

鸿友星机械®  
HONGYOUXINGMACHINE

  
高新技术企业

鸿友星机械®  
HONGYOUXINGMACHINE



PROFESSIONAL  
MANUFACTURER OF  
THERMOFORMING  
MACHINE  
热成型设备专业制造厂商

Shanghai Yiyou Electromechanical Equipment Co., Ltd.  
Hongyouxing Machinery (Suzhou) Co., Ltd.

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Official website



WeCom

上海怡友机电设备有限公司  
SHANGHAI YIYOU ELECTROMECHANICAL EQUIPMENT CO.,LTD.

鸿友星机械(苏州)有限公司  
HONGYOUXING MACHINERY (SUZHOU) CO., LTD.



## About Hongyouxing Machine

Hongyouxing Machinery (Suzhou) Co., Ltd. is one of the earliest factories in China to develop positive and negative pressure integrated machines. The company is located in Fenhu Development Zone, Wujiang District, Suzhou, with developed transportation and beautiful scenery. It is adjacent to Jiaxing, Zhejiang in the south, Qingpu in Shanghai in the east, and only 45Km away from Shanghai Hongqiao International Airport!

The factory has developed positive and negative pressure forming, punching, cutting and stacking machines with independent intellectual property rights. So far, more than 500 models of various types have been produced. We also wholeheartedly train and recommend operators for customers, and provide one-stop service for molds and materials, so as to relieve customers from worries.

The company has a specialized import and export marketing company in Shanghai - Shanghai Yiyou Electromechanical Equipment Co., Ltd. From 2010 to the present, it has been exported to hundreds of countries and well-known foreign-funded enterprises around the world. There are long-term engineers stationed in Brazil, Mexico, Canada, Egypt, Vietnam, etc.!

### In 2022, The Company Was Rated As A High-tech Enterprise!

The Suzhou factory was established in June 2017 (it was previously established in Qingpu, Shanghai), with a workshop area of more than 5,000 square meters and more than 100 employees!

Employ more than ten years of experience in the assembly of thermoforming machines and technical backbones. It has its own programming and design engineers, constantly improving some shortcomings of the machine, and developing new models. The company has developed rapidly, and its products have spread all over Zhejiang, Jiangsu, Shanghai, Anhui, Hebei, Taiwan and other places, and are exported to the United States, Canada, Mexico, Ecuador, Brazil, Argentina, Vietnam, Malaysia, Thailand, Indonesia, Iran, Saudi Arabia, Iraq, Pakistan, Bangladesh, Egypt, Ethiopia, Nigeria, Cameroon and other countries.

## ► High Speed Automatic Thermoforming Machine + Horizontal Trimming Machine



Most of the electrical components of our machines adopt world-class famous brands



### Main Features

- This machine adopts the German BECKHOFF operating system, which has superior functions, stable system, easy operation, convenient maintenance and wide application.
- Intelligent automation integration, eccentric crank arm linkage mechanism, and the use of German NORD servo reducer, the fastest production speed can reach to 35 cycles/minute.
- The heating brick adopts the German ELSTEIN brand. The heating furnace is a three-stage upper and lower heating method, and is equipped with an intelligent temperature control system. Thick and thin materials can be easily produced.
- Designed for positive and negative pressure forming, it can also be independent for positive pressure or vacuum forming, it has servo stretching device, concave and convex molds can be used.
- This machine adopts international famous accessories brands such as SMC/MAC, ABB, HIWIN, FUJI, LG, NHK, SCHNEIDER. All servo motors for forming, punching, cutting, stacking, and film feeding are multi-turn absolute values, which ensures the stability of the system.
- A quick mold change mechanism is designed, which is quick and easy to install and change molds, which shortens the installation cycle.
- Advanced safety protection measures ensure the safety of personnel under high-speed operation of the equipment.



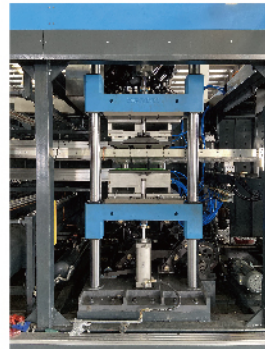
Beckhoff Operating System



Nord reducer



German ELSTEIN heating brick



Ductile iron mold table



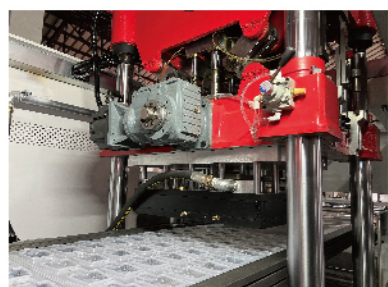
### Technical Parameters

High Speed Thermoforming Machine	
Model	FRAND-85A
Suitable Materia	PET,CPET,PP,PS,PVC,ABS,PLA,CPLA,etc.
Material Width	460-890mm
Thickness of Material	0.15-2.5mm
Max. Forming Area	850×650mm
Forming Depth	Max. 150 mm
Forming and Cutting Station Stroke	Max. 225mm
Heating Furnace Power	Three-stage heating is normal about 65 kw
Air Consumption	6.0kg/cm 500-1000L/minute
Power Supply	380V/50HZ/3Phases
Production Speed	Max. 35 cycles/minute
Installation Power	225KVA
Whole Machine Consumption	About 85kw/h
Machine Dimensions	L8000×W4550×H3500mm
Machine Weight	10,000kg
High Speed Horizontal Trimming Machine	
Device Dimensions	L×W×H: 4165×3835×3880mm
Equipment weight	7.5T
Total equipment power	18KW
Production speed	120 times/minute
Passable sheet width	1000mm
Available sheet width	900mm
Punching force tonnage	60T
Maximum height of punched product	150mm

## ► HYX-7185 Fully Automatic Positive And Negative Pressure 4 Stations Thermoforming Machine



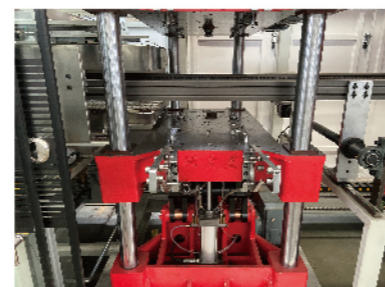
### Advantages Of The Machine



Servo Motor Stretching



Intelligent Temperature Control



Quick Mold Change

### Main Features

- The machine has the four-station automatic function of heating- forming- punching- cutting- stacking and counting, and can adapt to PLA, PS, PET, PP, PVS, ABS and other materials.
- The machine is widely used and has strong versatility. The speed of positive and negative pressure molding machine is fast, and the maximum speed can reach 2 seconds per mold.
- Servo stretching is suitable for products with a product height of more than 50mm, which can effectively avoid the problem of thin wall after material stretching.
- Equipped with an intelligent temperature control system, the temperature rises quickly and the power consumption is low. Compared with the traditional temperature control system, the power saving is at least 10%.
- Quick mold change, change the mold from the front of the machine, saving time and effort.

