

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.
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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

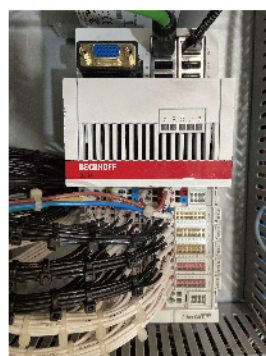


Most of the electrical components of our machines adopt world-class famous brands



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.



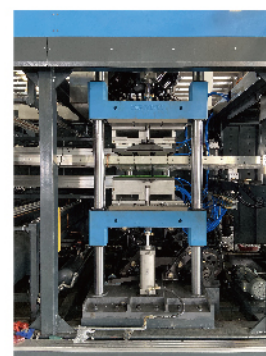
Beckhoff Operating System



Nord reducer



German ELSTEIN heating brick



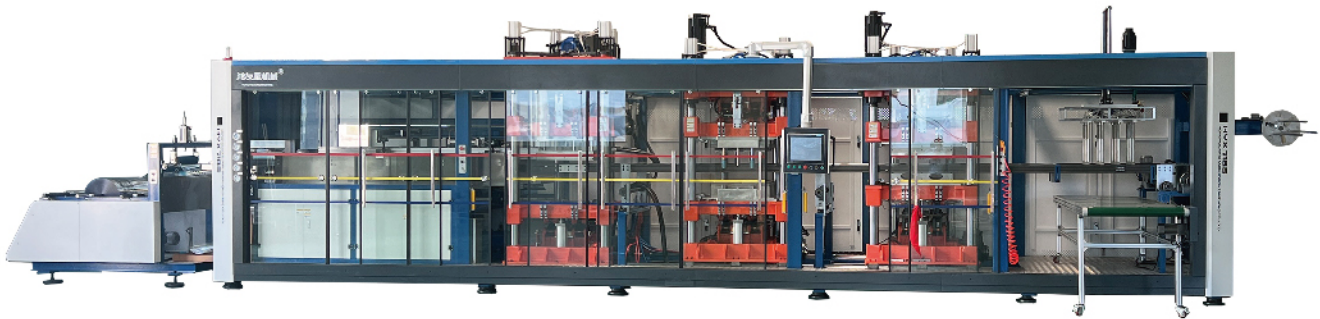
Ductile iron mold table



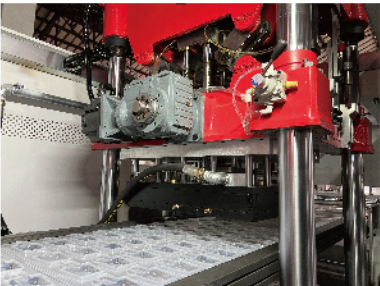
Technical Parameters

| High Speed Thermoforming Machine | |
|--|---|
| Model | FRAND-85A |
| Suitable Materia | PETG, APET, PP, PS, PVC, ABS, PLA, 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**



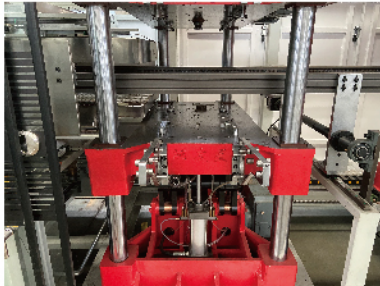
| **Advantages of the machine**



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**

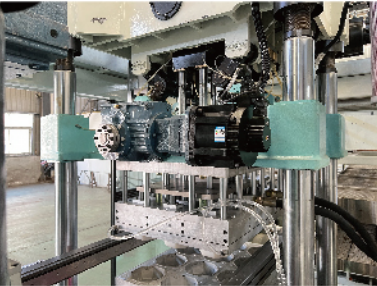
| HYX-7185 Fully Automatic Positive and Negative Pressure 4 Stations Thermoforming Machine | |
|--|--|
| Model | HYX-7185-4 |
| Suitable Material | PP, PS, PET, PVC, PLA, etc. |
| Material Width | 450-750mm |
| Thickness of Material | 0.15-2.5mm |
| Max. Forming Area | 710×850mm |
| Min. Forming Area | 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 ≥3.5m3/min, air pressure 0.6~0.8Mpa |



