

# Polyolefin Biax Shrink Film Lines

## Multi-Bubble Coex Lines for Biax Shrink Films



### Key Features:

- Versatile extrusion technology can produce a range of shrink film products
- Stable process that allows for long production runs without bubble breaks
- Optimized primary tube cooling and calibration system ensures quality production with efficiency
- Microlayer technology for increased impact and tear resistance

### Applications:

- Chlorine-Free Shrink Film & Bags
- High Clarity Shrink Packaging
- Antistatic Shrink Packaging for Electronics

Macro's PE Biax Series of coextrusion biax film lines produces high performance multilayer shrink films for a variety of applications. Each model of these multi-bubble lines is designed for efficiency and quality, using the latest proprietary technologies and state-of-the-art components.

The line features Macro's primary tube calibration system, which is a water-based quenching and sizing technology, specially designed by Macro for the biax process.

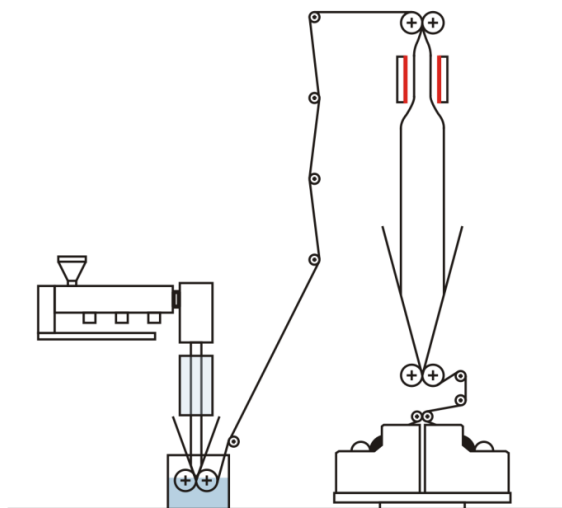
The quenching system ensures that the primary tube is precisely calibrated with simple operation that allows for adjustments to be made without stopping the line, generating cost savings from reduced scrap generation during production changes.

Each system is equipped with an infrared heated orientation configuration, which is used to reheat (soften) the film for the MD/TD orientation process. The orientation method facilitates the production of large bubble diameter films.

The line is equipped with a gauge randomizing unit and Macro's AUTOMAX-SG Gap Surface Winder, or AUTOMAX-T Turret Winder, which feature programmable tension tapering and automatic cutovers.

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## Materials:

- LDPE
- LLDPE
- LDPE (COPO)
- LDPE (TERPO)

Model	1800	1800-M	2500	2500-M
Final Film Width (mm)	1800	1800	2500	2500
Film Thickness Range (µm)	12-25	12-25	12-25	12-25
No. of Layers	3, 5, 7	24 microlayers	3, 5, 7	24 microlayers
Raw Materials	LLDPE/LDPE, Copolymer, Terpolymer			
Maximum Output Capacity (Kg/h)	200	200	280	280
Production Speed (m/min)	100	100	100	100
Primary Tube Calibration	Water-quenching unit			
Orientation	Infrared heated second bubble			
Gauge Randomizing	Winder on oscillating platform			
Automatic Controls	Automatic width and profile control			
Winding	AUTOMAX-SG Gap Surface Winder or AUTOMAX-T Turret Winder			
Airshaft Diameters (mm)	152	152	152	152
Maximum Roll Diameter (mm)	600	600	600 (option to 800)	600 (option to 800)
Web Tension Range (Kg)	2.5 - 25	2.5 - 25	2.5 - 25	2.5 - 25



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**Head Office** Canada - Tel: +1(905)507-9000 | Fax: +1(905)507-3000  
**Europe** Italy - Tel: +39 0321 182 7286 | Fax: +39 0321 182 7287  
**Asia** China - Tel: +86-411-86698162 | Fax: +86-411-86641431