



三久建材工業股份有限公司  
SAN JEOU BUILDING MATERIAL INDUSTRY CO., LTD.



# 柔性門 MEGADOOR

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- WWW.SJTCH.COM.TW -

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『信譽永久、品質永久、服務永久』  
三久建材工業股份的座右銘。



總公司工廠  
San Jeou headquarters at Taichung city, Taiwan.

THE MEANING OF OUR CHINESE NAME (三久) STANDS FOR  
THREE PERMANENCE, WHICH IS OUR MOTTO:  
“PERMANENT REPUTATION, PERMANENT QUALITY, AND  
PERMANENT SERVICE”

## 公司簡介

### COMPANY PROFILE

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三久建材工業股份有限公司成立於1982年，近40年來，取得多項專利與認證。為台灣首屈一指之專業特殊門設計、製造及責任施工保證廠商，營業項目擴及：

- 電動防火捲門
- 遮煙捲簾
- 硬式防颱快速門
- 圍牆大門
- 防水閘門
- 柔性門
- 機棚大門
- 與各式客製化特殊門

事業之經營必須兼顧社會責任及傳承的責任。因此本公司投入大量資金、人力於新產品、新技術之引進及開發，更為追求高品質的產品而領先同業於1998年取得ISO-9001國際品質系統認證，並由工務部門規劃出定期售後服務計劃，使您在使用三久產品時無後顧之憂。

時代變遷導致氣候異常、天災無情，生命、財產毫無保障，三久建材公司肩負責任，從超大型室外防颱門及室內符合CNS、UL、以及EN認證之防火捲門、阻熱捲門。並與國外廠商共同研發多種型式的機庫門、重型門，所有產品均以最高品質生產。

三久公司秉持著信譽永久、品質永久、服務永久的三個永久為公司的經營宗旨，不敢一日或忘。不管時代變遷、經濟興衰，將永遠以三個永久的精神繼續奮鬥，以不負對三久公司厚愛的使用顧客與工程先進。

San Jeou Building Material Industry Co., Ltd. was established in 1982 and has obtained a number of patents and certifications in the past 40 years. It is Taiwan's leading professional special door design, manufacturing and responsible construction guarantee manufacturer. Its business projects extend to:

- Electric fire-resistant rolling doors
- Heat-resistant rolling doors
- Smoke shutters
- Rigid anti-typhoon fast doors
- Fence doors, waterproof gates
- Flexible doors
- Hangar doors
- Various customized special doors

The business operation must take into account social and inheritance responsibilities. Therefore, the company invests and manpower in the introduction and development of new products and technologies, and pursued high-quality products. It took the lead in the industry to obtain ISO-9001 international quality system certification in 1998, and the public works department planned regular after-sales service plan, so that our customers have no worries when using San Jeou products. The changes of the times have led to abnormal weather, ruthless natural disasters, no protection of life and property. San Jeou takes the responsibility from:

- Super-large outdoor anti-slip doors
- Indoor fire-resistant rolling doors
- Heat-resistant rolling doors

Those meet CNS, UL, and EN certifications. Moreover, jointly research and develop various types of hangar doors and heavy doors with foreign manufacturers, all products are produced with the highest quality. San Jeou upholds the three permanent business objectives of reputation, quality and service, and dare not forget it in one day. Regardless of the changes of the times and the rise and fall of the economy, we will always continue forward with our motto.



## 公司設備 COMPANY EQUIPMENT

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- 各類型門片成型機
  - 格柵型門片成型機
  - 各式沖床
  - 各式鑽床
  - 精密車床
  - 鑽銑複合機
  - 精密圓鋸機
  - 角鐵成型機
  - 各式天車
  - 精密剪床
  - 重型折床
- Various types of door forming machines
  - Grille type door piece forming machine
  - Various punches
  - All kinds of drilling machines
  - Precision lathe
  - Drilling and milling machine
  - Precision round machine
  - Angle iron forming machine
  - All kinds of cranes
  - Precision shear
  - Heavy folding bed

