

NEW

LAB TECH ENGINEERING
COMPANY LTD

MEET LABTECH'S **BLOWN FILM** EXTRUSION LINES

MARK II SERIES

SPECIAL

Professional
Quality at
Affordable
Prices



Compatible with

Single-Screw Extruders Mark II
or Recycling Extruders Mark II

FASTER
DELIVERY
TIMES

MODERN
LEAN
DESIGN

FULL
WARRANTY
INCLUDED

NEW

LABORATORY SCIENTIFIC

SINGLE-LAYER BLOWN FILM EXTRUSION LINES

MARK II

INTEGRATED WITH SINGLE-SCREW
EXTRUDERS MARK II

LFX-250/MARK II WITH LREX16-25/MARK II

Introducing Labtech Engineering's Blown Film Extrusion Line Mark II, integrated with the Single-Screw Mark II Extruders!

This system is designed to produce plastic film suitable for lab testing purposes and regular film production, making it ideal for quality control, R&D, and university research.

The system comprises the Single-Screw Extruder Mark II and the Blown Film Attachment Mark II, offering modular flexibility. The Blown Film Extrusion Line is available in two models: LFX-250/MARK II with Extruder LEX20-30/MARK II, and LFX-400/MARK II with Extruder LEX25-30/MARK II. Equipped with the Single-Screw Extruders Mark II, the Blown Film Line processes a wide range of materials, including PE, Nylon, PVA, PLA, PBAT, and more, making it perfect for diverse testing and production demands.

Our Blown Film Attachments Mark II can also be paired with Labtech's Single-Screw Recycling Extruder Mark II LREX16-25/MARK II for LFX-250/MARK II and Recycling Extruder Mark II LREX25-25/MARK II for LFX-400/MARK II. Our Recycling Extruders are used for applications that require immediate checking of film properties and the integration with Blown Film offers a compact and efficient solution for film production and plastic recycling in a single system to efficiently handle recycling materials.



SINGLE-SCREW EXTRUDERS MARK II TYPES LEX20-30/MARK II AND LEX25-30/MARK II

Processing Capabilities:

- Handles wide range of polymers like PE, Nylon, PVA, PLA, PBAT and starch-based polymers

General Design:

- Compact and modern design with full steel safety cover
- C-Clamp type flange for quick and secure die connection
- Constructed from nitride-hardened steel with L/D ratio of 30
- Utilizing specialized mixing screw elements to achieve exceptional homogenization and optimize process efficiency

Barrel Heating And Cooling System:

- High-power heating zones for fast heating to process temperatures
- Specially designed barrel sections for improved heat release, enhanced by a vertical air cooling system for all heating zones
- Water-cooled feed section to prevent premature material melt and bridging

Control System:

- User-friendly tiltable control panel with a computerized touch screen interface for enhanced automation capabilities and systematic recording of operational data for temperature, pressure, and speed optimization



BLOWN FILM ATTACHMENTS MARK II TYPES LFX-250/MARK II AND LFX-400/MARK II

Die and Cooling System:

- Spiral mandrel annular die assembly for uniform polymer melt distribution
- Single-lip air cooling ring for optimized cooling efficiency and stable film bubble control

Film Handling and Stabilization:

- Film bubble stabilizing cage with Teflon rods
- Adjustable collapsing frames with polished wood slats
- Haul-off nip rolls with pneumatic rubber press roll and driven hard-chrome roll
- Three anodized guide rolls on a sturdy aluminum profile center column

Wind-Up System:

- Center winder with air expansion wind-up shaft for easy removal of the plastic bobbin after winding the film roll

Control Panel:

- Tiltable control panel with computerized touch screen for full control over temperature, pressure, and speed settings, enhancing automation and data logging



TECHNICAL SPECIFICATIONS

SINGLE-SCREW EXTRUDERS MARK II			BLOWN FILM ATTACHMENTS MARK II		
LEX20-30/MARK II			LFX-250/MARK II		
LEX25-30/MARK II			LFX-400/MARK II		
Screw Diameter			Tower Nip Roll Width		
20 mm			250 mm		
L/D Ratio			Max Film Lay Flat Width		
30:1			190 mm		
Max Screw Speed			Max Line Speed		
150 RPM			25 m/min		
Drive Motor Power			Die Lip Diameter		
1.5 kW			Ø28 mm		
Max Barrel Temperature			Die Lip Gap		
300 °C			0.8 mm		
Maximum Output	For Strand Pelletizing	6 kg/hr (LDPE)			
	For Cast/Blown Film	5 kg/hr (LDPE)			
15 kg/hr (LDPE)					
10 kg/hr (LDPE)					