



巨輪興有限公司

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氣動油壓千斤頂-推車型 操作說明

STC



中文：C1~C4

中文
English
Ver.16

1. 安全預防措施



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：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)。



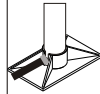
警告事項：系統操作壓力絕不可超過最低壓力元件之值最低值。系統中應加裝壓力錶藉以監測系統中的壓力並了解使用狀態。



警告事項：液(油)壓缸只能在已連接好的液壓油路中使用；快速接頭尚未確實連接時禁止使用或加壓，否則高壓情況下接頭的油封及鋼珠會高速噴出造成人員傷亡。



警告事項：必須使用硬性物體來支撐重物。慎選能承受重物的鋼鐵或木塊來支撐荷載。不要在頂升或持壓使用中將液(油)壓缸當做墊塊使用。



警告事項：頂昇荷載前，請確保油壓裝置平穩。油壓缸必須放在平穩可支撐重物的基座上。若情況許可，可使用油壓缸基座來增加穩定性。千萬不可使用焊接或其他方法將油壓缸與所使用的基礎面(支撐座)連接一起。



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。



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，請連繫就近的SUN RUN服務據點並使用SUN RUN 液壓油保固方為有效。

2. 規範



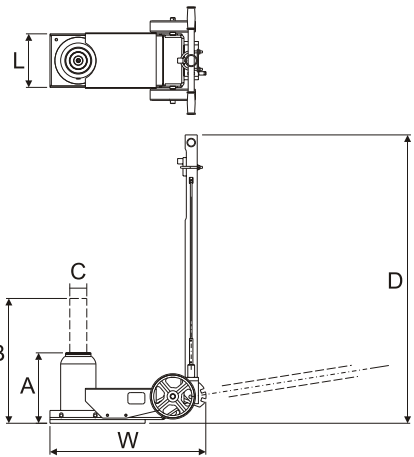
STC-30L



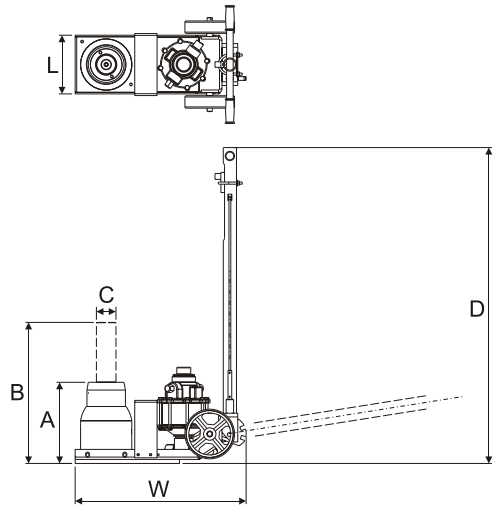
STC-50



STC-50DL



STC-30



STC-50



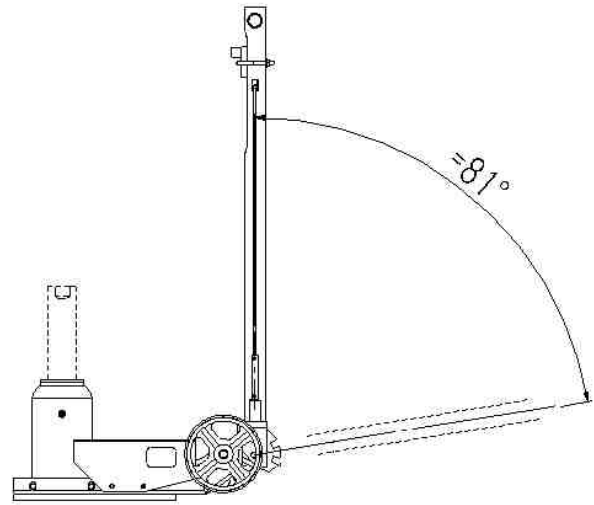
STC-50DL



STC-50

Model Number 型號	Cap. 能力 (tons)	Stroke 揚程 (mm)	Coll. Height 本身高 A (mm)	Ext. Height 伸長總高 B (mm)	Plunger 主軸 C (mm)	Handle Height 柄高 D (mm)	Base Dimensions 底座尺寸 L x W (mm)	Auxiliary Height 輔助高度 (mm)	Air pressure Rang 使用空壓 (kgf/cm ²)	Weight 總重 (kg)
STC-30L	30	120	224.5	350	60	1385	190x570	10,45,80	10-15	45.5
STC-50	50	130	242.5	375	65	1055	190x570	10,60,120	10-15	58.5
STC-50L	50	130	242.5	375	65	1390	190x570	10,60,120	10-15	58.5
STC-50L2	50	130	242.5	375	65	1690	190x570	10,60,120	10-15	58.5
STC-50L3	50	130	242.5	375	65	2190	190x570	10,60,120	10-15	58.5
STC-50DL	1 st 50 2 nd 30	140	160	300	∅85/∅55	1385	190x570	10,60,120	10-15	44.4

