

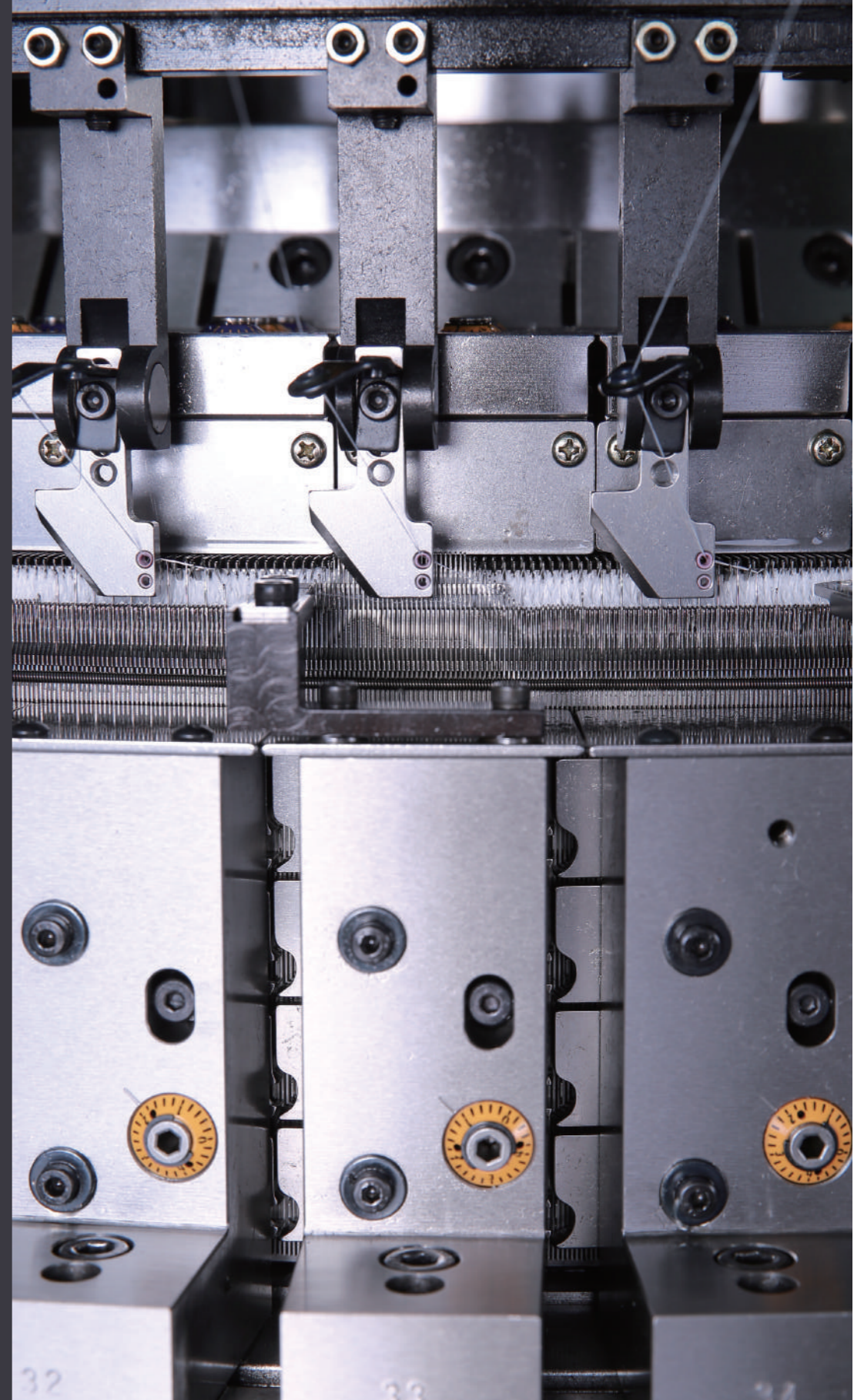


High Pile Shearing Circular  
Knitting Machine

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THE FABRIC  
OF INNOVATION

# PAI LUNG



# Knitel

 Series

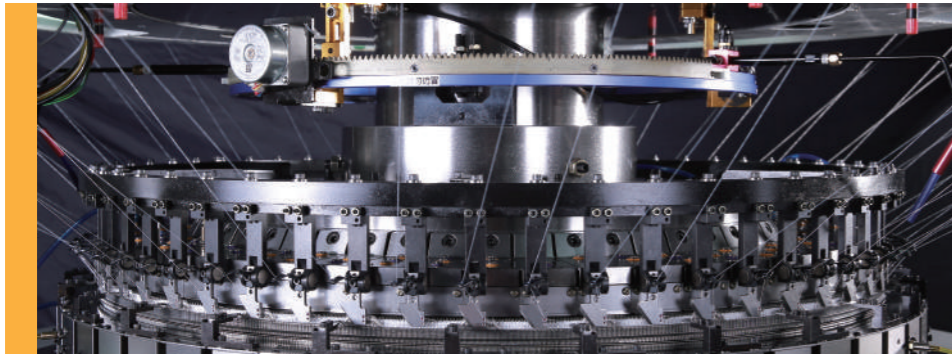
Terry

High Pile Shearing Circular  
Knitting Machine

長毛剪毛圓筒針織機

PL-KDSPS-HP





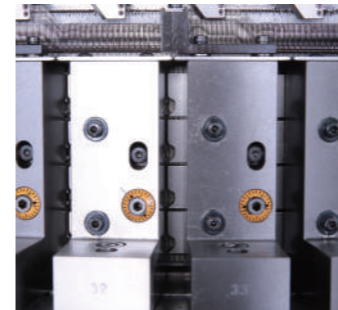
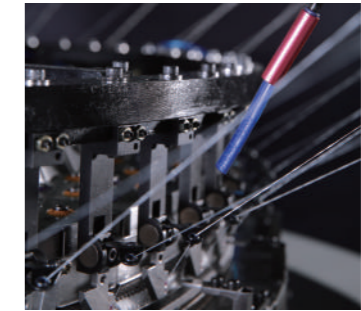
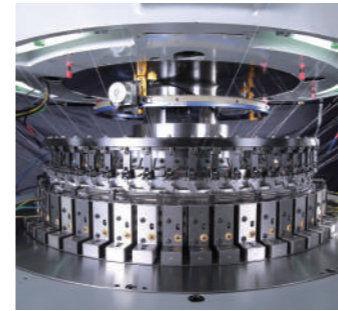
## Products Introduction

PL-KDSPS-HS offers exhilarating performance in high pile direct shearing function. With pure Pai Lung refinement in combining the general loop shearing technology, and high production ability, now available with either a loop length of more than 10mm or a multi feeder system – PL-KDSPS-HS is more accessible than ever.

Pai Lung has established the Knitel knitting head as standard technology in the circular knitting machine. PL-KDSPS-HS is general equipped with the single cam track on the dial and cylinder, smooth cam surfaces, two yarn feeding carrier system in loop and ground stitches are all suitable for high pile structure in knitting process. High quality of the machine frame helps to reach heavy loading requirement.

This machine is based on double jersey knitting structure, every two feeders as one unit. Different gauge of dial and cylinder, brings the ground structure more minutely and higher density. Pile forming from original cylinder pile needle changed to dial pile needle, lead the piles inwards, to prevent piles down by anti-dust device while knitting. 4 cam tracks in cylinder now, bring you more possibility in ground face. We also placed

the dial pile needle and cutter in the same direction, loading between dial and cylinder is decreased, RPM is raised, and less debris will accumulate as well. PL-KDSPS-HP can produce plaiting terry with pile length 4mm~8mm, reverse plaiting with pile length 4mm~12mm. Fabrics from PL-KDSPS-HS can be applied for home textile, industrial purpose, man made fur apparels, and toys.