## 專業認證 CERTIFICATIONS

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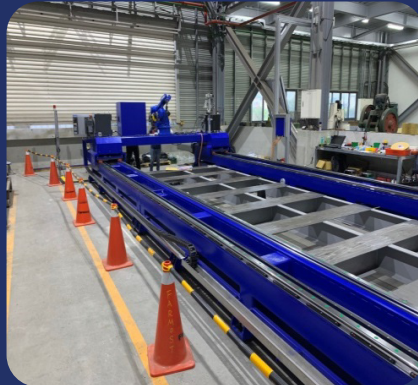
## 專業製造 EXPERTS IN MANUFACTURING

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## 三久公司所生產之門體骨架、抗風樑均透過 自動焊接機器人進行結構性焊接



THE DOOR FRAME AND WIND-RESISTANT BEAM PRODUCED  
BY SAN JEOU COMPANY PASS THROUGH.  
AUTOMATIC WELDING ROBOT FOR STRUCTURAL WELDING.

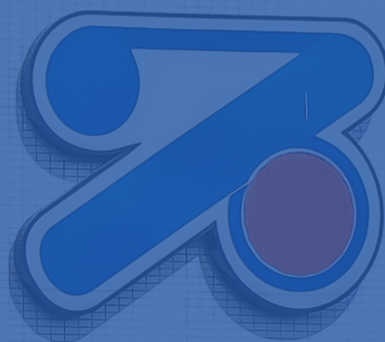


“

想得越大，  
做得越

大





Dream it big, make it  
**BIG**



## 三久柔性門 SAN JEOU MEGADOOR

三久柔性門由三久公司於2015年引入到台灣市場，由於台灣產業結構因素，此類門型在台灣銷售量並不如其他大型門種，加上台灣特殊之氣候條件（夏季濕熱，冬季東北季風強大與濕冷，梅雨季與颱風季節等各種因素），在柔性門使用上導入於進口材料無法符合內部使用需求。

因此三久公司於研發測試階段，開始針對台灣產業需求，對此類門 三久公司於2016年成立專責柔性門研發團隊，針對其表面材質與傳動系統進行結構性重整，與外商不斷的溝通，整合，配合國內各大零組件廠商，經過不停地測試與模擬，於2018年台灣首架自主生產，組裝之抗風柔性門於三久公司誕生。

三久公司所承製 垂直升降柔性門，適合用在風力發電機組裝廠、飛機廠棚、造船廠、礦場或任何超大型開口的廠。三久公司透過深耕產業40年的經驗，整合台灣、德國、日本等國際知名大廠零件，透過整合、分析、比較，進而選擇最符合台灣環境與氣候所適合之零組件，經過不斷測試與修正，正式於2020年提出 垂直升降柔性門 此一系列產品，期望可以在各類產業轉型、台商回流與外資投入的環境下，提供適合使用之 大型抗風門 系統。

三久柔性門系統提供絕佳之氣密性與隔音性。表面PVC布料採用日本百年品牌所提供之布料，其韌性與一般市面上流竄之進口布料差異甚大，由他牌進口之PVC帆布在抗風拉扯情況下容易產生破裂，而三久所選用之PVC帆布則可輕易抵禦17級以上颶風而不易破裂；其不易脫色的特性使得以在極端環境（海岸邊）情況下，可長時間抵禦鹽分與風沙之侵蝕，亦可保持其本色亮度。

傳動系統中也採用德國製造進口的軸承，確保乘載力得以滿足柔性門每日無數次開關不易磨損；抗風量導向輪採用日本軸承，每一顆軸承確保得以承受3000公斤以上的徑向推力，使門體在颶風情況下可順利開關，不因氣候導致門體無法作動。控制器採用德國進口變頻器，電動機則採用國內大廠東元電機，減速機亦採用國內大廠利苕減速機。

The flexible doors were introduced to Taiwan in 2015. Due to the country's industrial structure, the sales volume of this type of door is not high as other large doors. In addition, in Taiwan's special climatic conditions, imported materials used in flexible doors are not suitable for internal use.

