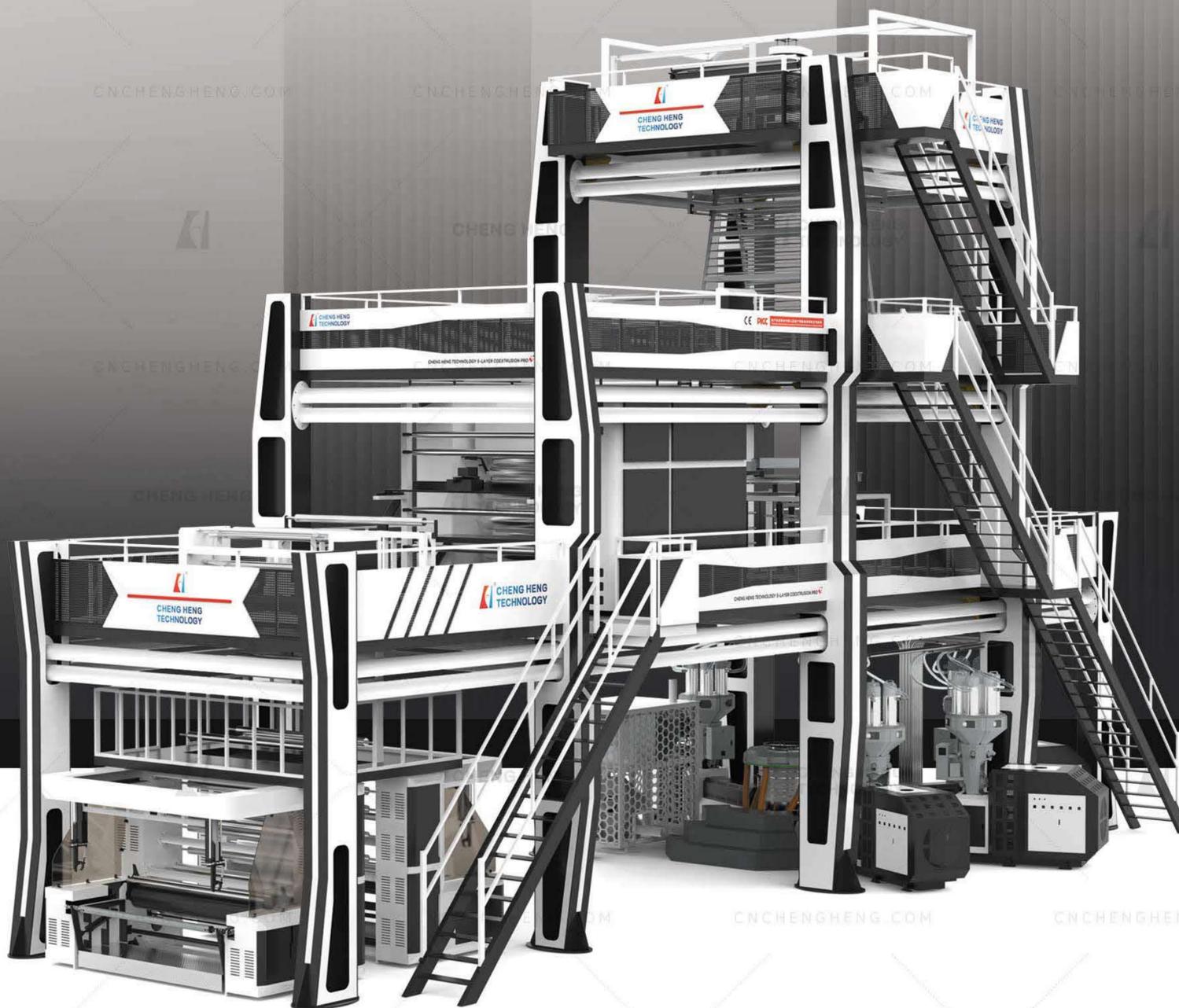




Strategic Partner—Germany Cloison
International Industrial Group



RESPONSIBLE FOR CUSTOMERS' TRUST
STRIVE TO INNOVATE FOR THE BENEFIT OF CUSTOMERS



WHY CHOOSE US?

Hebei Chengheng Plastic Machinery Technology Co., Ltd.

is located in Ningjin County, Hebei Province, one of China's plastic production and processing distribution centers. The transportation is very convenient. It only takes one hour by high-speed rail from Beijing and 2-3 hours by plane from Shanghai and Guangzhou. The company covers an area of **26,000m²**.

We have a modern intelligent operation workshop, specializing in the research, development, production and sales of biodegradable film blowing machines, ultra-high-speed intelligent film blowing machines, multi-layer co-extrusion intelligent film blowing machines and other plastic machinery. The company has a number of senior industry technical experts and after-sales service person to provide customers with high-quality one-stop services. According to the needs of customers, professional and technical experts can carry out overall supporting program planning, and are committed to providing customers with a complete set of perfect first-class equipment and technical services.

With its high-quality and professional service team, the company has won high praise from customers for its high-quality and competitive products and considerate services, so that the products are exported to Central Asia, South America, the Middle East, Southeast Asia, Africa and other countries.





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INTEGRATE WITH ADVANCED TECHNOLOGY



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*COMPANY REALITY



INTEGRATE WITH ADVANCED TECHNOLOGY



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CERTIFICATES



CE



ISO9001



SGS



BV



OUR COMPANY'S PRODUCT QUALITY IS INSURED BY CHINA PEOPLE'S PROPERTY INSURANCE COMPANY LIMITED



37 PATENT CERTIFICATE



NATIONAL HIGH-TECH ENTERPRISE



NATIONAL HIGH-TECH ENTERPRISE



SPECIALIZED AND SPECIAL NEW ENTERPRISES

CHENG HENG TECHNOLOGY

FOOTPRINT



15 YEARS OF EXPERIENCE



QUALITY PRIORITY



AFTER-SALES NETWORK COVERS THE WORLD

Let you have a strong technical force backing life free of charge to provide a variety of technical services and 24 hours all-weather after-sales service.
Customers' satisfaction is the constant pursuit of Chengheng man.



INTEGRATE WITH ADVANCED TECHNOLOGY



CHENG HENG

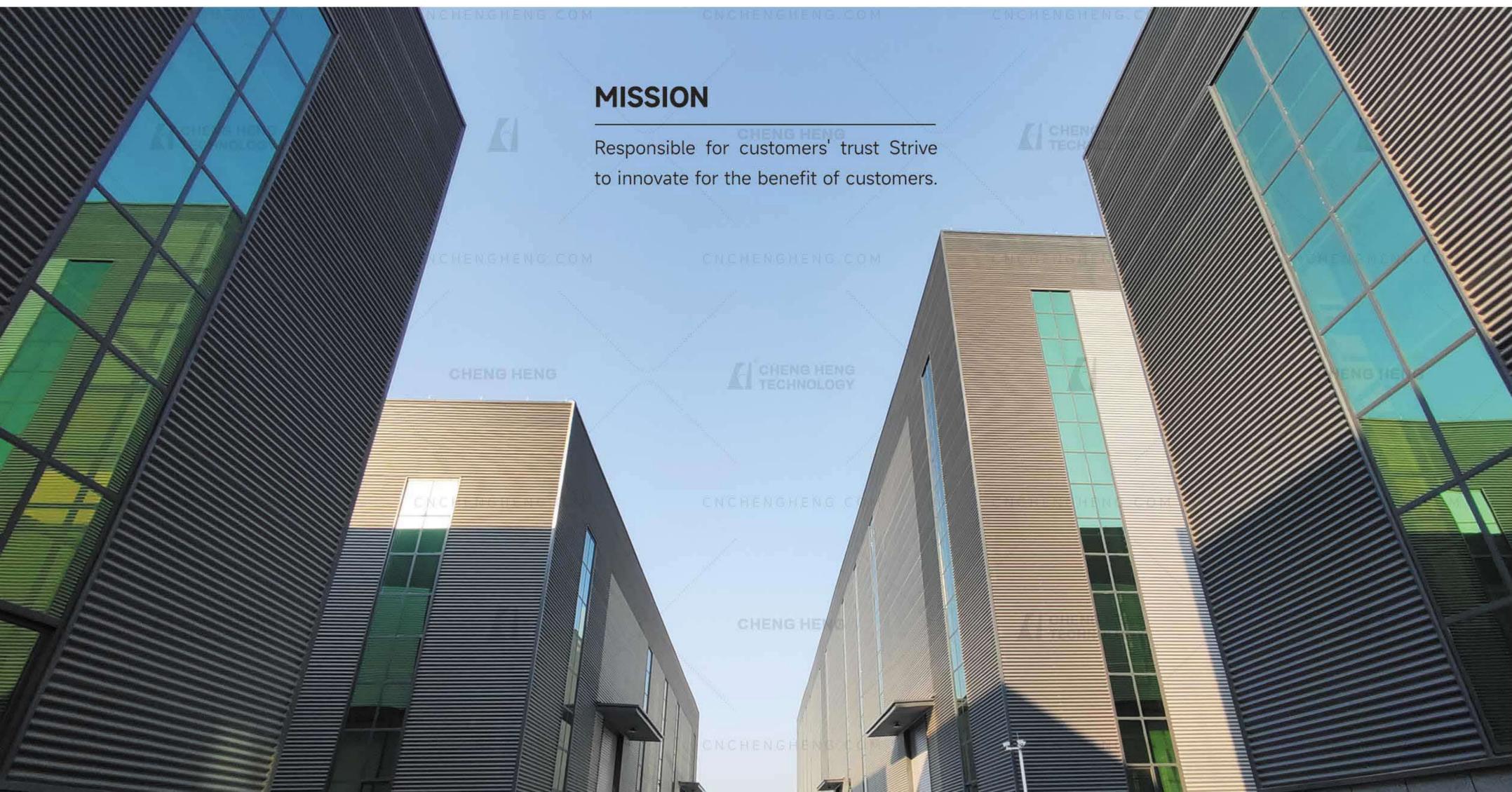


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COMPANY SCENERY



EXHIBITION



MISSION

Responsible for customers' trust Strive to innovate for the benefit of customers.

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FACTORY



FILMS APPLICATION



Recyclability is becoming one of the most important requirements for food packaging. Many current products use non-recyclable multi-material solutions. On the other hand mono-material PE-based packaging meets recyclability requirements and contributes to global sustainability goals.

In the future, full PE solutions will be a substitute for multi-material films. The recycle from Full PE laminate pouches can be used for valuable end products without any loss of efficiency.

Depending on the required barrier level, different film structures can be designed.

