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www.litai.cc



www.litaithermoformer.com



Worldwide Innovator in Thermoforming Solutions



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Thermoforming Machine
全自动热成型机



SINCE 2001
始于2001

**GATHER WHAT YOU CAN
FOCUS ON PROGRESS**

汇集所能, 专注进步

In the future of plastic packaging, we are based on excellent competitive products, innovative production solutions, and close partnerships to create value and unlimited possibilities for customers.

在未来的塑料包装领域里, 我们将以卓越的有竞争力的产品、革新的生产解决方案, 以及密切的合作伙伴关系为基础, 为客户创造需求之上的价值和无限的可能性。

WE GO ALL OUT TO PROMOTE INDUSTRY BENEFITS

我们全力以赴，推进行业效益提升

Litai Machinery Co., Ltd is founded in 2001. For more than 20 years, our enterprise mission is to realize producing automatic plastic packaging machines. We focus on researching, developing, manufacturing and marketing four/three-station thermoforming machine, plastic cup thermoforming machine, multi-layer PP/PS/PET sheet extruder, mould, etc. We are the first manufacturer in domestic to produce plastic cup in one line with thermoforming, stacking, transmitting, counting and packing automatically.

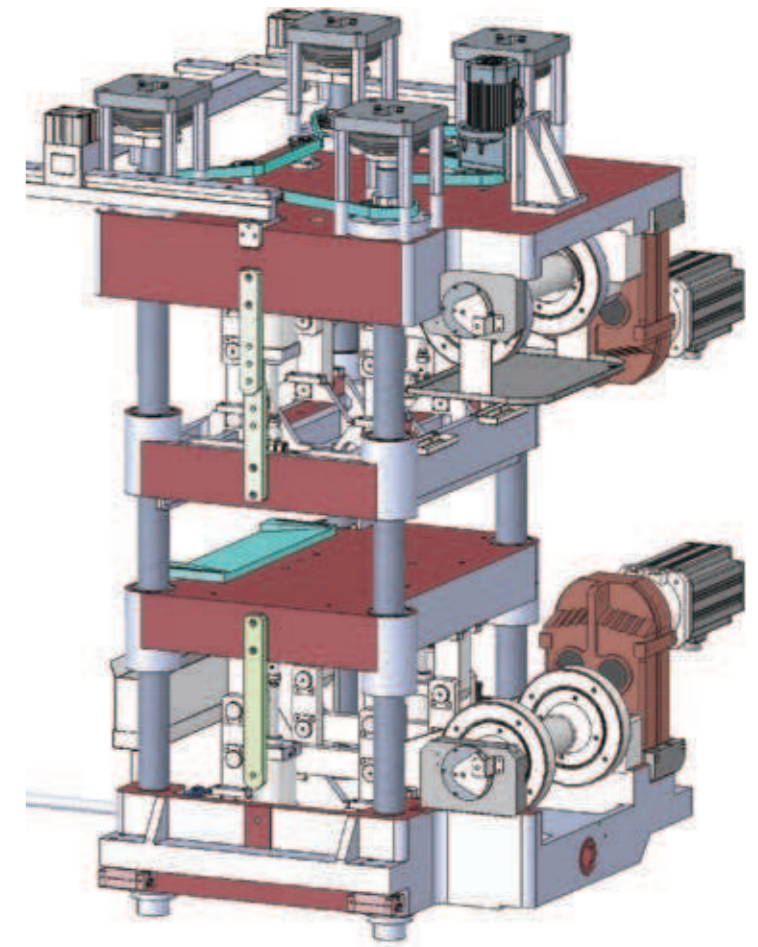
In accordance with the requirements of the ISO9001:2015 international quality standard system and CE certification system, Litai Machinery has established a complete, applicable and effective quality assurance system from product development and design, production and manufacturing to sales services, all links that may affect product quality and work quality are under strict and effective monitoring.

