



Chyi Yang Industrial Co., Ltd.

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BLOWN 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 a 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.

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.

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.

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.

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,

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



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

MNE - 45SE1

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



HPE - 45SE2



LPE - 150ST5



LPE+MFC - 45STE5



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



Super High Speed PE Blown Film Machine

HPE-F series with H winder

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



HPE - 55FH2

LDPE / LLDPE Super High Speed Blown Film Machine

LPE-F series

Perform at amazing speeds with LDPE / LLDPE film blown operations!

- Advanced machine design to accommodate high percentage of LLDPE
- Excellent for producing high quality film
- Newly developed winder tension control for easier adjustments



LPE - 55FTE2

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



HPE - 55FT2



LPE - 75FT6



LPE - 90FTE2

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:

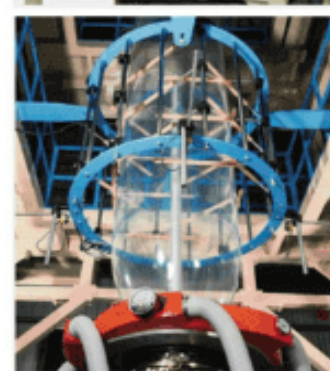
- Agricultural film
- Mulch film
- Laminating film
- Courier bags
- Frozen packages



MDP - 65ST6



THDP - 55ST6 - 1350



Stretch / Cling Film

Whole Plant Equipment



1-Layer Stretch / Cling Film Making Machine

WPE series



WPE - 45SE5

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

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



H2

Automatic cut & manual change reel winder



TE2

Automatic back-type cut & automatic change reel winder



T2

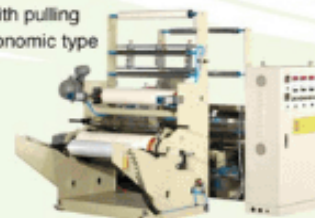
Automatic front-type cut & automatic change reel winder



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

