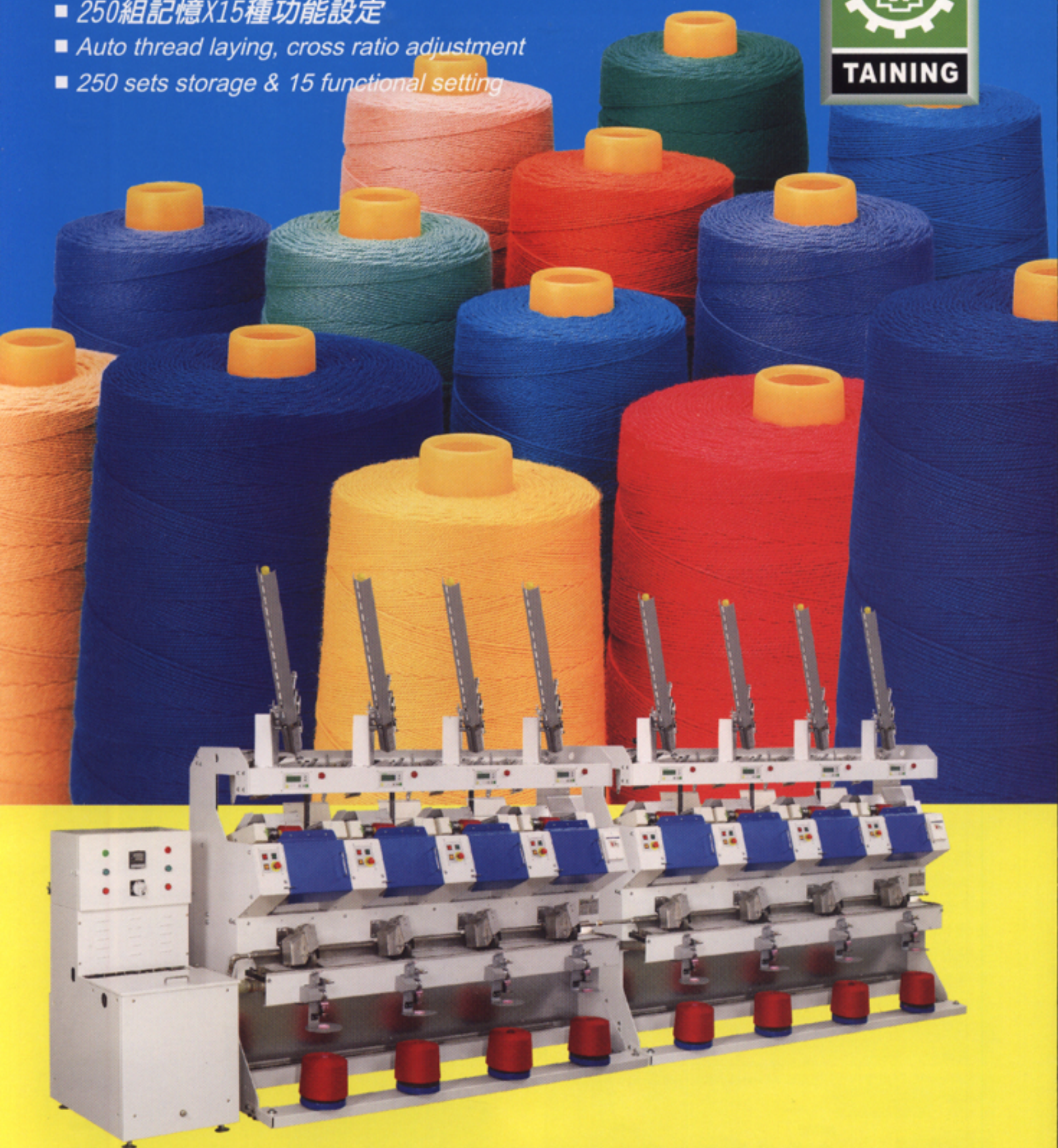


Max 10000r.p.m.