### Technical Parameters

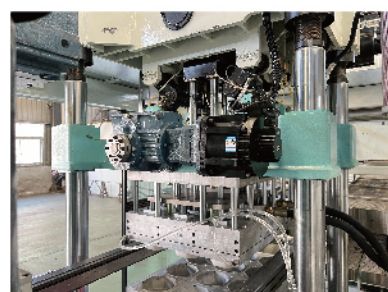
HYX-7185 Fully Automatic Positive And Negative Pressure 4 Stations Thermoforming Machine	
Model	HYX-7185-4
Suitable Material	PP,PS,PET,CPET,PVC,ABS,PLA,CPLA,etc.
Material Width	450-750mm
Thickness of Material	0.15-2.5mm
Max. Forming Area	710×850mm
Min. Forming Area	420×300mm
Max. Cutting Area	690×830mm
Forming and Cutting Station Stroke	0-160mm
Positive Forming Depth	140mm
Negative Forming Depth	150mm
Stacking Mechanism Stroke	≤500mm
Maximum Cutting Force of Cutting Station	80T ( (for use with die heating system )
Rated Power of Whole Machine	160KW
Rated Power of Heating Furnace	Upper Oven:72KW Lower Oven:72KW
Heating Method	Upper and lower, 3 sections heating
Actual Energy Consumption	About 40~60KW/H
Power Supply	AC 380V/50Hz (3+N+PE)
Max. Production Speed	20-30 cycles/minute
Max. Roll Diameter/Weight	Φ800mm/800KG
Machine Weight	22T
Dimension (L*W*H)	14m×2.3m×2.5m
Cooling Method	The mold is cooled by circulating water
Air Request	Air supply ≥3.5m <sup>3</sup> /min, air pressure 0.6~0.8Mpa



## ► HYX-7185 Fully Automatic Positive And Negative Pressure 3 Stations Thermoforming Machine



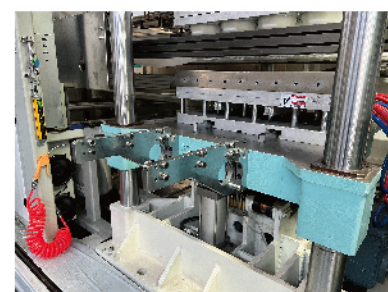
### Advantages Of The Machine



Servo Motor Stretching



Intelligent Temperature Control



Quick Mold Change

### Main Features

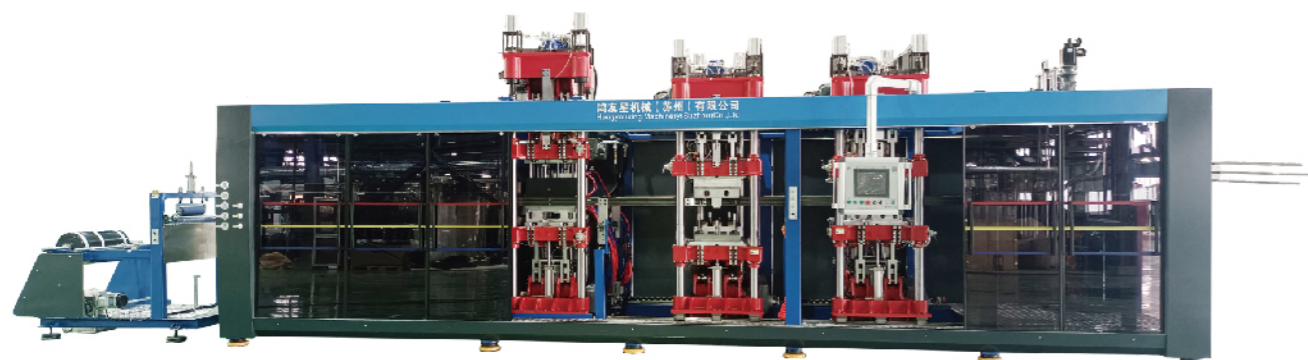
- The machine has a three-station automatic function of heating-forming-cutting-stacking and counting, and can adapt to PLA, PS, PET, PP, PVS, ABS and other materials.
- The machine is widely used and has strong versatility. The speed of positive and negative pressure molding machine is fast, and the maximum speed can reach 2 seconds per mold.
- Servo stretching is suitable for products with a product height of more than 50mm, which can effectively avoid the problem of thin wall after material stretching.
- Equipped with an intelligent temperature control system, the temperature rises quickly and the power consumption is low. Compared with the traditional temperature control system, the power saving is at least 10%.
- Quick mold change, change the mold from the front of the machine, saving time and effort.

### Technical Parameters

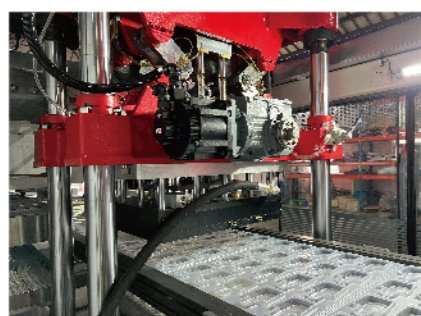
HYX-7185 Fully Automatic Positive And Negative Pressure 3 Stations Thermoforming Machine	
Model	HYX-7185-3
Suitable Material	PP,PS,PET,CPET,PVC,ABS,PLA,CPLA,etc.
Material Width	450-750mm
Thickness of Material	0.15-2.5mm
Max. Forming Area	710×850mm
Min. Forming Area	420×300mm
Max. Cutting Area	690×830mm
Forming and Cutting Station Stroke	0-160mm
Positive Forming Depth	140mm
Negative Forming Depth	150mm
Stacking Mechanism Stroke	≤500mm
Maximum Cutting Force of Cutting Station	80T (for use with die heating system)
Rated Power of Whole Machine	150KW
Rated Power of Heating Furnace	Upper Oven: 72KW Lower Oven: 72KW
Heating Method	Upper and lower, 3 sections heating
Actual Energy Consumption	About 40~60KW/H
Power Supply	AC 380V/50Hz (3+N+PE)
Max. Production Speed	20-30 cycles/minute
Max. Roll Diameter/Weight	Φ800mm/800KG
Machine Weight	15T
Dimension (L*W*H)	11m×2.3m×2.5m
Cooling Method	The mold is cooled by circulating water
Air Request	Air supply ≥ 3.5m <sup>3</sup> /min, air pressure 0.6~0.8Mpa



## ► HYX-7161 Fully Automatic Positive And Negative Pressure 4 Stations Thermoforming Machine



### Advantages Of The Machine



Servo Motor Stretching



Intelligent Temperature Control



Quick Mold Change

### Main Features

- The machine has the four-station automatic function of heating- forming- punching- cutting- stacking and counting, and can adapt to PLA, PS, PET, PP, PVS, ABS and other materials.
- The machine is widely used and has strong versatility. The speed of positive and negative pressure molding machine is fast, and the maximum speed can reach 2 seconds per mold.
- Servo stretching is suitable for products with a product height of more than 50mm, which can effectively avoid the problem of thin wall after material stretching.
- Equipped with an intelligent temperature control system, the temperature rises quickly and the power consumption is low. Compared with the traditional temperature control system, the power saving is at least 10%.
- Quick mold change, change the mold from the front of the machine, saving time and effort.

