

Midian  
**e**xtrusion  
 machine



***MIDIAN***  
 MIDIAN Co., Ltd.



# We are growing with customers

Produce and construct machinery by  
placing ourselves in the user's place and  
value the customers trust as our





# Extrusion machine

## Greeting

Midian Co. Ltd., gives its all for the design, production and development of safe plastic extruders. In order to supply the best optimized machinery which are suitable for customer's requirements, we all devote ourselves like light and salt all over the world to develop, design and manufacture in union.

Our engineers solve the customer's requirements based on wide accumulated technical know-how and a long experience in the field of synthetic resin processing machine makers. We always recognize both our satisfying customer's and our customer's prospering as our future and we do our best to supply the best quality machinery and reliable service.

President  
Dong-Seok, Park



# Breathable Film Machine

This is Breathable film manufacturing machine. Breathable film is produced by extruding polyethylene resin which is compounded with  $\text{CaCo}_3$  from extruders & T-dies and stretching the film into operating direction.

Due to its fine surface pores, it is permeable to air but not to liquid(sort of water).

The Breathable film is very useful as it allows transmission of gases but it remains water proof.

Major uses include the back sheet of diapers and sanitary napkins, etc.

With its superior waterproof and ventilation functions, it is used as a material for disposable hygienic products.

Utilizing non-woven fabric, it is applied to products to improve house wrap film, medical disposable garment, etc.





# Extrusion machine



# Hot Melt Lamination Machine

Hot melt laminating machine is consist of Slot die system or spray nozzle system and cold glue laminating machine is consist of gravure roll system.

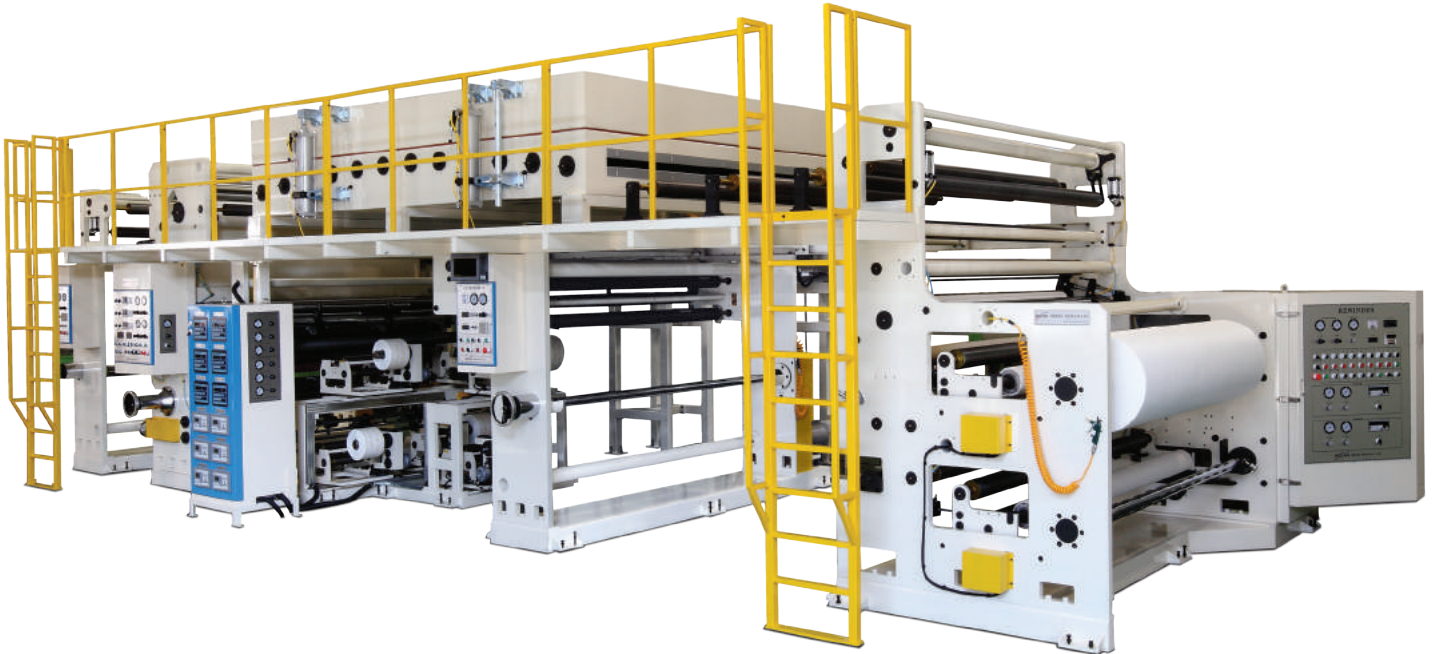
As a method to adhere the film and non-woven fabric using glue adhesive, this film has strong adhesive power and requires a certain hardening and aging time. This laminated film is produced by adhering the film to the non-woven fabric using a hot melt applicator. It is widely applied to hygienic and medical films and it has superior softness and high adhesive strength.

