



巨輪興股份有限公司

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電動壓床 操作說明

STPM



中文 : C1~C4

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。

施工件需明顯且穩固地被支撐，須預防零件因壓力而破裂飛噴。
勿超荷使用各配件。超荷使用配件或壓床易造成工件或機台損毀。

壓床管理者務必使壓床各部位牌示(含警告)明顯可見。

為因應壓床使用多功能性，操作使用時應搭配使用多功能性的保護罩防止施工工件產生意外。
例如施壓前先將工件以包裝方式保護，防止施壓後工件破裂噴出或滑動。

2. 規範

油壓床
能力:200噸
行程:300mm

壓力對照表

使用壓力 kg/cm ²	能力 tons
18	20
36	40
54	60
72	80
91	100
109	120
127	140
145	160
163	180
181	200

電動泵浦
型號:STPM-200EM
馬達:380V-3相-5HP-50Hz
油箱:70L
輸出油流量:50L/min(L.P)
11L/min(H.P)
最大輸出壓力:210kg/cm²

油壓床
能力:300噸
行程:300mm

壓力對照表

使用壓力 kg/cm ²	能力 tons
22	30
43	60
65	90
87	120
108	150
130	180
152	210
173	240
195	270
217	300

電動泵浦
型號:STPM-300EM
馬達:380V-3相-5HP-50Hz
油箱:70L
輸出油流量:50L/min(L.P)
11L/min(H.P)
最大輸出壓力:210kg/cm²

油壓床
能力:400噸
行程:300mm

壓力對照表

使用壓力 kg/cm ²	能力 tons
20	40
41	80
61	120
82	160
102	200
122	240
143	280
163	320
183	360
204	400

電動泵浦
型號:STPM-400EM
馬達:220V-3Ph-10HP-60Hz
油箱:130L
輸出油流量:105L/min(L.P)
29L/min(H.P)
最大輸出壓力:210kg/cm²

油壓床
能力:500噸
行程:300mm

壓力對照表

使用壓力 kg/cm ²	能力 tons
20	50
39	100
59	150
78	200
98	250
118	300
137	350
157	400
176	450
196	500

電動泵浦
型號:STPM-400EM
馬達:220V-3Ph-10HP-60Hz
油箱:150L
輸出油流量:105L/min(L.P)
29L/min(H.P)
最大輸出壓力:210kg/cm²

油壓床
能力:600噸
行程:300mm

壓力對照表

使用壓力 kg/cm ²	能力 tons
21	60
42	120
64	180
85	240
106	300
127	360
149	420
170	480
191	540
212	600

電動泵浦
型號:STPM-400EM
馬達:220V-3Ph-10HP-60Hz
油箱:180L
輸出油流量:105L/min(L.P)
29L/min(H.P)
最大輸出壓力:210kg/cm²

3. 操作

控制箱(電源)



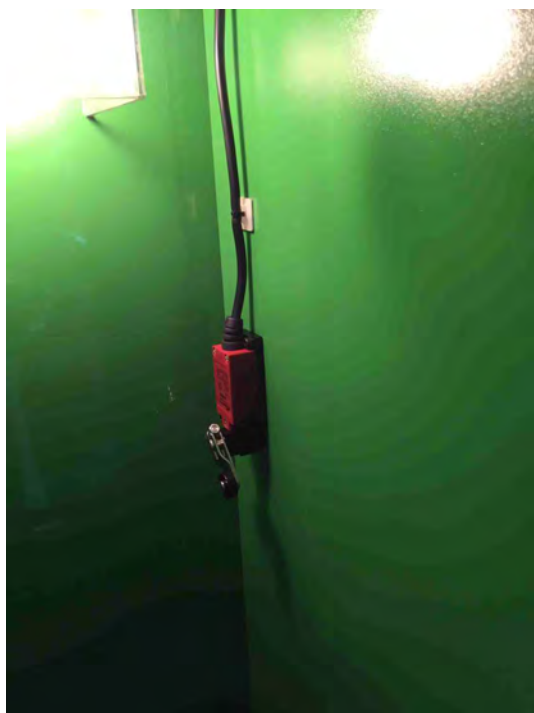
線控



操作方式：

1. 啟動控制箱上電源開關至"ON"位置。
再按下馬達啟動鍵。
2. 利用線控裝置按 "上" 即主軸向上頂昇，放鬆即停止。按 "下" 即主軸下降，放鬆即停止。

上極限開關



下極限開關



3. 操作

校正水平腳架



警告線



藍線：工作啟動線 (必須高於藍線機台才能開始工作)
紅線：機台最下限



4. 保養

★操作每 30 小時即需確認液面是否正常。必要時加入R68液壓油。
液面至少要維持在自油桶頂下2"位置。每年至少全面更換液壓油一次。
下列情況時請常更換液壓油：

1. 油溫到達 140 F(60°C)時。
2. 潮溼和溫度變化大的環境。
3. 沙塵多的環境也可能污染液壓油，所以要每年定期清洗過濾網。
4. 鬆開油桶面板上的螺栓。將泵浦單元自油桶上拿起，注意小油封或零件不要損壞或遺失。
5. 鬆開泵浦底座並用不易燃溶劑清洗。
6. 吹乾後重新組裝。安放泵浦的週圍保持空氣流通，儘可能保持馬達和泵浦乾淨。



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OPERATING INSTRUCTIONS

Hydraulic electric Press

STPM



English : E1~E4

中文
English
Ver. 16

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.