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



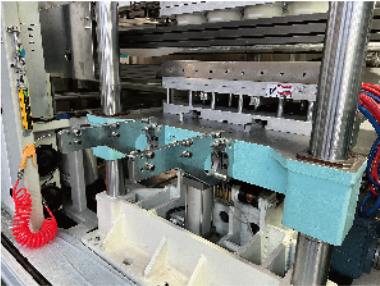
Advantages of the machine



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.
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- 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, PVC, PLA, 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≥3.5m3/min, air pressure 0.6~0.8Mpa |



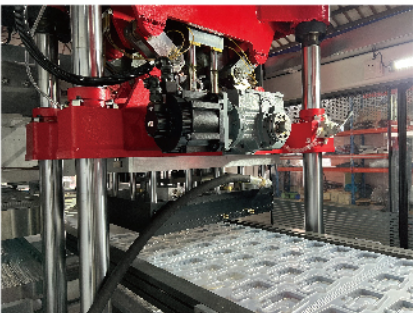
►

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

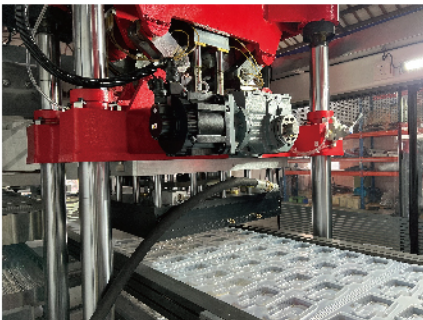
| HYX-7161 Fully Automatic Positive and Negative Pressure 4 Stations Thermoforming Machine | |
|--|--|
| Model | HYX-7161-4 |
| Suitable Material | PP, PS, PET, PVC, PLA, etc. |
| Material Width | 450-750mm |
| Thickness of Material | 0.15-2.5mm |
| Max. Forming Area | 710×610mm |
| Min. Forming Area | 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 ≥3.5m3/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**

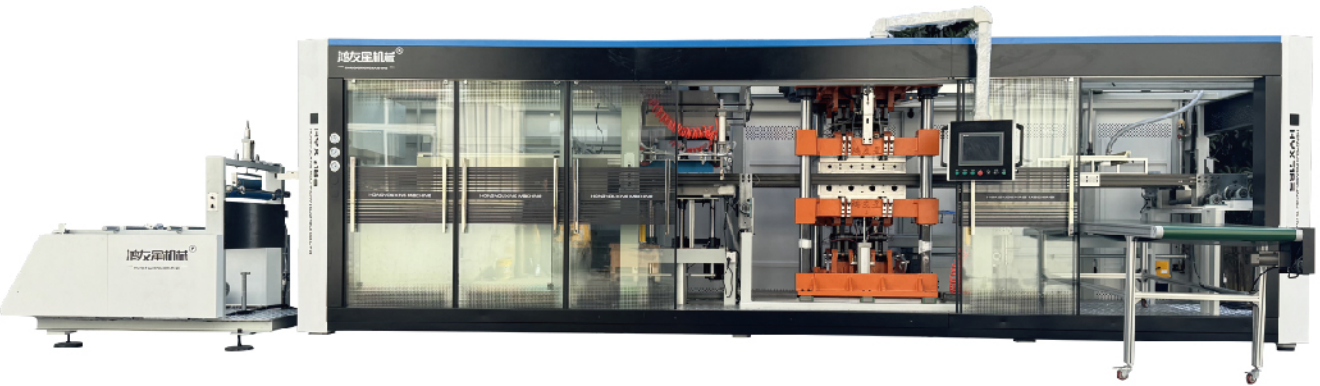
- The machine has a three-station automatic function of heating-forming-cutting-stacking and counting, and can adapt to PLA, PS, PET, PP, PVS, ABS and other materials.
- The machine is widely used and has strong versatility. The speed of positive and negative pressure molding machine is fast, and the 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**

