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Company history:
The Company was found on 1968, the pioneer of promoting the principals of textile finishing machinery made in Taiwan, carry out his duty and obligation to fully concentrate in developing the Stenter, Dryer and Thermo-boiler, to fit for the wide variety requirement of our customers, enhance the competitive ability of Taiwan textile finishing machinery in worldwide marketing. They working hard to promote LK machines up to worldwide market, now LK machines have sold more than 40 countries, LK brand are notable of Stenter and Dryer specialized manufacturer up to international level.

To incorporate humanized operation and scientific technology, LK is always persists on innovative and creative spirits, to fit for multiple choices of fabric finishing demands, and easy operation as operator requests, also emphasizing the mutual communications between the customers and maker, to make the best interests for the various requirements of fabric demands. In technology fields, production efficiency or afterward services net, LK always offer the best performance in competing with other makers. For 21 century nowadays, LK will keep the leading Stenter specialized manufacturer roles in this fields, to create the high techs, energy saving productions for the various innovation, LK will be proud for their products.

力根實業股份有限公司成立於1968年，本着推動台灣染整機械本土化之責任與義務，全力全力研究開發定型機、烘乾機及熟碳油槽，及時提供客戶服務需求，以強化台灣染整工業之世界競爭力，繼往開來，更積極參與國際性展覽，將力根產品拓展國際，行銷遠及四十餘國，享譽國際，遂使力根蜕變成國際最專業定型機及烘乾機製造商。

力根秉持創新求變之精神，結合人文化操作與科技化運用設計理念，順應染整多元化加工與應用需求之趨勢，注重與客戶之互動及溝通，精心規劃生產最具效益之機台設備，以符合客戶生產需求，無論在專業技術、產能效率及售後服務網，力根永遠走在第一線上與客戶研究開發，在21世紀的今日，力根將持續創新研發，持續保持最專業定型機及烘乾機製造領導廠商之地位，提供高科技、省能省的綠色革命性產品，讓客戶以擁有力根產品為驕傲。
营务布局及服务网
Marketing distribution and serviced nets

 Principles of management:
To keep INTEGRITY, STEADY, QUALITY, INNOVATION, COMMUNICATION principals to serve our customers.
To satisfy the demands of our customer first,
To keep innovative and create the new products,
Offer the best efficiency of the machine equipments.
LK-8 Series

LK have accumulated many years of experiences for the customers in dyeing and finishing sectors, manufacturing and technology mutual corporations, to develop very easy to operate, easy to read out management figures, new computerized control stenter. Now, this new LK-8 stenter has been born, New LK-8 computerized control stenter, with more precision in automation controls, due to its unique designed function, it makes the knitwear more smooth and better hand-feeling, can be widely increase the production stability, LK-8 will lead you to the entire new areas in finishing fields.

「Style in Your Life」 will let LK to help you to make better world and better clothes paradise.
1. Fabric entrance scaffold with web width limiting device
2. Centering device (cloth guider)
3. Paddle mangle
4. Speed compensator (Deflection roller)
5. Manual skew weft straightener
6. Central control bridge
7. Entrance box and overfeed pinning on device
8. Selvedge uncurled and position drive device
9. Pin, clip chain rails, rails rack
10. Heating chamber
11. Web width adjusting device
12. Exhaust ducts
13. Selvedge cutting device and centering cutter
14. Air cooling zone and water cooling cylinders
15. Fabric delivery arrangement, platting and batching device
LK - 8 Type

Computerized control system:
- Incorporate with monitoring, controlling system, easy to operate.
- Humanized operating interface control, incorporate with management demanding design.
- By virtue of fabric entry and exit double interface design, easy to do operation adjustments.
- To match with setting function, history records for running fabrics conditions, easy for tracing management faults.
- Computerized recipe management to highlight the quality.
- To incorporate the central auto flow process control system. can be applying for whole plant management.
- The software and hardware of computerized control system are designed by LK, so, the afterward services and expansion ability is vast.
- Include internet communication for maintenance service functions.

