



One Stop Solution to your Filters Production

PLM-ROM-1

Fully Automatic Ro Membrane Roll Production Line





Features

- High Level of Automation. Fully automated operation from feeding, cutting, folding, to winding minimizes manual intervention, enhancing production efficiency.
- Modular Design. Segmented structure simplifies maintenance and upgrades, with key components (such as the splicing mechanism and gluing system) independently modularized for flexibility.
- Stable and Reliable. Built with renowned hardware brands and multiple monitoring systems (pressure, flow, and visual inspection) to ensure stable, consistent operation.
- Dual-Mode Compatibility. Supports both longitudinal and transverse production, compatible with various membrane element specifications (e.g., 1810–3013 series) to meet diverse requirements.
- Efficient Production. Longitudinal cutting improves efficiency for large-diameter membrane elements (12+ sheets), while transverse cutting achieves faster speeds (40 seconds per roll) for smaller diameters.
- Precise Control. Equipped with a high-precision servo drive, automatic web correction, and tension control system for accurate cutting, stacking, and winding.

Specification

- Center tube compatibility: 17 mm diameter, other diameters can be customized
- Standard length: 12 inches and 13 inches, customized (250–350 mm)
- Membrane element diameter compatibility: 35–100 mm diameter
- Material width compatibility: 220-330 mm
- RO membrane length compatibility: about 500–800 mm vertical cut after folding; about 500–600 mm horizontal cut after olding

Application

WEB: www.pmfiltersolution.com

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- Household RO Membrane Element Production: Suitable for mass production of 1810, 3013, and other series household water purifier membrane elements.
- Customized Industrial Membrane Elements: Supports the production of industrial membrane elements with diameters ranging from 35 to 100 mm and lengths ranging from 250 to 350 mm.
- Multi-material Compatibility: Capable of processing a wide range of materials, including diaphragms, gaskets, and flow guide fabrics, and adapting to various process requirements (such as ultrasonic welding and dual-liquid dispensing).





