

Flexible packaging extrusion
laminating machine

Extrusion Coating & Lamination Machine

PROPOSAL BY:

Smart Pack Solutions

■ Smart Pack Solutions

Advanced Extrusion Coating & Lamination Machine

Innovation. Precision. Excellence.

■ INTRODUCTION

Smart Pack Solutions brings you the latest Extrusion Coating & Lamination Machine, designed with advanced engineering for high-speed and high-precision coating applications. Built for flexible packaging, industrial applications, and specialty films, our machine offers superior performance, efficiency, and versatility.

Engineered with patented technology, this machine ensures low energy consumption, high extrusion output, and excellent coating uniformity—making it an ideal choice for converters, packaging manufacturers, and industrial film producers.

■ At Your Glance



Flexible packaging extrusion
laminating machine

Advanced Extrusion Coating & Lamination Machine

➤ Energy-Efficient Extrusion Technology

➤ Versatile Applications

➤ High-Speed & Precision

➤ Advanced Automation & Control

MACHINE SPECIFICATIONS

1. Machine Size & Speed

- Machine Width: 1200mm, 1350mm, 1450mm, 1700mm
- Effective Production Width:
 - 1200mm (600 – 1100mm)
 - 1450mm (800 – 1350mm)
 - 1700mm (1000 – 1600mm)
- Mechanical Speed Range: 150m/min to 350m/min

2. Extrusion System

- Extruders: Manufactured with Chaotic Mixing Low Energy Consumption Extruder technology.
- Extrusion Output: 120kg/h to 300kg/h
- Compatible Resins: LDPE, LLDPE, PP, EVA, EAA, EMA, EMAA, etc.

3. Coating & Lamination Performance

- Extrusion Thickness: 6 – 40μm
- Thickness Uniformity (Manual T-Die): $\leq \pm 5\%$
- Unwind Diameter: Max. $\phi 800\text{mm}$ or $\phi 1000\text{mm}$

➤ **Substrate Compatibility:**

- **Primary Unwind Substrates:** BOPP, BOPET, BOPA, thin paper (20 – 100gsm)
- **Sandwich Unwind Substrates:** BOPP, PET, MCPP, MPET, Aluminum Foil, Paper.
- **Laminating Chill Roller Diameter:** $\phi 600\text{mm}$ or $\phi 800\text{mm}$, double-jacket with spiral runner design.

4. Automation & Control

➤ **Tension Control:**

- Automatic tension control in unwind & sandwich unwind (Max. 300N)
- Rewind tension control with taper adjustment (Max. 300N)

➤ **Drying System:** 4.5m dryer with plain & gravure coating roll

➤ **Inverter:** Foreign-brand AC digital vector control inverter

➤ **HMI Operation:**

- Real-time thickness monitoring
- Fully automated process control

5. Space & Installation Requirements

➤ **Plant Space Requirement:** 35.5m (L) × 14.5m (W) × 5m (H)



KEY FEATURES & ADVANTAGES

- **High-Speed & Precision**

Our extrusion coating machine operates at up to 350m/min, ensuring fast production cycles, uniform coating thickness, and minimum material wastage.

- **Energy-Efficient Extrusion Technology**

Equipped with Chaotic Mixing Low Energy Consumption Extruders, this machine reduces energy consumption while delivering maximum extrusion output.

- **Versatile Applications**

Compatible with various substrates and resins, this machine can be used for packaging films, industrial laminates, paper coatings, and more.

- **Advanced Automation & Control**

The HMI-controlled system ensures precision thickness control, automatic tension adjustments, and seamless integration of all machine components.

- **Superior Lamination & Adhesion**

The machine's high-performance drying system and laminating chill rollers ensure strong adhesion, high durability, and excellent printability for laminated films.

■ APPLICATIONS

- **Flexible Packaging** – High-performance coatings for food, pharmaceutical, and industrial packaging films
- **Paper & Board Coating** – Coating solutions for cartons, paper cups, and specialty paper products
- **Industrial Lamination** – Barrier films, adhesive coatings, and specialty laminates
- **Aluminum Foil Coating** – High-speed lamination for metalized and barrier packaging applications

■ WHY CHOOSE Smart Pack Solutions?

- **Industry-Leading Expertise** – Over 15+ years of experience in flexible packaging and extrusion solutions
- **Innovative Technology** – Machines built with advanced engineering and patented technology
- **Global Reach** – Serving over 40 countries with reliable and cutting-edge packaging solutions
- **Customer-Centric Approach** – Comprehensive support, customized solutions, and after-sales service



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