- 可自動調整線密度與花紋數
- 250組記憶X15種功能設定
- Auto thread laying, cross ratio adjustment
- 250 sets storage & 15 functional setting



TN-21D 全自動高速繞線機(伺服型)

TN-21D Automatic High Speed Cross Cone Winder (Servo Type)

超強多種功能

自動送管與落紗系統

- 一次可裝管30支左右。
- 不需一支一支排列，節省時間。
- 採用氣壓控制，動作確實、穩定。(6bar)
- 無管自動偵測與停車。

單錠控制系統

- 電腦自動計長，不必經過輪子或滾輪，準確度±0.5%。
- 自動控制線速度，可任意設定每分鐘300~1600米之線速度。
- 可直接設定不同之油輪速度，搭配穩定線速度使上油均勻。
- 輸入不同線規格時，可自動調整線排列之密度與花紋。(TN-21D)
- 以上功能有250組記憶模組，並能夠設定生產數量。

滾筒式導線系統

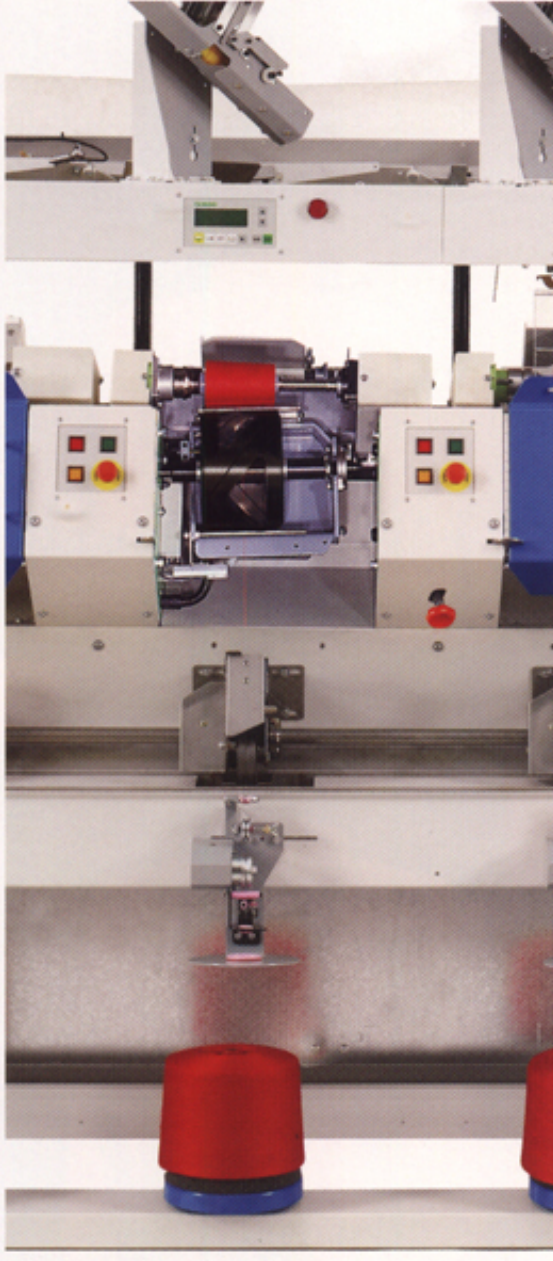
- 採直接導線方式，速度快、聲音小。
- 導線凸輪採用特殊硬化拋光處理，光滑耐磨，不傷紗線。

電磁式張力系統

- 可設定起步張力與最終張力持續遞減，使成型美觀一致。

循環式過油系統

- 每錠經常保持滿油位。
- 每個油輪均附有濾油裝置，防止油外噴與浪費油。
- 油輪可跟隨線速度。
- 大型回流油槽與擋油板，可承接作業中產生之棉絮與油回流並過濾，不污染地面。
- 一只油箱可供24錠機器共用。
- 可拆式濾網，清理容易。



Powerful Multi-function

Bobbin feeder and auto doffer

- Each bobbin magazine available for approx. 30 pcs empty bobbins.
- Easy to put bobbins.
- Pneumatic control, reliable and stable (6 bar)
- No-bobbin detector, automatic stop while without bobbin.

