



**Space & Time Associates**

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**大雅TAYA**



織布準備設備：整經—漿紗—併軸  
—牛仔布染整聯合機  
Weaving Preparation: Warping—Sizing—Beaming  
—Indigo Dyeing with Sizing

**高速整經機**  
**HIGH SPEED**  
**WARPING MACHINE**



**大雅興業股份有限公司**  
**TAYA MACHINERY CORPORATION**

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大雅興業股份有限公司 敬啟者：本廠生產之各項織造設備，均係採用最先進之電腦控制系統，品質優良，性能卓越，歡迎各界人士垂詢。  
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**大雅興業股份有限公司**  
**TAYA MACHINERY CORPORATION**



TAYA HIGH SPEED WARPING MACHINE

大雅高速整經機

With the swift variation of orders in fabrics, the technology in weaving preparation needs to effect capacity to meet the modern trend. Taya Machinery Corporation has accumulated professional R & D experience for decades. To meet with the demand of customer and by means of cooperate with academia and industries, TAYA has been designing state-of-the-art machines to satisfy weaving preparation in all needs.

By working with all kinds of weaving machines, TAYA Warper is applied in fabrics such as 100% Cotton, Blend, Silk, Check, Synthetics, Terry, PP, Glassfiber, Cross-weaving fabrics...etc. This high performance machine keeps yarn flexibility and enhances quality in fabrics by providing feedback of the pre-storage parameters to computer.

隨著紡織廠因應接單織物變化的迅速，在織布前準備機械製造也需要不斷的改進提高產能效益，符合時代的潮流。大雅興業股份有限公司研發團隊積累數十年的生產經驗，與用戶需求配合，在產、學、研的共同努力下，設計出符合各產業需求的機型。

目前大雅公司的整經機適用於純棉、混紡、真絲、格子布、化纖、毛巾、PP紗、玻璃纖維等工業用織物、各種長短織交織，並可與各種織機配套。製造的整經機能保持原紗彈性，並將預先儲存之數據反應電腦控制，使用戶達到最高的競爭優勢。

MACHINE HEAD 機頭

- Operation by MMI touch display. Featuring high speed, efficiency, technology and stability.
- Achieve new mechatronic concepts on the machine.
- 操控用MMI人機介面，高速、效率、科技、穩定。
- 實現機電一體化概念。



TAYA MACHINERY CORPORATION

FEATURES 特色

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Maintain Warping Speed</li> <li>• Uniform Take-up Tension Across Beam</li> <li>• Uniform Tension Beam to Beam</li> <li>• Maintain Braking Systems</li> </ul> | <ul style="list-style-type: none"> <li>• Neat Selvedge</li> <li>• No Lint, Fluff, Frayed or Slippery Yarn</li> <li>• No Crossed or Loose Ends</li> <li>• Various Fibers Applicable</li> </ul> |
| <ul style="list-style-type: none"> <li>• 速度維持一致</li> <li>• 捲取張力一致</li> <li>• 梁頭對梁頭張力一致</li> <li>• 刹車系統一致</li> </ul>   | <ul style="list-style-type: none"> <li>• 布邊平整</li> <li>• 紗線無斷頭、磨損、起毛球或打滑現象</li> <li>• 無鬆紗或纏紗現象</li> <li>• 適用各種纖維紗</li> </ul>  |

## TAYA HIGH SPEED WARPING MACHINE



### YARN BREAKAGE RECORD 斷紗次數紀錄

- This micro-process computer on the machine does not only demonstrate but also records data i.e. date, time, length and accumulative counts.
- 微電腦顯示與紀錄斷紗日期、時間、米長、累計次數。



### YARN SQUEEZE DEVICE 壓紗裝置

- By means of horizontal type yarn squeezing roller, the uniform pressure from beam to beam is achieved. The pressure force can be set according to demand.
- 精密水平式壓紗，小軸到大軸壓紗力保持一致，壓力大小可依需求設定。

## TAYA MACHINERY CORPORATION



### HIGH SPEED 高車速

- The machine speed can be set according to different yarn kind. Average speed for spun yarn is 1000m/min while for filament is 1200m/min.
- 可依使用紗種品質需要設定車速，一般短纖 1000米/分，長纖 1200米/分。