### Technical Parameters

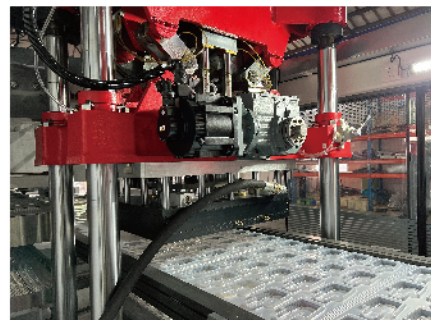
HYX-7161 Fully Automatic Positive And Negative Pressure 4 Stations Thermoforming Machine	
Model	HYX-7161-4
Suitable Material	PP,PS,PET,CPET,PVC,ABS,PLA,CPLA,etc.
Material Width	450-750mm
Thickness of Material	0.15-2.5mm
Max. Forming Area	710×610mm
Min. Forming Area	420×300mm
Max. Cutting Area	690×590mm
Forming and Cutting Station Stroke	0-150mm
Positive Forming Depth	140mm
Negative Forming Depth	150mm
Stacking Mechanism Stroke	≤500mm
Maximum Cutting Force of Cutting Station	60T (for use with die heating system)
Rated Power of Whole Machine	110KW
Rated Power of Heating Furnace	Upper oven: 50.4KW Lower oven: 50.4KW
Heating Method	Upper and lower, 3 sections heating
Actual Energy Consumption	About 30~50KW/H
Power Supply	AC 380V/50Hz (3+N+PE)
Max. Production Speed	20-30 cycles/minute
Max. Roll Diameter/Weight	Φ800mm/800KG
Machine Weight	18T
Dimension (L*W*H)	13m×2.3m×2.5m
Cooling Method	The mold is cooled by circulating water
Air Request	Air supply ≥3.5m <sup>3</sup> /min, air pressure 0.6~0.8Mpa



## ► HYX-7161 Fully Automatic Positive And Negative Pressure 3 Stations Thermoforming Machine



### Advantages Of The Machine



Servo Motor Stretching



Intelligent Temperature Control



Quick Mold Change

### Main Features

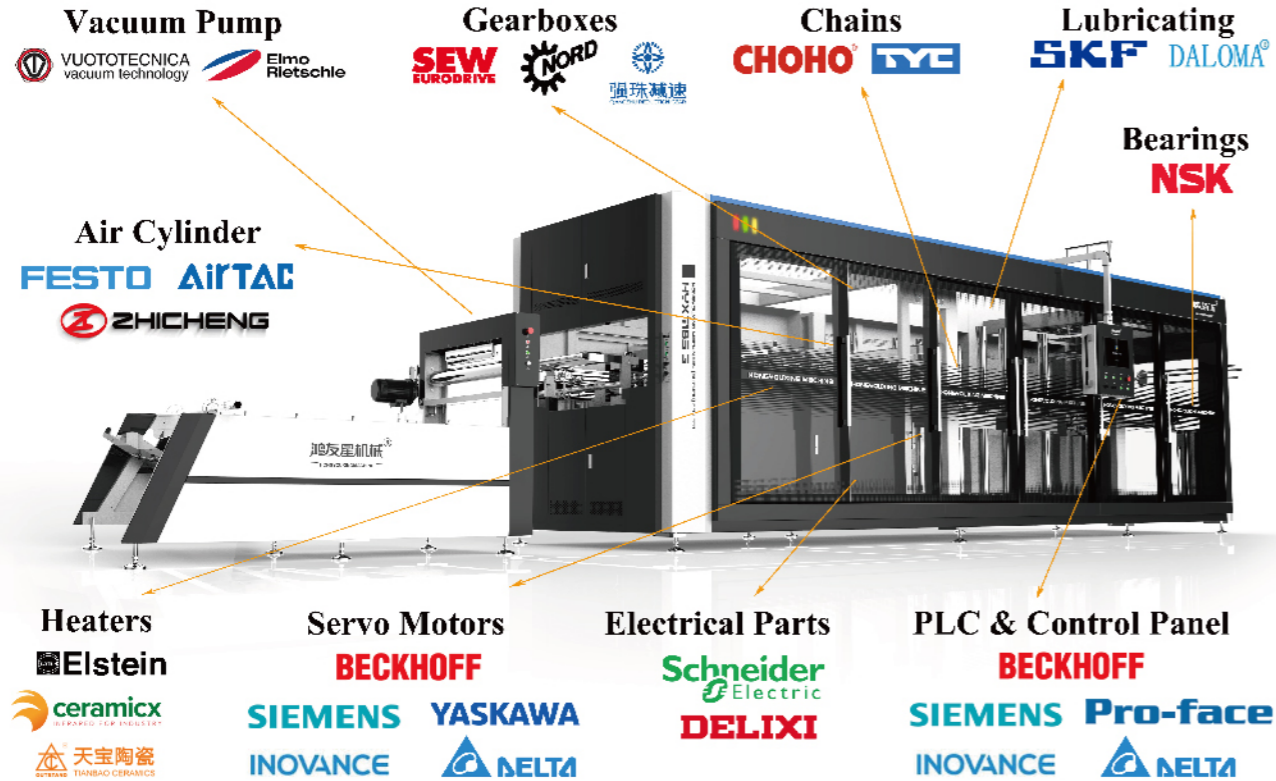
- The machine has a three-station automatic function of heating-forming-cutting-stacking and counting, and can adapt to PLA, PS, PET, PP, PVS, ABS and other materials.
- The machine is widely used and has strong versatility. The speed of positive and negative pressure molding machine is fast, and the maximum speed can reach 2 seconds per mold.
- Servo stretching is suitable for products with a product height of more than 50mm, which can effectively avoid the problem of thin wall after material stretching.
- Equipped with an intelligent temperature control system, the temperature rises quickly and the power consumption is low. Compared with the traditional temperature control system, the power saving is at least 10%.
- Quick mold change, change the mold from the front of the machine, saving time and effort.

### Technical Parameters

HYX-7161 Fully Automatic Positive And Negative Pressure 3 Stations Thermoforming Machine	
Model	HYX-7161-3
Suitable Material	PP,PS,PET,CPET,PVC,ABS,PLA,CPLA,etc.
Material Width	450-750mm
Thickness of Material	0.15-2.5mm
Max. Forming Area	710×610mm
Min. Forming Area	420×300mm
Max. Cutting Area	690×590mm
Forming and Cutting Station Stroke	0-150mm
Positive Forming Depth	140mm
Negative Forming Depth	150mm
Stacking Mechanism Stroke	≤500mm
Maximum Cutting Force of Cutting Station	60T (for use with die heating system)
Rated Power of Whole Machine	110KW
Rated Power of Heating Furnace	Upper oven :50.4KW Lower oven:50.4KW
Heating Method	3 sections heating
Actual Energy Consumption	About 30~50KW/H
Power Supply	AC 380V/50Hz (3+N+PE)
Max. Production Speed	20-30 cycles/minute
Max. Roll Diameter/Weight	Φ800mm/800KG
Machine Weight	12T
Dimension (L*W*H)	10m×2.3m×2.5m
Cooling Method	The mold is cooled by circulating water
Air Request	Air supply≥3.5m <sup>3</sup> /min,air pressure 0.6~0.8Mpa