Individual Spindle Control

- LCD display.
- Yarn length measured by computer, not rollers or wheels. Accuracy within 0.5%.
- Yarn speed adjustable from 300 to 1600 meters/per minute.
- Uniform thread lubrication due to constant yarn speed.
- The oiling roller speed is adjustable and proportional to the yarn speed.
- Density adjustment with different yarn specifications. (TN-21D)
- Automatic thread layer control. (TN-21D)
- 250 sets memories storage & production quantity preset function.

Drum Thread-Guidance System

- High speed, low noise drum.
- Drum with special hardened polish treatment, smooth & wear resist.

Electro-magnetic Tensioner

- Automatic tension release throughout the cycle for consistent winding tension.

Circulating Oil System

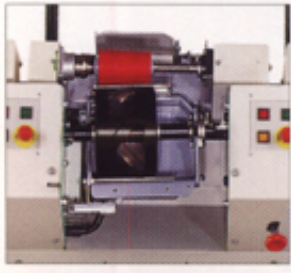
- Centralized oil tank feeds 24 spindles.
- Spindle independent oil filter and filler for consistent trouble-free operation.
- Easy to clean, detachable filters.
- Oversized oil fenders and troughs to minimize oil loss and cleaning.

其他特性 / Other characteristics

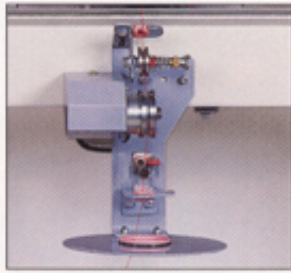
- 適合各種角度之紗管。0°~5°57'。
- 機器運轉時，門若打開，則自動停止運轉。
- 非接觸斷紗檢測，感應靈敏。
- 占地面積小、速度快、效率比傳統機器提升5~6倍。
- 全部採用高速軸承，免加油，保養容易。

Additional Features

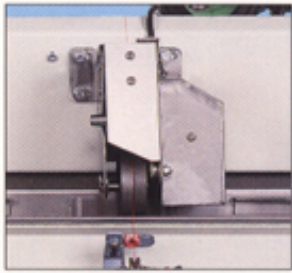
- High Speed Operation, 5 to 6 times faster than conventional models.
- Supports a wide variety of bobbins from 0°0' to 5°57' degrees.
- Sensitive, contact free thread detector.
- Easy maintenance, oil-free bearings.
- Automatic door lock during operation.
- Small footprint design.