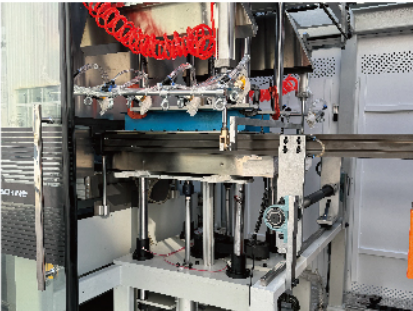
| HYX-7161 Fully Automatic Positive and Negative Pressure 3 Stations Thermoforming Machine | |
|--|--|
| Model | HYX-7161-3 |
| Suitable Material | PP, PS, PET, PVC, PLA, etc. |
| Material Width | 450-750mm |
| Thickness of Material | 0.15-2.5mm |
| Max. Forming Area | 710×610mm |
| Min. Forming Area | 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≥3.5m3/min,air pressure 0.6~0.8Mpa |



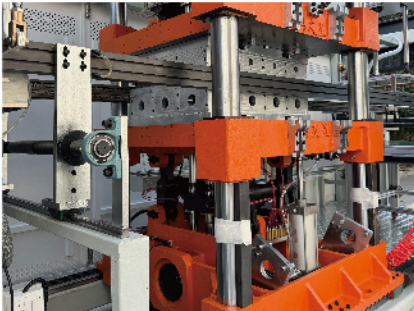
► Full Automatic Vacuum Forming Machine



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 m³/minute | |
| Cooling Method | The mold is cooled by circulating water | |
| Machine Weight | 8,000kg | 7,000kg |
| Dimension (L*W*H) | 9m×2.3m×2.5mm | 8m×2.3m×2.5mm |



► **HYX-1220 Semi Automatic Vacuum Forming Machine**



Ordinary Type

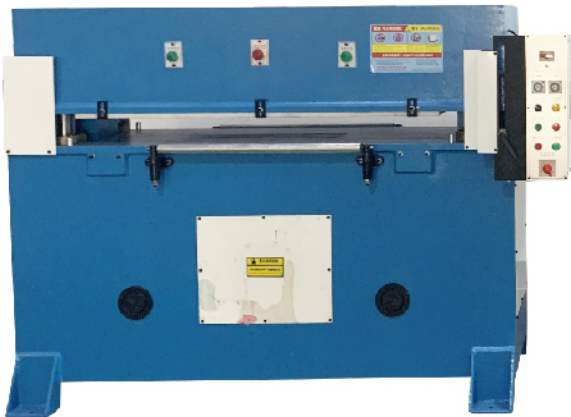


Stainless Steel Type

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 confliction will trigger protection function.
- **Forming depth:**
 - can reach 2-12mm.

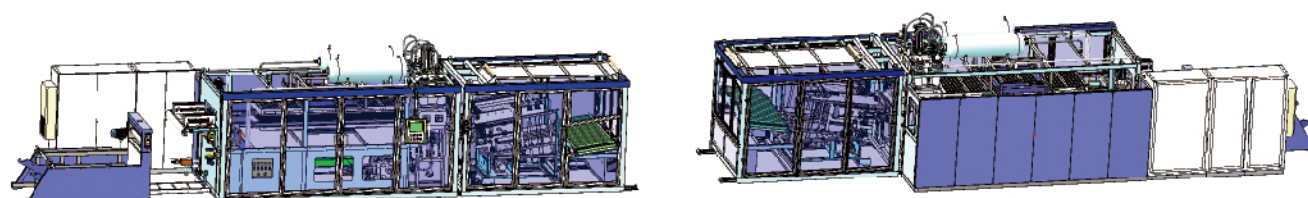
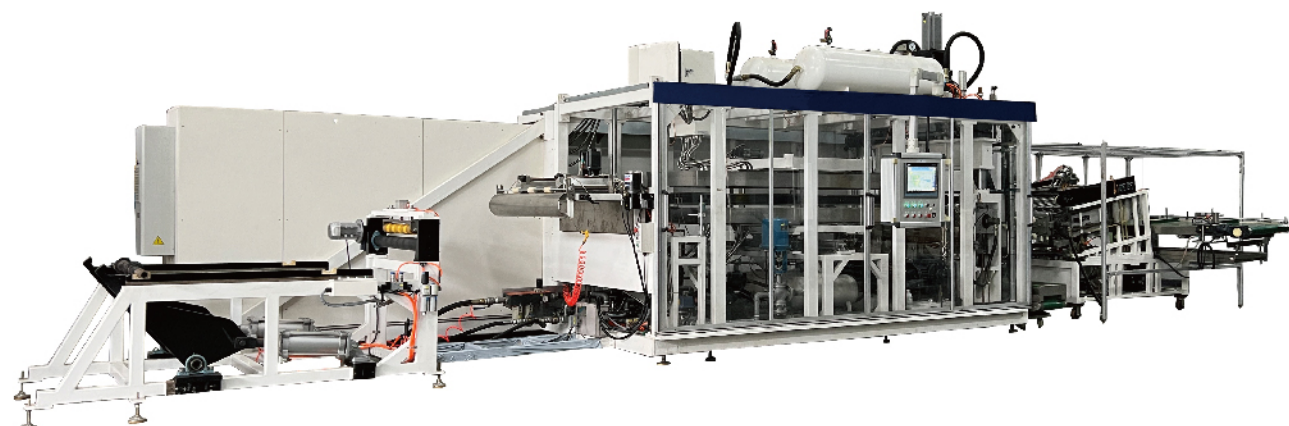
► Manual Vacuum Forming Machine