In 2016, San Jeou set a dedicated R&D team for flexible doors to restructure the surface material and transmission system, and integrate with foreign companies, and cooperate with domestic component manufacturers. After continuous testing and simulation; in 2018, Taiwan's first self-produced and assembled wind-resistant flexible door were created. In 2020, San Jeou officially proposed a series of vertical lifting flexible doors, to provide a large-scale anti-wind door system proper for use in the environment of various industrial transformation, Taiwanese and foreign business.

These flexible doors are suitable for use in wind turbine assembly plants, aircraft sheds, shipyards, mines, or any factories with large openings. Its system provides excellent air tightness and sound insulation. The surface PVC fabric is tough, unbreakable, and hurricane resist. Its non-discoloring properties make it resistant to erosion by salt, wind, and sand for a long time under extreme environmental conditions, it can also maintain its natural brightness.

San Jeou has integrated parts from international manufacturers in Taiwan, Germany, and Japan along with the most suitable components for Taiwan's environment and climate. The wind resistance guide wheel uses Japanese bearings, and each bearing can withstand more than 3000 kg of radial thrust. The transmission system uses Germans bearings, to ensure that the load capacity is sufficient for open and close countless times. Also, the controller uses Germans frequency converter. The motor, the domestic manufacturer TECO motor, and the reducer, the domestic manufacturer Liming reducer.



想得越大，就能做得越大。  
大型抗風門的問題，交給三久柔性門。



THE BIGGER YOU THINK, THE BIGGER YOU CAN DO.  
THE SOLUTION OF THE LARGE ANTI-WIND DOOR  
FALLS OVER SAN JEOU MEGADOOR.

## 發展方向、應用 DEVELOPMENT DIRECTION AND APPLICATION

結合目前臺灣產業發展方向，強調綠能產業與造船產業，於2018年配合設計單位進行 西門子歌美颯於臺中港組裝廠之柔性門設計，由於業主為外商，於歐洲已使用過柔性門產品，因此其廠房設計大開口之抗風門亦需求使用柔性門。三久公司研發團隊針對臺中港新建廠址特殊氣候進行分析，由於沿岸的關係，於夏天颱風季節最大陣風可達17級，冬季東北季風強大造成風砂塵土飛揚。

臺中火力發電廠亦離新建廠房僅有100公尺之距離，其排放之廢煙對門體影響十分巨大。因此一般市售安裝於機庫之柔性門零組件於此案並不符合使用需求，針對此案之柔性門須符合高耐腐蝕性，兼具絕佳氣密性與防塵功能，傳動系統安全係數亦須提高數倍以符合業主提出之五年保固需求。

Combining with the current development direction of Taiwan's industry, emphasizing the green energy industry and shipbuilding industry; in 2018, we cooperated with the design unit to carry out the flexible door design of Siemens Gamesa's Taichung Port Assembly Plant.

The R&D team of San Jeou Company analyzed the special climate of the new factory site in Taichung Port. Due to the coastal relationship, the maximum wind gust can reach level 17 in the summer typhoon season, and the strong northeast monsoon in winter causes the dust to fly. Moreover, the Taichung Thermal Power Plant is a 100 meters away, the exhaust smoke may have a huge impact on the door. Therefore, the flexible door components generally sold in the hangar do not meet the requirements of use in this case. For this case, the flexible door must meet high corrosion resistance, have excellent airtightness and dustproof functions, and the safety factor of the transmission system It must also be increased several times to meet the owner's five-year warranty requirements.