## 產品介紹

### PL-KDSPS-HP

有容乃大,故能成兼容並序之美;結合佰龍原有機上剪毛特性,以及長毛效果功能。加以多口數設計優勢,能有效地取代市面上現有低口數、低效率的長毛割圈或仿毛皮織造相關機型。佰龍在此長毛剪毛機的設計研發上,乃汲取業界對長毛織物運用經,具備客戶重視的實用機能性和此類機型獨特的功能外,展現前所未見的完美設計理念與性能表現,提供高經濟產能之效益。

本機型採用 knitel 系列之核心技術,在上針盤及針筒山角軌跡,雙紗銀紗嘴進紗角度,織針吃紗位置及張力計算,搭配先進硬度處理之針筒,以求得最佳織造毛長長度及底紗環長。將織針及沉降片運動軌跡,皆經嚴密電腦模擬計算。三角製造精密,表面光滑。並皆以合銷固定山角座滑塊,提供精準定位,織物布目得以呈現更佳的均一程度及外觀平整效果,並大幅提升運轉耗材及零件壽命。

PL-KDSPS-HP 乃是以棉毛雙面機身的架構,雙口組的概念來動作。不同針距的上下針筒,讓底面更細緻、輕薄、密度更高。原下針吃毛紗設計更改為上針吃毛紗,讓毛面向內,布面織造時不會有因為噴風裝置導致毛面方向不同所產生的倒毛現象。底面提升至四段變化,提供更多樣的變化。將切刀與刀針設計同方向運轉,省去單面的上菱角盤架構,避開了重車的問題,除提升機台轉速,清車週期也可延長。現今可以提供反包 4mm~8mm

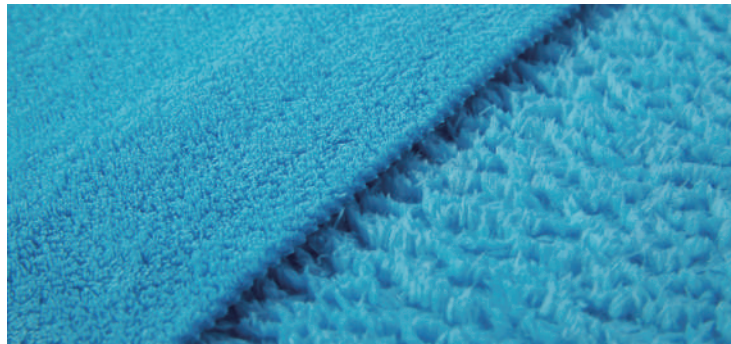
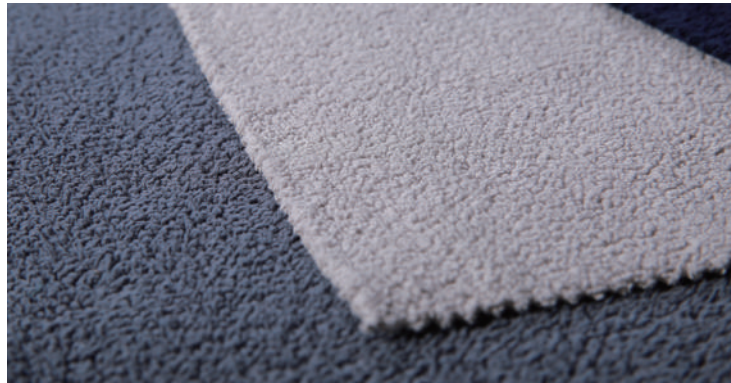
毛長;正包4mm~12mm之長毛割圈布,其運用範圍廣泛,提供相關家紡、工業用途、玩具用布及服飾用途等。