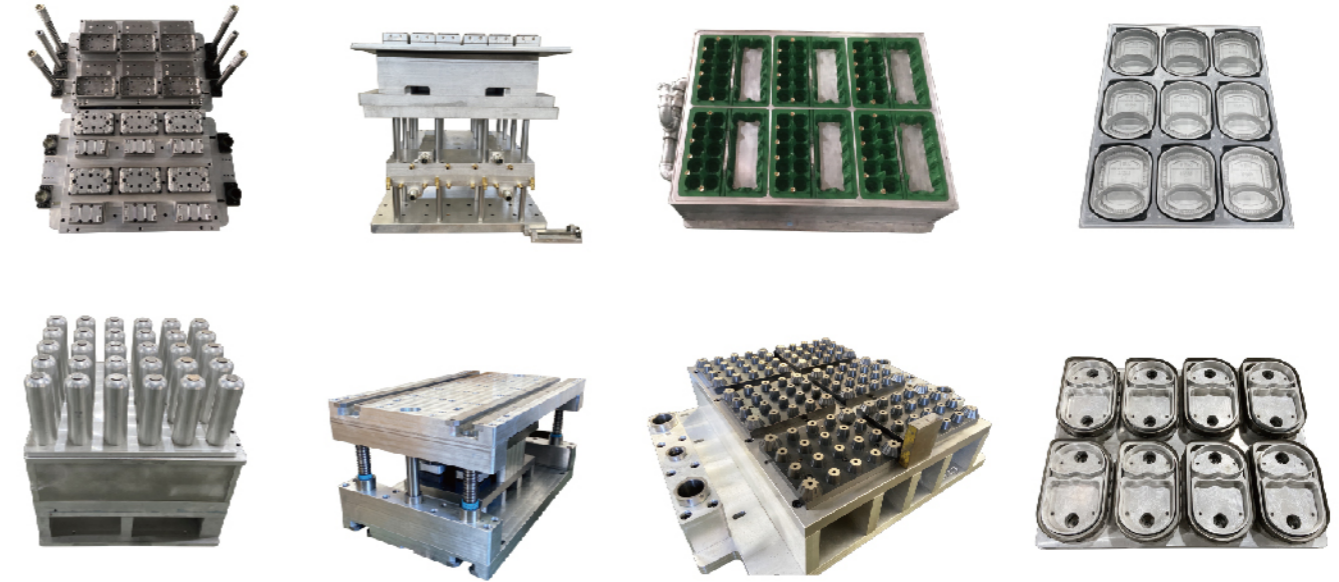


▶ Best Service

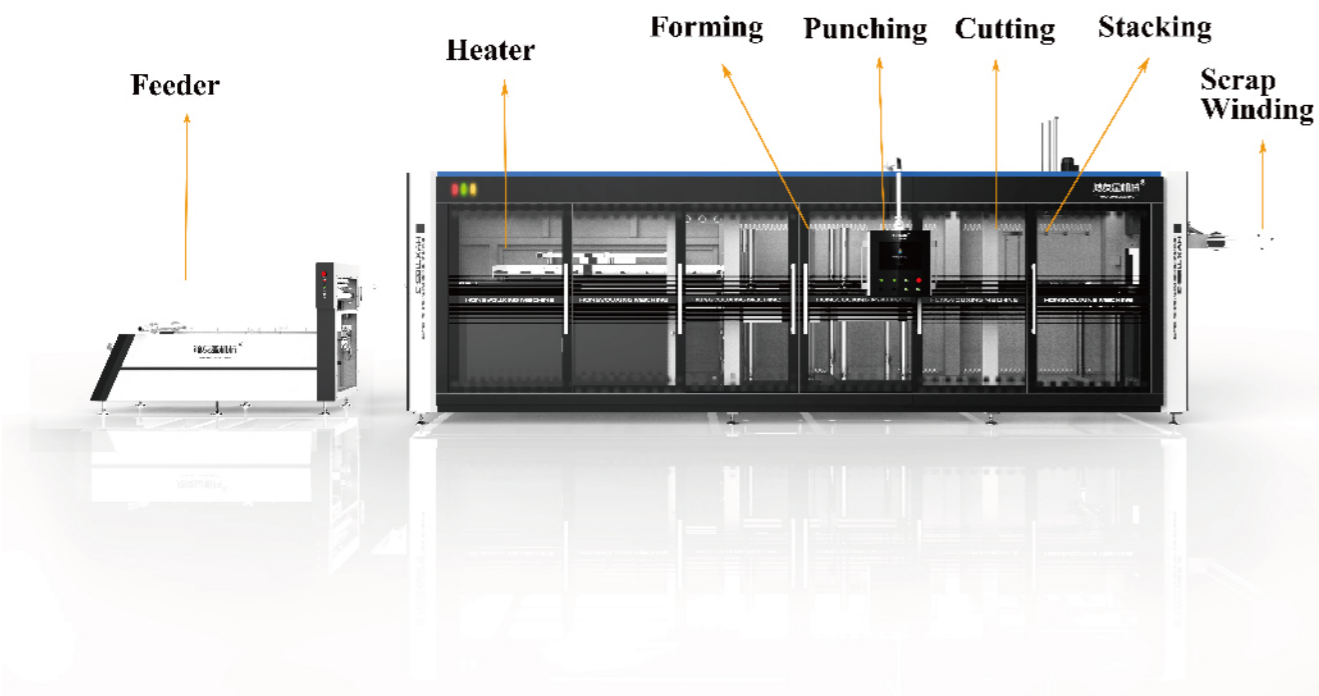
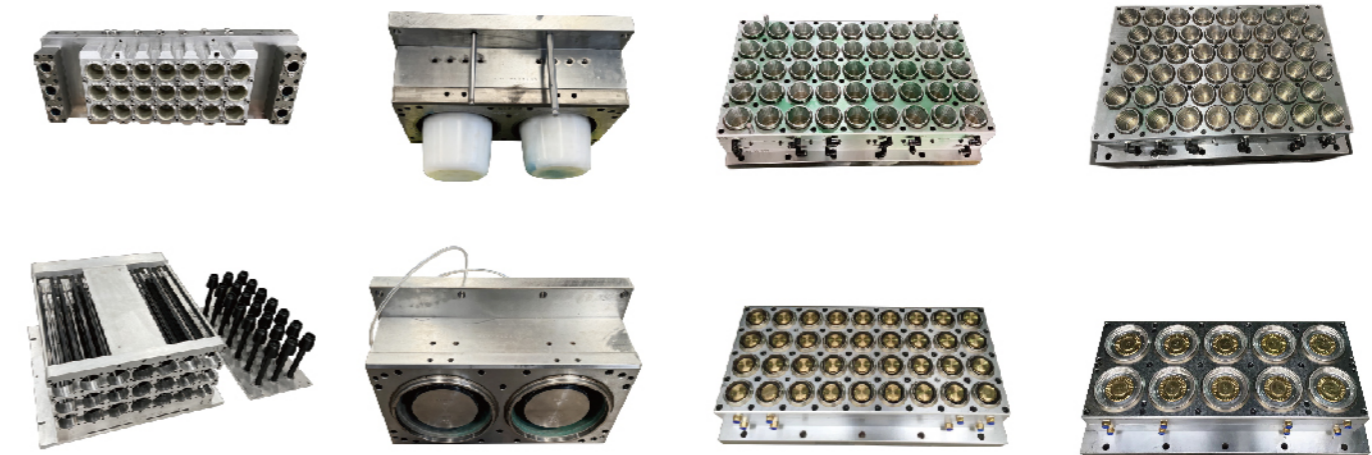