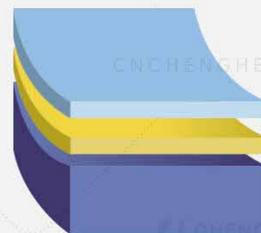
TYPICAL CONFIGURATION

- Blown film line: 5/7 Layer
- Thickness: 20-25 um
- Layflat: up to 3m with 2-3 lanes



BOPET / BOPP

- Adhesive Layer
- PE Sealing Layer



MDO PE LAYER

- Adhesive Layer
- PE Sealing Layer



■ **HYGIENIC BREATHABLE FILM**



■ **BABY DIAPERS**



■ **CLOTHING BAGS**

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■ HIGH BARRIER FILMS FOR FOOD PACKAGING

■ PET FOOD PACKAGING

■ HEAT SHRINKABLE FILM

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■ FILMS FOR FOOD CONTAINERS AND TRAYS

■ FILM FOR CEREALS

■ STRETCH FILM (STRETCH HOOD FILM)

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■ AIR PILLOW FILM

■ SHOPPING BAGS

■ FFS HEAVY DUTY BAGS

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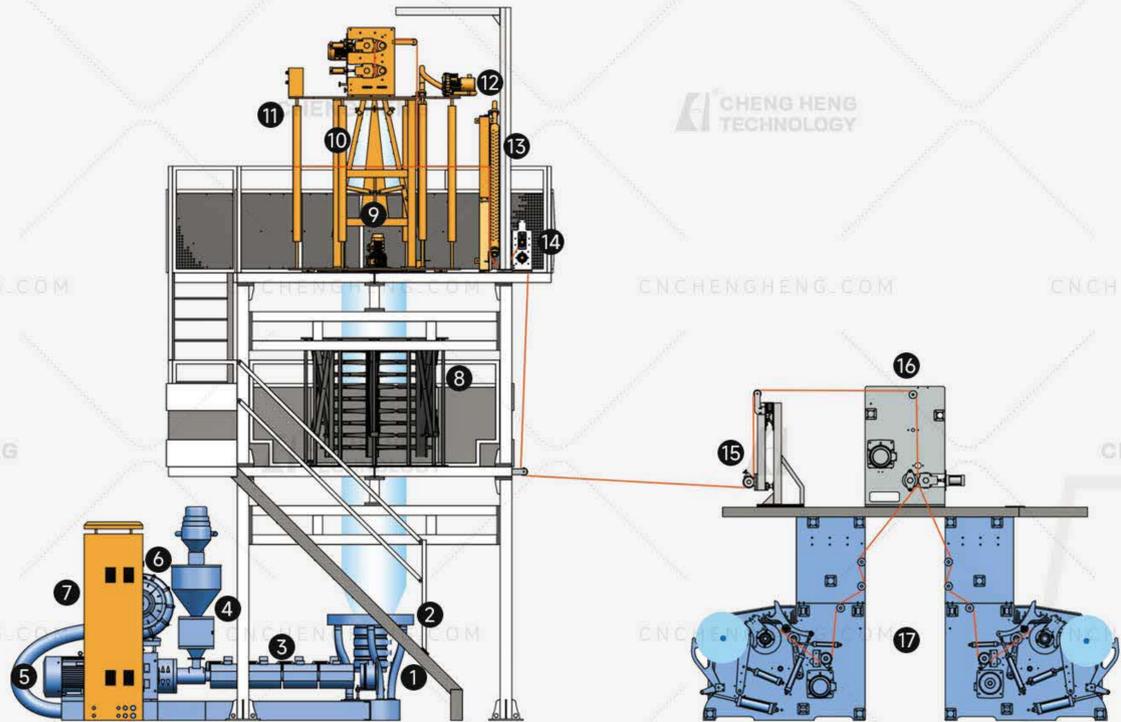
■ COURIER/EXPRESS BAG FILM

■ PROTECTIVE FILM

■ GARBAGE BAGS

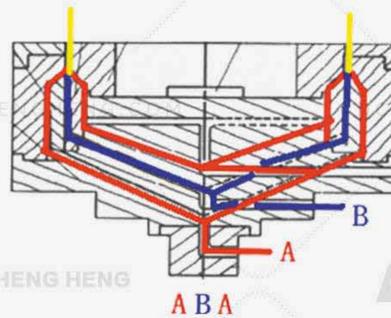
COMPONENT:

- 1. Die head
- 2. Air ring
- 3. Extruder
- 4. Mick control system
- 5. Main motor
- 6. Bellow
- 7. Electrical cabinet
- 8. Bubble stabilizing ring
- 9. Gusset equipment
- 10. Lambdoidal board
- 11. Vertical traction rotary
- 12. Air pump
- 13. Air shaft
- 14. Secondary traction device
- 15. EPC
- 16. Secondary traction device
- 17. Automatic double winders

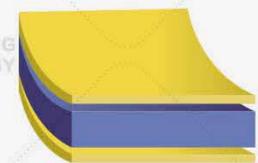


EXAMPLE 3-LAYER FILM

Layer Distribution	Raw materials	
Inner layer	10%	10% New
Middle layer	80%	80% Recycling+CaCO ₃
Outer layer	10%	10% New



Raw materials	
PE	
PE	
PE	



APPLICATION:





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ABA/AB



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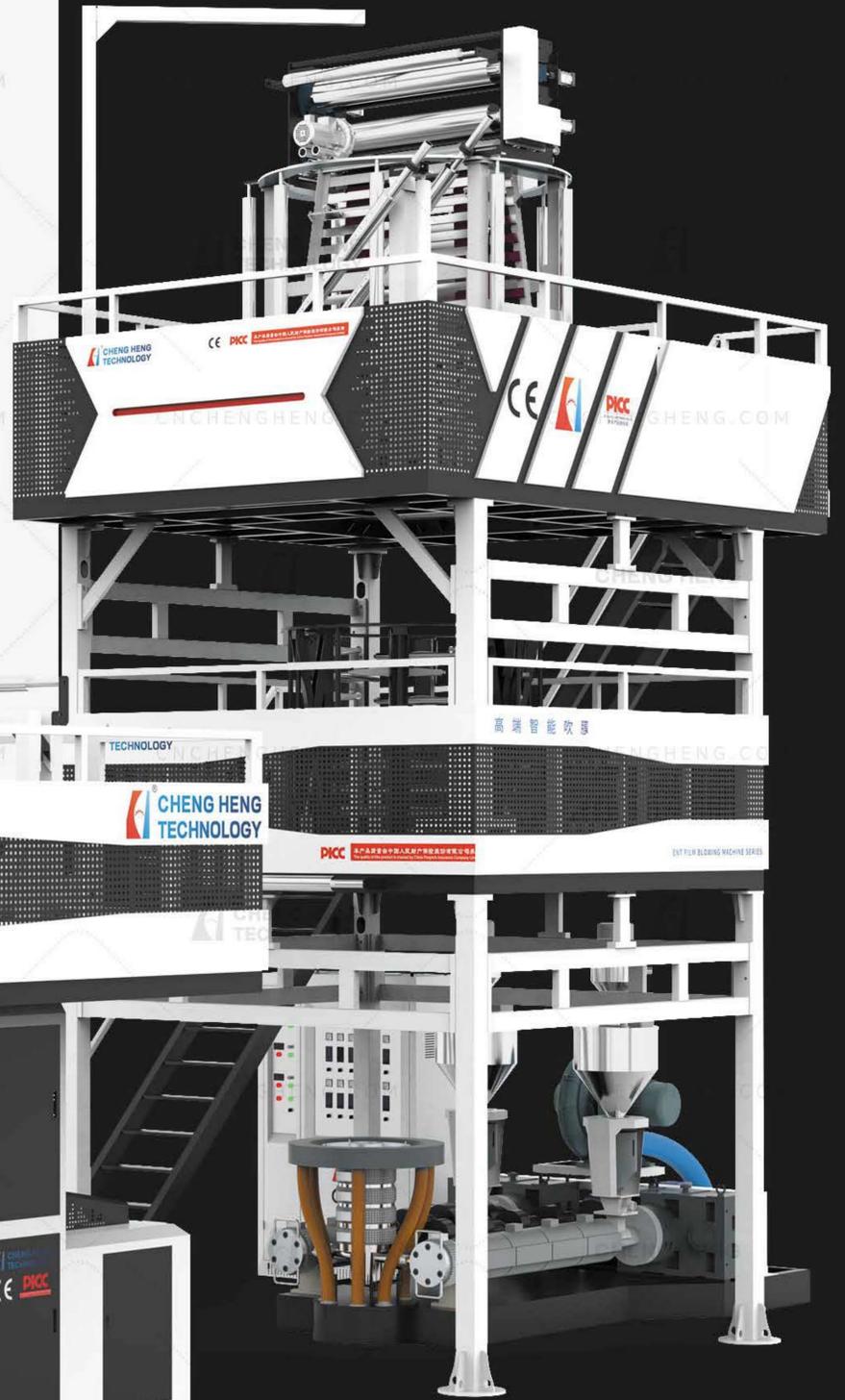


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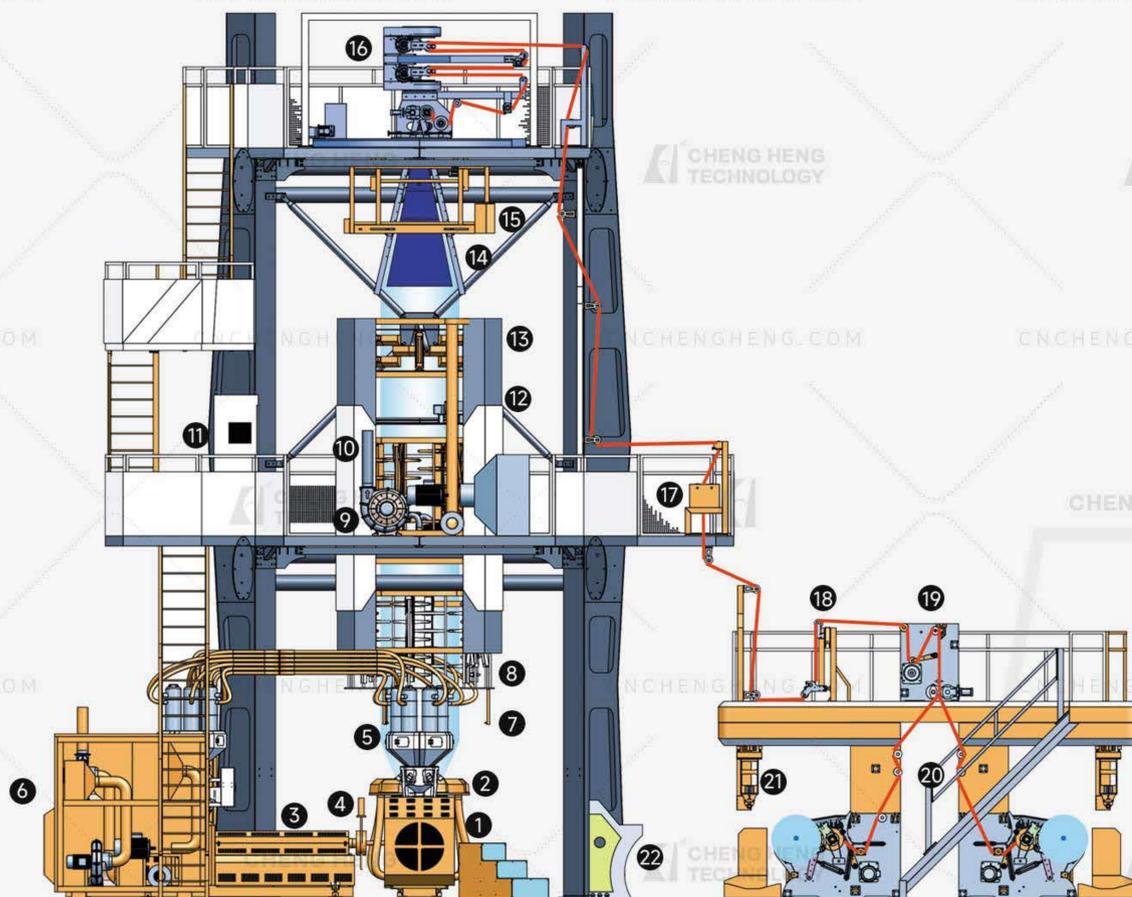
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ABA VERTICAL TRACTION ROTARY FILM BLOWING MACHINE



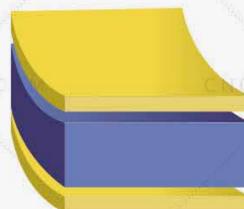
COMPONENT:

- 1. Die head
- 2. Air ring
- 3. Extruder
- 4. Hydraulic screen changer
- 5. Gravimetric dosing unit
- 6. IBC
- 7. IBC control detector
- 8. Lifting bubble stabilizing ring
- 9. Waste gas recovery device
- 10. Bubble stabilizing ring
- 11. Electrical cabinet
- 12. Automatic thickness control
- 13. Film cooling device
- 14. Electrical aluminum guide roller lambdoidal board
- 15. Electric gusset equipment
- 16. Horizontal rotary tower
- 17. Corona treatment
- 18. EPC
- 19. Secondary traction device
- 20. Automatic double winders
- 21. Unloading mechanical arm
- 22. Visualized whole machine control



