

VIGOR

印刷電路多層板 真空壓合機

HYDRAULIC VACUUM LAMINATING PRESS



使用於：

1. 多層印刷電路板
2. 銅箔積層板
3. 軟性印刷電路板
4. 軟硬結合印刷電路板

USING FOR MANUFACTURIN:

1. Multi-layer printed circuit board.
2. Copper-clad laminates.
3. Flexible printed circuit board.
4. Rigid-Flexible printed circuit board.

活全機器股份有限公司
VIGOR MACHINERY CO., LTD.

www.supvigor.com.tw

機械構造：

1. 壓機鋼構本體，依電腦精密結構計算，及受力變形分析，採高強度鋼板焊接完成後，經完整之內應力消除，一體成行加工，確保機械持久性之重覆精度。
2. 熱板經過多道精密加工程序研磨完成後，單塊熱板平行度、平坦度皆在 ± 0.015 mm/m以內；溫度公差在 $\pm 1.5^{\circ}\text{C}$ 以內。
3. 活塞用白銑，研磨完成後，硬度在HRC50°~55°，耐磨不洩油，油封採用世界通用規格油封，方便保養及維修。

電氣控制單元：

1. 先進之工業級電腦控制系統，以I FIX圖控軟體及WIN2000作業系統為基礎，編撰軟體操作控制程式，於銀幕上同時溫控及紀錄溫度、壓力、真空度、第三曲線及數據。
2. 人性化的操作模式，簡單易學，5000組以上生產製程配方及記憶。

液壓系統：

精選台、美、歐、日之液壓系統元件及泵浦，並採集體迴路系統設計，確保液壓系統操作之高穩定性及系統精度。

加熱及冷卻單元：

1. 加熱單元泵浦及另件，均選用世界最高等級之配件，冷卻器內部採用不銹鋼U型管設計，沒有銹蝕穿孔及因冷縮熱脹，而產生龜裂之公安危險，一體成型製作，美觀不佔空間。
2. 積多年之實際操作經驗，及精確之互補計算，保證得到最安全及合適之加熱及冷卻效果。

真空系統：

1. 真空裝置採系統式設計可單抽一、二抽一或三抽一，減少抽真空時間，增進產品品質，而氣液分離桶則有效濾除從真空艙抽出來之空氣水份，增長真空泵浦壽命，並減少維修次數。



電氣控制單元
Electrical control panel



液壓系統
Hydraulic power unit



加熱及冷卻單元
Heating and cooling system



真空系統
Vacuum system

Mechanical Structure:

1. The steel frame body of press machine as per computer precise structure calculation and deformed analysis due to outer force, steel frame made by high strength steel platen. After welding finished, the inner stress of steel platen has been eliminated completely. To ensure machine with long-term precision.
2. Heat platen manufactured by various precise processes, after effected grinding process, parallelism & plainness of single heat platen is within ± 0.015 mm. The temperature tolerance is within $\pm 1.5^{\circ}\text{C}$.
3. Piston made by FCMW material and after through precise grinding, hardness meets HRC 50° - 55° which is wear-resisted and will not leak oil. The oil seal based on common specification which is popular in all over the world, easy for maintain and repair.

Electrical control panel:

1. The advanced industrial grade computer control system based on I FIX illustration control software and WIN2000 operation system, to edit software operation program at screen and display thermo-control, recording temperature, pressure, vacuum status, third curve, data value, etc. at the same time.
2. Humanized operation easy to learn, with more than 5000 manufacturing process formula and memory.

Hydraulic power unit:

With excellent reputed brands hydraulic system components and pump from Taiwan, U.S.A., Europe, Japan and also with concentrated circulation system design, to ensure the high stableness and system precision of hydraulic system operation.

Heating and cooling system:

1. The pump & component of heating unit also equipped with worldwide highest quality products. Inside unit with U shape stainless steel design, without rested & corroded hole and worry of crack problem for public danger due to cold shrunk, heat inflated factor. The whole unit formed by one-piece body which is beautiful and will not occupy space.
2. Since we accumulated actual operation experience for many years and after effected the precise calculation between heating & cooling, to ensure the most safe, suitable heating and cooling effect supplied.

Vacuum system:

1. The vacuum device equipped with operation system or design, to perform one vacuum system for single, 2 or 3 hot press cabins. To reduce vacuum pumping time, to increase product quality. The air, liquid separating barrel enables vacuum chamber to filter & pump out the air, humidity. To extend the life of vacuum pump and to reduce times of maintenance.

※本資料解釋權歸活全機器股份有限公司所有。 ※Copy right by VIGOR MACHINERY CO., LTD.

活全機器股份有限公司 VIGOR MACHINERY CO., LTD.

台中縣霧峰鄉五福路798號
NO. 798, Wu-Fu Rd., Wu-Feng Hsiang, Taichung Hsien, Taiwan.
Tel: 886-4-2331-3388 Fax: 886-4-2331-3377 <http://www.supvigor.com.tw>
E-mail: c.s.huang@seed.net.tw E-mail: sa-2@supvigor.com.tw

大陸辦事處:
廣東省東莞市長安鎮新安社區新安二路9號城市花園B3-12D
Tel: 0769-2399-4598 Fax: 0769-8238-1276 服務專線: 13609685297

江蘇省蘇州市吳中區碧波街遠洋花園4單元307室
Tel: 0512-6267-5616 Fax: 0512-6513-8125 服務專線: 13776097137