	232	1118	333	555	1213	2286
SIP-RSR20013	200(1995)	RSR-20013	E	1232	318	1384	254	1219	1706	232	1118	333	555	1213	2286

H : Hand Pumps A : Air Hydraulic Pumps E : Electric Pumps

3. OPERATING

Release hydraulic pull cyl. to prevent chain break. Check height what object enquire and push plug to correct hole. Then put the object on press bed stably.

3.1 How to adjust working table :

3.1.1 Mechanism type

Rotate up/ down shaft clockwise to tight, and take off plug then using up/ down shaft again to adjust height.

Turn shaft clockwise to raise working table and anticlockwise will go down the working table.

As table situation be ready then insert the plug again.

3.1.2 Hydraulic type

UP: Turn off the release valve of hydraulic up/down system, then take off the plug. Using the hydraulic up/down system to go up the table then check the position and install the plug again.

Finally, open the release valve.

DOWN: Turn off the release valve of hydraulic up/down system at first, then take off the plug.

Then open the release valve slowly to go down the table.

Checking the position and install the plug again.

Warning :

Please **DO NOT** use eyebolt or other hook that install on cylinder t1

move hydraulic press. **IT IS DANGER!**

If you need to move hydraulic press please use forklift and shop traveller hold from bottom and side arm place.

3.1.3 Hydraulic type

UP: Advance the plunger to end and then connect the hook and the chain to hang the bed spring.

Take off the bed plug.

Use the remote control to hang up the bed as left 3.1.3.

Reach the final position and plug again.

DOWN: Hang up the plunger 2/3(approximately 100mm) then connect the hook and bed spring.

Take off the bed plug.

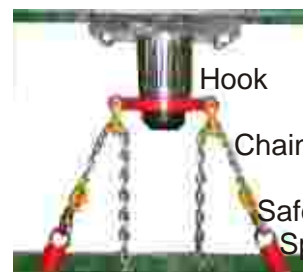
Advance the plunger where final height and plug again.



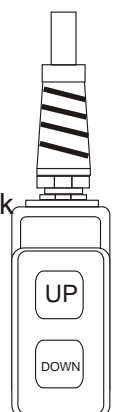
3.1.1
Mechanism



3.1.2
Hydraulic



3.1.3
Hydraulic



3. OPERATING

- 3.2 If the press is electric type, please turn on the power and check motor rotation.
Then press the pendant button to UP or DOWN, the cylinder will go advance or return.
As loading please also check pressure gauge at the same time to provide correct pressure and capacity.
- 3.2.1 Check data plate what voltage, motor and power detail then plug correct power and green ground wire.
- 3.2.2 Turn on the power to "ON" situation and see the lamp light which mean correct power.
- 3.2.3 Press the pendant button to "UP" or "DOWN" continually.
UP: Cylinder advance and DOWN: Cylinder return.
As loading, the pressure gauge will go up to limit pressure and that also mean to reach the Press load capacity.
- 3.3 As press working, must take care about the object which maybe broken or crack to hurt someone. If something happen, please release the button immediately and the press will stop to work.
Otherwise, avoid to stand or put limbs under the bed and object to prevent dropping object.
- 3.4 After working, please return the cylinder plunger to go back to prevent damage.

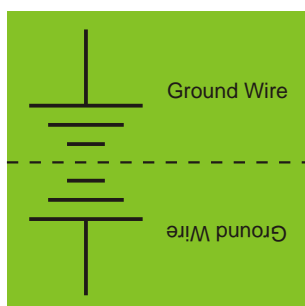


Fig 3.2.1



Fig. 3.2.2

4.MAINTAIENANCE

- 4.1 Check reservoir hydraulic oil level and change oil every 500 hours. Add oil when necessary to bring the level to 1/2" (1cm) below the fill opening.
- 4.2 Hydraulic oil :R32 °
- 4.3 If hear noise frequently please turn off the power immediately to check. If can't find the problem please contact a local Authorized SUN RUN.

5.TROUBLESHOOTING GUIDE

The following information is intended as an aid in determining if a problem exists.

PROBLEM	CAUSE	SOLUTION
Blackout	1.Wrong voltage 2.Fuse problem 3.Phase problem	1.Check power detail by data plate. 2.Check the over load protector be working. If it running over two times, please check motor situation. 3.Check 3 wire working situation, if one of the wire stop to make high electric current.
Cylinder up or return slowly	1.Wrong motor rotation 2.oil filter block	1.Check motor rotation correctly. 2.Clean oil filter.