

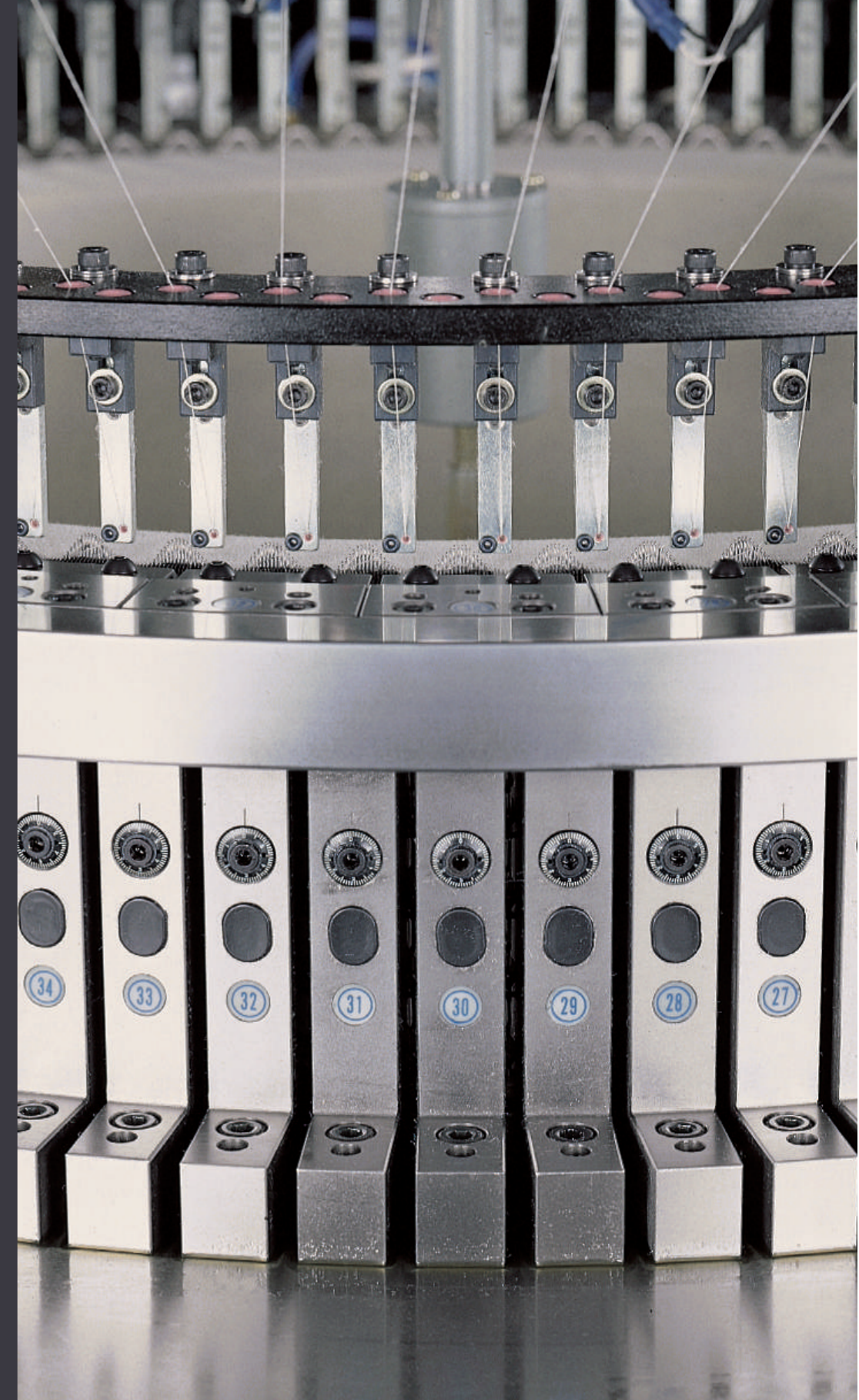


Single Jersey Four Track
Circular Knitting Machine

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THE FABRIC
OF INNOVATION

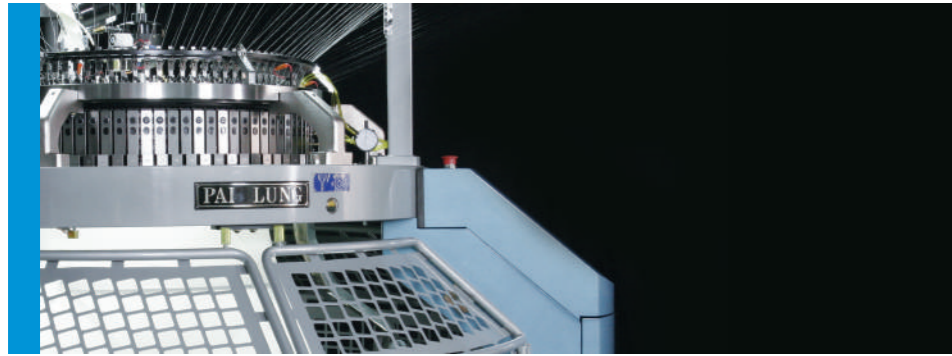
PAI LUNG



Knitel Series

Single Knit
Single Jersey Four
Track Circular Knitting Machine
單面四跑道圓筒針織機

PL-KS



Products Introduction

Market fashion won't stand still. One minute ago you're working for plain fabric, the next one you're facing a new challenge. So you need a knitting machine that can take you wherever the market goes.

The new single jersey knitting machine PL-KS is that model you need. It's powerful, sophisticated and user-friendly. Furthermore, whatever your option is for the mass production-oriented cotton knitting, high quality synthetics fabrics, or the luxurious multi-yarns plating, PL-KS is the right choice to get what you choose.

