

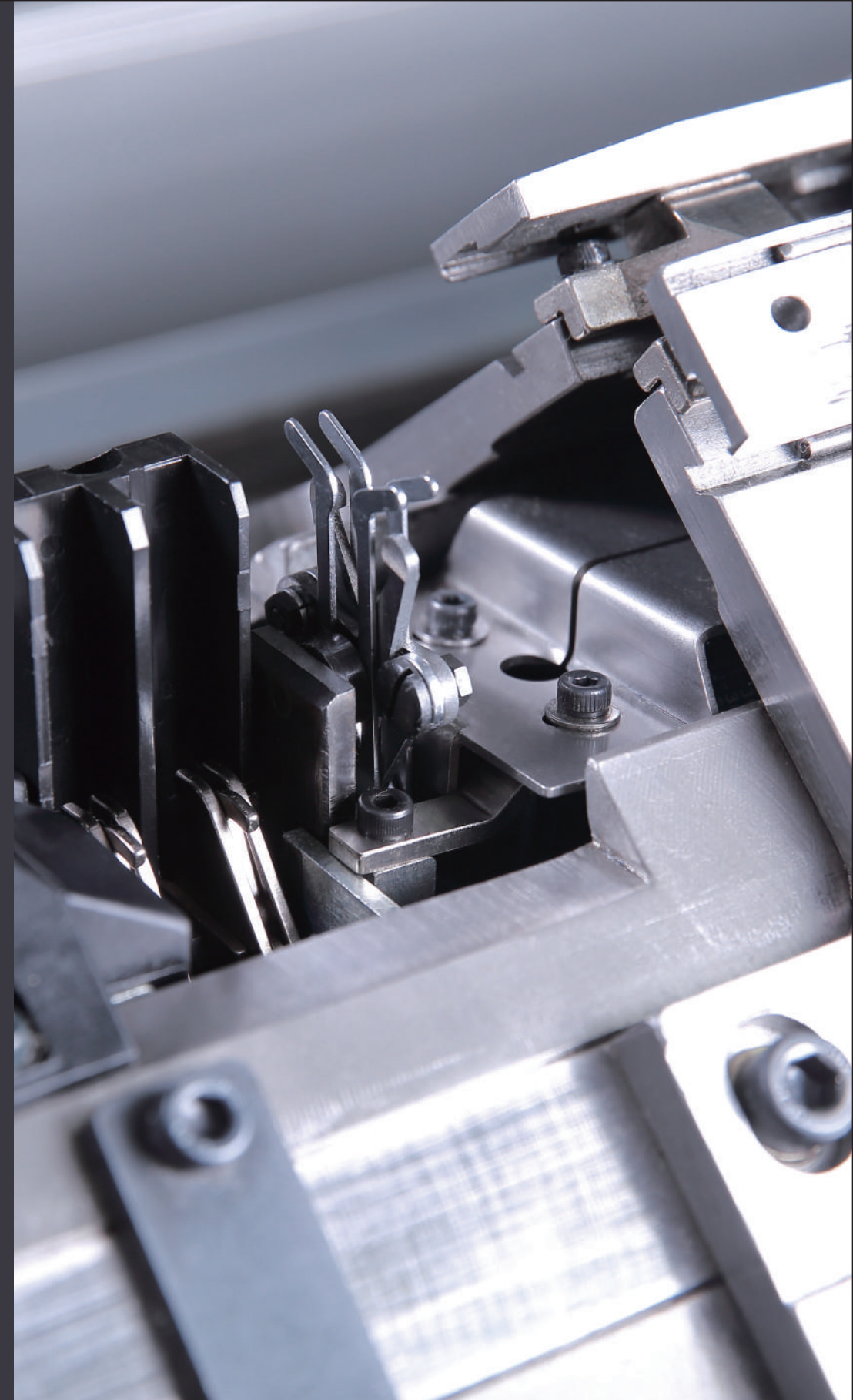


Computerized
Flat Knitting Machine

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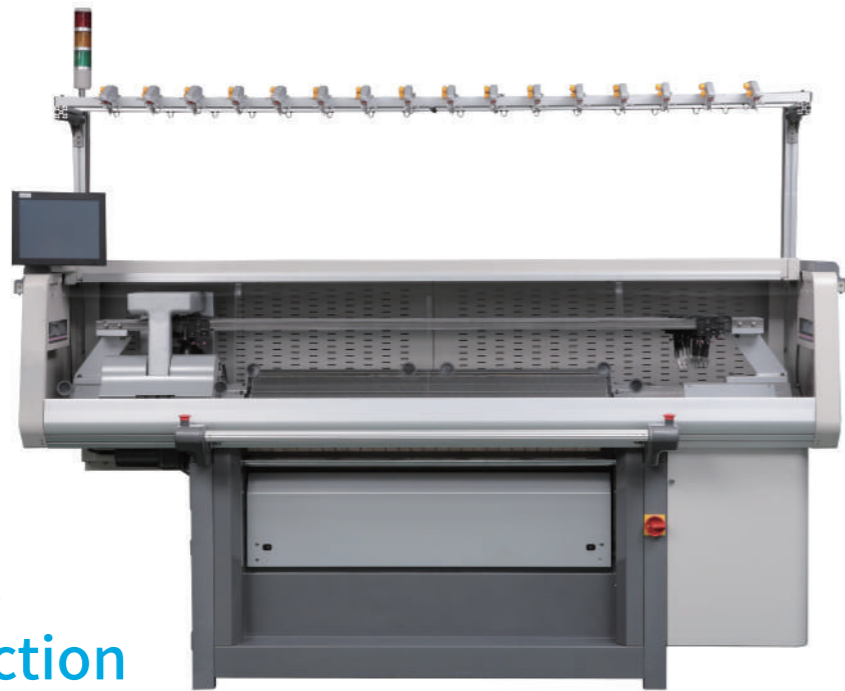
Series

Computerized
Flat Knitting Machine

全電腦橫編針織機

PLF-WS112

Product Introduction



產品
介紹
PLF-
WS112

Computerized Flat Knitting Machine

Pai Lung's PLF-WS112 is designed for actual knitters' demand, enabling customers to get better investment returns. We provide the most affordable 45" level computerized flat knitting machine with following value:

- Realistic for demand- to meet most of the width of the product design.
- Appropriate equipment - keep most of the major systems and specifications.
- Adhere to quality - insist on the high level of technology without compromise
- Feedback to customer - A right decision for customer to reach a high performance to price ratio.

PLF-WS112 heritages the same superior system from Pailung's existing computerized flat knitting machine -With a single carriage and double system which is easy for knitters to produce almost range of sweaters. Adopting unique Piezo needle selecting system is able to increase the production speed