EXAMPLE 3-LAYER FILM

Layer Distribution	Raw materials	
A	20%	80% LLDPE+20% LDPE
B	60%	80% LDPE+20% EPE
C	20%	80% LLDPE+20% LDPE



Raw materials	
	PE
	PE
	PE

APPLICATION:





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3-layer

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CHENG HENG TECHNOLOGY 3-LAYER COEXTRUSION PRO

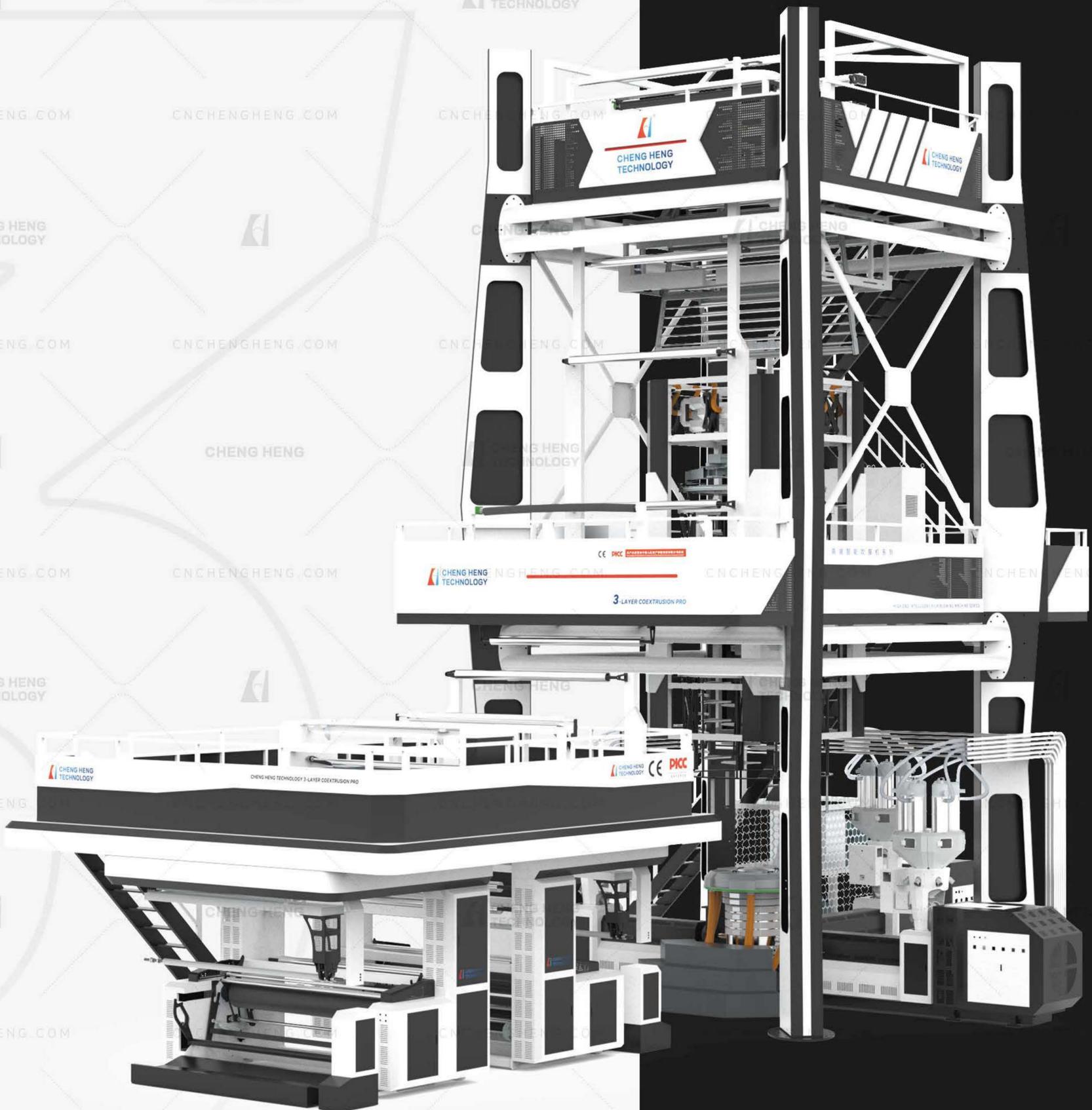


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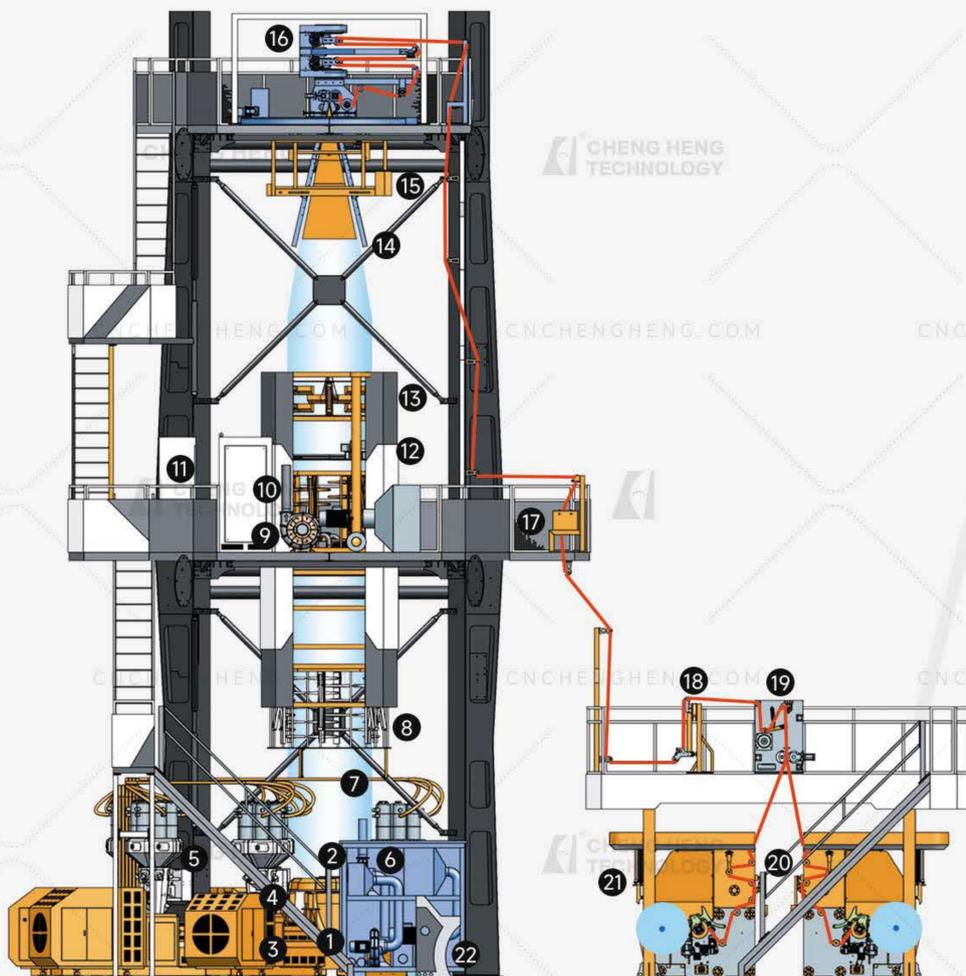
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CO-EXTRUSION PRO FILM BLOWING MACHINE



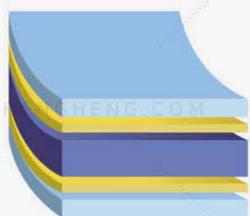
COMPONENT:

- 1. Die head
- 2. Air ring
- 3. Extruder
- 4. Hydraulic screen changer
- 5. Gravimetric dosing unit
- 6. IBC
- 7. IBC control detector
- 8. Lifting bubble stabilizing ring
- 9. Waste gas recovery device
- 10. Bubble stabilizing ring
- 11. Electrical cabinet
- 12. Automatic thickness control
- 13. Film cooling device
- 14. Electrical aluminum guide roller
lambdoidal board
- 15. Electric gusset equipment
- 16. Horizontal rotary tower
- 17. Corona treatment
- 18. EPC
- 19. Secondary traction device
- 20. Center gap winding system
- 21. Unloading mechanical arm
- 22. Visualized whole machine control

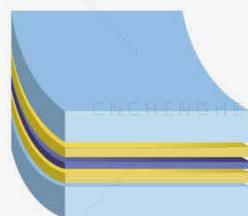


EXAMPLE 5-LAYER FILM

Layer Distribution		Raw materials
A	22%	80% mLLDPE+20% mPE
B	9%	100% mLLDPE
C	38%	100% LDPE
D	9%	100% mLLDPE
E	22%	80% mLLDPE+20% mPE



PE film



High barrier film

Raw materials
PE
TIE
PA / EVOH
TIE
PE

APPLICATION:





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5-layer



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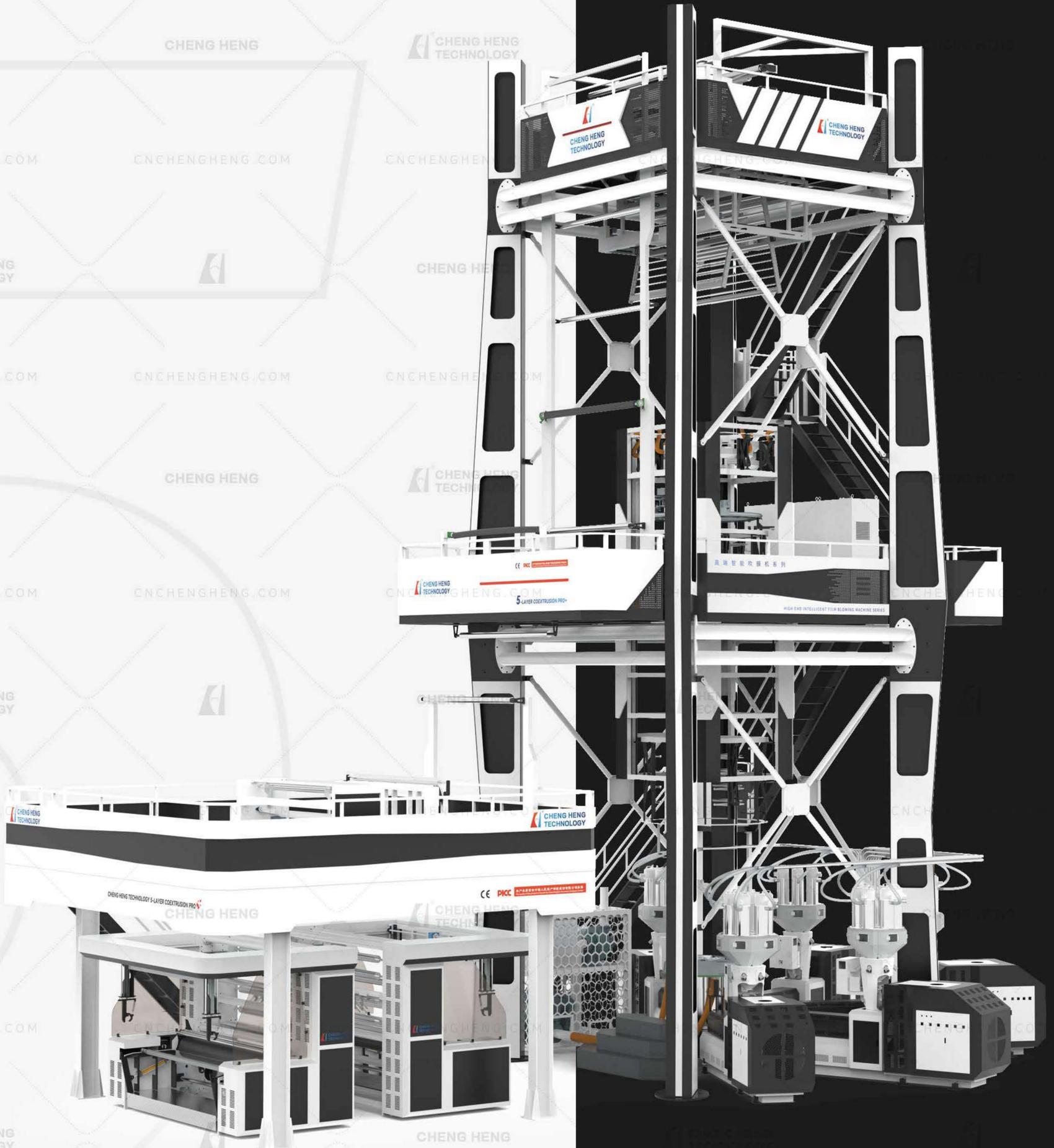
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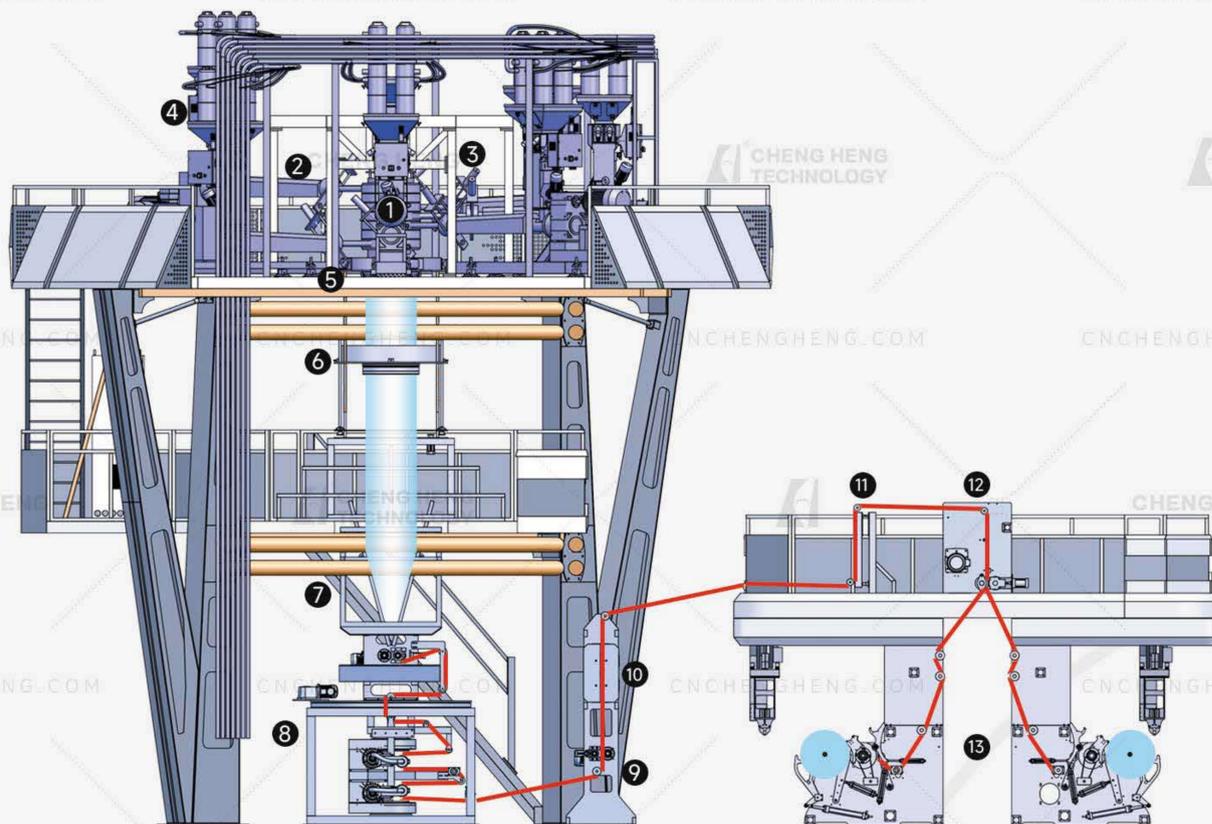
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CO-EXTRUSION PRO FILM BLOWING MACHINE

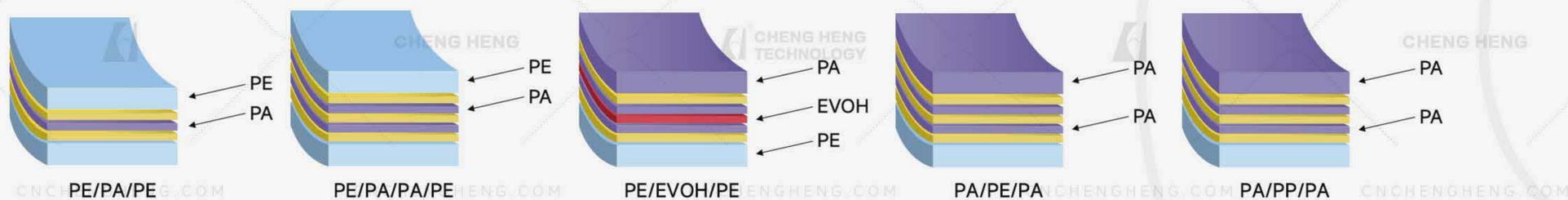


COMPONENT:

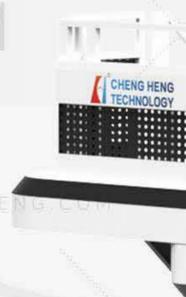
- 1. Die head
- 2. Extruder
- 3. Screen changer
- 4. Gravimetric dosing unit
- 5. Air ring
- 6. Water ring
- 7. Lambdoidal board
- 8. Lower rotation traction
- 9. Secondary traction device
- 10. Hot air drying
- 11. EPC
- 12. Secondary traction device
- 13. Automatic double winders



STRUCTURAL DIAGRAM



APPLICATION:





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5-9-layer

CO-EXTRUSION WATER-COOLED FILM BLOWING MACHINE



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7-layer co-extrusion water-cooled film blowing machine

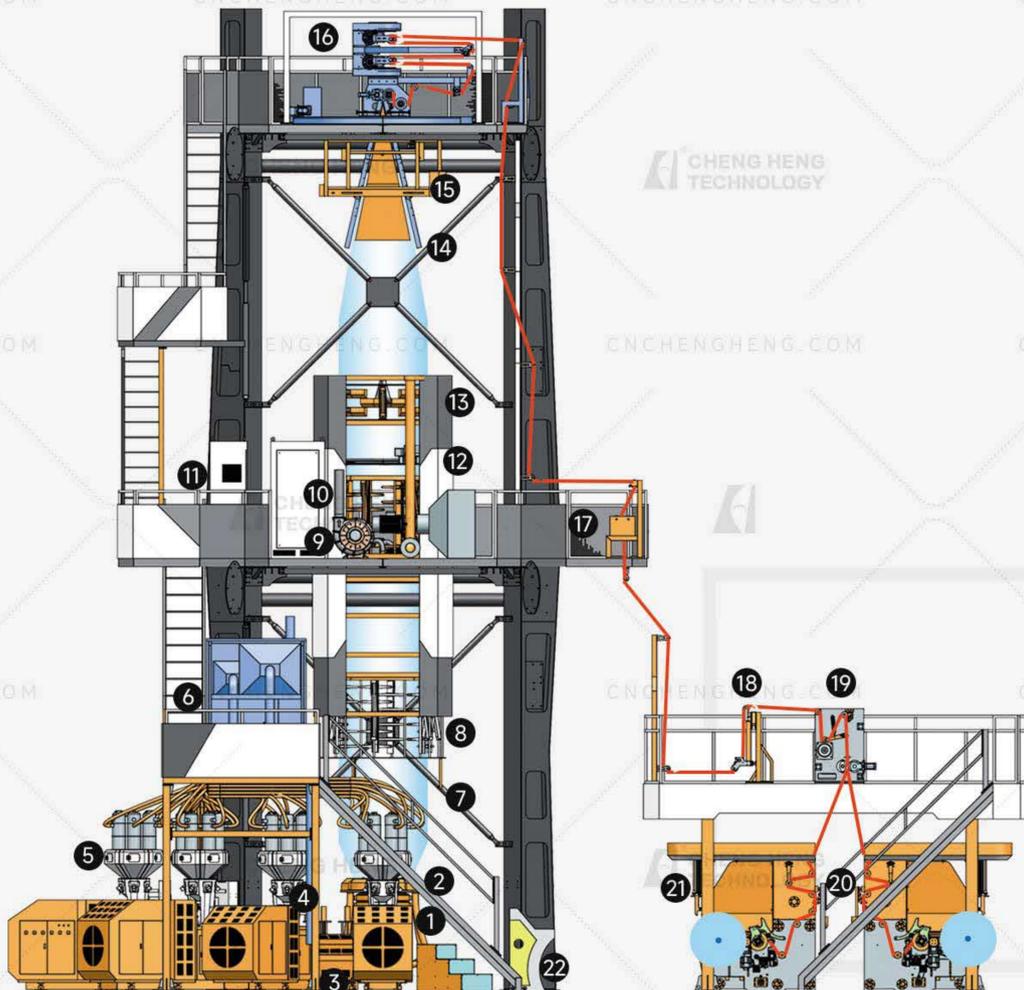
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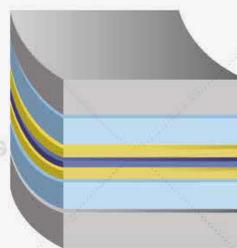
COMPONENT:

- 1. Die head
- 2. Air ring
- 3. Extruder
- 4. Hydraulic screen changer
- 5. Gravimetric dosing unit
- 6. IBC
- 7. IBC control detector
- 8. Lifting bubble stabilizing ring
- 9. Waste gas recovery device
- 10. Bubble stabilizing ring
- 11. Electrical cabinet
- 12. Automatic thickness control
- 13. Film cooling device
- 14. Electrical aluminum guide roller
lambdoidal board
- 15. Electric gusset equipment
- 16. Horizontal rotary tower
- 17. Corona treatment
- 18. EPC
- 19. Secondary traction device
- 20. Center gap winding system
- 21. Unloading mechanical arm
- 22. Visualized whole machine control



EXAMPLE 7-LAYER FILM

Layer Distribution	Raw materials	
A	26%	100%POP
B	19%	88%LDPE+12% blackMB
C	6%	100%Tie
D	4%	100%EVOH38%
E	6%	100%Tie
F	16%	80%LDPE+20% whiteMB
G	23%	80%LLPE+20% whiteMB



Raw materials
PE
TIE
PA
EVOH
PA
TIE
PE

APPLICATION:





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7-layer

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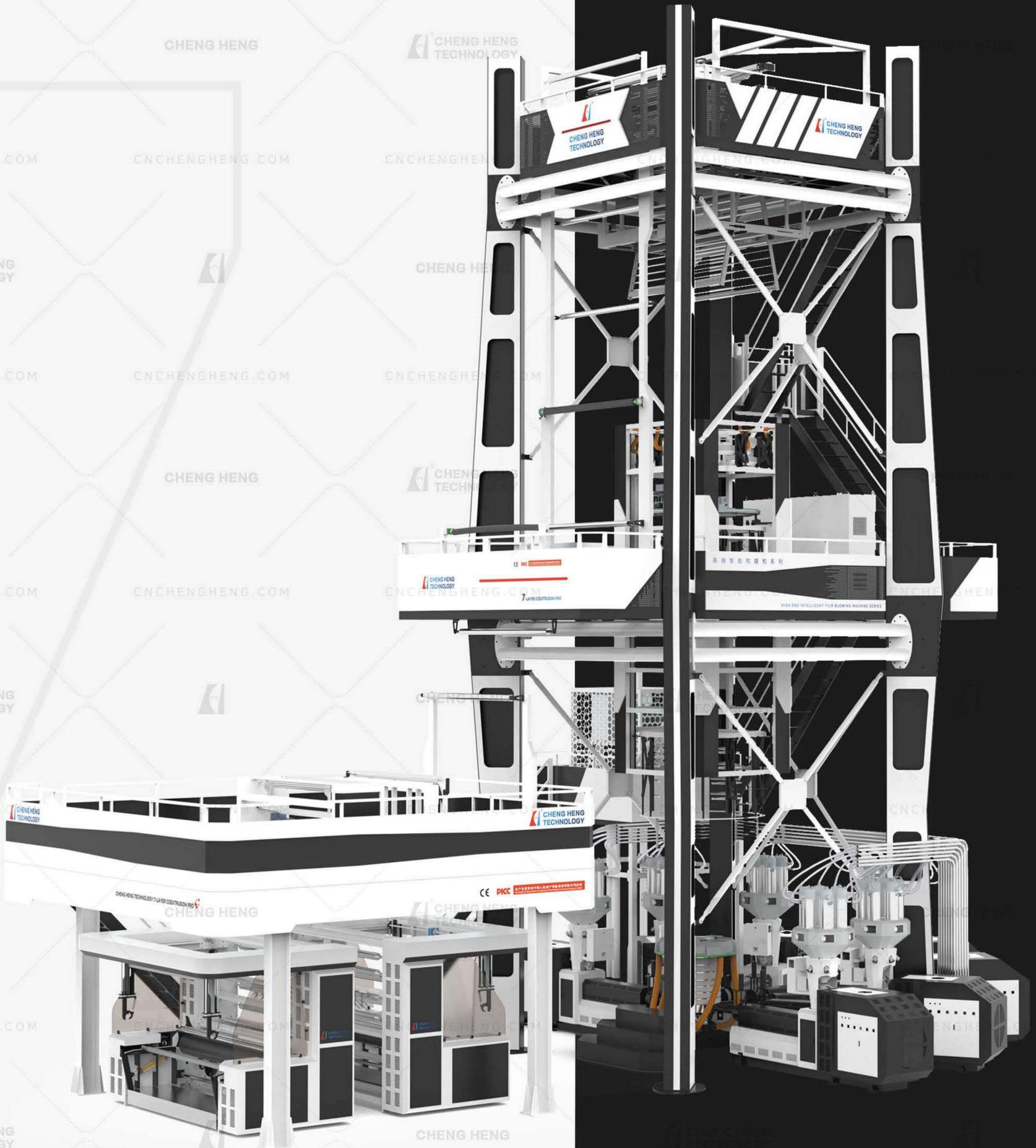
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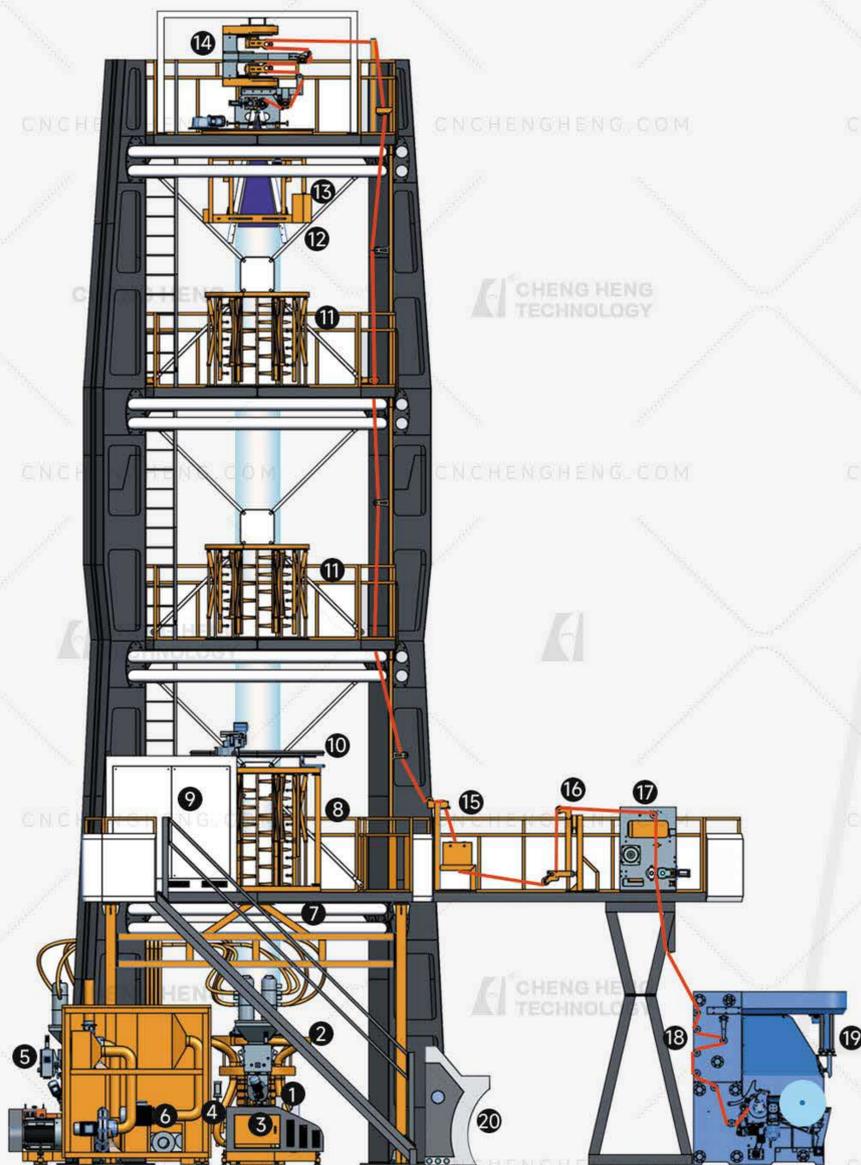
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CO-EXTRUSION PRO FILM BLOWING MACHINE

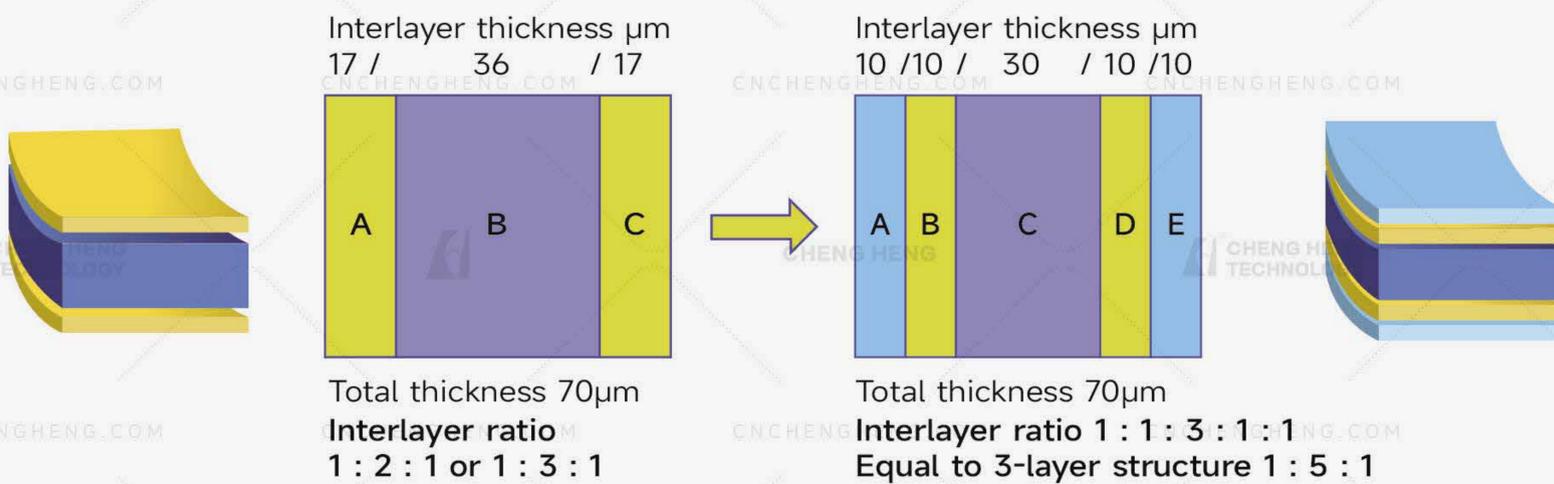


COMPONENT:

- 1. Die head
- 2. Air ring
- 3. Extruder
- 4. Hydraulic screen changer
- 5. Gravimetric dosing unit
- 6. IBC
- 7. IBC control detector
- 8. Lifting bubble stabilizing ring
- 9. Electrical cabinet
- 10. Automatic thickness control
- 11. Bubble stabilizing ring
- 12. Electrical aluminum guide roller
lambdoidal board
- 13. Electric gusset equipment
- 14. Horizontal rotary tower
- 15. Corona treatment
- 16. EPC
- 17. Secondary traction device
- 18. Center gap winding system
- 19. Unloading mechanical arm
- 20. Visualized whole machine control



EXAMPLE 3/5 LAYER FILM



APPLICATION:





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FFS



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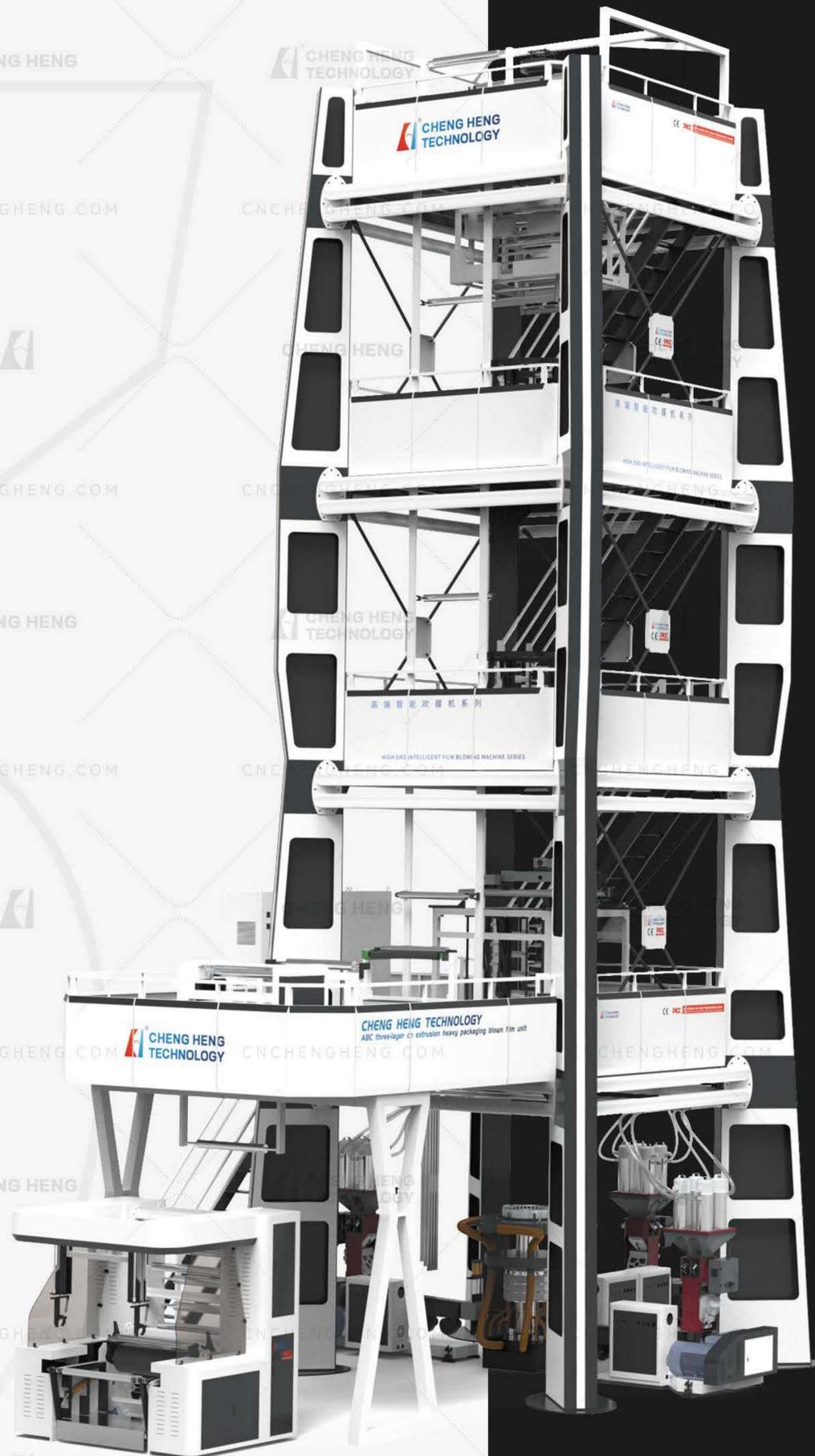