Performance of the customer-oriented is not Pai Lung's reputation in single jersey, but with PL-KS's numerous valued features, which includes in knitting head:

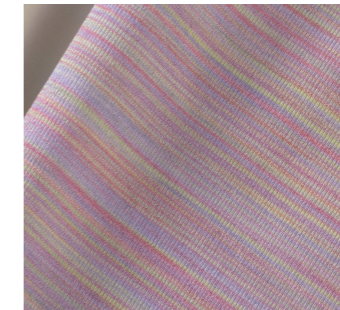
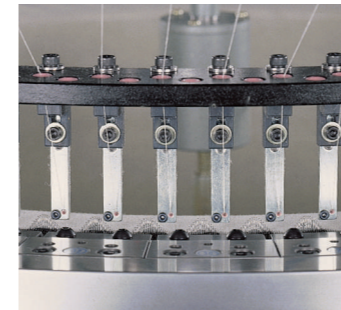
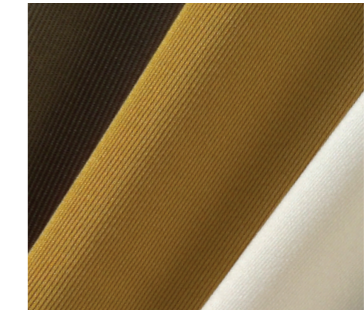
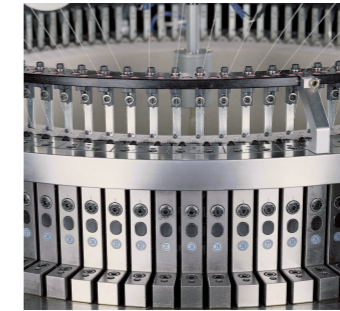
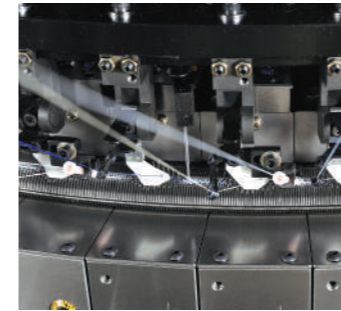
- The new Knitel series oil-based frame can stand up to heavy duty for even 45" diameter fabric roll.
- Less noise and higher RPM performance can be practical in the new Knitel frame.
- Sophisticated yarn feeding design in yarn carrier is for multi-yarn plating. Especially in Lycra feeding and three-yarn plating.

