

FSL-TO 光學膜分條機 / FSL-TO Optical Film Slitting Machine



用途 Applications

專為分條各種光學膜卷所設計，適用於擴散膜、背光膜、增光膜、聚光膜、反射膜及 TFT-LCD 產業所使用之各種 PET 素膜及貼合膜。分條後成品無刮傷，收卷米數準確，各項機構設計符合無塵室要求。

Specially designed for slitting a variety of optical film such as diffused film, backlight film, prism film, brightness enhancement film, reflection film and all kinds of PET mono layer film and laminated film for TFT-LCD production. It offers scratch-free slitting and accurate length measurement in each slitted roll. The designs of slitter are suitable for use in the clean room environments.

特點 Features

- 四馬達控制系統-放料、主傳動及收料皆採用馬達，精準的自動張力控制系統大幅提升分條品質。
- 所有加工零件經化學鍍處理，鋁輪採硬氧處理，傳動皮帶及膠輪皆採用抗靜電材質，符合無塵生產要求。
- 無軸式原料座-配備空壓夾頭上料快速，承載重量可達1噸。
- 雙分條系統-標準配置兩種刀具，可依材料種類選擇使用平刀或圓刀。
- 雙面黏塵輪裝置-採用轉黏方式設計，黏塵輪及轉黏紙輪皆為氣壓升降，轉黏紙卷使用氣壓軸固定，清理更換快速。
- 6"收卷氣壓軸-活動式設計搭配安全夾頭使用，可延長收料軸使用壽命，並使下料作業更為方便及安全。
- 獨立式收料壓輪-壓輪可依實際分條寬度做更換確保收卷品質。
- PLC可程式控制系統-彩色觸控式螢幕，各項參數值可記憶儲存，包含無料預警及斷料停車、米數到達自動停車等功能。
- 配備獨立式廢邊收卷機及靜電消除裝置。
- Four motor-controlled system: Unwind, main drive and rewinds are all equipped with AC motor, more accurate tension control and better product quality.
- All processed parts are nickel plated, aluminum rollers are hard anodized, driving belts and rubber rollers are made from anti-static material, all of them meet the clean room requirements.
- Shaft less unwind stand with pneumatic chuck offers efficient material loading. The maximum load of the unwind stand can reach up to 1 ton.
- Dual slitting system with razor blade and shear knife to meet the slitting need of different type of material.
- Double-sided sticky roller device: it is a stick and transfer system. The sticky rubber roller and sticky paper roller could be raised or lowered, controlled by independent air cylinder. The transfer-sticky paper roll is held in place by air shaft and makes cleaning and replacing speedy.
- 6" rewind air shaft: lift out design with safety chuck to extend the production life of the shaft and offers a more convenient and safer for the roll unloading.
- Independent rewind lay-on roller: the size is exchangeable depending on the slitting width, so as to keep good rewind quality.
- PLC programmable logic control system: with color LCD HMI touch screen and memory function to save all the process parameters. It also provide the functions of material run out alarm, material break auto stop and length reach auto stop.
- Equipped with independent trim-winder and anti-static device.



規格 / Specifications	FSL-TO1800 光學膜分條機
機械速度 / Mechanical speed [m/min]	300
原料紙管內徑 / Unwind paper core I.D. [mm]	76 / 3"或 (152 / 6" optional選購)
原料寬度 / Unwind width [mm]	620 - 1,800
最大原料直徑 / Unwind diameter (Max.) [mm]	1,000
糾偏系統 / Web guider system	超音波電眼 (邊) / ultrasonic photocell (edge)
分條方式 / Slitting system	平刀 / 上下圓刀 Razor blade / shear knife
最小分條寬度 / Slitting width (min.) [mm]	100
最大收料直徑 / Rewind diameter (Max.) [mm]	600



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