significantly. Standard one-side cutter and gripper unit and automatic setup comb, with multi adjustable tension roller but automatic tension settings, can complete production easily and reduce yarn waste. One lateral auxiliary feeder system is a standard

device for yarn smooth feeding assistance. Base on customers' demands, we can provide standard or simulate other gauge effects for more flexible product performance.

Customers also can purchase optional equipment according to their demands and meet their requirement.

Pailung's endless creativity comes from market demand. We listen to customers and find the best resolutions. PLF-WS112 is exactly the best essential flat knitting model for enhancing customers' competitiveness.



全電腦橫編針織機

符合市場最實際的需求,使客戶投資效益更能顯而易見的PLF-WS112,為佰龍為業者提供最實惠的45"橫編針織機。我們所提供PLF-WS112的價值及信念為

- 切合實際- 可以滿足大部分產品寬度的設計。
- 裝備適切- 保有機台的主要系統及配備規格。
- 固守質量- 堅持工藝水平不妥協的基本信念。
- 回饋客戶- 提昇性價比助益於客戶投資回收。

PLF-WS112 承襲佰龍現有電腦橫編機既有優勢系統-單機頭雙系統對一般毛衫生產可謂駕輕就熟。採用新式陶瓷選針系統,對於生產速度提升有加分效果。標準的單側夾切紗及起底設備,搭配羅拉多段數功能及最佳化拉力自動設定,便利操作者於多種式花型組織之完整織造程序。織針可依據客戶的需求,提供標準或是仿針距之效果,配合耐用可靠的機構連動型式新克山角組,可適切完成所指定的織造動作。具備單側輔助送紗系統,助於協助及穩定紗線餵入。本機並可依據客戶指定需求加入選購配備,滿足客戶不同的需求。