It is used as a back sheet material as non-crush waterproof cover of disposable diapers or sanitary napkins for women. As it has color fastness and strength, it is used as a material for the individual packaging of disposable sanitary towels. Currently, it is widely used in areas requiring high strength and functional ventilation such as in house wrap, medical disposable gown, dehumidifying paper, hand warmer and etc.





# Cold Glue Lamination Machine



# CPE, CPP Multi Layer Film Machine

This is designed to produce 3~7 layer extrusion casting film with PE, PP, Adhesive, PA, EVOH, EVA and others as raw materials. With the development of technology and improvement of people living standard, the keep-fresh oxygen proof film is widely applied in food packing industry. People are pleased with multi layer film in many kinds of industry. Multi layer film can be made with either symmetrical or asymmetrical structure configurations to meet the customized needs of a broad variety of applications.

With this film's superior barrier property, it has a number of applications in medical, chemical industry packing, agricultural chemicals packing, food packaging-like high barrier film, vacuum pouches, etc.





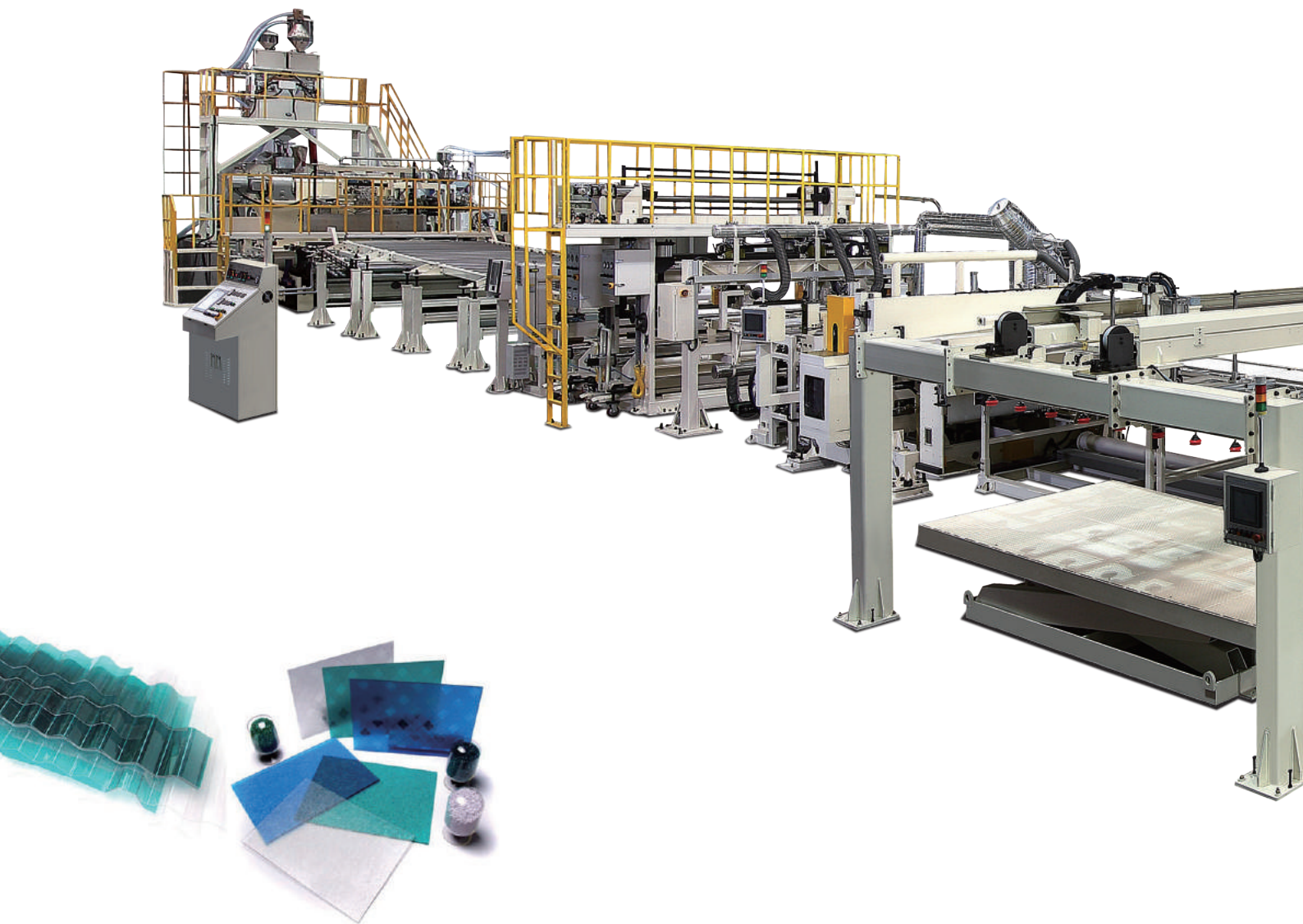
# Extrusion machine



# Sheet Manufacturing Machine

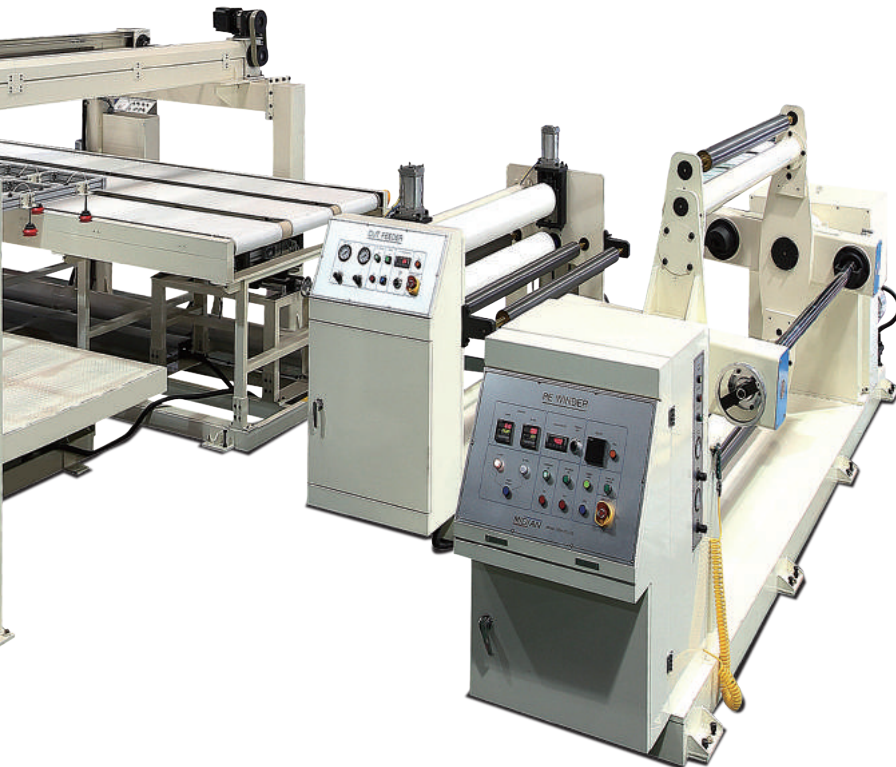
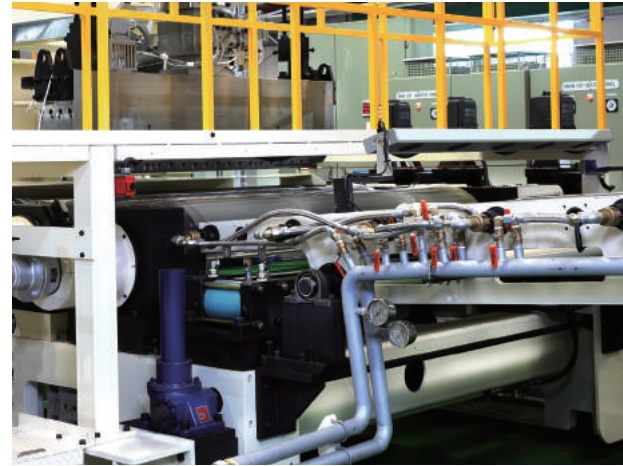
The sheet producing machine is consist of single layer machine or multi layer sheet machine. This sheet can be produced from thin sheet to thick sheet and it has various characteristic based on which material is used.