# Applications

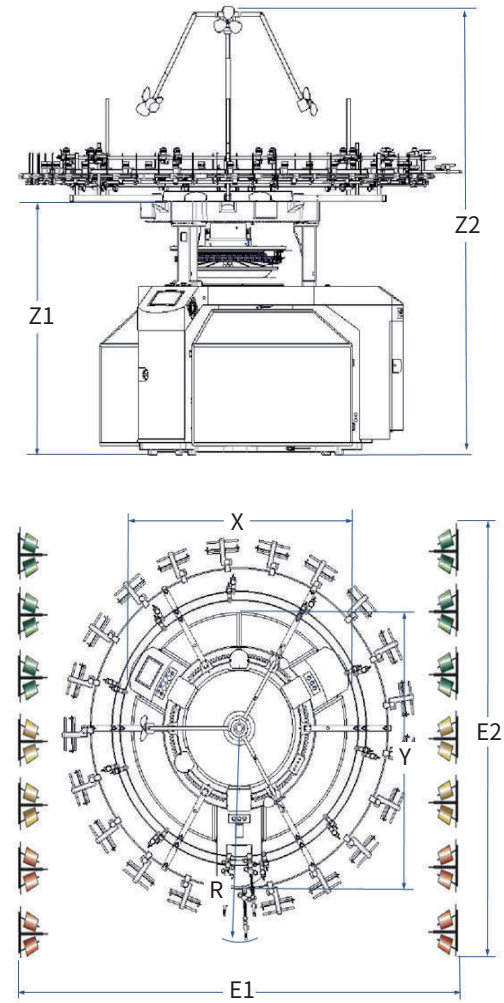
**K** Pai Lung K-series  
High Pile shearing



**Feeder No. & Needle Chart** 口數 & 針筒總針數表

Dia	路數	12/24	14/28	HP
26"	40	1968	2280	5
28"	44	2112	2472	7.5
30"	48	2256	2640	7.5
32"	48	2424	2808	7.5
34"	52	2568	3000	7.5
36"	56	2712	3168	7.5
38"	60	2856	3336	7.5
40"	64	3024	3528	7.5

**Dimensions** 機台外觀尺寸圖














TF	X	Y	R	Z1	Z2	E1	E2
4"~12"	1530	2000	1179.5	1957	3329.3	1915	2559
13"~18"	1815	2040	1482	1824.05	3210.8	2630	3164
19"~24"	1950	2190	1554.5	1824.05	3210.8	3309	3345
25"~30"	1885	2200	1617	1849.5	3301.8	3434	4060
31"~34"	2035	2370	1682	1849.5	3301.8	3564	4775
35"~40"	2177	2531	1762	1849.5	3301.8	3724	5490
41"~46"	2260	2665	1878	2049.5	3501.8	3956	6205
47"~52"	2400	3050	1993	2049.5	3501.8	4186	6920
53"~58"	2900	3640	2155	2312.5	3670	4510	7635
59"~64"	3300	3530	2700	2312.5	3670	5600	8350

- Above specification may be changed without notice.
- Investigating management software does not include factory layout.
- 以上規格配備若有變更，無法先行通知，仍以實體為準。
- 客戶需自行購買配合整廠管理所需之配線。