▶ Mold Service

Thermoforming Mold

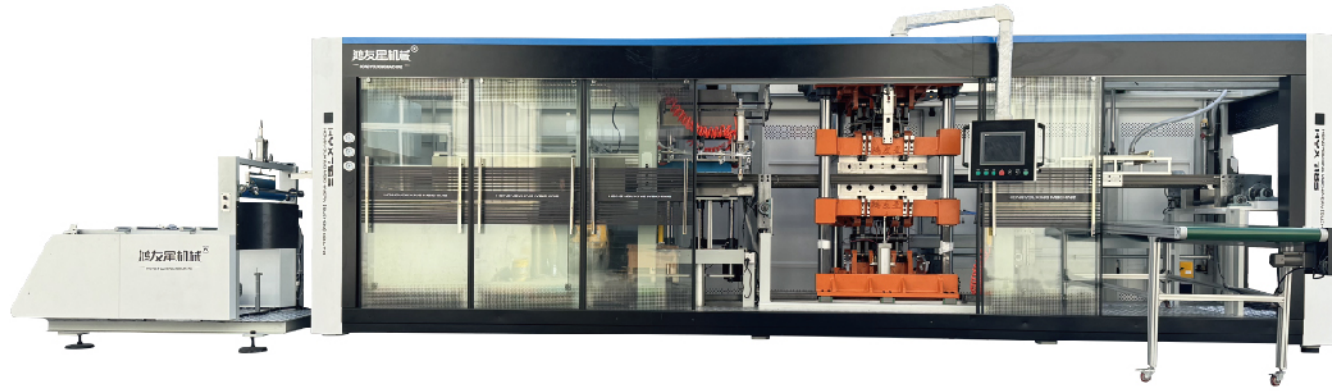


Cup Mold

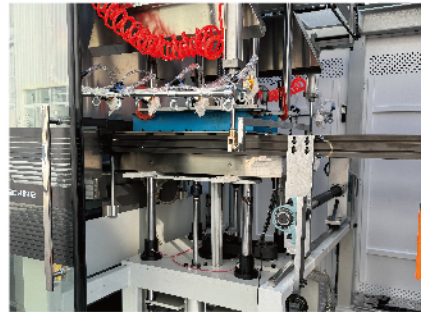




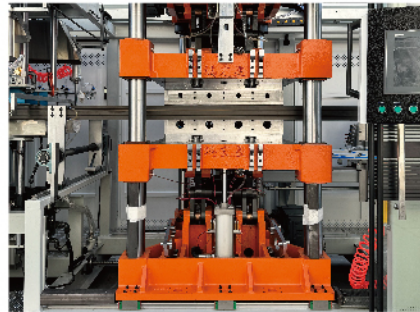
## ► Full Automatic Vacuum Forming Machine



### Advantages Of The Machine



Forming Station



Cutting Station



Intelligent Temperature Control

### Main Features

- Adopt PLC control, the whole system is fully automatic, parameters digital display, easy operation.
- This machine combines servo motor sheet feeding, vacuum forming system, servo motor drive cutting station, stacking, counting and finished products conveying into one machine.
- The heating method adopts two-stage upper and lower heating furnaces.

### Technical Parameters

Full Automatic Vacuum Forming Machine		
Model	HYX-F7185	HYX-F7161
Suitable Material	PP, PS, PET, PVC, PLA, etc.	
Material Width	450-750mm	
Thickness of Material	0.15-2.2mm	
Max. Forming Area	710×850mm	710×610mm
Min. Forming Area	420×300mm	420×300mm
Forming Depth	150mm	150mm
Max. Cutting Force	80T	60T
Maximum opening and closing stroke of forming mold	300mm	300mm
Maximum opening and closing stroke of cutting die	160mm	160mm
Positive forming product height	140mm	140mm
Stacking mechanism stroke	≤500mm	≤500mm
Installed Power	100KW	80KW
Heating Power	Upper furnace: 32KW lower furnace: 32KW	Upper furnace: 25KW lower furnace: 25KW
Actual Energy Consumption	About 20KW/H	About 20KW/H
Power Supply	AC 380V/50Hz (3+N+PE)	
Max. Production Speed	≤10 cycles/minute	
Use Compressed Air Pressure	0.6~0.8bar	
Consumption of Compressed Air	About 2.5-3.5 m <sup>3</sup> /minute	
Cooling Method	The mold is cooled by circulating water	
Machine Weight	8,000kg	7,000kg
Dimension (L*W*H)	9m×2.3m×2.5m	8m×2.3m×2.5m



► HYX-1220 Semi Automatic Vacuum Forming Machine



Ordinary Type

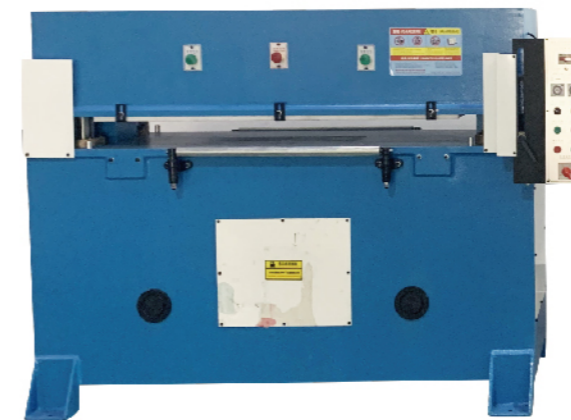


Stainless Steel Type

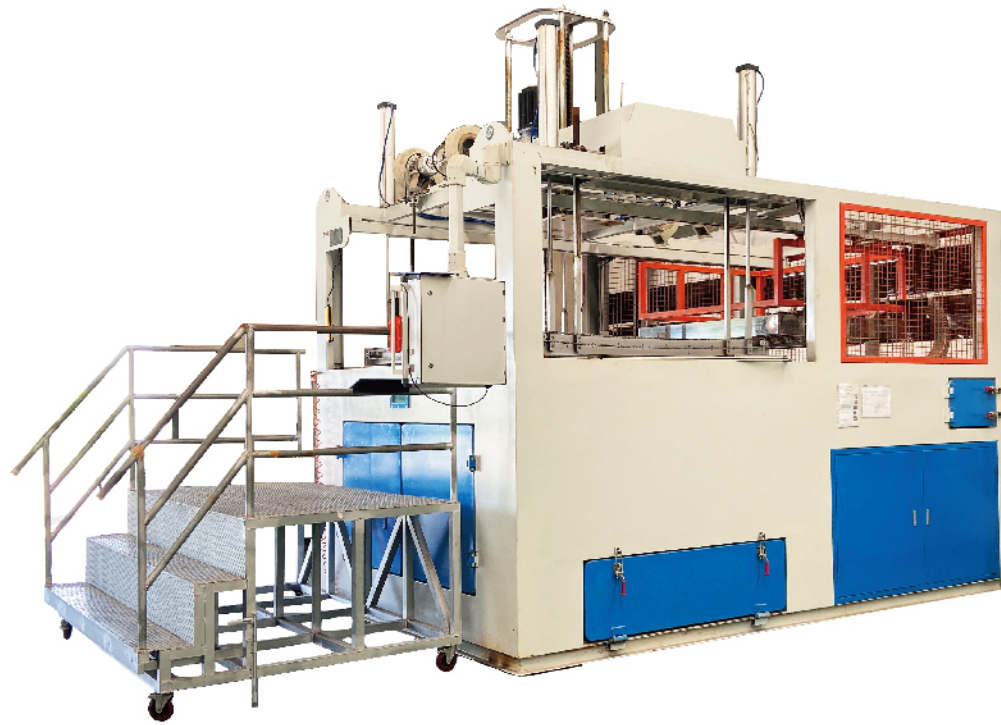
Technical Parameters

HYX-1220 Semi Automatic Vacuum Forming Machine	
Model	HYX-1220
Suitable material	PP,PE,PVC,PS,PET,ABS,HIPS (biodegraded material PLA) etc.
Heating method	Single or double side heating
Sheet thickness	0.15-2.0mm
Max forming area	710*1220mm
Forming width	410-710mm adjustable
Sheet width	450-750mm adjustable
Forming length	300-1220mm adjustable
Max. forming height	150mm-180mm
Chassis maximum stroke	370mm
Speed	3-8 cycles/min depends on actual product and sheet thickness
Water consumption	Tap water recycling use
Air consumption	1.5m³/minute
Power supply	380V, 50HZ
Heating power	Single heating oven: 39kw-Double heating oven: 78kw
Total machine power	Rated power 96kw. Normal production power between 30-55kw
Temperature control	Voltage adjust by touch screen
Weight	About 3T
Overall dimension	6960*1500*2650mm

Note: To purchase this machine, you need to purchase a hydraulic cutting machine separately, and you can choose 40T/60T/80T/100T/150T/200T according to different cutting pressures.