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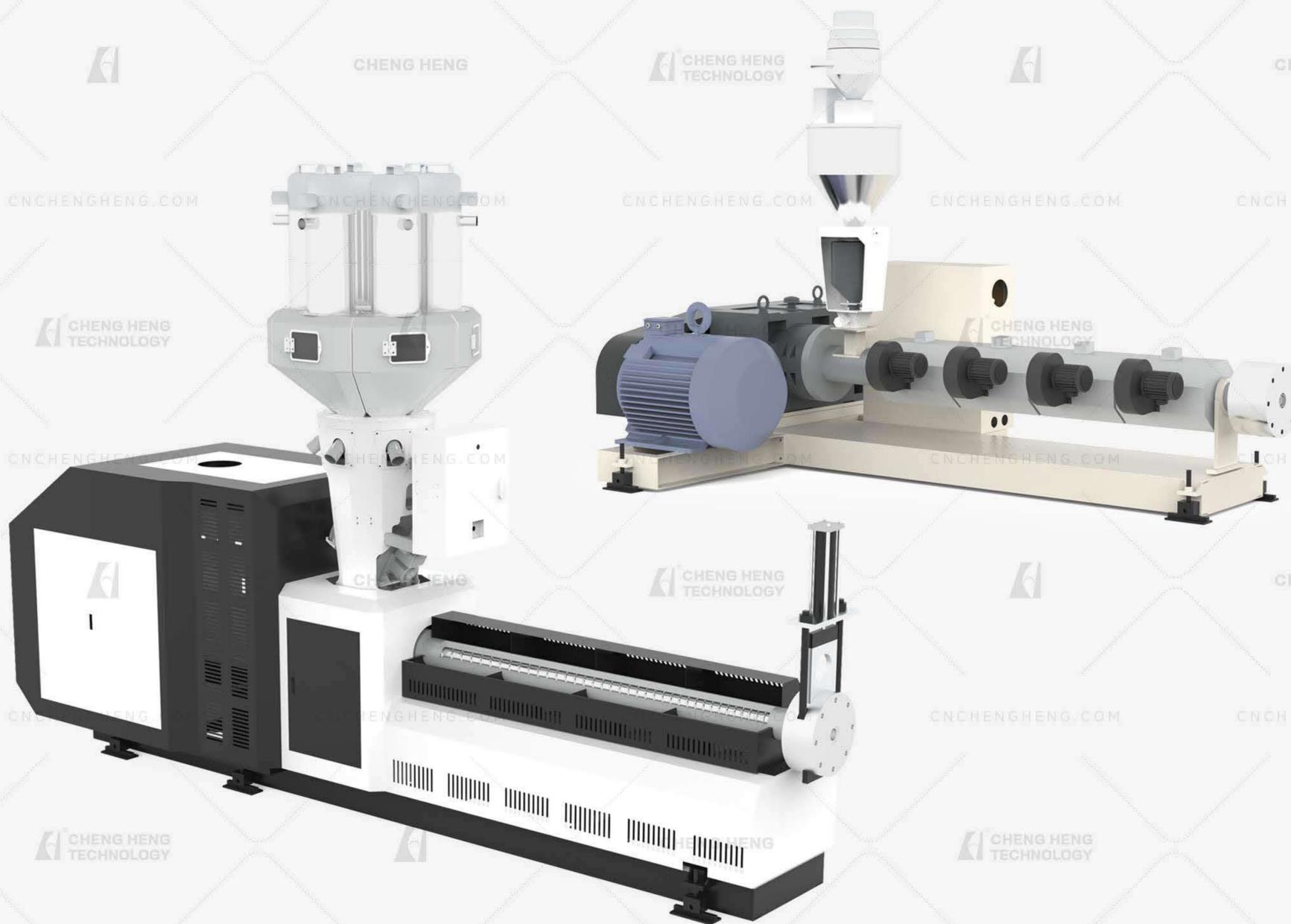
3/5 CO-EXTRUSION HEAVY PACKAGING FILM BLOWING MACHINE



FORCED FEED EXTRUDERS

This series screw equipped with grooved feeding bushing section. Adopt hardened steel or in hard metal and have conical longitudinal channels facing the transportation direction.

This series are optimum designed extruders that guarantee high flow capacity, proportional in respect of the screw speed, absence of pulsations, optimum homogeneity of the melt at low temperatures with maximum performance and the best quality of the raw material processed.



HIGH PERFORMANCE EXTRUDERS

High-performance extruders are particularly efficient and are available as a slotted or smooth feed model. This series includes 50, 55, 65, 75, 90, 100, 120 and 135 mm extruders, all available as single-layer or multi-layer extruders.

Model	50	55	65	75	90	100	120
Reducer	173	180	200	225	250	315	375
Main motor	18.5kw	30kw	37kw	45kw	55kw	90kw	132kw

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CHARACTERISTICS :

- Adopt permanent magnet synchronous motor
- Direct transmission with multi-speed gearboxes
- Constant torque over a wide speed range
- Reduced wear and, therefore, lower maintenance needs
- Silent and vibration-free operation
- Compact U-shaped (standard) or Z-shaped (special version) structure
- Easy access and assembly
- Engines also available with water cooling

**GRAVIMETRIC DOSING UNIT**

- Europe technology is stable and reliable
- The precision of the extrusion control is up to 0.3%
- Precise proportioning, accuracy 0.5%
- Reverse mixing, mix evenly
- Modular design, economic and efficient
- Energy saving and environmental protection, effectively saving raw materials

INDIVIDUAL FILTER CHANGER SYSTEM

We offers different screen changer systems for your specific application:



■ INDIVIDUAL FILTER CHANGER

■ FAST SCREEN CHANGER

■ AUTOMATIC BELT SCREEN CHANGER

■ HYDRAULIC SCREEN CHANGER



DIE-HEADS AND AIR COOLING RINGS

Our extrusion and co-extrusion die heads are designed to produce high quality films with precise reduced thickness variation and tight tolerances, without gel formation excellent homogeneous structures, quick fluidity of the material. For extrusion, they can be stationary or rotating. For co-extrusion, they are stationary, developed with high technology for 3,5,7,9 layers. Low pressure design heads, plus optional automatic thickness control system, improve film productivity with low thickness variation.

The cooling rings use advanced technology in the optimization of cooling of external bubble surface. We also supplies machines fitted with automatic air rings, with height adjustment system, allowing up to 50% output gain over conventional systems. These systems are integrated with automatic thickness control, allowing reduction of tolerances up to 50%.





Side Feed



Flat Tapered Stacking



Center Feed

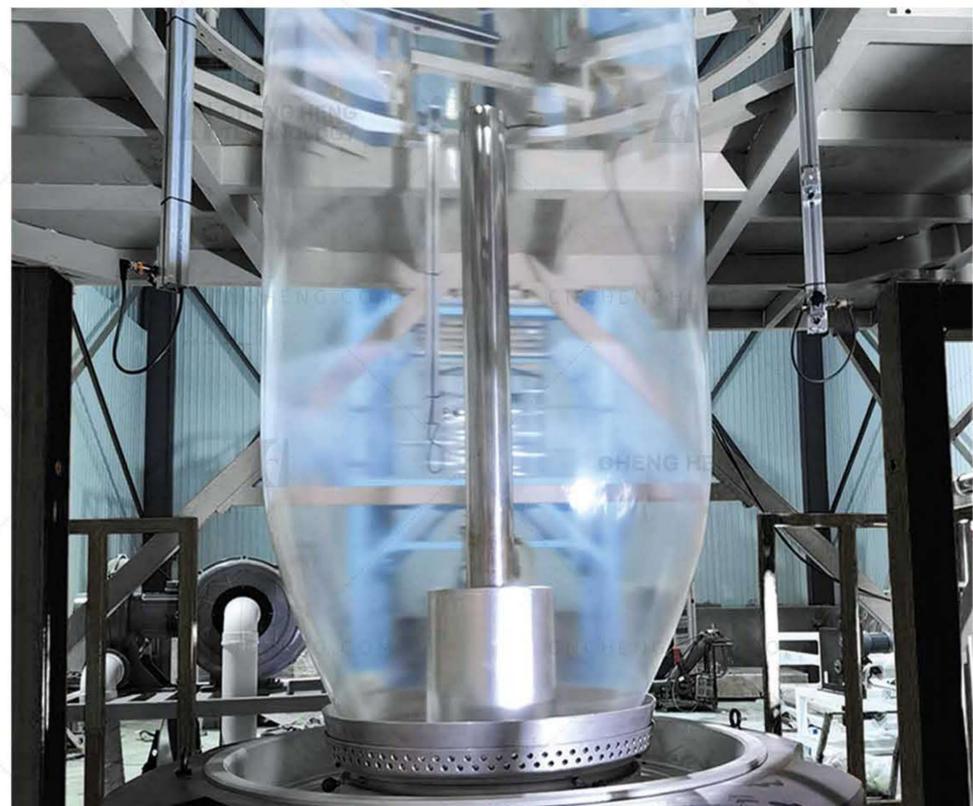


Flat Stacking

IBC SYSTEM

The internal bubble cooling systems IBC are constituted of:

- A series of sensors mounted on the calibration cage that control a valve utilized to keep the diameter of the bubble stable.
- Fans regulated by digital frequency converters for the intake and extraction of the air from the bubble.
- Calibrators positioned above the die head that distribute the air inside.
- This system could produce LDPE or HDPE film.
- It is guaranteed in the cooling of the film thereby increasing production and quality.



THICKNESSES

AUTOMATIC THICKNESS CONTROL SYSTEM

- The automatic thickness control for producing HDPE and LDPE bubble film permits a precise automatic point-point adjustment of the thickness.

- The system foresees the utilisation of a measuring device of the film thickness using a capacitive measuring head placed in contact with the film or in particular situations when it is not in contact.

- On the basis of the type of plant, the reading head can be positioned on a rotating unit or directly on the collapsing frame of the take-off unit.

