



**KING-PLUS**

# Three-layer / Muti-layer Co-extrusion Blowing Film Production Line

## 三層/多層共擠吹膜生產線





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## 三層/多層共擠吹膜生產線

### MACHINE FEATURES :

- Three-layer co-extrusion blown film line is available for 500 ~ 3,000 mm
- MATERIALS TO BE USED:  
HDPE, LDPE, LLDPE, MLLDPE, SURLYN, PP, EVA, and any other materials which can be used for blown film.
- Film thickness: 0.012 ~ 0.3 mm
- Screw diameter is available for Ø45 mm, Ø55 mm, Ø65 mm, Ø75 mm, Ø85 mm, Ø100 mm
- THREE-LAYER INNER COOLING TYPE DIE:  
Combined with cooling air constant-temperature device, 24 hours fully automatic monitor and control. Effectively increases confirmative films, and decreases non-confirmative films.
- Remote monitoring interface unions ultrasonic operation, it makes sizes be changed easily and simply.
- 360° horizontal rotary take-up unit provides a smooth film surface, it makes follow-up procedure easily and reduces film loss.
- BACK TO BACK TYPE FULLY AUTOMATIC WINDING UNIT:  
Equipped slitting device, constant-tension controller, hydraulic unloading device.



EQUIPPED WITH IBC THREE LAYER BLOWING DIE AND ADJUSTABLE LIFTING AIR RING  
配置IBC三層吹袋模頭，風環昇降裝置



AUTOMATIC AIR RING AND THICKNESS PROFILE MEASURING CONTROL SYSTEM  
厚度量測及自動風環(厚薄自動調整)控制系統



THICKNESS PROFILE MEASURING CONTROL SYSTEM  
線上厚薄量測系統



AUTOMATIC CENTRAL FEEDING SYSTEM  
自動中央供料系統



SURFACE / CENTRAL & GAP WINDING SYSTEM  
表面/中心間隙捲取裝置



SURFACE / CENTRAL & GAP WINDING SYSTEM  
表面/中心間隙捲取裝置



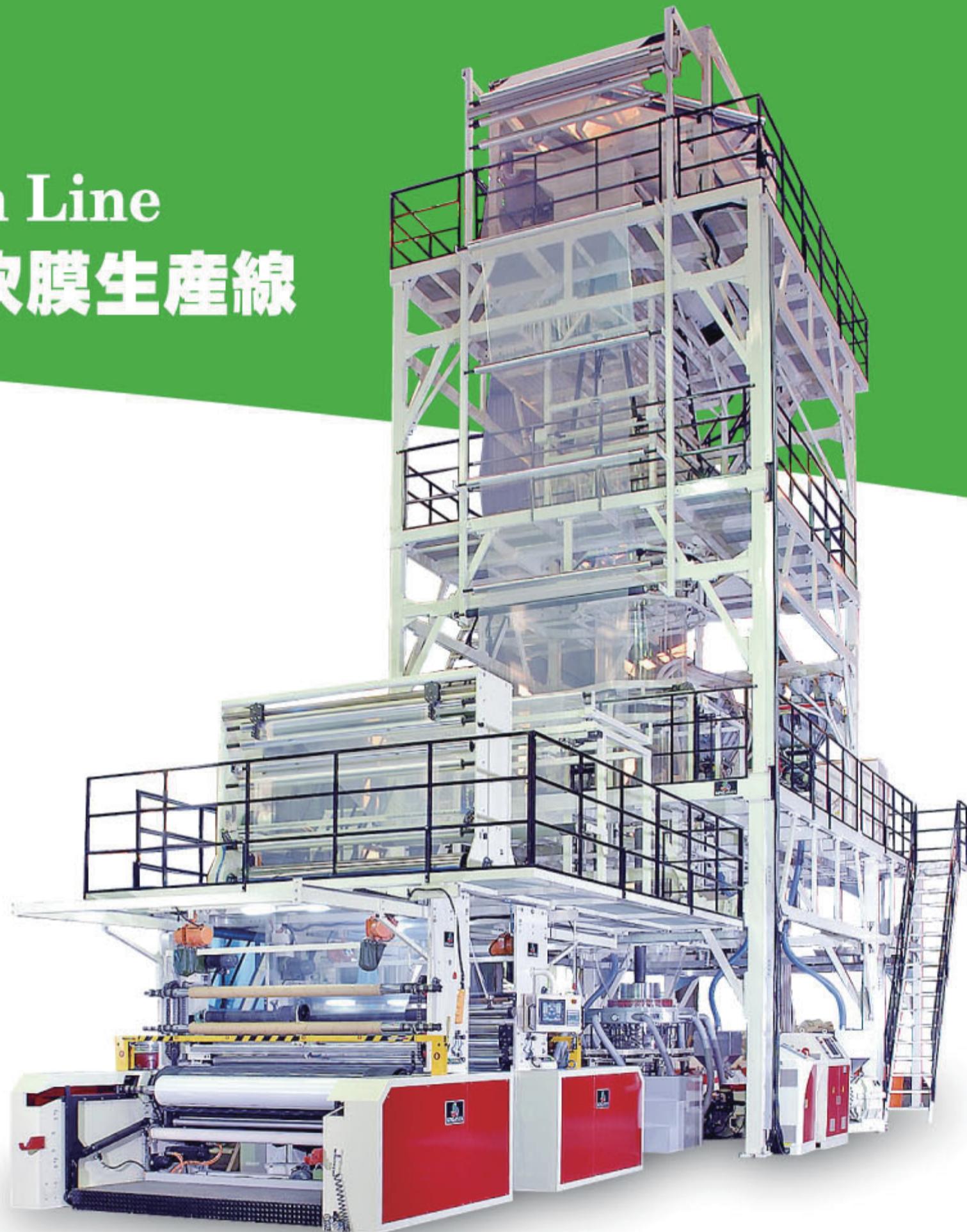
HORIZONTAL OSCILLATION TAKE UP UNIT  
水平式旋轉引取裝置



