



**Chyi Yang Industrial Co., Ltd.**

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## **BL OWN FILM** **Machine**

The most comprehensive range of blown film  
machines for flexibility



CE

# Chyi Yang...



The most comprehensive range of blown film machines for flexibility

## An Internationally recognized Manufacturer of Plastic Film Machinery

Established in 1965, Chyi Yang Industrial Co., Ltd. is a highly reputed manufacturer of a wide range of plastic film machinery. As the 2nd eldest plastic machinery manufacturer in Taiwan, we have sold a considerable quantity of machines to worldwide markets.

Based on almost 50 years of accumulated experience, we have the know-how and outstanding resources to design and develop machines that our customers have come to expect. Our objective is to enhance the value of each machine from Chyi Yang.

## Customized Design Capabilities

At Chyi Yang, we are proud of our outstanding technological capabilities. We design and manufacture blown film machines that fully meet customer requirements. Most mechanisms of blown film machines are designed in-house, according to each customer's desired material properties film function and output, etc.

## Outstanding R&D Capabilities

For many years, Chyi Yang blown film machines have satisfied customers all around the world. Our reputation is the result of our total dedication to technological research and development. Our design engineers are constantly seeking improvements that will enable our machines to achieve the best possible performance.

## Various Patented Designs from Chyi Yang

- PE film rewinding machine  
Patent no. 61901
- Improvement on the film winder  
Patent no. 113496
- Feeding mechanisms with film roll  
Patent no. M256371
- Film edge recycling pelletizer  
Patent no. M256276
- Blown film machine with film guide and take-up unit  
Patent no. M303100
- Fully automatic PE stretch / cling film rewinder machine (film width is adjustable)  
Patent no. M425859



**CE Certified in 2001** Chyi Yang is the first plastic film extruder manufacturer that received CE certification in 2001 from **TÜV**, the top CE inspection company in Germany.

## Gearbox



### Optimal Gear Design

All gears are stress analyzed in combination with optimal design on tooth surface, dramatically reducing impact and noise of gear engagement, while increasing the service life of gear train.

### Wear-Resistant and Durable Gears

Gears are precision machined from Nickel Chromolybdenum alloy steel; tempered and nitrided on tooth surfaces to achieve excellent wear-resistance and durability.

### Rigid Gearbox Housing & Precision Bearings

The gearbox housing is manufactured from grey cast iron with tempering treatment to relieve stress.

## Air Ring



The unique flow design of our air ring eliminates film chatter while uniformly providing the air volume needed for high production speeds, optical properties and thickness control are also improved. Built based on a latest new design, the air ring stands out for its exceptional efficiency on double lip production for LLDPE and LDPE as well as single lip for HDPE. Fabricated in a special aluminum alloy, it is machined with great care to avoid turbulence. Hoses with tangential inlets leading from the air box to the ring provide an even, turbulence free flow of air.

## Co-Extrusion Die

According to 3-layer co-extrusion die, the material composition can be two-layer A+B structure, and three-layer A+B+C or A+B+A. Die is manufactured from high quality alloy steel—nitrided and precision ground to ensure zero transformation of material under high temperatures. Flow channels are hard chrome plated and highly polished,

### Precision Ground Gears

All gears are hardened and precision ground to ensure running accuracy, low noise, increased impact resistance and life.

### Forced Lubrication and Cooling

The gearbox is equipped with a forced lubrication circuit and a newly designed cooling filter system, exhibiting excellent heat dissipation performance. The oil seal mounting position is specially machined to assure a superior sealing effect and long life.

Double lip air ring leads to powerful cooling effect. Aluminum alloy air ring features fast heat dissipation, minimum heat absorption and accurate film thickness. The air inlet and outlet ports are specially designed for great cooling efficiency, uniform air flow in and out, without turbulence problems. Great air flow for increased efficiency; air rings for LLDPE and HDPE are interchangeable. A heat isolation device is provided between the air ring and die, increasing the cooling effect.



providing smooth flow channels and zero obstruction of material. The specially designed die improves uniformity of film thickness.

## Screw



The screw is manufactured from alloy steel, hard chrome plated, nitride and specially treated to ensure uniform hardness on each point. Choice of screw diameter from 35mm to 150mm permits fast extruding with outstanding mixing effect.