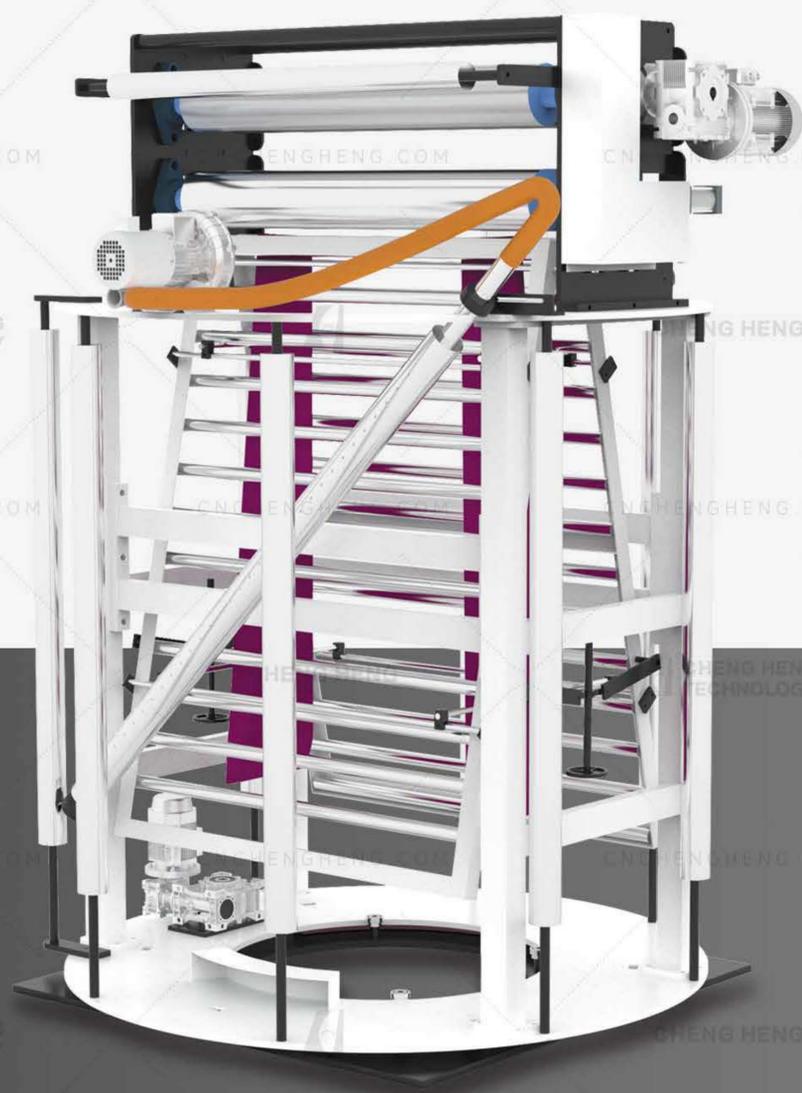


TRACTION ROTARY

Horizontal rotation and vertical rotation of the blown film machine is mainly to eliminate the uneven thickness of the film bubble caused by the film "ribs" phenomenon, so as to improve the quality of the film.

HORIZONTAL UP-TRACTION ROTARY

In this method, the primary haul-off rollers and herringbone nippers make a 180-degree round-trip rotation, the film runs in a radius. This type of rotation allows the blown film die to remain stationary at all times, eliminating the "ripple" phenomenon by changing the film's running path to evenly distribute the thickness of the film bubble.



VERTICAL TRACTION ROTARY

- Compared with rotary die head, the vertical traction device solve the oil leakage and granules leakage. To a certain extent, there will be no tendon bursting phenomenon.
- Vertical traction rotary makes up for the defect that the rotary mold cannot produce high density polyethylene, it not only could produce low density polyethylene plastic.

BUBBLE STABILIZING RING

Bubble stabilizing ring has the task of stabilising the bubble between the exit of the die head and the conveyor unit.

We offers an ample range of cages particularly suitable for all type of processing with a number of arms to 6 to 12 positioned at various levels, on the basis of the plant type and electrically controlled.

This device are available in fixed or height adjustable versions with electric control and guide rollers constituted of aluminum.



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LAMBDOIDAL BOARD



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Lambdoidal board is a clamp formed by two metal plates clamped together to hold a film tube in a zigzag shape.



Its angle has a critical impact on the quality of the blown film in terms of thickness, uniformity, and other aspects.



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VISUALIZATION OF THE PROCESS

This extrusion process visualization system allows you to control, recognize trends and completely document all product, process and operational data.

The film profile is measured, controlled and documented continuously online in the display system, which thus guarantees the minimum thickness profile of the blown film.

All processors are controlled by a PLC. They communicate with each other via the network. The most important processing and operating data are continuously monitored and visualized. The data is entered via the touch screen and shared through the network.



WINDING STATIONS



AUTOMATIC DOUBLE WINDER

Automatic double winder produces both single layer and two-layers film. Also could divide into two bodies for independent working according to the requirements of customer as well. For the different use of film, customers are available to equip with slitting device and side open device on this winder.

- Apply for various kinds of roll materials
- Install inverter to control tension of film
- Simple appearance and invisible circuit
- Suitable for various materials
- Automatic cutting, auto roll alternation, auto roll rewinding



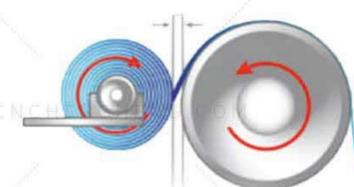
CONTACT WINDER

The simplest winding principle is usually used for mono-film made of HDPE Or LLPE/LDPE for simple bags or waste bags. The method is also particularly suitable for blunt films.



CENTRAL WINDER

The most universal winding system is suitable for both simple and complex film structures. In addition to the contact winder the film roll is driven in a controlled manner.



GAP WINDER

The gap winding is a special form of central winding. Typical applications strongly sticky films (e.g. high AVA content or ionomer on the outer layer), blunt or strongly shrinking films.



CENTER GAP WINDING SYSTEM

The center gap between the front and back surfaces is an integrated fully automatic micro-tension winding system. The gap winding is a special form of central winding.

Typical applications:

strongly sticky films (high AVA content or ionomer on the outer layer) blunt or strongly shrinking films.



DUAL-STATION FOUR-AXIS CENTER WINDING

The dual-station four-axis center winding adopts an advanced motor-driven lifting system, which combines the modular design concept of the positioning slider and cutting knife, as well as the exquisite and compact body structure design. The two winding stations are stacked one above the other to reduce the floor space.



ONLINE EDGE MATERIAL CYCLING MACHINE

The chopped film material is pre-compressed and fed directly to the extruder. This makes it possible to carry out highly economical and environmentally friendly zero-waste production.(all production waste is fed back in)

FEATURES:

- Automatic adjustment of the extruder speed to fluctuating edge trim amounts
- Start up and shut down by a single push button
- Clean, dust-free operation
- One-step technology-without additional intermediate steps

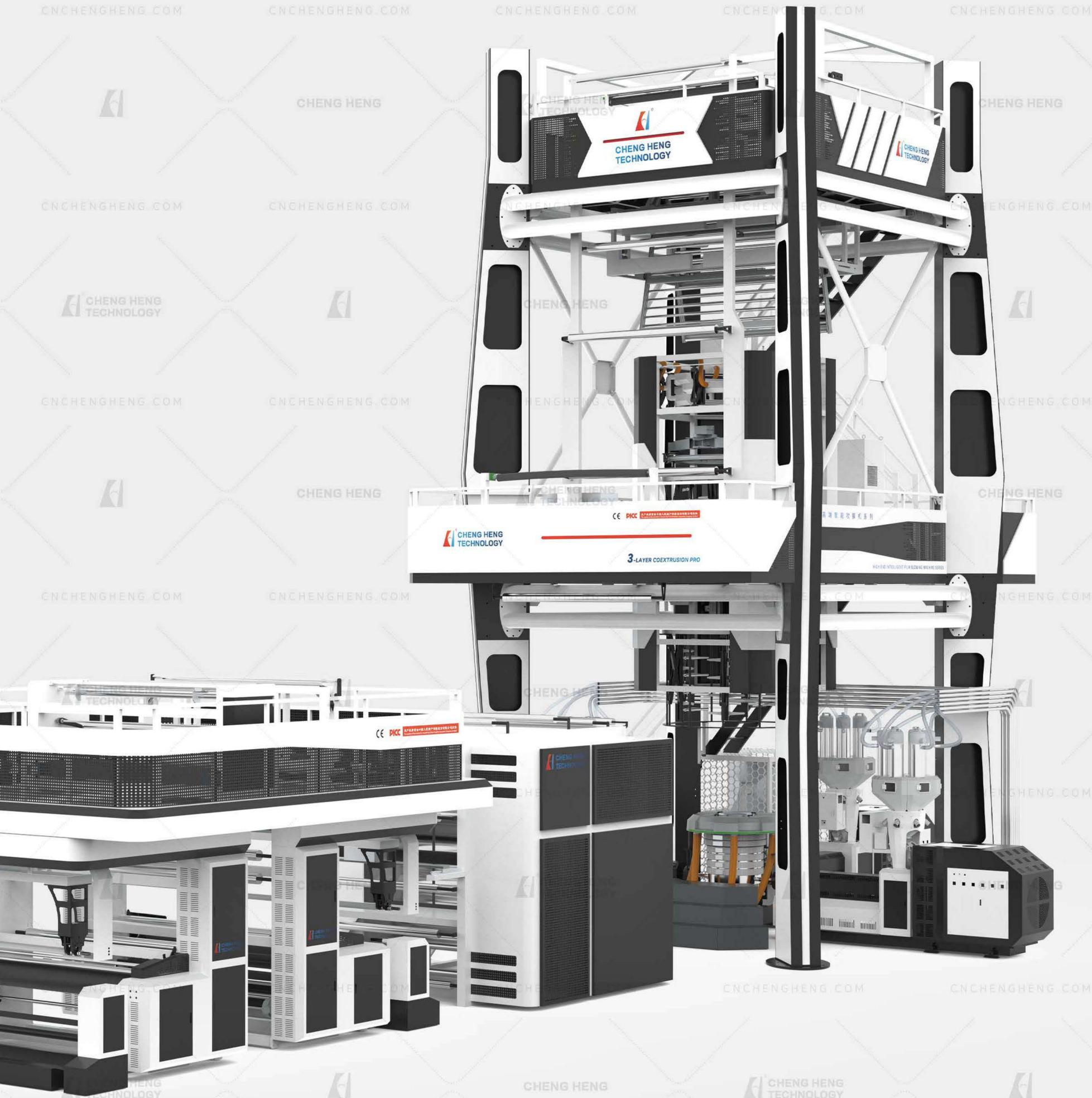


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SPECIALIZING IN THE PRODUCTION OF MULTI-LAYER
CO-EXTRUSION FILM BLOWING MACHINES SUCH AS
3-LAYER, 5-LAYER, 7-LAYER, 9-LAYER

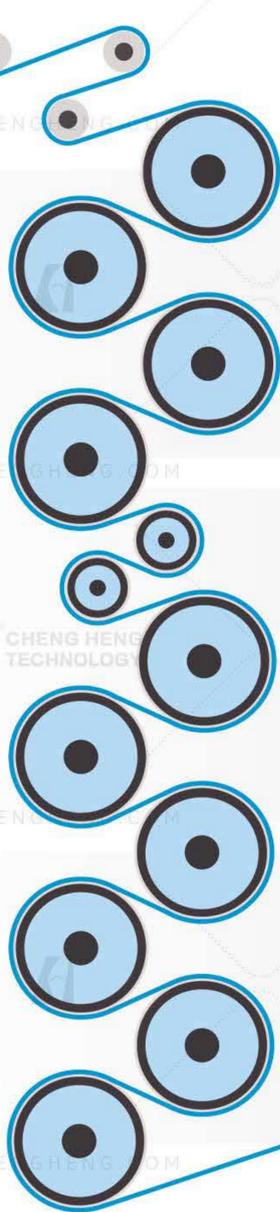


THE MDO PROCESS

The MDO film orientation process is divided into four phases:

HEATING → **STRETCHING** → **ANNEALING** → **COOLING**

Depending on the application, the MDO is based on an 8, 10 or 12 roller concept.