We have obtained a number of invention patents and utility model patents, and our machines have passed CE and ISO9001:2015 certification. Today, our customers are all over the world, from more than 100 countries and regions such as the United States, South Korea, Turkey, Canada, Russia, Kuwait, Iran, Brazil, Chile, Bolivia, Saudi Arabia, Yemen, and Peru. Over the years, the company has always adhered to the service tenet of "customers first, sincere service" and welcomes new and old customers to come for exchanges and cooperation.

力泰机械有限公司始创于2001年，二十多年来，公司以“实现塑料包装容器自动化生产，智能化生产”为企业使命，专注于四、三工位塑料热成型机、塑料杯热成型机、多层PP/PS/PET片材机、模具等产品的研发、生产、销售和服务，成为国内首家实现塑料杯成型、堆叠、传送、计数、封装连续自动生产设备的制造商。

我们获得了多项发明专利和实用新型专利，我们的机器已通过CE和ISO9001:2015认证。如今，我们的客户遍布世界各地，他们来自美国、韩国、土耳其、加拿大、俄罗斯、科威特、伊朗、巴西、智利、玻利维亚、沙特阿拉伯、也门、秘鲁等100多个国家和地区。多年来，公司一直坚持以“客户第一，真诚服务”为企业的服务宗旨，欢迎新老客户前来交流合作。

力泰机械依照ISO9001:2015国际质量标准体系和CE认证体系的要求，从产品开发设计、生产制造到销售服务，建立了一套完善、适用而有效的品质保证体系，使可能影响产品质量和工作质量的所有环节均处于严格而有效的监控之下。



Stable Equipment
性能稳定的设备



Superb production technology
精湛的生产工艺



Tailor-made overall solution
量身定制的整体解决方案



PROFESSION COMES FROM RICH EXPERIENCE

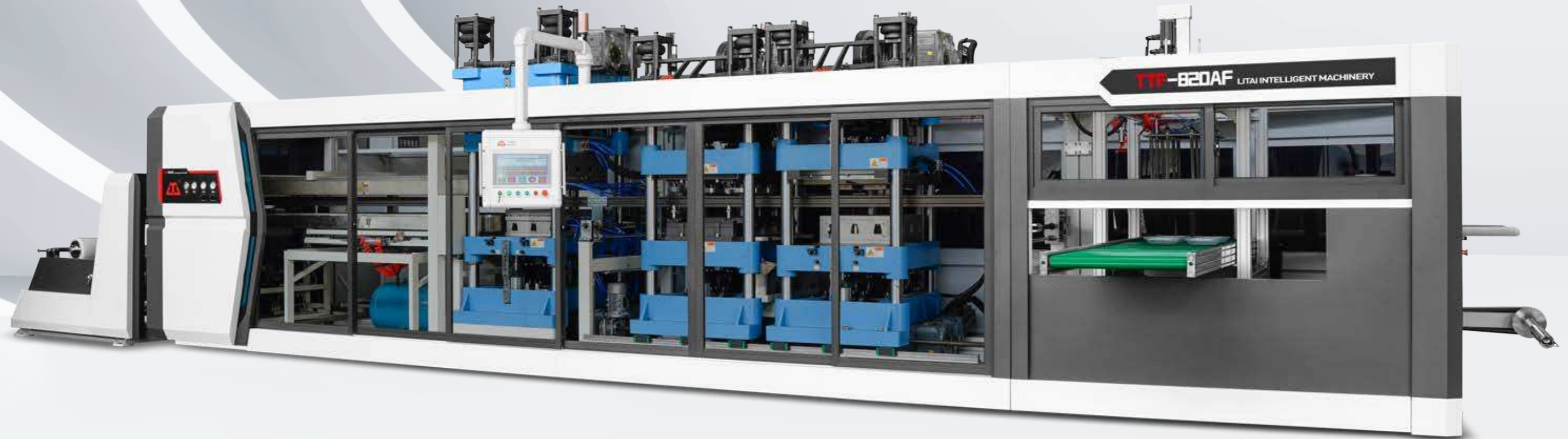
专业源自丰富的经验



TTF-820AF

Fully Automatic Four-Station Plastic Thermoforming Machine

全自动四工位塑料热成型机



INTRODUCTION 简介

TTF series multi-step high-speed thermoforming machine is our latest developed product, which adopts big forming area and high efficiency drive type, which can be suit for most of the plastic products as customer requested. This machine adopts positive and negative pressure integrated thermoforming with Delta brand servo motor driven system and auxiliary stretching function to ensure the high precision in machine normal running and perfect performance on finished output products.