可針對市場需求改變是佰龍的成長動力來源之一。我們傾聽客戶的想法,從客戶的思考角度中,提出解決

客戶面臨的方案。佰龍PLF-WS112 正是提升客戶基本競爭力之最佳機種。





1.2. Intuitive Human- Machine interface & Advanced Control system

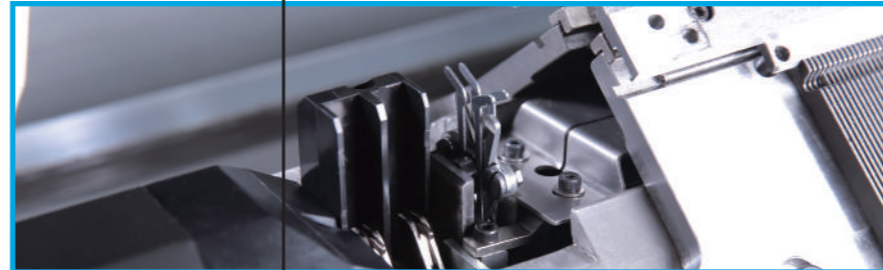
Intuitive Human- Machine interface-
Equipped with a large 12.1 inched color LCD touch panel, 1024x768 high resolutions, all machines' statuses are graphically displayed, so it is easy to learn and understand. The USB port is on the back of the panel.

Advanced Control system-
Integrated all control needs in simple operating functions, it can able to present a full display of knitting parameters including working width, current density value, roller tension, racking, yarn carrier position control, production data, etc., and support multiple languages.

直覺式人機操作介面 & 先進的控制系統

採用12.1英寸超大畫面觸碰式背光全彩液晶螢幕,除了機台運轉狀況一目瞭然外,更可在1024X768高解析度下,可直接於螢幕上編輯編織程式為特色檔案存取以USB方式輸入。存取槽在螢幕背面。

控制器整合所有控制需求於簡易操作功能中,能完整顯示編織時的參數,如:最大織寬,目前度目設定值、目前羅拉拉力值、搖床移針位置、起針點...等資訊外,也可同時查詢所有生產資料,包含預定件數、完成件數、單片時間等重要訊息,並支援多國語言。



3. Automatic Yarn cutter and Gripper Device

Automatic yarn cutter and gripper device work together with setup comb in continuous production and it can also cut unnecessary yarns to avoid waste.

自動夾切紗裝置

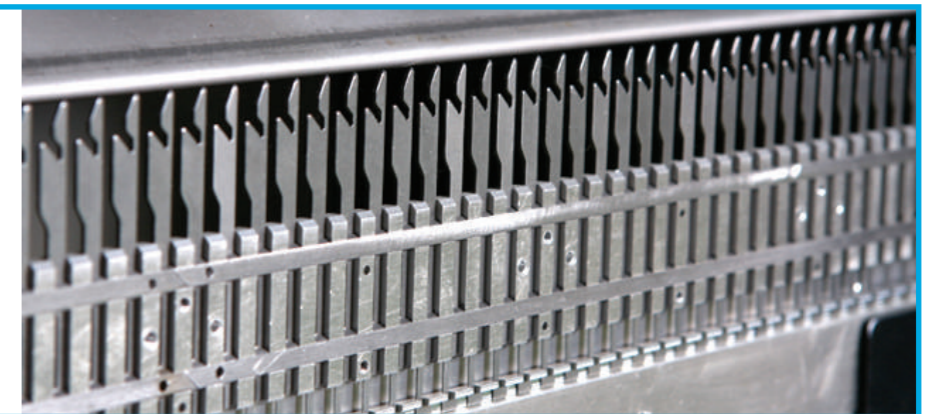
夾切紗裝置可將編織過程中,與衣片相連接、但暫時不用的紗線剪斷,避免浪費紗線。

4. Automatic Setup comb

Set yarn is hooked in comb needles to prevent traditional weighting and yarn lost. Unique setting needle design can make sure the setting action easy. Cooperated with yarn cutter and gripper device, it can increase speed of knitting processes.