## ▶ Thick Sheet Thermoforming Machine (Maximum Customizable Forming Area 3000×5000mm)



### | Main Features

- **Frame:** It is welded with 100\*100mm square tube to make the frame more stable. And bolted to key parts as needed for easy installation, disassembly and repair.
- **Vacuum Forming Devices:**
  - Moulds Platform:** Welded by H steel and steel plate, the moulds platform was driven by hydraulic control system. In order to keeping balance, the double hydraulic cylinder will move synchronously, thus could prolong the service life. If the dimensions of the moulds changes, new platform should be made accordingly.
  - Pressing Frame:** The pressing frame was driven by pneumatic cylinder and must has enough intensity and stiffness. When the moulds sizes changes, there is no need to make new frames and just adjust the frame in horizontal or vertical orientation.
  - Upper moulds (force plug):** according to customer's request, and can be assembled with electric adjusting device for precise adjusting.
  - Cooling System:** To be equipped with Cooling Blower. The direction of air outlet could be adjusted, there are 6 Sprayers, could be used for forming control or the cooling of the products.
  - Protection System:** With button position and manual locking, if the Safe door was not closed well or being opened, other operations could not be operated.
- **Heating Devices:**
  - Adopt Double side heating, made up of carbon fiber medium wave heating tube, tube carriage and porcelain connector. With the character of instant heating and energy saving, the energy consumption is about 60% of similar machines in the market. If being used intermittently, the energy consumption even Low.
  - Heater wire adopted HTW, heating tube connected with SS support by porcelain connector, easy for changing tube.
  - Temperature control adopt Temperature Control Module, Display and control more accurate, and will not be affected by Voltage fluctuate.
- **Safety Measures:**
  - System have many protection measures, any possible confiction will trigger protection function.
- **Forming depth:**
  - can reach 2-12mm.

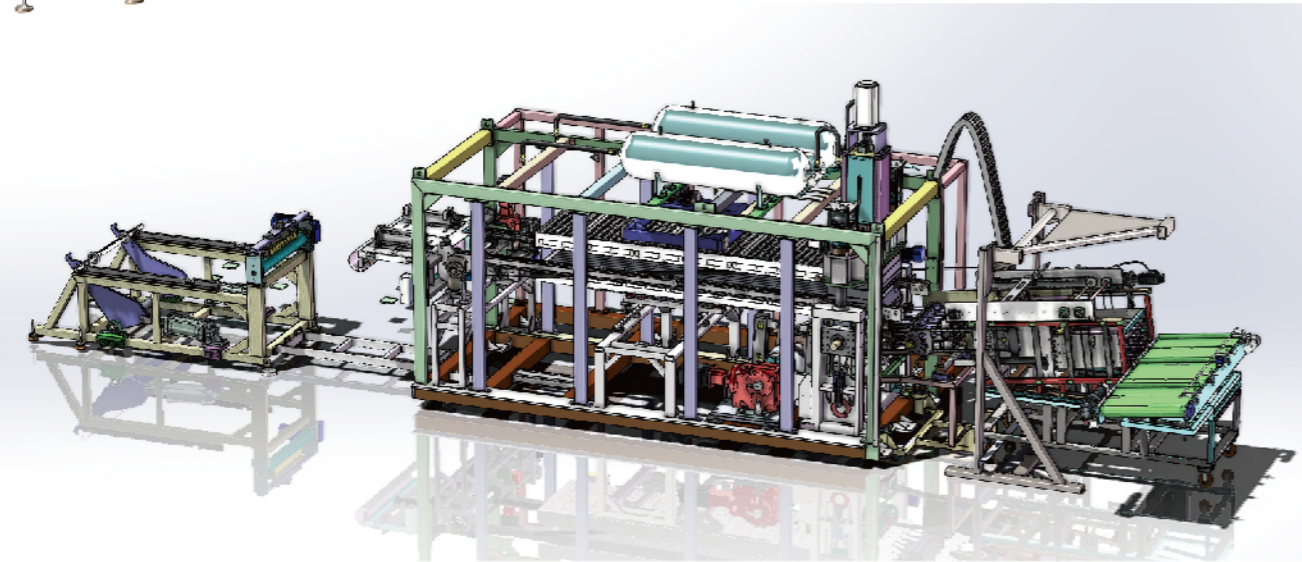
## ▶ Manual Vacuum Forming Machine



### | Main Features

- Electric stove is made of stainless steel, avoid making similar models with a sizzling creates iron oxide in the material production scrap, built-in insulation, reduce heating, loss and save energy.
- The vibration drawing of patterns, may adjust willfully during 0-9 next bests, two top dies when the drawing of patterns protects the formation product not to distort the crack, the best machine for the brittle and difficult mold unloading products.
- Uses Japan servo meter to pull the piece, may produce thickness is 0.1-2.5mm sheet material, the horsepower formidable, and pulls the piece length precisely to 100%, easy operation.
- Double chain drive, high speed stability was still guaranteed, with a width of the adjustable device, make good use of film, to reduce wasting.
- Built-in secondary vacuum, make more difficult product formed easily, reduce scrap, improve product quality.
- Equipped with plastic product quantity setting device, suitable for bulk products or counter.

► Full Automatic Tilting Mould Cup Making Machine



Technical Parameters

Full Automatic Tilting Mould Cup Making Machine		
Model	HYC-7238	HYC-7849
Maximum forming area	720×380mm	780×490mm
Forming depth	180mm	180mm
Sheet width	450-730mm	450-820mm
Maximum sheet thickness	2.2mm	2.2mm
Upper heating power	88.4kw	82.8kw
Bottom heating power	85.8kw	79.2kw
Maximum empty cycle	35 cycles/minute	42 cycles/minute
Compressed air working pressure	7-8bar	7bar
Installed total power	206.5kw	212kw
Machine peripheral dimensions	5318×2810×3355.3mm	5526×2910×3200mm
Machine overall length	141156mm	12355mm
Machine weight	13400kg	18724kg