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 0.1-2.5 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.

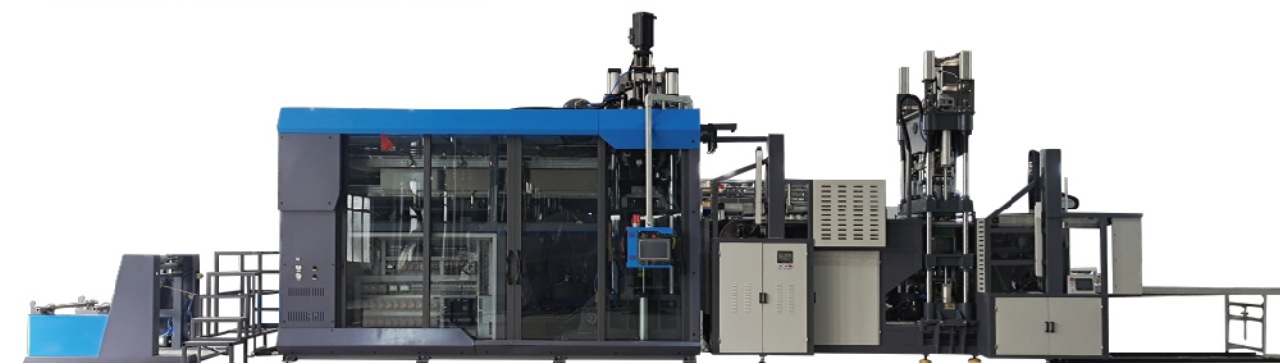
► Full Automatic Tilting Mould Cup Making Machine



Technical Parameters

| Full Automatic Tilting Mould Cup Making Machine | | |
|---|--------------------|------------------|
| Model | CYS-7236 | CYS-7849 |
| Maximum mold size (outer diameter) | 720×360mm | 780×490mm |
| Maximum forming area | 680×320mm | 750×465mm |
| Forming depth | 160mm | 180mm |
| Sheet width | 450-730mm | 450-820mm |
| Maximum sheet thickness | 2.2mm | 2.2mm |
| Upper heating power | 82.8kw | 82.8kw |
| Bottom heating power | 79.2kw | 79.2kw |
| Maximum empty cycle | 35 cycles/minute | 42 cycles/minute |
| Compressed air working pressure | 7bar | 7bar |
| Installed total power | 199.3kw | 212kw |
| Machine peripheral dimensions | 5318×2810×3355.3mm | 5526×2910×3200mm |
| Machine overall length | 11400mm | 12355mm |
| Machine weight | 13400kg | 18724kg |