01

HEATING PHASE (2 or 4 Rollers)

The film is conveyed on heated rollers to obtain the required temperature

02

STRETCHING PHASE (2 Rollers)

The heated film is stretched between two rollers to obtain the required stretching ratio

03

ANNEALING PHASE (2 or 4 Rollers)

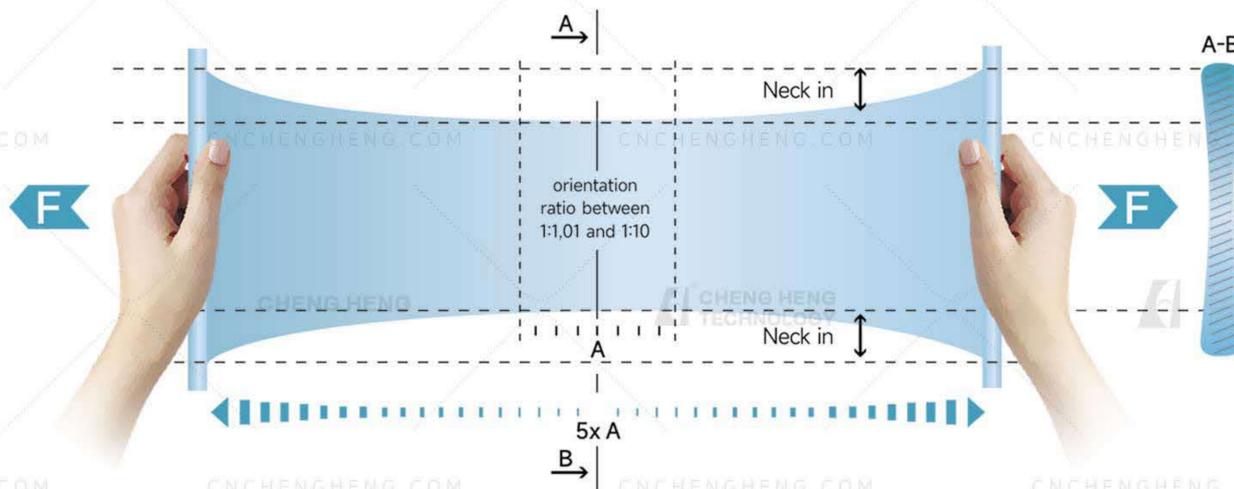
Annealing rolls reduce the stresses created during the orientation process

04

COOLING PHASE (2 or 4 Rollers)

The film cools down and compensates for thermal shrinkage

THE PHYSICS OF STRETCHING



In a monoaxial stretching line, the film is drawn between two rollers. The rollers rotate at different speeds. During the stretching process, the film thickness is reduced while optical and mechanical properties are improved.

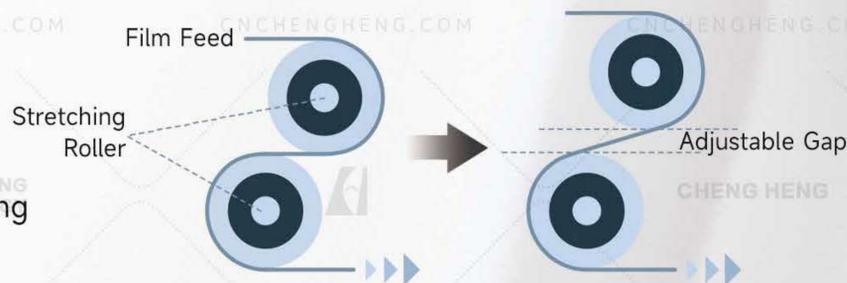
- Reduces the rawmaterial requirement
- Conserves resources
- Increases efficiency

OPTIMIZED FLATNESS AND TRIM REDUCTION

01 GAP ADJUSTMENT

For neck-in reduction.

With our MDO, the gap between the stretching rollers is adjustable.



02 Trim Reduction For Inline Orientation

For neck-in reduction and optimized flatness.

03 Optimized flatness for excellent processability

Vacuum technology optimizes the production of high-performance oriented films:

- Significantly improved flatness
- Neck-in reduction by up to 70%
- Hanging edges and bagginess are eliminated
- Perfectly prepared for lamination or printing

3 SOLUTIONS FOR INLINE PRODUCTION

We could offer three alternatives to run MDO films, The process mode is flexible and can be adapted to meet the film production requirements.



FLAT ROLL

- Layflat width up to 3.000 mm
- Multiple lanes possible
- Production of asymmetric structures
- Output up to 800 kg/h in production (for lamination film)



HALFTUBE

- Thin film thickness
- Good flatness
- Multiple lanes
- Low economics



TUBE

- High film thickness
- Good flatness
- Only symmetric film structures
- Very high machine speed with thin films

IMPROVE FILM PROPERTIES

Monoaxial film orientation lines allow the improvement of selected film properties to suit specific application:

- Optical properties
- Machinability
- Barrier properties
- Shrink properties
- Tearability
- Hardness

SAVE MATERIAL COSTS

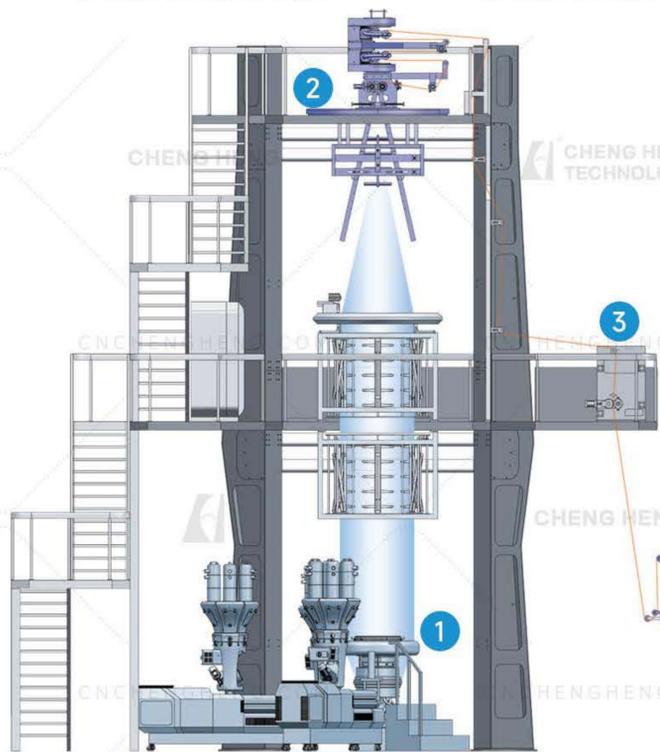
Produce packaging film with:

- Reduced thickness
- Reduced material loss
- With properties similar to non-oriented film



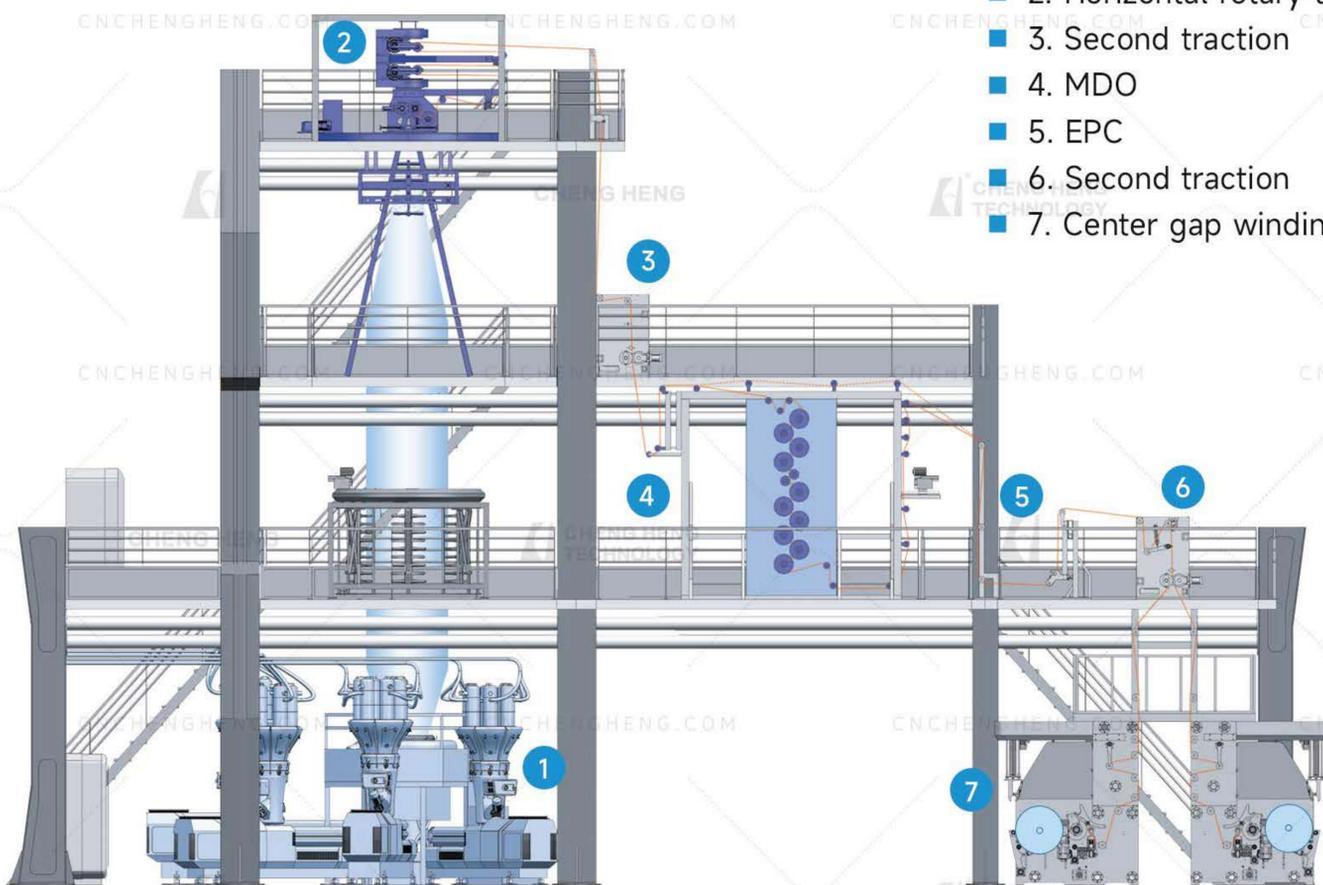
INSTALLATION OF MDO LINES

There are two installation ways about MDO :
first floor installation, ground floor installation.



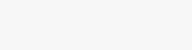
- 1. Extruder
- 2. Horizontal rotary tower
- 3. Second traction
- 4. MDO
- 5. EPC
- 6. Second traction
- 7. Center gap winding system

■ Ground floor installation



- 1. Extruder
- 2. Horizontal rotary tower
- 3. Second traction
- 4. MDO
- 5. EPC
- 6. Second traction
- 7. Center gap winding system

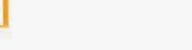
■ First floor installation



- **ABA/AB** / HORIZONTAL UP-TRACTION ROTARY

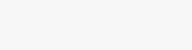


- Suitable for wide films larger than 1000mm. Such as industrial packaging , greenhouse film and so on.



- **ABC THREE LAYERS**

- Suitable for three layers co-extrusion wide films larger than 1000mm.



- **ABA/AB** / ROTARY DIE HEAD



- **FFS HEAVY DUTY**

- Suitable for heavy duty film (FFS).

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■ **ABA / VERTICAL TRACTION ROTARY**

- Suitable for HDPE, LDPE film width 200-1200mm. Compared common machine, the finished film thickness more even, winding more neat.

■ **ABA / VERTICAL TRACTION ROTARY**

- Suitable for HDPE, LDPE film width 200-1200mm. Compared common machine, the finished film thickness more even, winding more neat.



■ **DOUBLE COLOR**

- Suitable for 300-1000mm film, mainly used for double color bags and plastic tablecloths, etc.

■ **TWIN HEAD**

- Suitable for 200-400mm film width, compared mono layer machine, output is more high.



■ MONOLAYER

- This machine is suitable for the production of 150-1200mm film, T-shirt bags, vest bags, garbage bags and disposable plastic gloves.

■ MONOLAYER



■ ABA

- Suitable for the production of 150-1200mm film, garment bags, large garbage bags.

■ ABA/AB

PRODUCT REQUIREMENT

Material	
Maxmium Film width	
Machine layer	
Thickness	
Final product	
Motor	
Screw	
Gear box	
Output	
Vertical traction rotary	
Horizontal rotary	
IBC	
Automatic air ring and thickness system	
Winder	



INTEGRATE WITH ADVANCED TECHNOLOGY

ADVANTAGE



OUR ADVANTAGES

01

■ BRAND ADVANTAGE

International well-known brands,
good reputation, strength guarantee

02

■ QUALITY ADVANTAGE

High output, low energy consumption,
less material waste

03

■ SERVICE ADVANTAGE

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