3.操作



- 1.請將入風口接上風源。
- 2.視工作場所調整車柄角度以利推入頂高位置；調整車柄時將控制桿向上扳，車柄即可調整角度。
- 3.頂高位置確定平穩後可視高度將適合墊塊接在主軸上以減少頂高時間。
- 4.將洩壓閥旋緊(右旋)再將開關扳向與風源呈直線，則泵浦即動作，此時主軸上升，當頂至適當高度時再將開關扳向與風源垂直，此時泵浦將不會動作，主軸也會保持高度。
- 5.當工作結束時請確定無其他危險情況即可將洩壓閥放鬆(左旋)；主軸會自動下降。

4.保養方式

- 1.不使用時要讓主軸縮回最低位。
- 2.每二週滴三滴油至入風口內(不可滴太多)，使泵浦作動潤滑。
- 3.檢查油量如有不足時請立即加入指定用油(R22或SAE#10)至加油孔位(如上圖)即可。
(加油前請確定主軸在最低點)
- 4.輪軸部份平時上黃油潤滑。

5.故障排除

※氣動千斤頂主要機構：若以下部份有所故障則千斤頂無法發揮功用(故檢查維修情況請以下列步驟檢視)

- 一、加壓泵浦 二、油路活門
三、回油洩壓 四、千斤頂

故障情形	解決方法
一、加壓泵浦 1.動作不順暢 2.無動作 3.磨損至一定程度	請檢查氣壓風源是否傳送至泵浦；若無風源傳送請檢查空氣管路是否有阻塞、破裂或風壓開關故障。
二、油路活門 加壓泵浦動作順暢但千斤頂無法上升，或千斤頂只能在空車時上升，而裝載重物(無超載情形)時卻無法上升。	1.請先檢查千斤頂油量是否足夠或是油品(標準用油:AW-22)濃度過高。 2.若以上問題正常請把和泵浦連接的油路塊部份換掉。
三、回油洩壓 千斤頂上升後會以超慢速度下降。	請把洩壓塊部份換掉。
四、千斤頂 當油壓塊部份已換除而千斤頂仍是上升後緩慢下降： 1.油封老化、破裂。 2.油壓缸缸壁刮傷	1.若千斤頂油封老化、破裂則只需將油封換掉即可。 2.若油壓缸缸壁刮傷則此千斤頂已無法再使用，需更換新千斤頂。

出廠證明暨保固書

產品名稱：

型 號：

序 號：

出廠日期： / /

保固期間： / / ~ / /

該產品經公司嚴格品質管制,並測試合格出廠,本產品自驗收合格日起保固一年,如非人為使用不當或天然不可抗拒之災害,本公司免費維修,如非以上之原因本公司將酌收材料成本負責維修。

公司：巨輪興有限公司

負責人：蘇明益

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Air hydraulic cylinder with trolley

STC



English : E1~E4

中文
English
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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: Always wear safety glasses. The operator must take precaution against injury due to failure of 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 causes equipment failure and possible personal injury. The cylinders are designed for a maximum pressure of 700 bar (10,000psi).



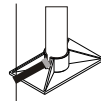
WARNING : The system operating pressure must not exceed the pressure rating of the lowest rated component in the system. Install pressure gauges in the system to monitor operating pressure. It is your window to what is happening in the system.



WARNING: Never pressurize uncoupled couplers. Only use hydraulic equipment in a coupled system.



WARNING: USE ONLY RIGID PIECES TO HOLD LOAD. Carefully select steel or wood blocks that are capable of supporting the load. Never use a hydraulic cylinder as a shim or spacer in any lifting or pressing application.



WARNING: BE SURE SETUP IS STABLE BEFORE LIFTING LOAD. Cylinders should be placed on a flat surface that can support the load. Where applicable, use a cylinder base for added stability. Do not weld or otherwise modify the cylinder to attach a base or other support.



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.



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.

2. SPECIFICATION



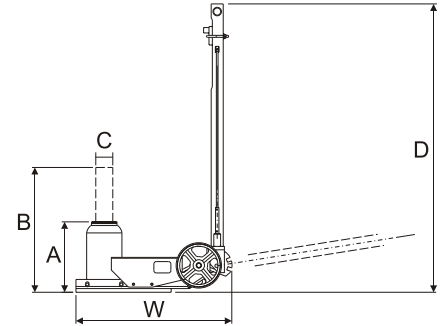
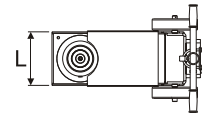
STC-30L



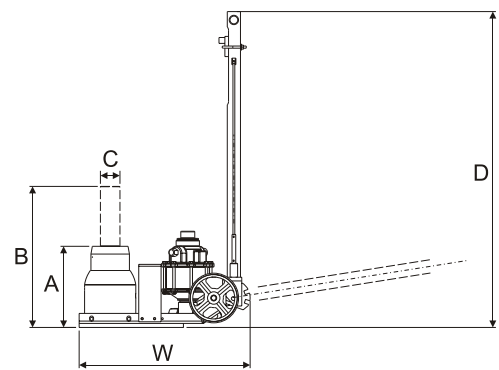
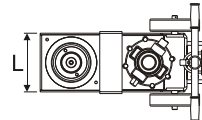
STC-50