### BRAKING SYSTEM 剎車系統

- Sharp disc-brake supplied. No need to reverse beam to find lint. The brake synchronization system which relates squeeze roller, guide roller and beam guarantees a reliable outcome with no lint, fluff, frayed or slippery yarns.
- 精準靈敏碟式剎車，盤頭不必倒轉找紗頭。壓紗滾筒、導紗羅拉與盤頭三點同步剎車，不會造成紗線磨損、斷頭、起毛球或打滑現象。

### BEAM TAKE-UP 盤頭捲取

- Digital control beam take-up system, preset beam surface hardness which uniforms tension from beam to beam. Multiple applications in the same machine head:
  - Interchangeable for warping and loose type beam
  - Interactive use for filament and cotton
- 數位式捲取，可設定盤頭紗線表面硬度，使小軸到大軸張力一致。
  - 一機多用途：
    - 同一機頭可作一般整經與輪染用鬆式整經輪通用。
    - 同一機頭長纖、短纖可通用。

## TAYA HIGH SPEED WARPING MACHINE



### COMB 鋼栉

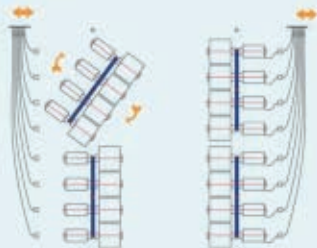
- Sawtooth or zig-zag type comb for optional. Motorized and adjustable comb equipped, oscillation in vertical and horizontal directions. Thanks to the comb of well-organized arrangements, the warping yarns promote highest efficiency with further processing on sizing and dyeing machines.
- 鋸齒型或山型鋼栉，可依需求配備。鋼栉上、下、左、右方向移動，電動可調式。經紗與捲取連續的過程中有秩序的排列，提高後續工段漿紗、染漿的品質與效率。

### SAFETY INTERLOCK 安全互鎖

- Safety interlocking device is provided in case of man-made operation mistake.
- 全機有預防人為因素操作錯誤之安全互鎖裝置。

### CREEL 紗架

- The creel is made by order in demand of:
  - Number of spindles
  - Pitch and layers
  - Yarn delivery paths which have options in drawn from inside, drawn from outside or drawn from both sides.
- 可依使用需求訂製各種規格。
  - 錠數可選配。
  - 錠距及層數可選配。
  - 出紗方式有內牽式、外牽式或內外兩側同時出紗可選配。



## TAYA MACHINERY CORPORATION

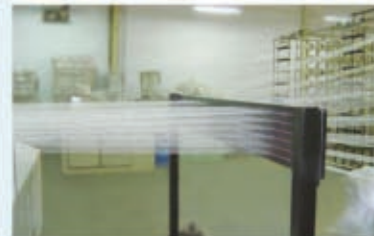
### LEVELING REED (FOR FILAMENT) 平紗鋼栉 (長纖配備)

- Equipped with a special designed reed in tube-type, in case of bouncing yarns caused by man-made mistake while machine is running. In the meantime, yarns coming from guide board are moving to leveling reed for carding process.
- 上管型鋼栉設計，為防止運轉時或人員不慎觸動時跳紗。紗線從導紗板遷出至平紗鋼栉，鋼栉於運轉中上下移動梳理紗線。



### GUIDING BOARD (OPTIONAL FOR COTTON OR FILAMENT) 導紗板 (選購件、長纖配備)

- By means of reinforced, sturdy guiding eyeboard, the yarns are arranged in order. This equipment facilitates a clear yarn travel while machine is running.
- 強化、耐磨磁銀穿紗板，每條經紗排列整齊、穿紗容易，使紗線在運轉中清晰不亂。



### FLUFF INSPECTION (FOR FILAMENT) 毛羽檢出器 (長纖配備)

- Yarn quality is guaranteed by the precise and delicate monitoring system which measures lint, knots, fluff, impurities, flaws on synthetic yarns.
- 是極精密敏感的監控系統，專測絲線不良接頭、紗結、飛絮、雜屑、複合絲之單絲疵點都可檢出，保證絲線品質。

## TAYA HIGH SPEED WARPING MACHINE



### TENSIONER 張力器

- The tension control system is designed to provide uniform tension and control of the yarn from the warping creel. Different yarn tensioners are available for various application fields in the filament and spun yarn range.
- 特殊設計之張力裝置，可預防跳紗。  
對於長絲紗和短纖紗不同的應用領域有不同的紗線張力器。