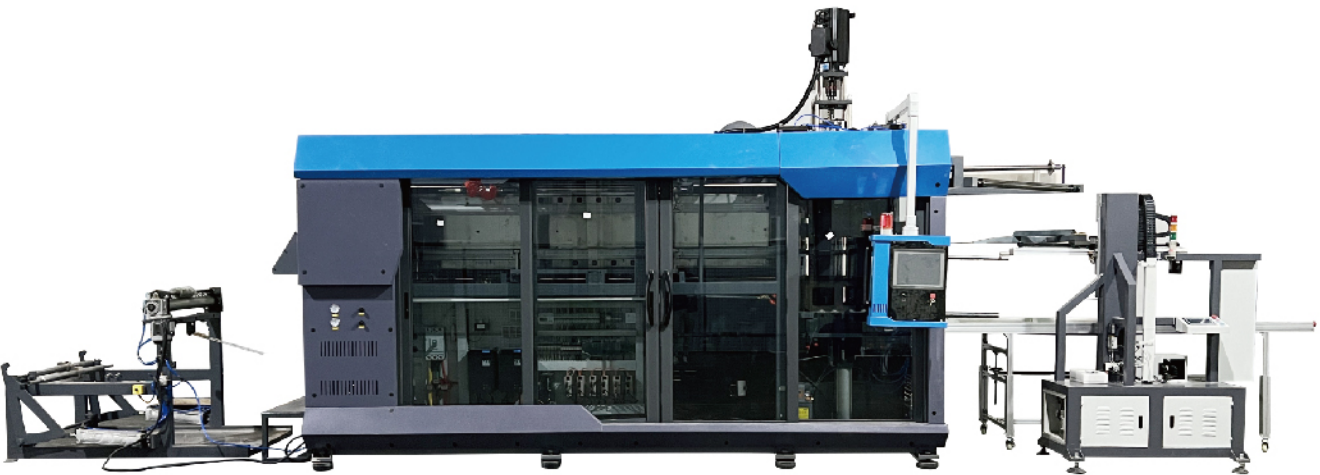
► Thermoforming Flowerpot Full Servo Motor Production Line



Technical Parameters

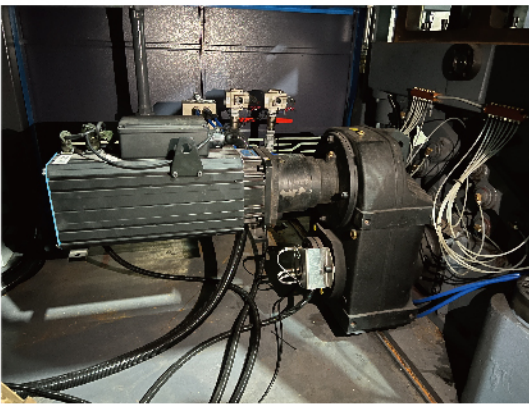
| Thermoforming Flowerpot Full Servo Motor Production Line | | | |
|--|--|------------------|------------------|
| Model | HYX-730 | HYX-750 | HYX-850 |
| Suitable material | PP、PS、PET、PLA、HIPS、(degraded material) etc | | |
| Sheet thickness | | 0.3-2.5mm | |
| Sheet width | 730mm | 750mm | 850mm |
| Max. forming area | 730×420mm | 750×520mm | 850×560mm |
| Max. forming depth | ≤180mm | ≤180mm | ≤180mm |
| 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 | 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 |



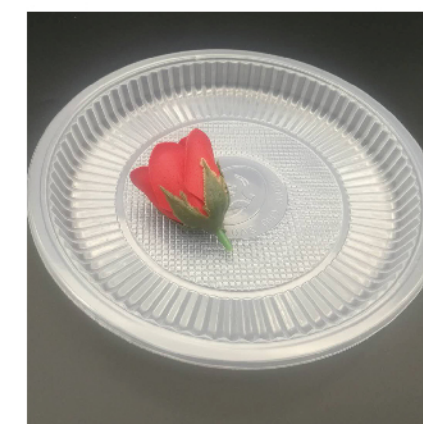
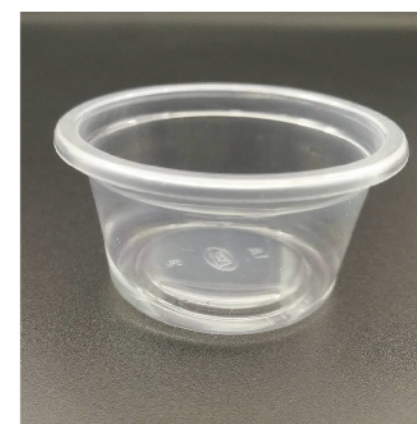


- This plastic air pressure thermofforming machine adopts the latest international plastic sheet forming technology. It is an integrated design of machine, electricity and gas. It is controlled by microcomputer and programmable PLC control and the entire system HMI. This machine is a plastic sheet forming 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.