# Dimensional drawings

# Basic Configuration

	標準配備	選項配備
	<ul style="list-style-type: none"> <li>- 數據顯示控制面板</li> <li>• 三班制工作計數, 機台轉速, 布量預控設定</li> <li>• 異常停機原因顯示</li> <li>• 一般操作及緊急停止按鈕</li> </ul>	<ul style="list-style-type: none"> <li>- 整合式觸控功能液晶螢幕</li> <li>• 完整提供所有操作狀況及數據顯示</li> <li>• RS-485 介面可結合監控系統POMS</li> <li>• Decotex 連接埠</li> </ul>
	<ul style="list-style-type: none"> <li>- 380V, 50/60 Hz</li> <li>- 2.2Kw/3Hp - 3.7Kw/5Hp</li> <li>- 5.5Kw/7.5Hp - 7.3Kw/10Hp</li> <li>- 變頻傳動控制裝置</li> </ul>	<ul style="list-style-type: none"> <li>- 220V, 50/60Hz</li> <li>- 415~460V, 50/60Hz</li> </ul>
	<ul style="list-style-type: none"> <li>- 佰龍機械式捲布機</li> <li>- 均衡張力方形撐布架裝置</li> </ul>	<ul style="list-style-type: none"> <li>- 馬達式捲布機</li> <li>- 高捲裝捲布直徑 36"</li> <li>- 摺布/捲布兩用捲取機</li> <li>- 高捲裝捲布直徑 45"</li> <li>- 開幅剖布/捲布裝置</li> <li>- 泳立機械式變速捲布機</li> </ul>
	<ul style="list-style-type: none"> <li>- 4 段針筒下織針</li> <li>- 3 段針盤上刀針及掛毛針</li> </ul>	<ul style="list-style-type: none"> <li>- 依客戶需求提供預備織針及沉降片數量</li> </ul>
	<ul style="list-style-type: none"> <li>- 4 段跑道針筒三角配置</li> <li>- 3 段跑道針盤三角配置</li> <li>- 三角以合銷固定, 定位精準</li> </ul>	
	<ul style="list-style-type: none"> <li>- 積極式儲紗送紗器 MPF-20L1</li> <li>- 儲紗器環 2 圈+1 組預備鐵圈</li> </ul>	<ul style="list-style-type: none"> <li>- 積極式儲紗送紗器 MPF-20P1 /NEO Knit</li> <li>- 氨輪輸紗器 MER3</li> <li>- 依客戶需求提供其他形式儲紗裝置</li> </ul>
	<ul style="list-style-type: none"> <li>- 佰龍 K 系列機盤</li> <li>- 浸油潤滑四鋼線軸承</li> <li>- 逆時鐘轉向運轉下布</li> </ul>	
	<ul style="list-style-type: none"> <li>- 雙孔磁眼設計</li> </ul>	<ul style="list-style-type: none"> <li>- 氨綸添紗裝置</li> </ul>
	<ul style="list-style-type: none"> <li>- Pulsonic 5.2 脈衝式壓力噴油機</li> </ul>	<ul style="list-style-type: none"> <li>- Uniwave 噴霧式噴油機</li> <li>- 佰龍噴霧式噴油機</li> </ul>
	<ul style="list-style-type: none"> <li>- B8/B9 組合式落地紗架</li> </ul>	<ul style="list-style-type: none"> <li>- D8/D9 組合式 PVC 風管或鋁管落地紗架</li> <li>- 頂蓬式紗架</li> <li>- 風扇除絮型風扇紗架</li> <li>- 密閉式過濾紗架系統</li> </ul>
	<ul style="list-style-type: none"> <li>- 壞針或布面破洞自停裝置</li> <li>- 機架及布面照明裝置</li> <li>- 上段風扇吹絮裝置</li> <li>- 中段風扇及噴風吹絮裝置</li> <li>- 針筒座高度規</li> <li>- 壓縮空氣最低需求: 6 bar, 250 l/min</li> <li>- 中央布目疏密調整裝置</li> </ul>	<ul style="list-style-type: none"> <li>- 美名格上段風扇吹絮</li> <li>- 整合式液晶螢幕觸控螢幕可連結以下裝置: <ul style="list-style-type: none"> <li>• POMS 佰龍線上監控系統</li> <li>• Decotex 送紗長測量儀 (連接埠已提供 2 組傳送皮帶紗長數據, 可依需求購機時增至 8 組數據功能)</li> <li>• 電子中央布目調整裝置</li> <li>• 電子皮帶轉輪控制裝置</li> </ul> </li> </ul>