Single helix screw design makes plastic material flow more stable.

High plasticization and homogeneity material function.

High torque makes high productivity possible. As high productivity is achieved at low running screw speed, it may prevent dissolution problems and minimize material variations. Reduced melt wear. Increased product quality.



## Die

We offer mono & co-extrusion dies for producing single and up to three-layer film structures. Our dies are manufactured from high quality alloy steel, nitride and precision ground to ensure non-transformation of material under high temperatures. Flow channels are hard chrome plated and undergo a high polishing treatment, providing smooth flow channels while avoiding obstruction of materials. This results in excellent film quality and maximum uniformity of film.

Uniform die flow channels layout for even thickness of film. Flow channels are hard chrome plated to avoid material obstruction. Spiral die construction keeps flow channels smooth without flow line marking.



## Oscillating Nip Roller Device

The oscillating nip roller system effectively solves the troublesome rotary die cleaning and maintenance problems which have occurred for several decades. In addition, it assures uniform air flow—resulting in even film thickness.

Clockwise and counter clockwise rotating speed is variable through an inverter control. Simplified construction and easy to maintain. Optimal air-flow distribution design assures maximum uniformity of film thickness.

# 1-Layer Blown Film Machine



MNE - 45SE1

## Mini Type PE Blown Film Machine MNE series

Designed for producing T-shirt bags and flat bags

- Small footprint
- Easy to operate
- High productivity and energy saving



HPE - 45SE2

## PE Blown Film Machine HPE series & LPE series

High Speed PE Blown Film Machine

- Easy to operate
- Uniform film thickness
- Less film waste
- Special air ring design assures high quality of film

## Blown Film Machine with In-Line 1-Color / 2-Color Mini Flexo Printer HPE+MFC series & LPE+MFC series

1-Color or 2-Color With mini flexo on winder to increase efficiency!



LPE+MFC - 45STE5



LPE - 150ST5



TDH - 45SE2

## Twin-Die PE Blown Film Machine TDH series

- Two operation lines to maximize throughput!
- Can be forced feeding as an option.

## Two Colors Stripe Blown Film Machine TCP series

Great machine performance in an economical package

- The TCP+H series is designed with two gear boxes driven by two motors, allowing for easy adjustment of color width.
- The TCP series is designed with one gear box driven by one motor, suitable for low production at a lower cost.
- Precise die design ensures clear color without overlap.



TCP + H - 45SE2

# Forced Feeding PE Blown Film Machine



*HPE - 55FH2*

## Super High Speed PE Blown Film Machine

### HPE-F series with H winder

- Automatic cut and manual reel change
- Less film waste
- High productivity



*LPE - 55FTE2*



*LPE - 90FTE2*



*HPE - 55FT2*

## Ultra High Speed Production Helps You Stay Competitive

### HPE-F series with T winder

#### Super High Speed HDPE Blown Film Machine

- Specially treated screw features maximum wear resistance
- High productivity
- Less film waste
- Fully automatic cut and change reel



*LPE - 75FT6*

# Multi-Layer Co-Extrusion Blown Film Machine

## 3-Layer Co-Extrusion Downstream Blown Film Machine

### THDQ series

A Perfect Solution for Packaging

Industrial:

- Pallet covers
- Shrink film
- Heavy duty bags

Food:

- Lamination film
- Milk packaging

General:

- Diaper film
- Protective film
- Shopping bags



THDQ - 55ST6 - 1200

## 3-Layer Co-Extrusion Blown Film Machine

### THDP series

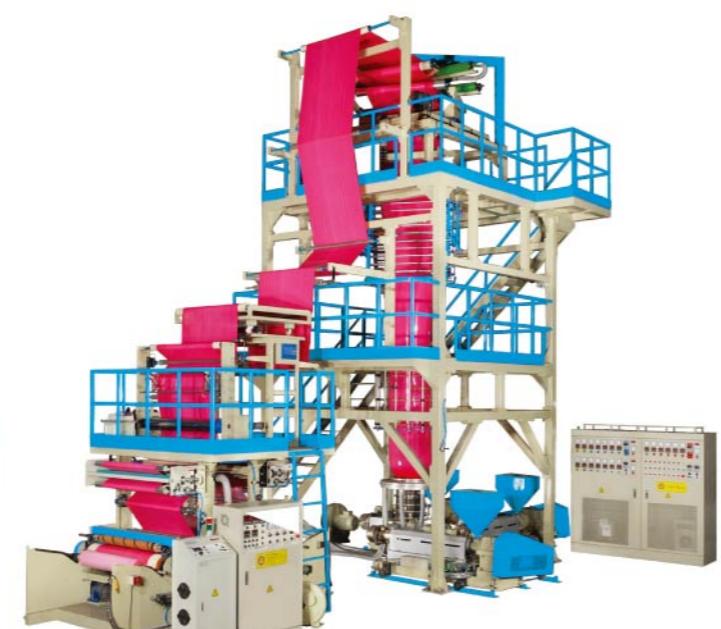
Give Film Blowing a Performance Boost and Lower Production Costs.

Applications of 3-layer film:

- Agricultural film
- Mulch film
- Laminating film
- General and dry food packaging
- Medical and protective film



THDP - 42ST5 - 750



THDP - 50+55+50SH6 - 1200

## 2-Layer Co-Extrusion Blown Film Machine MDP series

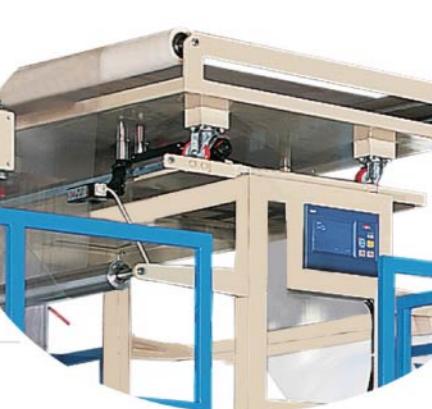
Staying ahead with MDP Series

Applications of 2-layer film:

- Agricultural film
- Mulch film
- Laminating film
- Courier bags
- Frozen packages



MDP - 65ST6



THDP - 55ST6 - 1350

# Stretch / Cling Film Whole Plant Equipment



## 1-Layer Stretch / Cling Film Making Machine WPE series



A highly productive series perfectly suited for producing PE cling film and PE industrial stretch film  
PE Wrapping Film Making Machine for Stretch & Cling Film Purposes



WPE - 75ST6

## 2-Layer Co-Extrusion Blown Film Machine WEP/M series



WEP/M - 65ST6

The above photos are for reference, the options are NOT included, the correct specifications are subject to official quotation.

## Fully Automatic PE Stretch / Cling Film Rewinding Machine RW series, RWA series

- Rewinding speed : 9 pcs / min. for 20m length production.
- Taiwan patent No. 61901. M425859
- Fully automatic input paper core, rewinding, cutting &, change paper core.

RW-1



RW-3



RWA



- Rewinding film width can be adjusted from 300mm to 530mm.

## Semi-Automatic PE Stretch / Cling Film Rewinding Machine RW-2

- Manual input paper core, cutting & change paper core.



# PP Blown Film Machine / PVC Shrinkable Film Blown Film Machine



## PP Blown Film Machine PP series

A high speed series with proven performance  
High Speed PP Blown Film Machine

- Specially designed screw dramatically increases throughput.
- The water cooling system makes film glossier and more transparent.
- The dry chamber provides fast drying of film.



## PVC Blown Film Machine PVC series

- Available for producing shrinkable PVC film for labels & goods packaging etc.
- Hot water chamber & cooling size ring help to get a glossier, and non-wrinkled film
- Machine direction shrink ratio and transverse shrink ratio can be adjusted easily. Machine direction shrink ratio can be 2-5 %



The above photos are for reference, the options are NOT included,  
the correct specifications are subject to official quotation.

# Winder

## Single Winder:

### E2

Manual cut & manual change reel winder



### TE2

Automatic back-type cut & automatic change reel winder



### H2

Automatic cut & manual change reel winder



### T2

Automatic front-type cut & automatic change reel winder



## Back-to-Back Winder:

### E5

Manual cut & manual change reel, with pulling roller, most economic type



### TE5

Back-to-back automatic back-type cut & automatic change reel winder



### H5

Back-to-back Automatic cut & manual change reel winder



### T6

Back-to-back automatic front-type cut & automatic change reel winder

