

NEW

LABTECH ENGINEERING
COMPANY LTD

MEET LABTECH'S CAST FILM EXTRUSION LINE

MARK II SERIES

SPECIAL

Professional
Quality at
Affordable
Prices



FASTER
DELIVERY
TIMES

MODERN
LEAN
DESIGN

FULL
WARRANTY
INCLUDED

NEW**LABORATORY SCIENTIFIC**

SINGLE-LAYER CAST FILM EXTRUSION LINE

MARK II

INTEGRATED WITH SINGLE-SCREW
EXTRUDER MARK II

Labtech Engineering proudly presents its LABORATORY SCIENTIFIC SINGLE-LAYER CAST FILM EXTRUSION LINE MARK II, featuring the LCRX-300/MARK II Cast Film Unit integrated with our LEX25-30/MARK II Single-Screw Extruder.

TYPE LCRX-300/MARK II



TYPE LEX25-30/MARK II

The MARK II series offers several advancements for laboratory extrusion applications:

- Modern, space-saving design that maximizes workspace efficiency.
- Significant investment cost reduction for new setups.
- Shortened production timelines for quicker equipment onsite delivery.
- Delivers film quality and performance consistent with our standard models.

With these advantages, the Cast Film Line MARK II becomes a compelling option for several market important segments:

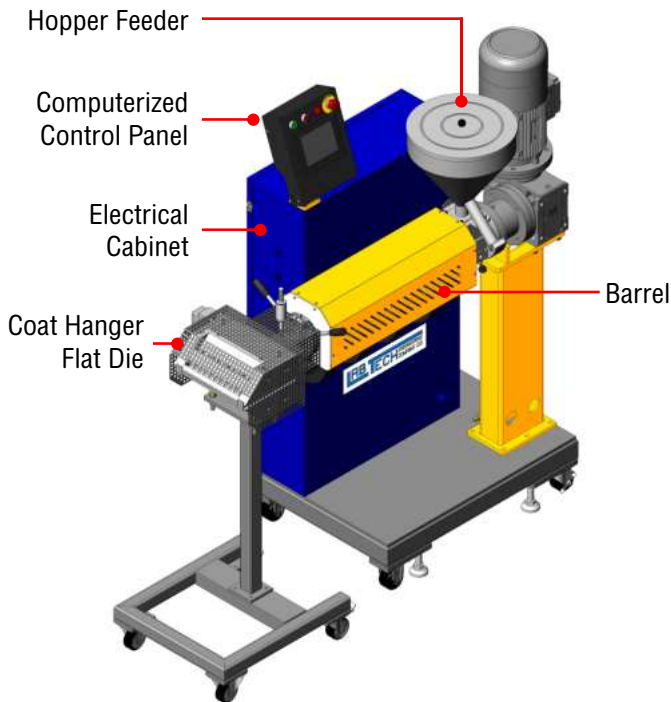
- Startups with limited capital and venturing with a cost-effective solution.
- Organizations operating with restricted budget.
- University laboratories seeking professional-grade equipment for academic research and training.

Our Cast Film Attachment MARK II is designed for seamless integration with Labtech's Single-Screw Recycling Extruders MARK II. This pairing creates a compact, efficient system for combining film production with plastic recycling.



25 MM SINGLE-SCREW EXTRUDER MARK II TYPE LEX25-30/MARK II

The LEX25-30/MARK II features a lean body mounted on a sturdy steel frame positioned beside its electrical cabinet. With four casters, it is for easy laboratory repositioning while maintaining stability.



Barrel and Screw:

- 25 mm diameter screw with L/D ratio of 30
- Mixing elements to ensure thorough material processing
- Constructed from high-quality nitrided steel
- Fully compatible with all standard commodity plastics

Thermal Regulation:

- Precise four-zone temperature control system
- Features independent zone cooling fans for gradual temperature transitions

Drive System:

- High-performance 4 kW AC motor
- Achieves operational speeds of up to 300 RPM

Coat Hanger Flat Die:

- Optimized flow geometry for uniform polymer distribution
- Adjustable lip gap ranging from 0.3 to 2.0 mm
- Individual temperature controls precisely up to 300 °C
- Handles full range of commodity polymers
- Vertical or horizontal roll stack orientation as factory pre-set

CAST FILM ATTACHMENT MARK II TYPE LCRX-300/MARK II

The LCRX-300/MARK II is a highly adaptable attachment, incorporating a coat hanger die, a two-roller stack, and essential downstream components including edge cutters, pull rolls, and winding system – all in a space-efficient arrangement.

Roll Stack Design:

- Features two rolls, each with 145 mm diameter
- The cast roll connected to a water tempering unit for precise roll surface temperature control up to 120°C
- The roll stack can be configured in vertical or horizontal orientation during factory setup for diverse film processing

Edge-Cutter with Wind-Up Cassettes for Edge Trims (Option):

- Delivers clean, uniform edges for maximum material usage
- Efficient trimmed waste collection via convenient cassettes

Pull Roll Station:

- Features two rubber rolls with adjustable pressure settings
- Smooth and consistent movement at speeds up to 15 m/min

Winding System:

- Air expansion shaft with PVC bobbins
- Quick product removal and efficient changeovers for enhanced workflow productivity

Control System:

- User-friendly interface on a swingable control panel
- Manages all parameters with comprehensive security features



TECHNICAL SPECIFICATIONS

25 MM SINGLE-SCREW EXTRUDER MARK II		LEX25-30/MARK II
Screw Diameter		25 mm
L/D Ratio		30:1
Max Screw Speed		300 RPM
Drive Motor Power		4.0 kW
Max Barrel Temperature		300 °C
Maximum Output	For Strand Pelletizing	15 kg/hr (LDPE)
	For Cast/Blown Film	10 kg/hr (LDPE)

CAST FILM ATTACHMENT MARK II		LCRX-300/MARK II
Roll Diameter (All 2 Rolls)		145 mm
Roll Width		350 mm
Max Die Width		300 mm
Max Roll Temperature (Optional Water Tempering Unit)		120 °C
Die Lip Opening (Adjustment Range)		0.3 - 2.0 mm
Max Film Width (Untrimmed)		250 mm
Max Line Speed		15 m/min



LABTECH ENGINEERING CO., LTD.

Bangpoo Industrial Estate, 818 Moo 4 Soi 14B,
Sukhumvit Road Praksa, Muang, Samutprakan, 10280 Thailand
Tel.: 66-2-709 6959 | Fax: 66-2-710 6488 and 89



www.labtechengineering.com

✉ labtech@labtechengineering.com
 📘 facebook.com/labtechengineering
 📷 Instagram.com/labtechengineering
 📺 youtube.com/@labtechengineeringpreview
 🔗 linkedin.com/company/labtech-engineering