► Full Servo Motor Thermoforming Flowerpot Production Line



Technical Parameters

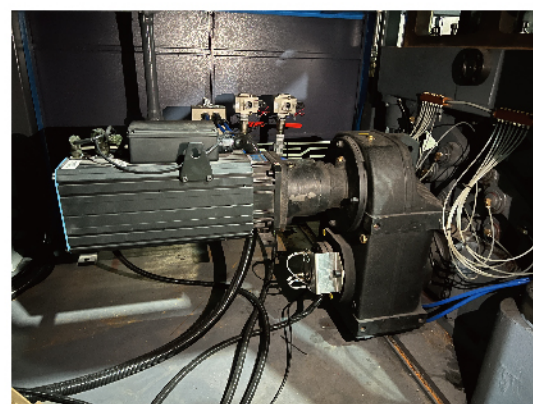
Full Servo Motor Thermoforming Flowerpot Production Line			
Model	HYX-730	HYX-750	HYX-850
Suitable material	PP、PS、PET、PLA、HIPS、(degraded material) etc		
Sheet thickness		0.3-2.5mm	
Sheet width	730mm	750mm	850mm
Max. forming area	730×420mm	750×520mm	850×560mm
Max. forming depth	≤180mm	≤180mm	≤180mm
Clanping stroke		220mm	
Capacity		≤30shots/minute	
Heating power	41.3kw	49.8kw	56kw
Main motor power	11kw	15kw	15kw
Servo motor for stretching	7.5kw	7.5kw	11kw
Sheet feeding power	4.4kw	4.4kw	5.5kw
Power supply		380V/50HZ	
Air pressure		0.6-0.8Mpa	
Air consumption	3200~4500 L/min	4500~6000 L/min	4500~6000 L/min
Water consumption	40-45L/min	40-60L/min	40-60L/min
Dimensions	4500×1840×2500mm	4500×1840×2500mm	4903×2266×3345mm
Weight	7000kgs	8000kgs	11000kgs
Automatic Online Punching Machine			
Max. Production Speed	12-15 cycles/minute		
Power Supply	Three-phase four-wire (380v50HZ)		
Motor Power	13kw		
Air pressure	0.6Mpa		
Maximum air consumption	0.6m3/min		
Speed mode	PLC, display operation interface		
Overall dimensions	4.5m×1.7m×2.2m		
Machine weight	4500kg		

## ► Full Servo Motor Drive Cup/Lid/Bowl Thermoforming Machine



### Main Features

- Servo drive, servo stretching, servo film feeding.
- Side mold changing device, equipped with an automatic mold changing car device on the side of the equipment, which can automatically install molds on the side, and the chain rail will automatically retreat during side mold changing, making mold replacement more convenient and safe, especially suitable for automatic production lines. In the case of production, it is possible to achieve mold change operations without moving the automation equipment in front of the molding equipment, realize rapid mold change, reduce labor waste, and improve production efficiency.
- The die table opening and closing adopts hydraulic five-point opening, adopts servo motor acceleration and deceleration machine, stable punching and shearing, low noise, sanitation and energy saving.
- The temperature control system adopts single-point temperature control of the tiles, the temperature is accurate, and there is no temperature control meter or temperature control module. Using PLC direct control, single-point precise temperature control, providing stable and accurate temperature for product molding, making product molding stable and improving production efficiency.



Lower Mold Servo Drive

### Technical Parameters

Full Servo Motor Drive Cup/Lid/Bowl Thermoforming Machine			
Model	HYX-730	HYX-750	HYX-850
Suitable material	PP, PS, PET, PLA, HIPS, (degraded material) etc		
Sheet thickness	0.3-2.5mm		
Sheet width	730mm	750mm	850mm
Max. forming area	730×420mm	750×520mm	850×560mm
Max. forming depth	≤180mm	≤180mm	≤180mm
Clamping stroke	220mm		
Capacity	≤30shots/minute		
Heating power	41.3kw	49.8kw	56kw
Main motor power	11kw	15kw	15kw
Servo motor for stretching	7.5kw	7.5kw	11kw
Sheet feeding power	4.4kw	4.4kw	5.5kw
Power supply	380V/50HZ		
Air pressure	0.6-0.8Mpa		
Air consumption	3200~4500 L/min	4500~6000 L/min	4500~6000 L/min
Water consumption	40-45L/min	40-60L/min	40-60L/min
Dimensions	4500×1840×2500mm	4500×1840×2500mm	4903×2266×3345mm
Weight	7000kgs	8000kgs	11000kg



## ► Hydraulic Drive Cup/Bowl/Lid Thermoforming Machine



### Main Features

- This plastic air pressure thermoforming machine adopts the latest international plastic sheet forming technology. It is an integrated design of machine, electricity and gas. It is controlled by microcomputer and programmable PLC control and the entire system HMI. This machine is a plastic sheet forming equipment that completes sheet feeding, heating, forming, trimming, and stacking at one time.
- According to different configurations, it can be divided into:
  - a. Hydraulic drive, servo stretching, servo sheet feeding
  - b. Hydraulically drive, pneumatic stretching, servo sheet feeding
- The temperature control system adopts single-point temperature control of the tiles, the temperature is accurate, and there is no temperature control meter or temperature control module. Using PLC direct control, single-point precise temperature control, providing stable and accurate temperature for product molding, making product molding stable and improving production efficiency.



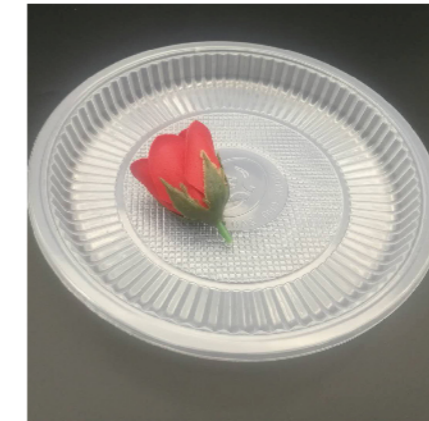
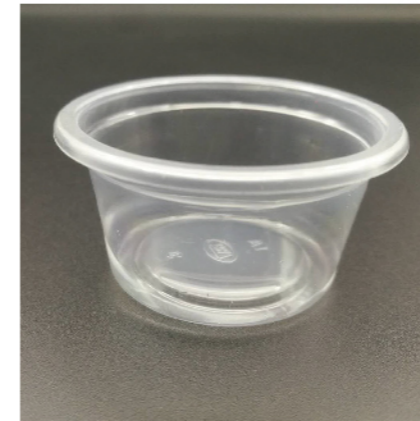
Cup stacking machine: suitable for regular cups.



Robot arm: Suitable for non-conventional products such as bowls, lunch boxes, dishes, etc.

### Technical Parameters

Hydraulic Drive Cup/Bowl/Lid Thermoforming Machine				
Model	HYX-680	HYX-730	HYX-750	HYX-850
Suitable material	PP, PS, PET, PLA, HIPS, (degraded material) etc			
Sheet thickness	0.3-2.5mm			
Sheet width	680mm	730mm	750mm	850mm
Max. forming area	680×350mm	730×420mm	750×520mm	850×560mm
Max. forming depth	≤140mm	≤180mm	≤180mm	≤180mm
Capacity	≤30shots/minute			
Heating rated power (Three phase)	34kw	41.3kw	49.8kw	56kw
Main motor power	7.5kw	11kw	15kw	15kw
Servo motor for sheet stretching	7.5kw	7.5kw	7.5kw	7.5kw
Sheet feeding power	2.2kw	4.4kw	4.4kw	5.5kw
Power supply	380V/50HZ			
Air pressure	0.6-0.8Mpa			
Air consumption	3200~4000 L/min	4000~5000 L/min	4500~6000 L/min	4500~6000 L/min
Water consumption	40-45L/min	40-50L/min	40-60L/min	40-60L/min
Dimensions	3500×1600×2300mm	4000×1600×2200mm	4200×1720×2500mm	4270×1810×2600mm
Weight	4500kg	6000kgs	7000kg	7500kg



## ► Full Automatic Stacking And Packing System



### Technical Parameters

Full Automatic Stacking And Packing System	
Output	8-23 time/min
Power Supply	220V/2P
Air Pressure	0.6-0.8Mpa
Power	7KW
Weight	2.5T
Size(m)	5×1.9×2.1