Hence the produced sheet has various characteristic such as excellent light transmittance, impact resistance, heat resistance, self-extinguishing superior printability, stability and formability, this sheet is used as sound-proof wall, construction materials, roofing materials, connecting walkway, advertisement board/display, interior materials and other various areas.





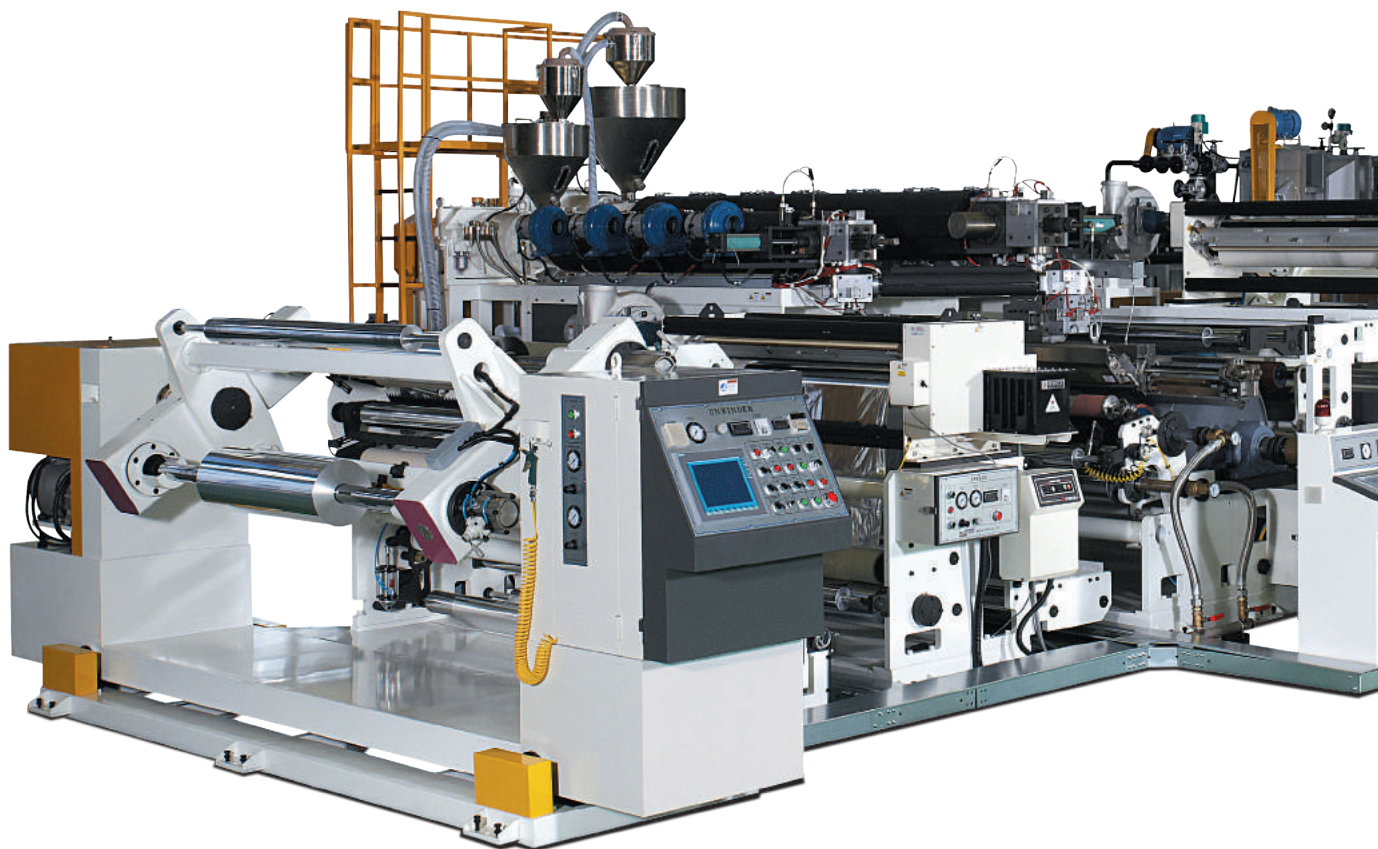
# Extrusion machine



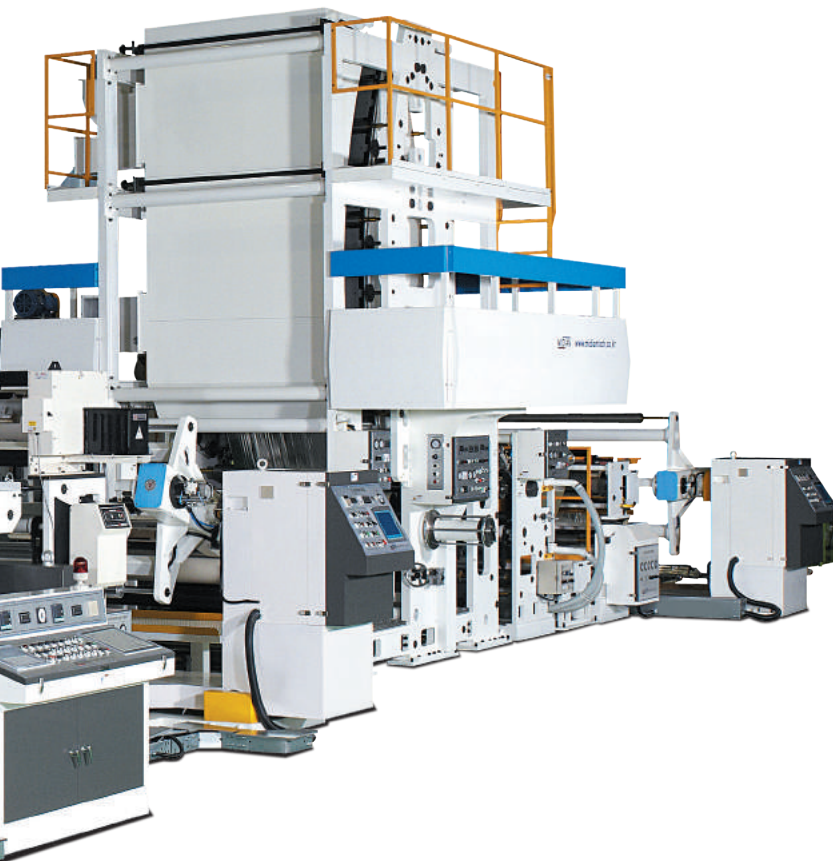
# Extrusion Lamination

This is extrusion laminating machine in which BOPP, BOPET, BOPA, CPP, Aluminum foil, MET-PET, PE, Paper and others are coated and laminated with other substrates. Some lines include two extruders which can apply two different layers of molten plastic in one pass through the machine. These dual extrusion machines are called “Tandem type” and they can apply one coating on either side of substrate or two coatings on the same side.

An extrusion laminating line is usually installed as a multi-purpose production system. The extruders can apply one or more protective or adhesive coatings to form various combinations of materials and coatings. The laminated film is used for flexible packaging, food packaging like PE coated milk containers and sugar packages, paper-PE-foil laminates for pouches, food & liquid packaging with Aluminum foil, etc.







# Gravure Printing Machine

This printing machine is designed for printing product of Breathable, Non-breathable film and other films with various printing design. The printing motive is engraved onto the gravure cylinder and the ink is pressed into the cells of the rotating gravure cylinder. During inking-up, the printing and non printing areas are flooded with ink and the needless ink is doctored with a blade. The impression cylinder presses the printing material on the gravure cylinder and the ink is transferred from the gravure cylinder onto the printing material.

For multi colors gravure printing works, an automatic register controller is used to modify the printing error with high speed and high precision and the register controller automatically controls the gravure cylinder by finding a printing error generated from the process producing one picture(product) overlapping colors in printing.







We have product differentiation

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