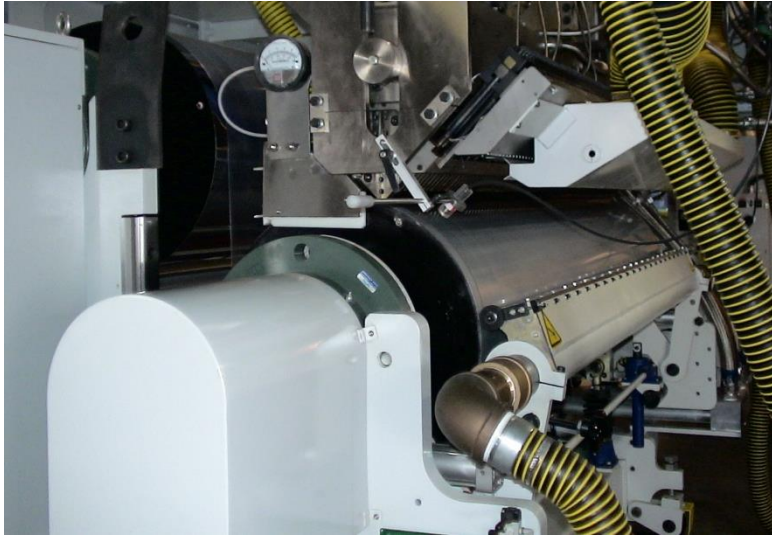


Barrier Cast Film Lines

Versatile Coextrusion Solutions for Food and Medical Packaging Films



Key Features:

- Versatile extrusion technology can be used to produce a wide range of film types
- Designed to process any barrier material including PA, EVOH, PVdC
- Cast roll cleaning system reduces downtime
- Large selection of winding and end-of-line automation options to improve production quality, efficiency and plant safety

Applications:

- Food packaging
 - High barrier films (meat, dairy, deli, prepared meals, frozen)
 - Modified Atmosphere Packaging (MAP) films
- Medical films
 - High barrier medical packaging films
- Lamination film

Macro's barrier cast film lines are designed to produce high quality barrier films using the latest technology, highest quality materials and superior workmanship.

Our unique design provides the flexibility to meet the needs of our customer's continuously evolving demands. Available up to 13-layers, each line is a versatile system capable of producing a variety of structures using different combinations of resins and layer configurations.

Macro's barrier cast film lines are outfitted with a versatile film casting unit that features a range of options to improve film quality and reduce downtime.

Costs lost due to wasted materials are reduced through optional edge encapsulation.

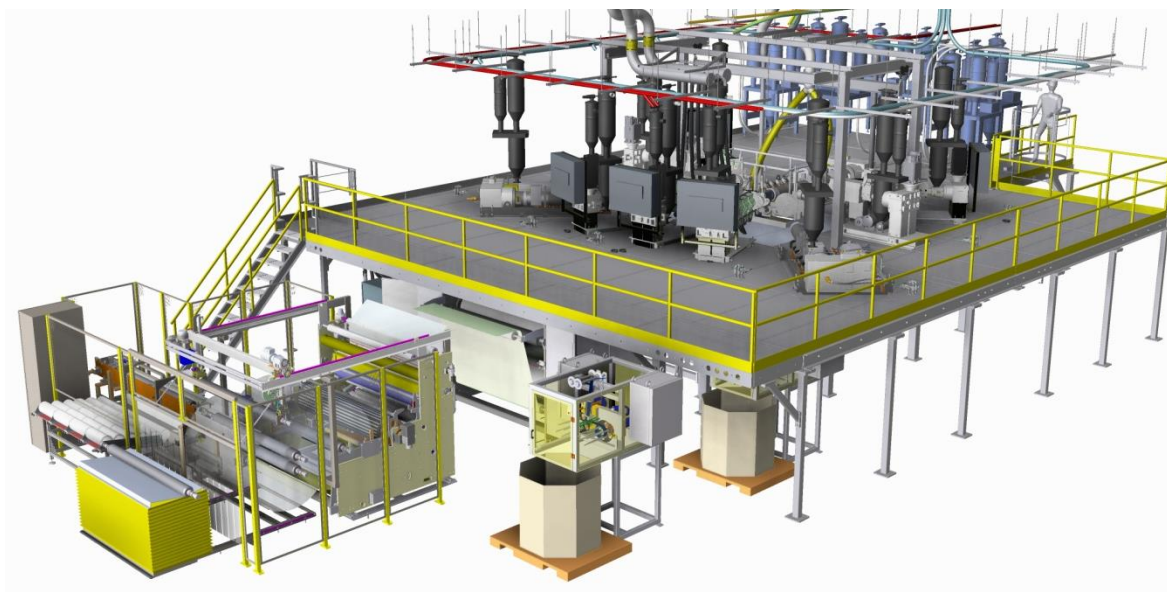
Each line is supplied with a dual chamber vacuum box to improve film quality and increase output.

Macro's sophisticated controls package simplifies line operation by automating basic procedures, making production easier and more reliable.

The lines are completed with automatic winders featuring the latest winding technologies that provide perfect roll production, every time.

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Model	1800	2000	2200	2400
Final Film Width (mm)	1800	2000	2200	2400
Film Thickness Range (µm)	20 – 200	20 – 200	20 – 200	20 – 200
No. of Layers	5, 7, 9, 11,13	5, 7, 9, 11,13	5, 7, 9, 11,13	5, 7, 9, 11,13
Typical Raw Materials	LDPE/LLDPE, mPE, HDPE, EVA, PP, PETG, PS, SBS Copolymers, PA (Nylon), EVOH, PVdC, Ionomers, Acid Copolymers, Tie Resins			
Die Type	Automatic	Automatic	Automatic	Automatic
Layer Monitoring	Individual layer thickness distribution monitoring and control			
Winder	Gap surface or turret			
Maximum Roll Diameter (mm)	1500	1500	1500	1500
Multiple Rolls, Maximum No.	4	4	4	4
Airshaft Diameters (mm)	76, 152	76, 152	76, 152, 203	76, 152, 203
End of Line Automation	Optional roll unloading, shaft handling and core loading systems			