## ► Rim Roller



### Technical Parameters

Rim Roller	
Machine Model	HYX-120
Speed regulation mode	Speed Adjusted By Frequency Conversion
Suitable for plastic cup material	Round mouth PP PS PET PLA plastic cup
Compatible plastic cup diameter (mm)	Φ50-Φ120
Power Supply	380V/50Hz
Crimping speed (pcs per minute)	≤800
Whole machine power (kw)	13
Air consumption	0.5m/min
Outline size(LxWxH)(mm)	"Cup conveying:2000x400x980 Host: 1030x800x1300 1180x800x1300 (extended) Cup counting machine: 2900x400x1500"
Weight(kg)	≈800

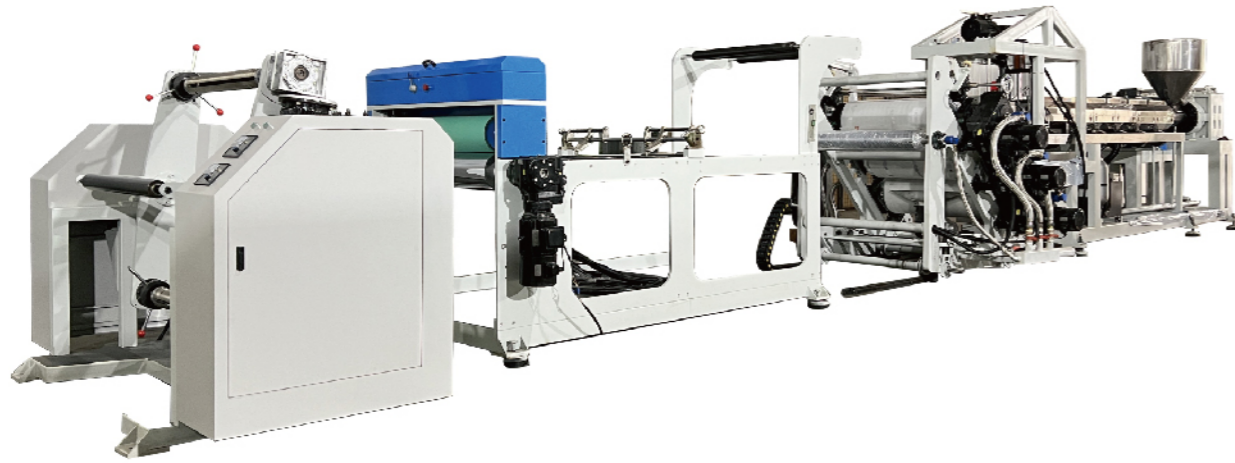
## ► Automatic Counting Packing Machine



### Technical Parameters

Automatic Counting Packing Machine	
Machine Model	HYX-14
Cup spacing(mm)	3.0-10
Packaging film thickness (mm)	0.025-0.06
Packaging film width (mm)	90~750
Packaging speed	≥28(Each line 50pcs)
Maximum quantity of each cup counting line	≤100
Cup height (mm)	35-150
Cup diameter(mm)	Φ50-Φ80
Compatible material	opp
Power(kw)	5
Packing type	Three-side sealing H type
Outline size(LxWxH)(mm)	Host: 2400x1150x1350 Slave: 3500x870x1200

► HYX-80/90/105/110/120/135 Series PP/PS/PE Plastic Sheet Extruder



Technical Parameters

HYX-80/90/105/110/120/135 Series PP/PS/PE Plastic Sheet Extruder							
Model	HYX-80	HYX-90	HYX-105	HYX-110	HYX-120	HYX-120 High Output	HYX-135
Processing materials	PP, PS, PE						
Material thickness	0.30~2.0mm						
Sheet thickness accuracy	±0.015mm						
Effective width of sheet	≤800mm						
Line speed	3~20 m/min						
Max.speed	90kg/h	150kg/h	180kg/h	250kg/h	350kg/h	450kg/h	550kg/h
Max.roll dia.	800mm						
Layer	1						
Motor power	30kw	45kw	55kw	75kw	110kw	132kw	185kw



► Inline Crusher



Technical Parameters

Inline Crusher	
Model	HYX-300B
Main motor	3kw
Blower power	2.2kw
Feeder motor	0.55kw*2
Feeding width	150mm*2
Suitable Material Thickness	0.1-2mm
Conveying Distance	About20m
Exterior size	1000*1150*1400mm



► Centralized Storage Tank



Technical Parameters			
Model	HYX-1000	HYX-3000	HYX-6000
Capacity	1000 Kgs	3000 Kgs	6000 Kgs

► Mixer



Technical Parameters			
Model	HYX-1000	HYX-3000	HYX-5000
Capacity	1000 Kgs	3000 Kgs	5000Kgs

► Feeder



Technical Parameters	
Model	HYX-500
Capacity	500Kgs

► Double Station Sheet Rewinding Frame



Technical Parameters	
Model	HYX-850-2
Rewinding method	Pneumatic shaft or three-piece shaft
Rewinding width	≤850mm
Rewinding weight	200-500kg/roll
Rewinding power	Torque motor 2.2kw or AC servo motor 2.2kw

► Three Station Sheet Rewinding Frame



Technical Parameters		
Model	HYX-850-3-A	HYX-850-3-B
Rewinding method	Pneumatic shaft or three-piece shaft	
Rewinding width	≤850mm	
Rewinding weight	200-500kg/roll	1000-1500kg/roll
Rewinding power	Torque motor 2.2kw or AC servo motor 2.2kw	Torque motor 2.2kw or AC servo motor 2.2kw

► Double Station Sheet Rewinding Frame



Technical Parameters	
Model	HYX-850-2-1000
Rewinding method	Pneumatic shaft or Chrome plated shaf
Rewinding width	≤850mm
Rewinding weight	1000-1500kg/roll
Rewinding power	Hydraulic station oil pump flow 40 Motor 2.2kw

## ▶ Inline Crusher

### Applicable Scope

The blister pulverizer is suitable to be placed in the back section of the cup making machine, and it can continuously crush the mesh side material online. It is suitable for thickness 0.1-3mm, please specify if the thickness is large. The new double traction pulverizer can realize the sharing of one pulverizer by two cup making machines, the equipment cost is lower, and the use cost is also greatly reduced.



### Main Features

- Crushing, feeding and storage in a fully enclosed environment, thus effectively avoiding the pollution caused by the transportation of raw materials.
- Frequency conversion double traction, double speed regulation, effectively guarantee the synchronous operation of crushing and main machine.
- High-strength welded body and tool holder structure, more reliable use, lower failure rate.
- Adjustable knife structure, can be used repeatedly for grinding.

### Technical Parameters

Inline Crusher			
Model	HYX-700	HYX-800	HYX-1200
Main motor power(kw)	11	15	15/22
Feed motor	5.5	5.5/7.5	5.5/7.5
Rotating speed	2800	2800	2800
Traction motor power	0.75	0.75	0.75
Traction speed	5~40	5~40	5~40
Number of fixed blades	4	4	4
Number of rotating blades	6	6	6
Crushing chamber size	700×300	800×300	1200×300
Maximum crushing capacity	400~600	600~800	800~1000
Crushing noise	80~100	80~100	80~100
Blades material	6542 or DC53	6542 or DC53	6542 or DC53
Sieve aperture	8~12	8~12	8~12

## ▶ Offline Crusher



### Technical Parameters

Offline Crusher	
Model	HYX-800
Speed Capacity	800~1000kg/h
Motor Power	22kw/30kw
Dimensions	2000*1400*2030mm
Weight	1500kg