滾筒式導線裝置



可設定漸減式電磁張力



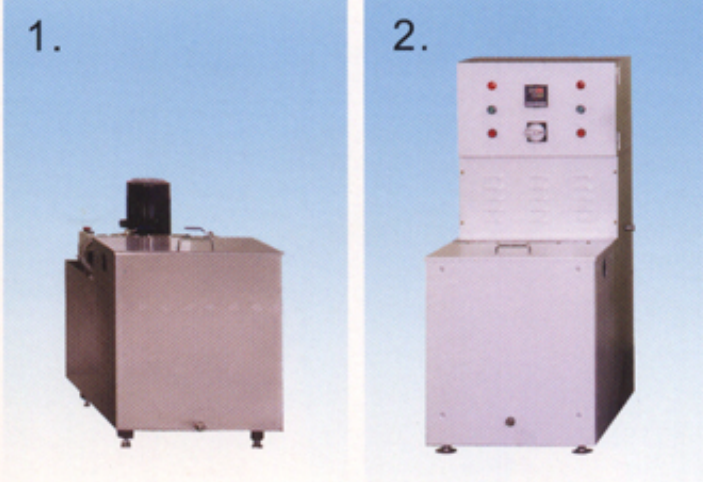
可設定目跟隨線速之上油裝置



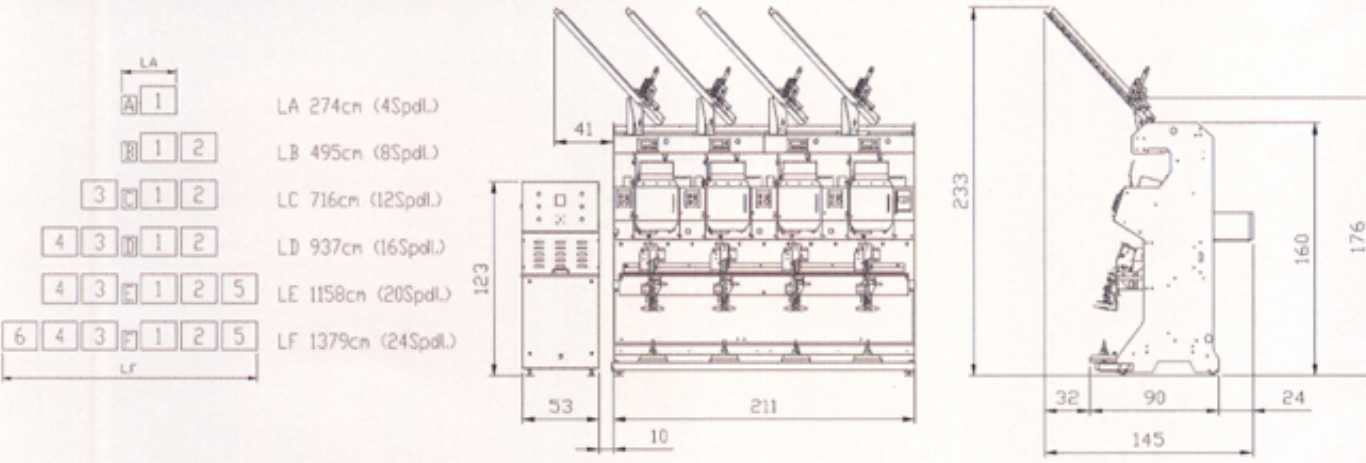
多功能微電腦控制面板

選擇性配備 / Optional

1. 循環式油箱
Circulating oiling tank.
(With vacuum pump or screw motor, filter.)
2. 循環式加熱油箱
Hot circulating oiling tank.
(With vacuum pump or screw motor, filter, heater & temperature controller)
3. 省能計量上油系統
Dosing pump lubrication system.



機器外觀尺寸圖 / Outlook dimension



主要規格 / Main specifications

成型 Package shape	MODEL - A
管子角度 Taper angle	2°20' ~5°57'
產量 Capacity	150 LBS/8hrs 40/2 SP
最大捲取外徑 MAX. Outer ø	150mm
橫動量 Traverse	3" 4" 5" 6"
錠數 No. of spindle	4
主軸速度 Spindle speed	Max 10000r.p.m
線速度 Yarn speed	Max 1600m/min
花紋回數 Cross ratio	2~4
包裝材積 Measurement	225L x 105W x 205H(cm)
機器重量 Weight	N.W: 700kgs G.W: 1000kgs

機器設計及規格如有變更恕不另行通知 All specifications and designs subject to change without notice.
本機器獲得多項專利，仍買必究



FACTORY
泰能機器工業有限公司
TAINING MACHINE INDUSTRIAL CO., LTD.
台灣台中縣大肚鄉沙田路三段734巷35號
Taichung Hsien, Taiwan
TEL: 04-26991213 FAX: 886-4-26996533

OFFICE
盈俞股份有限公司
INWIN W & R CORPORATION
78, Tu Hsin Rd. Taichung 404 Taiwan
TEL: 886-4-22013581 • 22013582
FAX: 886-4-22027541 • 22023583
E-mail: inwin.tw@msa.hinet.net