1. Operation entry log-in access:
   According to the management level of the operator, this PLC computerized control System is given all access codes for each level operator, to protect the internal parameters been wrongly changes.
2. Data acquisition monitoring:
   It can be shown on the actual running parameters in each section of the machine.
3. Status showing editor:
   By virtue of color codes analyze management, is easy for operator to understand The run / stop of each section of machine.
4. Page display switching:
   The PLC computerized control system is program created by each section Out-looking, is easy for operator to identify and process to the actual production Status of running machine, just to touch on the necessary spot of screen and it will run.
5. Recipe reading process:
   By codes level analyze management, to protect the recipes for each kind of fabric Been wrongly modified or changed.
6. Malfunction history records:
   If the machine has any error in production status, the PLC computerized control System will record all human errors and error happening time, so, it will save the time to resolve the trouble-shooting.
各種上漿機 / Various paddle mangle

【斜楣式】
[ 2-bowls Skew roller type ]

【垂直式】
[ 2-bowls Vertical type ]

【三楣式】
[ 3-bowls Roller type ]

- 人性化之操作介面。
- 體積小，節省空間。
- 低電量及傾斜式液槽，方便保養、清洗。
- 高效能且均勻之壓重率。
- 針織布—織布車輪。
- 平織布—展布車輪。
- Humanized designed operation panel.
- Small dimension and save the spaces.
- Low level and dumping type trough,
  Easy to maintenance, clean.
- High efficiency and uniformly pick up.
- Knitting fabric—Scroll roller
- Woven fabric—Expand bow roller
入布裝置
In-feed devices

- 標準入布 (標準配備)
- Normal in feed (Standard)
- 滑條式入布結合自動纖維調整器 (選用配備)
- Slat type centering device incorporate with automatic felt straightener (Optional)
- 結合上磨機 (選用配備)
- Incorporate with coating head (Optional)
- 雙上磨機 (選用配備)
- Twin paddle mangles (Optional)

- Centering combination device (Standard)
- Slat type centering device (Optional)
- LOAD CELL 壓力控制系統 (選用配備)
- Load cell Tension control system (Optional)
- 電動斜條調整器 (標準配備)
- Motorized skew straightening device
- 組合式中心校正器 (標準配備)
- Combinations of skew roller and bow straightener (Optional)
缩碼機構:
- LK型紡車採用觸發式模，並於操作、調整、確認顯示器均穩定性。
- 本機採用型連動式確定及延緩控制，以簡易閉環方式精確控制縮碼系統。
- 人性化氣壓式縮碼控制，操作視覺及美觀。
- 本機附設供輔助托板，結合平皮帶範圍，易於操作和上針。
- 紡紗機布屬採皮帶式，增加紡紗下增時間，避免紡紗鬆針。

Overfeeding device:
- Left-right overfeeding device by servo motor controls individually, for easy to operate, adjust, make sure overfeeding quality is stable.
- Adopted LK specialized model for auto modulating setting, re-set controller, closed cycle to accurately control the overfeeding system.
- By virtue of humanized pneumatic control, easy to operate and smooth looking.
- Fabric entry scrolling and auxiliary supporting plate, to combine with belt driven, easy for fabric pinning on.
- Overfeeding press brush adopted the belt type, increase the fabric selvage pressing time, to avoid the fabric selvage pinning off.
Main drive system:

- Each rails width adjustment is by means of transporting motor for synchronizing adjustment.
- Additional manual adjusting wheel for the width control bridge, it can be adjusted individually.
- The entrance and exit rails can be extended upon the treatment of fabric characters.
- The safety warning device for the rails.
- Additional requests for the customer demands, it can be controlled width by each chamber. (Optional)

Chains and pin plate holder:

- Semi-Auto type lubrication re-filling device, it can be lubricated the chains anytime and transporting device, save the machine stop timing of the maintenances.
- To lubricate the transporting efficiently, save lubrication oils.

This special lubrication free chain materials are matched with high tensile hardness of rail tracks designs. This lubrication free chain system are under patent protection.
High efficiency air circulation system

Hot air circulation system:
By virtue of strong air pressurized circulation system, to assure the air volume and temperature uniformly.
The upper and bottom jet-nozzle can be life up, is easy for operators to enter inside of the maintenance servicing.
Fan motor by inverter controls can fit for various kind of fabric air volume requirements.

Exhaust system:
Exhaust ducts sizes design and circulation nets must be matched, ensure the heating chamber temperature uniformly.
By scientific digital management principals, to combined the inverter control and fabrics heat-setting quality demands, ensure the energy saving to be more economic uses.
It can be enhanced to exhaust moisture control, fully automatic control the heating chamber and exhaust moister demands. (Optional)

Air cushion type nozzle:
Air cushion nozzle: Energy control effectively.
Specialized circle hole type nozzle structure; ensure the air volume, in perfect straight blowing, easy to clean.
Incorporating the sophisticated integral designs principal, to promote the quality of fabric and handling.
This heating chamber construction (with air-cushion nozzles) system are patent protected by L.K.
Thermo oil circulation heating system:

- By PID digital temperature controller with PT100 Ohm temperature probe, with 3-ways motorized control valves open and close movement, to control the suitable temperature in the heating chamber.