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

| 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 reated 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 |



► FullAutomatic Stacking And Packing Machine



Technical Parameters

| FullAutomatic Stacking And Packing Machine | |
|--|---------------|
| 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 |



Technical Parameters

| Row Automatic Counting Packing Machine | |
|--|---|
| Machine Model | HYX-1-4 |
| Cup spacing(mm) | 3.0-10 |
| Packaging film thickness (mm) | 0.025-0.06 |
| Packing 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 (Extruding Machine)Double Station



| Technical Parameters

| Inline Crusher ((Extruding Machine)Double Station) | |
|--|------------------|
| 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 850 type | | | |
|---------------------------|--------------|--------------|--------------|
| 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 |

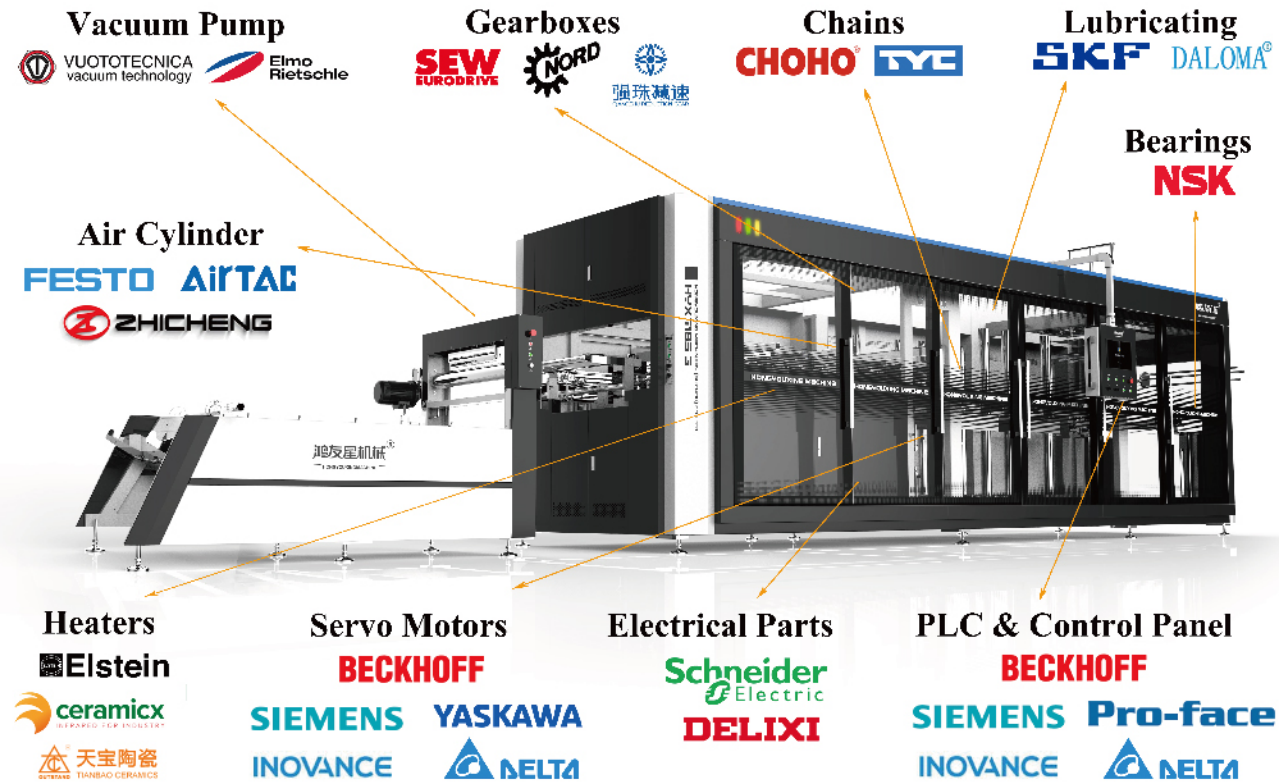
► Offline Crusher



| Technical Parameters

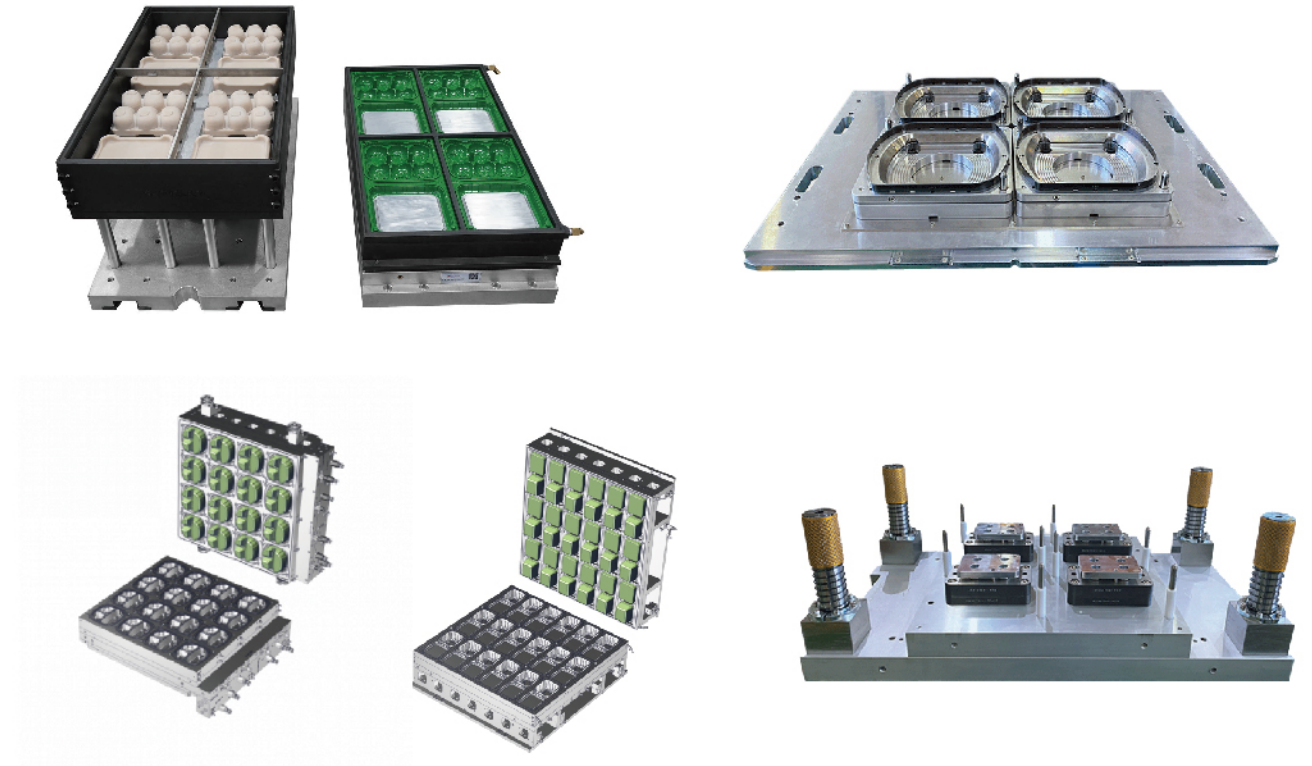
| Offline Crusher | |
|-----------------|------------------|
| Model | HYX-800 |
| Speed Capacity | 800~1000kg/h |
| Motor Power | 22kw/30kw |
| Dimensions | 2000*1400*2030mm |
| Weight | 1500kg |

Best Service



Mold Service

Thermoforming Mlod



Cup Mlod