- Quality wheel gearbox is with oil bathed for high quality fabric production even in sudden stop.
- Needle oil and gear oil are absolutely separated.
- Accurate cam positioning with backside fixing pin.
- High quality cam surface for improving sinkers and needles lifetime.
- Powerful anti-dust device provides you a clean knitting head.
- Full range of machine diameter and gauge are supplied. Also offers open-width model and high-leg heavy duty model.
- Selectable POMS for full factory management & quality control.

Model Chart:

MODEL	TRACK	DIA	GAUGE	FEEDER NO.
PL-KS1.4B	4	12"~42"	3G~12G	1.4 Feeder/inch
PL-KS2B	4	3"~60"	3G~12G	2 Feeder/inch
PL-KS3B	4	3"~60"	12G~40G	3 Feeder/inch
PL-KS4B	4	3"~60"	14G~32G	4 Feeder/inch
PL-KSE3B	4	3"~60"	12G~40G	3 Feeder/inch
PL-KSEP3B	4	3"~60"	12G~40G	3 Feeder/inch
PL-KS5B	4	10"~48"	10G~50G	5 Feeder/inch

Workable yarns: silk, cotton, blend, polyester viscose and synthetic fibers, etc.



產品介紹

PL-KS

穩定可靠，產品運用面廣泛，是佰龍單面機設計之首要考量。在實踐人本精神的理念下，將原有高速Knitel系列架構精華導入，再次提升單面機性能及品質。

採用Knitel針筒座設計，杜絕機台底部溢油汙染織物之可能。大盤及送紗傳動齒輪箱皆採用浸油設計，運轉輕快，穩定度提高，且降低噪音及減少織物因剎車造成之影響。新式隙座系統更能支撐高張力及高負重之長期承載影響。

考慮日新月異之紗線運用及添紗功能使用，佰龍提供最佳解決之組合應用，使能符合多種變化的需求。如強力噴風風扇及旋轉噴嘴更加增進除塵效果；採用斜頂式三角座降低棉絮累積，將高轉速下織造可能產生狀況為客戶先行設想。

結結合三角軌跡設計，喂紗嘴入紗角度及織針吃紗位置及張力，搭配先進硬度處理之針筒，佰龍建立Knitel系列之核心技術，將織針及沉降片運動軌跡，皆經嚴密電腦模擬計算，及經過業界實際反覆測試獲得結果。三角製造精密，表面光滑，並皆以合銷過定三角座滑塊，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。

**產出織物品質提升及機台維護成本降低
更能提升客戶競爭實力**

累積多年銷售之口碑，超過萬台佰龍單面機在全世界各地持續運轉，且數量仍不斷增加中，從粗針到微細針距，小筒徑專業需求到床單標準規格，高量產單紗織造到多紗添加特殊效果，佰龍單面機已成為客戶在單面針織織造上的最佳選擇。

佰龍另外提供高路數PL-KS4B、PL-KS5B、粗針距PL-KS1.4B、PL-KS2B及網眼系列PL-KSE3B、PL-KSEP3B。另外可搭配開幅副布系統及高捲裝機架來滿足各地客戶之需求。

機種規格衍生及織物特性

機型	跑道數	針筒直徑	針距範圍	進紗路數
PL-KS1.4B	4	12"~42"	3G~12G	1.4 Feeder/inch
PL-KS2B	4	3"~60"	3G~12G	2 Feeder/inch
PL-KS3B	4	3"~60"	12G~40G	3 Feeder/inch
PL-KS4B	4	3"~60"	14G~32G	4 Feeder/inch
PL-KSE3B	4	3"~60"	12G~40G	3 Feeder/inch
PL-KSEP3B	4	3"~60"	12G~40G	3 Feeder/inch
PL-KS5B	4	10"~48"	10G~50G	5 Feeder/inch