- Heat exchanger is adopted of fin type, the heat distribution dimension is big, heat storage is low. Heating and heat dissemination also spread fast to keep steady temperature. Assure the fabric is under good thermo-fixing, to upgrade the quality.

- The highest temperature can be reached at 220℃. To satisfy the customer’s demands.

- This Thermo oil circulation heating system are patent protected by LK.

Gas direct heating system:

- It equipped with auto-cut off safety devices

- Temperature rising up fast, short the loading time of machine.

- Anti-explosive door designs in heating chamber.

- Low pollution, easy to maintenance, the most clean heating system for environmental protection.

Other heating sources:

- Steam heating

- Steam + electric heating
Exit area combinations:

- Surface batching device, suitable for woven fabrics and the max. dia. can reach 1800mm. (Optional)
- Incorporate with accumulating box, with Non-stop Inspection machine for knitting fabric winding. (Optional)
- Water cooling cylinder. (Optional)
- Movable plaiting down devices. (Optional)

Air cooling zone:

- Humanized designs for double screen filters, It can be draw-off anytime for cleaning the filters, also can prevent the dusts to dirty the fabrics.

Selvedge cutter device (Optional):

- during the machine-running period, Non-stop real-time adjusting designs, can be adjusted anytime.
- To combined the LK828 stenter pinning on device, to assure the fabric selvedge waste in minimum.
- Selvedge trimming device, can clearly cut off the stripes, to prevent these stripes stuck-in the rails.
<table>
<thead>
<tr>
<th>Chamber</th>
<th>M (m, m)</th>
<th>L (m, m)</th>
<th>Circulating fan motor</th>
<th>Design Speed m/min</th>
<th>Maximum Electricity (kW)</th>
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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>3700</td>
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<td>4200</td>
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</table>

Our Company has the rights to change the designs, if the sizes need to be modified, will not advise individually.
### Heat Recovery System:

- Raise up the temperature stability of drying oven, especially for the first and last chamber temperature setting, to minimize the differences (delta T) from the actual running temperature.
- Extend the stenter setting zone of drying oven to increase the fabric speed and production.
- Decrease the air pollution equipment load at the late stage and promote the air pollution treatment efficiency by the waste oil mist reducing the temperature to cause condensational pre-treatment.
- Reduce the heat supply equipment capacity and cost.
- Reduce the oil outlet temperature of boiler, extend the life time of thermo oil boiler.
- Save energy and reduce the exhausting air to minimize the carbon-dioxide emission, and respond to the international trend of energy saving.

### Optional

<table>
<thead>
<tr>
<th>#</th>
<th>Component</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>自動織管調整器</td>
<td>Automatic wet straightener</td>
</tr>
<tr>
<td>2</td>
<td>水洗槽</td>
<td>Wash trough</td>
</tr>
<tr>
<td>3</td>
<td>聚酯管</td>
<td>Accumulator</td>
</tr>
<tr>
<td>4</td>
<td>弧狀校正装置</td>
<td>Bow wet straightener</td>
</tr>
<tr>
<td>5</td>
<td>大型斜弧狀複合式裝置</td>
<td>Skew/Bow wet straightener</td>
</tr>
<tr>
<td>6</td>
<td>蒸氣給潤裝置</td>
<td>Steam moisture wedding device</td>
</tr>
<tr>
<td>7</td>
<td>水冷卻筒</td>
<td>Water cooling cylinder</td>
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<tr>
<td>8</td>
<td>中心捲取裝置</td>
<td>Central winding device</td>
</tr>
<tr>
<td>9</td>
<td>雙鋼式捲取裝置</td>
<td>Twin rollers surface batching device</td>
</tr>
<tr>
<td>10</td>
<td>錘密計測器</td>
<td>Pick counter</td>
</tr>
<tr>
<td>11</td>
<td>碼重控制器</td>
<td>Fabrics weight controller</td>
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<tr>
<td>12</td>
<td>麿面溫度控制計</td>
<td>Fabrics temperature controller</td>
</tr>
<tr>
<td>13</td>
<td>出布溫度控制計</td>
<td>Residual moisture controller</td>
</tr>
<tr>
<td>14</td>
<td>排氣溼度控制計</td>
<td>Exhaust air humidity controller</td>
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<tr>
<td>15</td>
<td>節能廢熱回收系統</td>
<td>Heat recovery system</td>
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</table>