AUTO AIR RING  
自動風環

### 機械特性：

- 三層共擠吹膜生產線，吹膜寬度:500 ~ 3,000 mm
- 可供吹製之材料:  
HDPE, LDPE, LLDPE, MLLDPE, SURLYN, PP, EVA及其它可供吹膜之材料。
- 吹膜厚度: 0.012 ~ 0.3 mm
- 押出機主要配備螺桿直徑:  
Ø45 mm, Ø55 mm, Ø65 mm, Ø75 mm, Ø85 mm, Ø100 mm
- 三層內冷式模頭:  
配合冷風定溫設備，24小時全自動監測、控制，提高生產效率，降低不良率。
- 人機介面聯合超音波執行操作變化尺寸容易又簡單。
- 360°引取水平旋轉式設備提供平整膜捲讓後續加工容易、減少損失。
- 背對背全自動捲取設備:  
具有分條、恆張力控制器、油壓卸貨器。



### CONTROL SYSTEM

- M.M.I system with touch screen & human-computer interface design making the operation and production control easier.
- Showing status of the visual computer through touch screen which linked together with whole line production system.
- The screws running speed of 3 extruders performed synchronously, capable of linking up gravimetric dosing blender system.
- Take-up unit and winding unit working in synchronous connection.
- Diameter & height of bubble cage adjustable (Showing & changing diameter & height through M.M.I. system)
- I.B.C. system control.
- Ultrasonic width measurement system equipped for detecting the film blown line without gusset device.
- Ultrasonic film layflat width measurement range: Max. 3,000 mm
- Digital width control system.
- Temperature control with function of (P.I.D) and (S.S.R)
- With 99 sets formula managing function
- Abnormal message indicator
- English & Chinese language available

### 控制系統

- 觸控式螢幕，具人性化設計，讓操作者更加容易使用及操作生產線的控制。
- 人機螢幕具視覺化電腦處理系統，用於三台共押出系統生產線。
- 三台押出機馬達轉速比例運動。
- 押出機、引取設備和捲取設備之比例運動。
- 中心穩泡架具觸控式上下、昇降和大小調整。
- I.B.C.系統檢測控制。
- 超音波壓平寬度測量系統，用於沒有折角裝置的吹袋薄膜。
- 壓平寬度測量範圍最大 3,000 mm。
- 數位化寬度變化執行系統。
- 溫度監視溫度控制功能具(P.I.D)和(S.S.R)。
- 具99組配方管理功能。
- 異常訊息顯示查詢。
- 語言選擇：英文、中文。

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1. Extruder / 押出機
2. Filter / 濾網
3. Die / 模頭
4. Main control box / 主操作箱
5. Auto-thickness profile measurement system / 自動測厚系統
6. Surface / Central & Gap winding system / 表面 / 中心&間隙捲取裝置
7. Corona treater / 表面處理機

8. Central position controller / 自動齊邊裝置(C.P.C)
9. Horizontal oscillation take up unit / 水平式旋轉引取裝置
10. Bubble cage / 安定環
11. Auto central feeding system / 中央供料系統
12. Inner bubble cooling system / 內部冷卻系統
13. Gravimetric dosing system / 失重混料系統
14. Auto air ring / 自動風環
15. Electric control box / 動力箱、溫控箱