STC-50DL



STC-30



STC-50



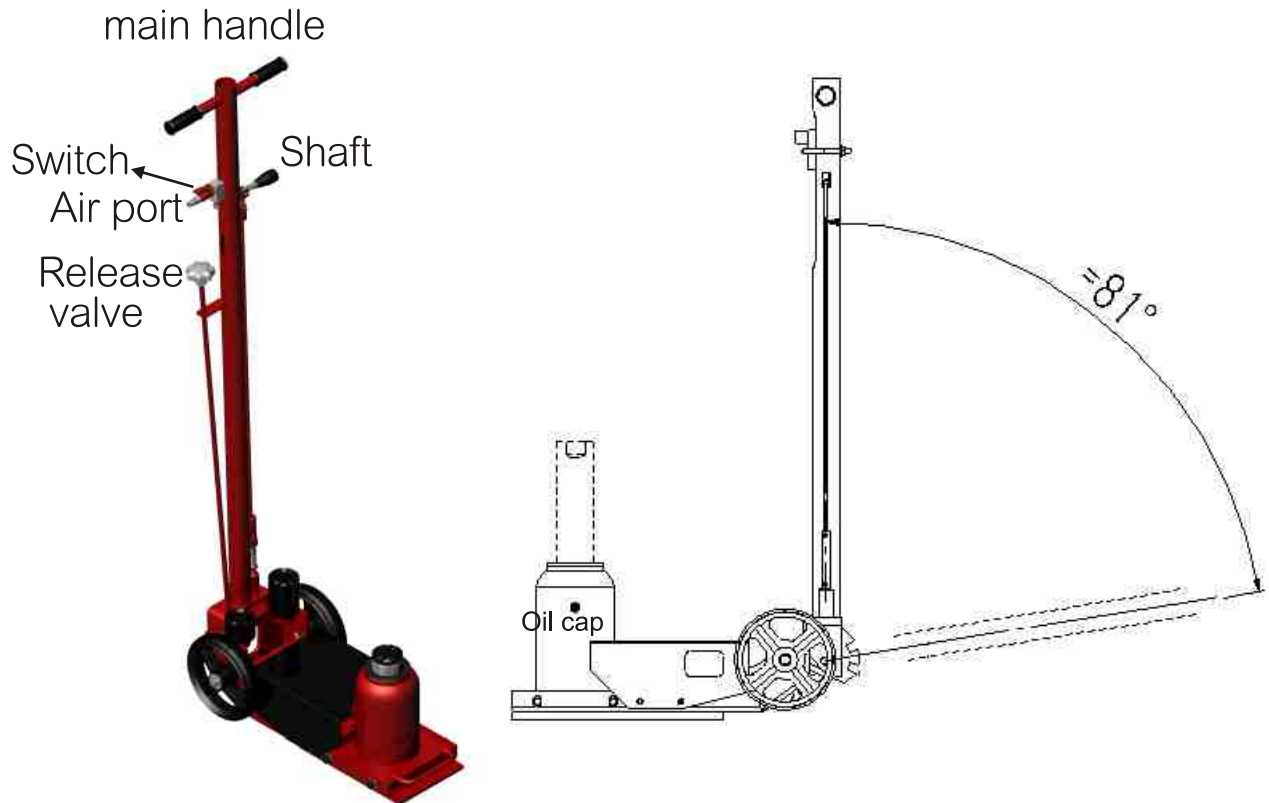
STC-50DL



STC-50

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3.OPERATION



- 1.Please connect air power unit to air port.
- 2.Push up the shaft to adjust the main handle as above paint.
- 3.Push the trolley into the work station and check it in smooth state.
Then put the saddle to suit working area.
- 4.To screw the release valve and push down switch assumes level with the air port then pump begin to work, cylinder raise. As cylinder raise to station that you need ,push up switch assumes vertically with the air port and the pump will be stop ,but the cylinder still keep its height.
- 5.After using must unscrew the release valve and let cylinder retrace to origin.

4.MAINTENANCE

- 1.After using, must retract as original .
- 2.Drip 2~3 drop oil to air inlet to lubricate inner of pump every two weeks. It can't drip to much oil.
- 3.Every six month to check the oil lever and drop R22 or SAE#10 to oil cap.
Plunger (piston) must retract back original as drop oil.
- 4.Every six month scribble little oil on wheel plunger.

5.TROUBLE-SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
A Pump problem 1.Pump can't working smoothly. 2.Pump can't working.	1.Air pipe be oppilated or broken 2.Air inlet switch problem	1.Open air pipe or change it. 2.Change switch.
B Oil path problem Cylinder can't up or load.	1.Wrong hydraulic oil. 2.Pump wear. 3.B part problem	1.Change oil to Aw22 2.Change pump or connect near SUN RUN service. 3.Please connect near SUN RUN service.
C Release problem Cylinder can't retract or not smoothly.	Part problem	1.Change c part. 2.Please connect near SUN RUN service.
D Cylinder problem After change C part, Cylinder still can't retract or not smoothly.	1.Seal wear or old. 2.Inner of barrel wear scraped.	1.Change seal. 2.Please connect near SUN RUN service.