### STATIC ELIMINATOR (FOR FILAMENT) 靜電消除 (長纖配備)

- This device which equipped in machine head and each row of creel eliminates static of filament fibers. It helps to remove snarl and stickiness of yarns.
- 機頭與紗架每一層均有裝置，能消除長纖所產生之靜電，排除經紗較著不清，及避免每條絲線黏著。



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## TAYA MACHINERY CORPORATION



▲ Sampling Warper for Laboratory Use  
快速打樣小型整經機

### AUTO YARN STOP MOTION 斷紗自停裝置

- Supply with high sensitivity electronic stop motion. Thanks to electronic yarn inspection, the breakages are easy to be found by indicators in each tier. Different stop motions are available for various application fields in the filament and spun yarn range.
- 高靈敏度電子設計，每層皆附指示燈，便於找出斷紗處。對於長絲和短纖紗有不同的型號供選配。



▲ Four Beams in Connection 四軸串聯實踐

### WAXING & COLORING (OPTIONAL FOR COTTON OR FILAMENT) 上蠟油、顏色裝置 (選購件、長纖配備)

- Yarn oiling, waxing or coloring equipment are available as required. In case of over-oiling or unequal absorption, the elevated of guide roller is activated when machine stops. Synchronized beam braking system and precision tension control are equipped.
- 可在絲線上經過蠟槽上油、上蠟或著色劑。停機時導紗羅拉自動提升，避免上油過多或不均現象。附精密張力控制系統及同步剎車自控裝置。

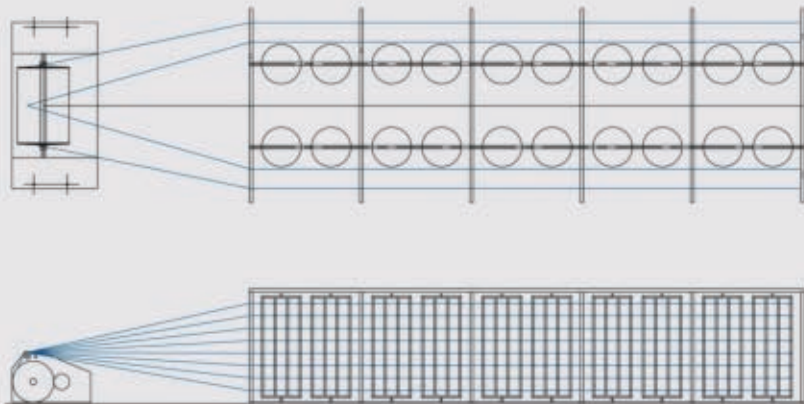
### MACHINE HEAD 機頭

Item	項目	Unit 單位	For Big Beam 大經軸用	For Small Beam 小經軸用	For Color Weaving And Terry Towel 色織、毛巾用
Speed	機械速度	m/min	800 ~ 1000	500 ~ 800	800 ~ 1000
Yarn Sheet Width	紗片幅寬	mm	1800 ~ 2000	400 ~ 660	1800 ~ 2200
Beam Diameter	經軸直徑	mm	1000 ~ 1250	250 ~ 600	800 ~ 1000
Motor	馬達	kw	15 AC VECTOR 15 AC 向量	11 AC VECTOR 15 AC 向量	7.5 AC VECTOR 7.5 AC 向量
Reed	鋼筘			Straight or Zig-Zag Reed for Option 直型筘、山型筘可供選配	
Power Capacity	電器設備容量	KVA	22.5	12.5	18
Beam Loading / Doffing	經軸上落軸裝置			Pneumatic 氣壓方式	
Yarn Press Roller	壓紗輥			Pneumatic 氣壓方式	

### CREEL 筒子架

Item	項目	H TYPE	V TYPE
Pitch	筒子間距	250 ~ 450	Horizontal 9", 10", 11", 12" available 橫向 9", 10", 11", 12" Vertical 240, 270, 300 available 縱向 240, 270, 300
Stop Motion	斷紗停車裝置	Motion Sensitive 斷紗自停方式	Non-contact 非接觸式
Tensioner	張力裝置	Two-post Type 二柱式	Tension Bar System 張力桿方式
Cleaner	除塵裝置	Fixed Fan Type 固定風扇方式	Traveling Fan Type 移動風扇方式

### H TYPE CREEL H型紗架



### V TYPE CREEL V型紗架