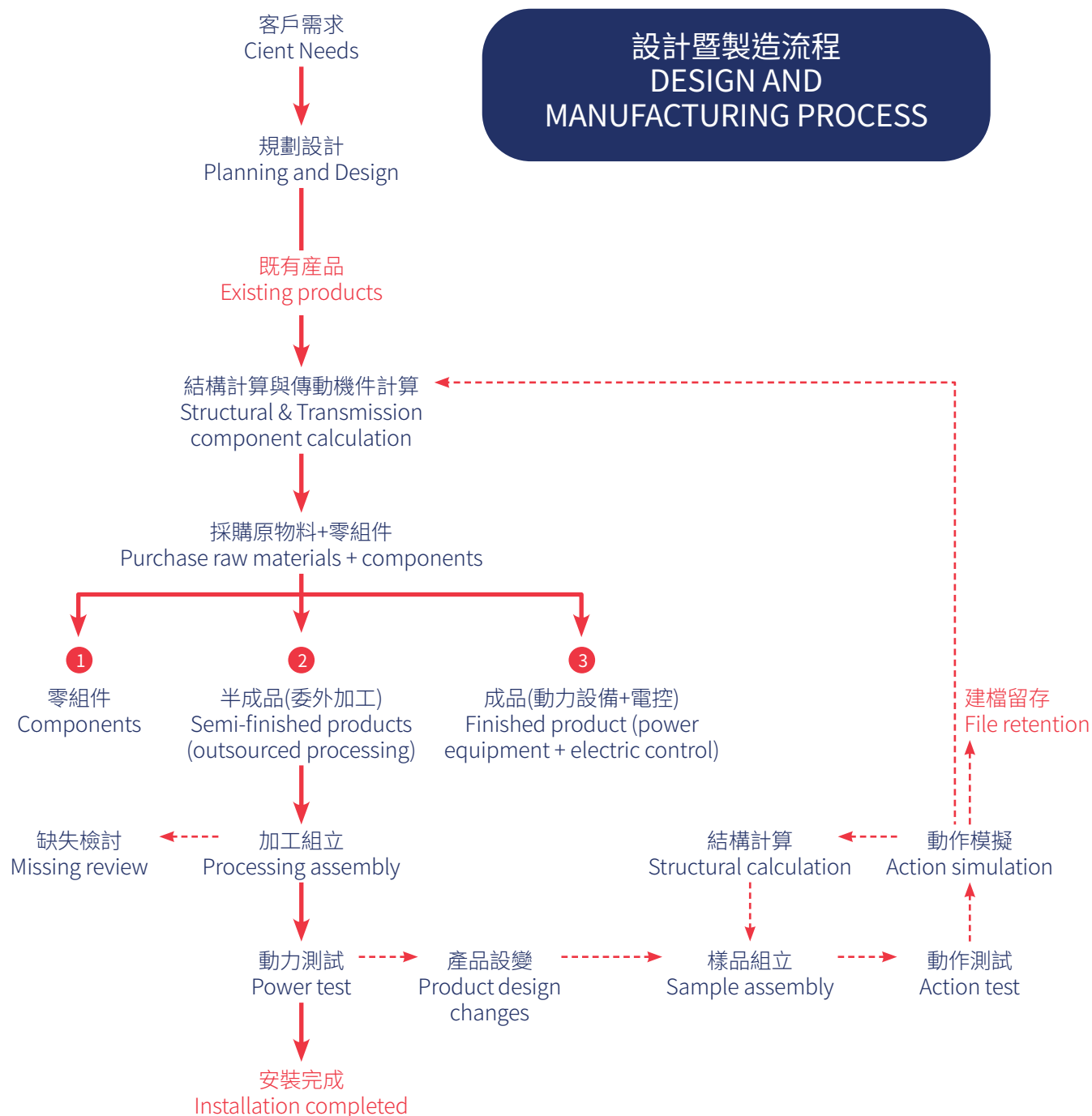
台中港  
Taichung Port







# 台灣唯一 · 自行設計 · 製造 · 安裝 · 售服 DESIGN · MANUFACTURE · NSTALL · MAINTAIN





## 規格 SPECIFICATIONS

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- 承受最大17級陣風
  - (56~61m/s 風速)
  - (377~499kgf/m<sup>2</sup>風壓)抗風
- 最大尺寸50m 高 \* 50m 寬
- 行進速度 6~10m/**min**
- 門體厚度 600mm~2500mm
- 門體重量 3.5T~100T
- 吊升荷重 5T~150T
- 控制系統 人機+PLC+變頻  
(操作面板可以切換速度)
- 馬達上升的同步誤差在5μm 內
- Withstand the 17-level gust wind resistance.
  - (wind speed of 56~61 m/s)
  - (wind pressure of 377~499 kgf/m<sup>2</sup>)
- Maximum size 50m high \* 50m width.
- Travel speed 6~10m/**min**
- Door thickness 600mm~2500mm.
- Door weight 3.5T~100T.
- Lifting load 5T~150T.
- Control system man-machine + PLC + frequency conversion.
- Motor rising synchronization error of 5μm.



## 控制系統 CONTROL SYSTEM

三久公司所設計之控制箱與其功能皆按照歐規結線規格與邏輯思考。由主要四個按鈕操控門體上升及下降，並設有一緊急停止卡榫按鈕。右上方五個紅色燈源顯示門體上停點、下停點、與機械異常之燈號，使操作者可於遠處輕易地觀察門體位置或異常。

右下方之顯示螢幕可判別門體開啟高度，可讓使用者在不需門體全開時精準確認當前門扇開啟高度是否可讓其餘小型車輛或物品進出，減少全開啟或全關閉之能源損耗。

The control box and its functions designed by San Jeou Company are in accordance with European regulations and logical thinking. There are four main buttons to control the door body to rise and fall, and there is an emergency stop button. The five red light sources on the upper right display the door's upper stop, lower stop, and mechanical abnormality lights, so that the operator can easily observe the door position or abnormality from a distance.

The lower right display screen can determine the opening height of the door, allowing the user to accurately confirm whether the current door opening height can allow other small vehicles or objects to enter and exit when the door does not need to be fully opened, reducing the energy consumption of fully opened or fully closed.



三久公司以使用者的角度，針對控制系統設計最具人性化的功能。

From the perspective of users, San Jeou Company designs the most humanized functions for the control system.



## 售後服務團隊 AFTER-SALES SERVICE TEAM

三久建材柔性大門自產自銷，整體的結構經由專業機台製作，骨架亦透過機械手臂焊接讓精度更穩定、現場施作亦透過專業人員的組裝。

由於產品自產自銷，所以三久服務團隊能在12小時內取得需要的更換零配件，並於24小時內安排服務人員，並且在48小時將問題完善。

鋼索每一季安排保養、服務專員亦有特定的檢查表來維護每一樁柔性大門。

San Jeou's flexible doors for building materials are self-produced and sold. The overall structure is made by professional machines. The skeleton is also welded by robotic arms to make the accuracy more stable. On-site implementation is also assembled by professionals.