Work pieces must be well supported and aligned so when pressure is exerted, parts being pressed do not slip out or break. Do not stress adapters beyond their capacities. Any pushing or pulling adapters used with this press must have a maximum tonnage rating equal to, or higher than, the maximum tonnage rating of the press, or breakage can occur. The owner of the press must replace all safety-related decals if they become too hard to read.

It is impossible for the manufacturer to provide practical "all-purpose" shielding because this is a general purpose press that can be used in many different applications. The owner of the press must supply shielding that is practical and necessary for each application. Some safety is provided by wrapping the piece in a protective blanket before applying pressure.

2. Dimension

Hydraulic Press
Capacity:200 tons
Stroke:300mm

Pressure Conversion Chart

Pressure	Capacity
kg/cm ²	tons
18	20
36	40
54	60
72	80
91	100
109	120
127	140
145	160
163	180
181	200

Hydraulic Electric Pump
Model: STPM-200EM
Motor: 380V-3PH-5HP-50Hz
Oil capacity:70L
Flpw:50L/min(L.P)
11L/min(H.P)
Max. Pressure:210kg/cm²

Hydraulic Press
Capacity:300 tons
Stroke:300mm

Pressure Conversion Chart

Pressure	Capacity
kg/cm ²	tons
22	30
43	60
65	90
87	120
108	150
130	180
152	210
173	240
195	270
217	300

Hydraulic Electric Pump
Model: STPM-300EM
Motor: 380V-3PH-5HP-50Hz
Oil capacity:70L
Flpw:50L/min(L.P)
11L/min(H.P)
Max. Pressure:210kg/cm²

Hydraulic Press
Capacity:400 tons
Stroke:300mm

Pressure Conversion Chart

Pressure	Capacity
kg/cm ²	tons
18	20
36	40
54	60
72	80
91	100
109	120
127	140
145	160
163	180
181	200

Hydraulic Electric Pump
Model: STPM-400EM
Motor: 220V-10PH-5HP-50Hz
Oil capacity:130L
Flpw:105L/min(L.P)
29L/min(H.P)
Max. Pressure:210kg/cm²

Hydraulic Press
Capacity:500 tons
Stroke:300mm

Pressure Conversion Chart

Pressure	Capacity
kg/cm ²	tons
20	50
39	100
59	150
78	200
98	250
118	300
137	350
157	400
176	450
196	500

Hydraulic Electric Pump
Model: STPM-400EM
Motor: 220V-10PH-5HP-50Hz
Oil capacity:150L
Flpw:105L/min(L.P)
29L/min(H.P)
Max. Pressure:210kg/cm²

Hydraulic Press
Capacity:600 tons
Stroke:300mm

Pressure Conversion Chart

Pressure	Capacity
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42	120
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Hydraulic Electric Pump
Model: STPM-400EM
Motor: 220V-10PH-5HP-50Hz
Oil capacity:180L
Flpw:105L/min(L.P)
29L/min(H.P)
Max. Pressure:210kg/cm²

3. Operation

Control box (power)



Remote-controlled



Operation:

Turn the power switch to "ON" position.
Then press "M start" button to start.

UP

Use remote control and press "up" to raise the piston
as relax this button the piston will stop working.

DOWN

As press "down", the piston will be going down and
if you relax it the piston will stop going.

Up limited switch



Low limited switch



3. Operation

Horizontal fixed



Warning line



Blue line : Start line (table must be over blue line to start working).
Red line : the lowest limit.



Press. Adjust valve

4. Maintain

★ Check hydraulic oil level every 30 hours of operation. Add R68 hydraulic oil when necessary.

Oil level should be more than 2" from top of reservoir plate. Completely change oil at least twice a year. The following conditions require more frequent oil changes:

1. Rigorous duty, where oil temperature may reach 140 F(60°C).
2. High humidity environment and extreme changes in temperature that can result in condensation inside the reservoir.
3. Dirty or dusty environments that may contaminate the oil. Clean oil Filter Screen Once a Year.
4. Loosen and remove reservoir plate bolts. Lift pump unit off the reservoir, being careful not to damage the gasket.
5. Unscrew screen from the bottom of pump unit and clean with nonflammable solvent.
6. Blow dry and reassemble. Keep areas around pump unobstructed to provide good airflow around the motor and pump. Keep the motor and pump as clean as possible.