可運用原料:絲、棉、混紡、滌綸、氨綸添加以及其他化纖原料等。

- PL-KS3B:可織造平紋針織物，亦可經過三角組織更換製造二線襪緯衛衣起皺布、凹凸織物、斜紋布、排紗彩條布、氨綸布、三紗織物等。
- PL-KS4B、KS5B:擁有較高進紗路數，專為滿足高產量之需求。
- PL-KSE3B:可織造網眼效果的織物，並具備孔洞效果讓織物具有透氣的特性
- PL-KSEP3B:可織造鑲圈網眼效果的織物，除了具有透氣的孔洞效果外，可以搭配內外異材質的紗線，讓織物具備有透氣及汗水管理的功能。

K Pai Lung K-series
Single Knit

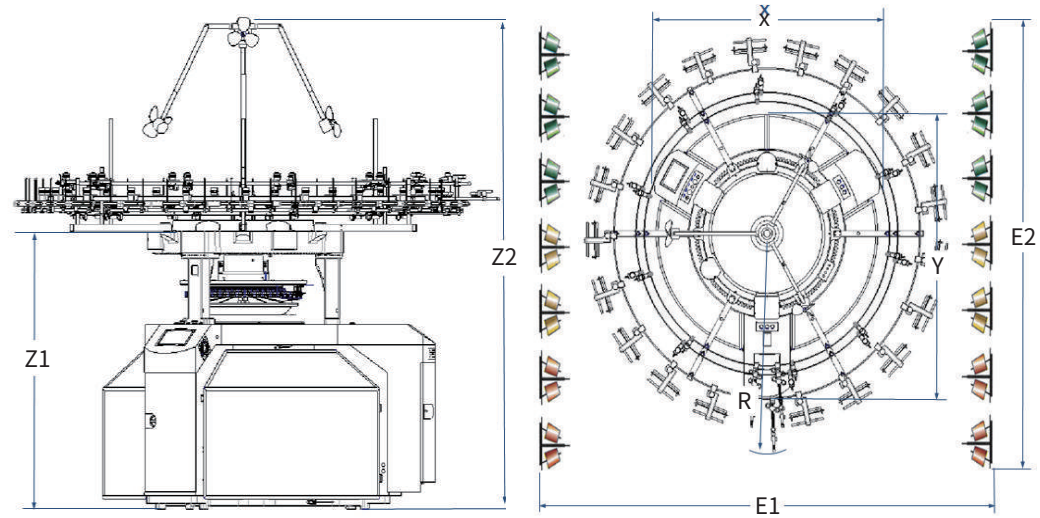
Applications



Feeder No. 口數

Dia	PL-KS1.4B	PL-KS2B	PL-KS3B PL-KSE3B PL-KSEP3B	PL-KS4B	PL-KS5B
12"	24F	24F	36F	48F	56F
14"	28F	28F	42F	56F	64F
16"	32F	32F	48F	64F	74F
18"	36F	36F	54F	72F	84F
20"	40F	40F	60F	80F	94F
22"	30F	44F	66F	88F	104F
24"	32F	48F	72F	96F	114F
26"	34F	52F	78F	104F	124F
28"	36F	56F	84F	112F	132F
30"	42F	60F	90F	120F	142F
32"	44F	64F	96F	128F	152F
34"	48F	68F	102F	136F	162F
36"	50F	72F	108F	144F	172F
38"	52F	76F	114F	152F	180F
40"	56F	80F	120F	160F	190F
42"	60F	84F	126F	168F	200F