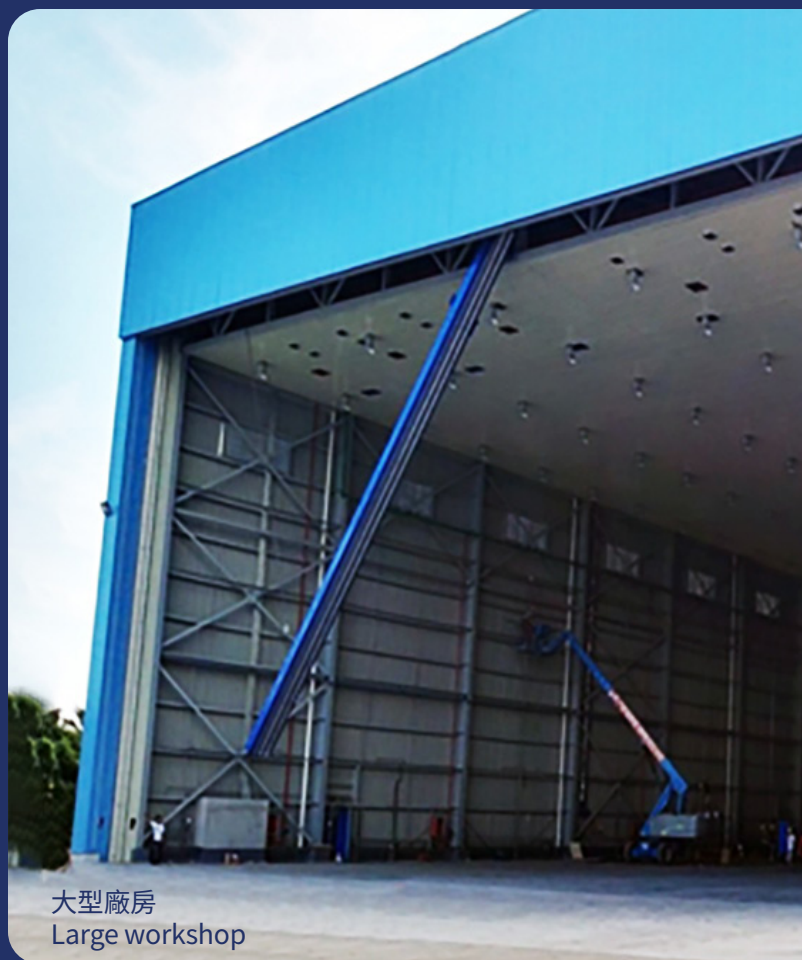
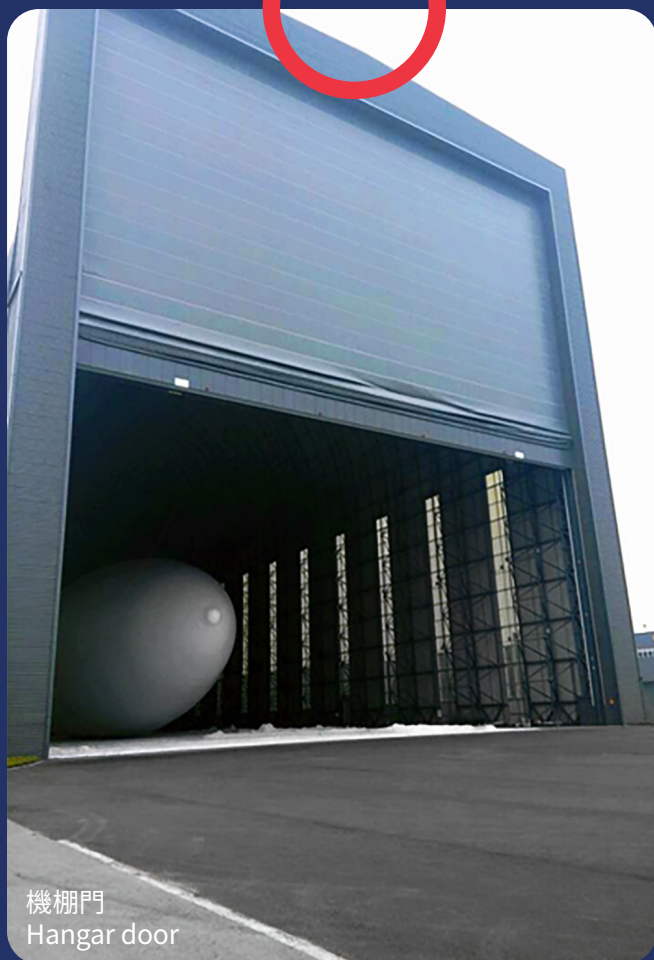
Since the products are self-produced and sold, San Jeou service team can obtain the required replacement parts within 12 hours, arrange service personnel within 24 hours, and solve the problem within 48 hours.

Maintenance of the steel cable is arranged every season, and the service specialist also has a specific checklist to maintain each flexible door.



## 三久柔性門 圖片庫 SAN JEOU MEGADOOR GALLERY

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## 三久建材工業股份有限公司

SAN JEOU BUILDING MATERIAL INDUSTRY CO., LTD.

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