自動起底板

特殊扣針式起底針設計,確保自動起底功能正常,起底紗不脫鉤,加快編織速度。搭配夾切紗模組,可單片獨立編織,大幅減少前後衣片間的廢紗量。進而達到節省紗線成本及縮短編織時間,增加產量。

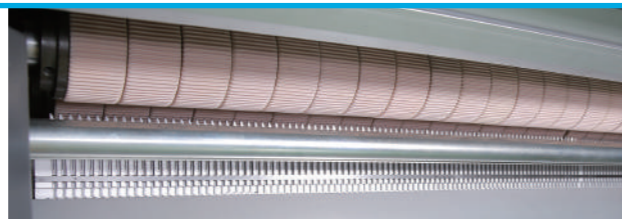


5. Adjustable tension take down system

Rollers tension is adjustable according to fabric length by program control. Partial tension on fabric pieces can be also achieved to reduce fabric performance.

多段獨立式可調張力羅拉

羅拉張力依衣片長度作程式多段控制。



8. Aux. feeder

It is easier for yarn tension control and can improve knitted fabric quality and working efficiency.

側邊輔助送紗裝置

讓操作者更方便調整喂入紗線張力,有效提高衣片的品質與編織速度。



6. New pizeo- electronic actuators

New pizeoelectronic actuators- for better needle selection and performance.

陶瓷撥片選針系統

提升選針效率及穩定度。

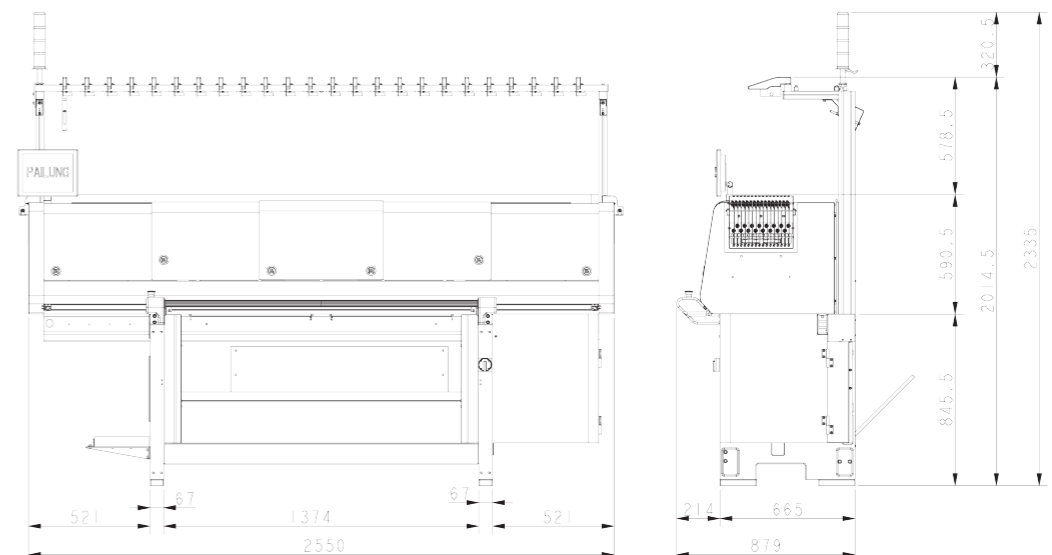


7. Standard yarn carriers

Machine is with 9 pcs of yarn carriers. Plating yarn carriers is optional.

標準喂紗嘴裝置

提供單側9支喂紗嘴。除一般紗嘴外,另有疊紗紗嘴可供選擇。



Dimensions: (unit: mm) 尺寸圖:(單位:公厘)