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

Dimensional drawings

- 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。

Basic Configuration

	標準配備	選項配備
 控制介面	<ul style="list-style-type: none"> - 數據顯示控制面板 • 三班制工作計數, 機台轉速, 布量預控設定 • 異常停機原因顯示 • 一般操作及緊急停止按鈕 	<ul style="list-style-type: none"> - 整合式觸控功能液晶螢幕 • 完整提供所有操作狀況及數據顯示 • RS-485 介面可結合監控系統POMS • Decotex 連接埠
 電源	<ul style="list-style-type: none"> - 380V, 50/60 Hz - 2.2Kw/3Hp - 3.7Kw/5Hp - 5.5Kw/7.5Hp - 7.3Kw/10Hp - 變頻傳動控制裝置 	<ul style="list-style-type: none"> - 220V, 50/60Hz - 415~460V, 50/60Hz
 捲布裝置	<ul style="list-style-type: none"> - 佰龍機械式捲布機 - 均衡張力方形撐布架裝置 	<ul style="list-style-type: none"> - 馬達式捲布機 - 高捲裝捲布直徑 36" - 摺布/捲布兩用捲取機 - 高捲裝捲布直徑 45" - 開幅剖布/捲布裝置 - 泳立機械式變速捲布機
 織針及沉降片	<ul style="list-style-type: none"> - 1~2 段短針 - 佰龍沉降片 	<ul style="list-style-type: none"> - 1~4 段長針, 依客戶需求提供
 三角配置	<ul style="list-style-type: none"> - 2 段成圈三角配置 - 三角以合銷固定, 定位精準 - 密閉型三角設計 - 沉降片三角座每 2 路 1 組設計 - 針筒座三角座每 1 路 1 組設計 	<ul style="list-style-type: none"> - 成圈-集圈-浮線三角提供 - 四段跑道三角配置, 依客戶需求提供配置 - 依針距不同提供三角版本 (14~18G/20~28G/28G~36G/40G) - 輕薄布重之成圈三角提供
 儲紗裝置	<ul style="list-style-type: none"> - 積極式儲紗送紗器 MPF-20L1 - 儲紗器環 2 圈+1 組預備鐵圈 	<ul style="list-style-type: none"> - 積極式儲紗送紗器 MPF-20P1/ NEO Knit - 氣輪輸紗器 MER3 - 依客戶需求提供其他形式儲紗裝置
 機架	<ul style="list-style-type: none"> - 佰龍 K 系列機盤 - 浸油潤滑四鋼線軸承 - 順時鐘轉向運轉下布 	<ul style="list-style-type: none"> - 逆時鐘轉向運轉下布
 喂紗嘴	<ul style="list-style-type: none"> - 三線添紗(TTC)喂紗舌片 	<ul style="list-style-type: none"> - 氨綸添紗裝置
 噴油機	<ul style="list-style-type: none"> - Pulsionic 5.2 脈衝式壓力噴油機 	<ul style="list-style-type: none"> - Uniwave 噴霧式噴油機 - 佰龍噴霧式噴油機
 紗架	<ul style="list-style-type: none"> - B8/B9 組合式落地紗架 	<ul style="list-style-type: none"> - D8/D9 組合式 PVC 風管或鋁管落地紗架 - 頂篷式紗架 - 風扇除絮型風扇紗架 - 密閉式過濾紗架系統
 其他	<ul style="list-style-type: none"> - 壞針或布面破洞自停裝置 - 機架及布面照明裝置 - 上段風扇吹絮裝置 - 中段風扇及噴風吹絮裝置 - 針筒座高度規 - 壓縮空氣最低需求: 6 bar, 250 l/min - 中央布目疏密調整裝置 	<ul style="list-style-type: none"> - 美名格上段風扇吹絮 - 整合式液晶螢幕觸控螢幕可連結以下裝置: • POMS 佰龍線上監控系統 • Decotex 送紗長測量儀(提供 2 組傳送皮帶紗長數據, 可依需求增加到 8 組數據) • 電子中央布目調整裝置 • 電子皮帶轉輪控制裝置
 轉換件		<ul style="list-style-type: none"> PL-KS3B 可更換- • 不同針距之針筒 • 單面四跑道三線縲緯衛衣機 PL-KF3B-LP • 正包毛巾機 PL-KPA • 反包毛巾機 PL-KSP • 網眼機 PL-KSE3B • 網眼鍍圈機 PLKSEP3B