	Standard	Options
	<ul style="list-style-type: none"> <li>- Digital control panel</li> <li>• 3 shift counter, rpm, fabric roll per-set, &amp; working hr.</li> <li>• Stop reason indication.</li> <li>• Emergency &amp; control buttons</li> </ul>	<ul style="list-style-type: none"> <li>- Integrated LCD touch control panel</li> <li>• Full info &amp; control present</li> <li>• Ready for POMS</li> <li>• Ready for Decotex</li> </ul>
	<ul style="list-style-type: none"> <li>- 380V, 50/60Hz,</li> <li>- 2.2Kw/3Hp - 3.7Kw/5Hp</li> <li>- 5.5Kw/7.5Hp - 7.3Kw/10Hp</li> <li>- Inverter power control</li> </ul>	<ul style="list-style-type: none"> <li>- 220V, 50/60Hz</li> <li>- 415~460V, 50/60Hz</li> </ul>
	<ul style="list-style-type: none"> <li>- Pai Lung mechanical take up system</li> <li>- Cadratex fabric spreader</li> <li>- Standard fabric roll dia. 17"</li> </ul>	<ul style="list-style-type: none"> <li>- Motor take up system</li> <li>- Folding/rolling take up system</li> <li>- Open width take up system</li> <li>- Yung Leader mechanical take up system</li> <li>- Heavy Duty fabric roll dia. 36"</li> <li>- Heavy Duty fabric roll dia. 45"</li> </ul>
	<ul style="list-style-type: none"> <li>- 4 track cylinder needles</li> <li>- 3 track of cut-loop and hang</li> <li>- Loop needle</li> </ul>	<ul style="list-style-type: none"> <li>- Spare needle as request</li> </ul>
	<ul style="list-style-type: none"> <li>- 4 track cam of cylinder</li> <li>- 3 track com of dial</li> <li>- Cam positioning by pin</li> </ul>	
	<ul style="list-style-type: none"> <li>- Positive feeder MPF-20L1</li> <li>- 2 feeder iron rings&amp;1 spare</li> </ul>	<ul style="list-style-type: none"> <li>- Postive feeder MPF-20P1/ NEO Knit</li> <li>- Elastane roller MER3</li> <li>- Other brand feeders on request</li> </ul>
	<ul style="list-style-type: none"> <li>- Pai Lung K frame</li> <li>- Oil-bathed wire bearing system</li> <li>- Count-clockwise</li> </ul>	
	<ul style="list-style-type: none"> <li>- 2 holes type with cereamic</li> </ul>	<ul style="list-style-type: none"> <li>- Spandex attachment</li> </ul>
	<ul style="list-style-type: none"> <li>- Pulsonic 5.2 pressure oiler</li> </ul>	<ul style="list-style-type: none"> <li>- Uniwave misty oiler</li> <li>- Pai Lung misty oiler</li> </ul>
	<ul style="list-style-type: none"> <li>- B8/B9 type combi creels</li> </ul>	<ul style="list-style-type: none"> <li>- D8/D9 type PVC or aluminums tube creels</li> <li>- Overhead creels</li> <li>- Fan creels</li> <li>- Filter creels</li> </ul>
	<ul style="list-style-type: none"> <li>- Needle detectors</li> <li>- Lighting on frame &amp; fabrics</li> <li>- Top fans system</li> <li>- Central fan&amp;air blower</li> <li>- Cylinder height gauge</li> <li>- Min compressed air : 6 bar, 250 l/min</li> <li>- Central stitch adjustment</li> </ul>	<ul style="list-style-type: none"> <li>- Memminger top fan system</li> <li>- Integrated LCD control system can be added: <ul style="list-style-type: none"> <li>• POMS on-line monitoring</li> <li>• Decotex port ( ready for 2 yarn feeding length figures, and can be added to 8 figures)</li> <li>• Electronic central stitch control</li> <li>• Electronic tape speed control</li> </ul> </li> </ul>