Net weight: 750 Kg 毛重: 750 公斤

針距範圍	7G、12G、14G 及可變針距
織造寬度	45英寸(114cm)
機頭系統	單機頭雙系統設計
編織功能	除一般織/吊目/不織/移環翻針等，可同時前床翻後床及後床翻前床，不受機頭方向限制。
應用組織	絞花/正反目/挑孔/成型織片/選色提花/贅肉組織等。
選針系統	特殊壓電陶瓷撥片作動多段全提花選針。
編織密度(度目)	線圈密度由步進馬達所控制，具備256段可編程度目值，左右系統獨立。
編織速度	最高1.2米/秒，編織速度因針速和編織條件而有不同。多段可調節速度，並具備16段可編程序速度。
搖床	採高轉速伺服馬達搭配精密滾珠螺桿傳動，在左右各1英寸範圍內之搖床位移皆由程式控制，可於針床任何位置搖1/2針和1/4針並具備個別微調位移之功能。
沉降片	活動式沉降片
傳動方式	高強度正時皮帶配合伺服馬達往復運作。
自動夾切紗組	左邊一組，一組紗剪組內包括兩支紗夾與一支紗剪。有效節省紗線，控制紗尾長度
紗嘴	單側9支紗嘴，便於在任何位置切換紗嘴。
導軌	配置4支導軌
多段可調式過紗架	左邊16支設計
上段張力天線	16個張力天線
送紗裝置	左邊1組側邊送紗裝置
密閉式工作空間	全機覆蓋以保護人員並兼防塵及減低噪音。
緊急自鎖開關	機台具備1只，遇緊急可立即按下停車鈕，切斷電源
自停裝置	斷紗，紗結，紗線張力改變，斷針，落布，倒捲，撞針，搖床異位，機頭異位，程式錯誤等皆會使機台設備自動停止。
三色操作警示燈	以不同燈色顯示機台狀態。
起底板裝置	操作簡易，不易起底失敗，配合夾切紗模組，加快生產速度，具備32段可編程起抵拉力值。
捲布系統	羅拉多段電腦控制，全自動打開和關合，具備32段可編程捲布拉力值。
系統顯示	無按鍵設計，採12.1"觸碰式彩色背光液晶面板，具1024X768高解析度，人因工程介面設計，畫面操作簡單易
語言種類	中文/英文，可直接切換。可提供其它語系。
花型輸入	可使用USB 2.0
軟件	Kniteditor
不斷電系統(UPS)	在突然停電時，提供備用電源予機台運作
規格	單相交流 220V±10%，50~60 Hz

選配：

- 具備主副羅拉之下布系統
- 右邊夾切紗裝置
- 右邊側邊張力天線
- 以及右邊7隻紗嘴
- 疊紗紗嘴

※以上規格配備若有變更否，無法先行通知，仍以實體為準

Gauge	7G, 12G, 14G and gauge simulation
Knitting Width	45" (114cm)
Carriage/System	Single carriage double systems
Knitting Function	Knit, Tuck, Miss and simultaneous Transfer, front or back, regardless of carriage direction
Knittable Pattern	Cable, Links-Links, Lace, Shaping, Color Jacquard, Bourrelete,
Needle Selection	Full-Jacquard needle selection by Piezo system
Stitch Density	Stitch density controlled by stepping motors with adjustable levels which can be stored in 256 density group in each knitting system.
Knitting Speed	Max 1.2m/sec. Knitting speed varies according to gauge and knitting conditions. Variably adjustable speed levels which can be stored in 16 speed groups
Racking System.	Servo motor with ball screw racking system. Max 1-inch racking left and right side each. 1/2 and 1/4 pitch also available from any position.
Sinker System	Movable sinker.
Transmission System	Belt driven transmission system via AC servo motor.
Yarn Cutter and Grippers System	1 set of one yarn cutter and two grippers on left.
Yarn Carriers	Total 9 yarn carriers.
Trail	4 trails
Side Tension	Adjustable side tension- 16 units on left side
Top Tension	Top tension devices - 16 units
Feeding Device	Aux. feeder unit on left
Covered working area	Full safety cover for protecting user and dust-proofing.
Emergency Stop	One emergency stop buttons on left
Auto-Stop	Break yarn, knot yarn, yarn tension changes, needle broken, fabric drop, fabric rewind, improper position of racking, improper position of carriage, and programming error, etc will automatically stop the machine.
3 Colors Warning Lights	Green light- Normal operations Yellow light- fabric take down completed. Red light- Abnormal stop.
Setup Combs System	Setup Comb with special setup needles. Setup tensions are stored in 32 tension groups
Takedown System	Main roller 256 level of adjustable tensions can be stored in 32 tension groups. The roller is controlled by computer to open and close automatically
Control Display	12.1" Back-lit LCD Touch Panel. 1024x768 high resolution
Language	Language available in Traditional Chinese and English. Other language is potential.
Data Input	USB 2.0
Software	Kniteditor
UPS	Power supply for resuming knitting after power failure
Power input	One-phase AC power 220V±10%, 50~60 Hz

Options:

- Main and sub roller take down system
- Right side grips and cutter unit
- Right side tension
- Right side 7 units of yarn carriers
- Plating yarn carrier

※Above equipment maybe changed without notice.