	Standard	Options
 Control	<ul style="list-style-type: none"> - Digital control panel • 3 shift counter, rpm, fabric roll per-set, & working hr. • Stop reason indication. • Emergency & control buttons 	<ul style="list-style-type: none"> - Integrated LCD touch control panel • Full info & control present • Ready for POMS • Ready for Decotex
 Power	<ul style="list-style-type: none"> - 380V, 50/60Hz, - 2.2Kw/3Hp - 3.7Kw/5Hp - 5.5Kw/7.5Hp - 7.3Kw/10Hp - Inverter power control 	<ul style="list-style-type: none"> - 220V, 50/60Hz - 415~460V, 50/60Hz
 Take - up	<ul style="list-style-type: none"> - Pai Lung mechanical take up system - Cadratex fabric spreader - Standard fabric roll dia' 17" 	<ul style="list-style-type: none"> - Motor take up system - Folding/rolling take up system - Open width take up system - Yung Leader mechanical take up system - Heavy Duty fabric roll dia. 36" - Heavy Duty fabric roll dia. 45"
 Needle	<ul style="list-style-type: none"> - 2 track short cylinder needles - 1 set sinkers 	<ul style="list-style-type: none"> - 1~4 track long cylinder needles - Spare sinker&needle as request
 Camming	<ul style="list-style-type: none"> - Cam version depend on market ; some version may need to change cam boxes - Cam positioning by pin - 2 feeder/per sinker cam box - 1 feeder/per cylinder cam box 	<ul style="list-style-type: none"> - Cam arrangement depends on request - Cam version is different depend on gauge (14~18G/20~28G/28G~36G/40G) - Knit cam version for lighter fabric weight
 Yarn storage	<ul style="list-style-type: none"> - Positive feeder MPF-20L1 - 2 feeder iron rings & 1 spare 	<ul style="list-style-type: none"> - Postive feeder MPF-20P1/ NEO Knit - Elastane roller MER3 - Other brand feeders on request
 Frame	<ul style="list-style-type: none"> - Pai Lung K frame - Oil-bathed wire bearing system - Clockwise direction 	<ul style="list-style-type: none"> - Counter-Clockwise direction
 Yarn carries	<ul style="list-style-type: none"> - 3 yarn plating type 	<ul style="list-style-type: none"> - Spandex attachment
 Oiler	<ul style="list-style-type: none"> - Pulsionic 5.2 pressure oiler 	<ul style="list-style-type: none"> - Uniwave misty oiler - Pai Lung misty oiler
 Creels	<ul style="list-style-type: none"> - B8/B9 type combi creels 	<ul style="list-style-type: none"> - D8/D9 type PVC or aluminums tube creels - Overhead creels - Fan creels - Filter creels
 Others	<ul style="list-style-type: none"> - Needle detectors - Lighting on frame & fabrics - Top fans system - Central fan & air blower - Cylinder height gauge - Min compressed air : 6 bar, 250 l/min - Central stitch adjustment 	<ul style="list-style-type: none"> - Fabric scanners - Memminger top fan system - Integrated LCD control system can be added: • POMS on-line monitoring • Decotex port(ready for 2 yarn feeding length figures, and can be added to 8 figures • Electronic central stitch control • Electronic tape speed control
 Conversion kit		<ul style="list-style-type: none"> - PL-KS3B • Other gauge cylinder change • Three end fleece PL-KF3B-LP • Reverse terry plating PL-KPA • Terry plating PL-KSP • Mesh PL-KSE3B • Mesh plating PL-KSEP3B