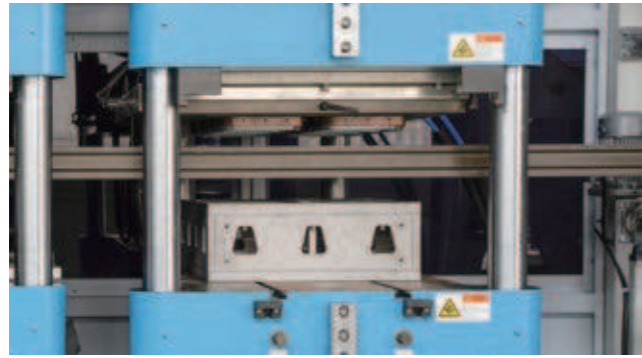
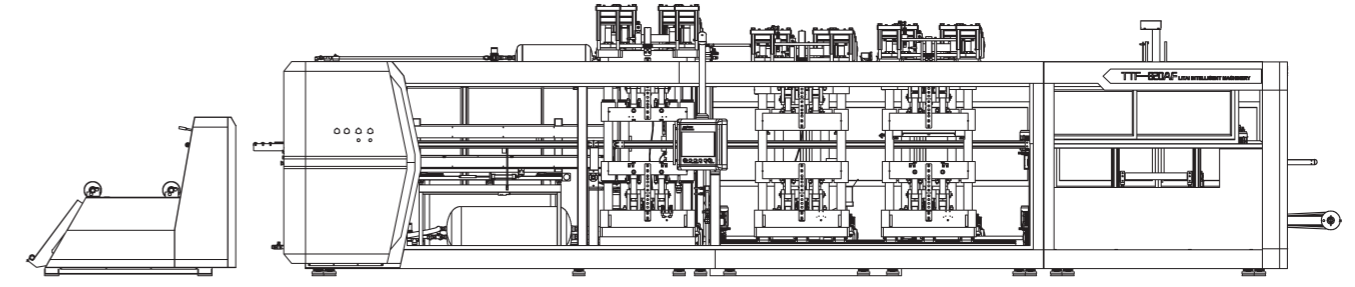
TTF系列多工位高速热成型机是我们最新开发的产品，采用大成型面积和高效传动方式，可根据客户要求适用于大多数塑料制品。该机采用正负压一体热成型，搭配台达品牌伺服电机驱动系统和辅助拉伸功能，保证了机器正常运行的高精度和成品的完美性能。



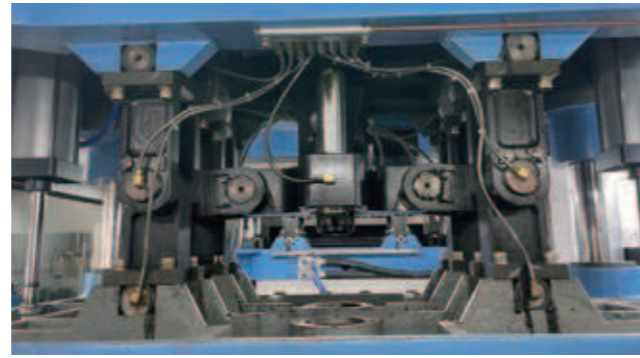
TTF-820AF

Fully Automatic Four-Station Plastic Thermoforming Machine

全自动四工位塑料热成型机



High-power servo motor, has powerful cutting force, that the cutting line can reach 17 meters, to ensure cutting perfect. The movable blade has a positioning guide function, which makes the product cutting more accurate. 大功率伺服驱动，裁切力足，刀线可达17米，保证制品完美切断。活动式的切刀具有定位导向功能，使制品裁切更精准。



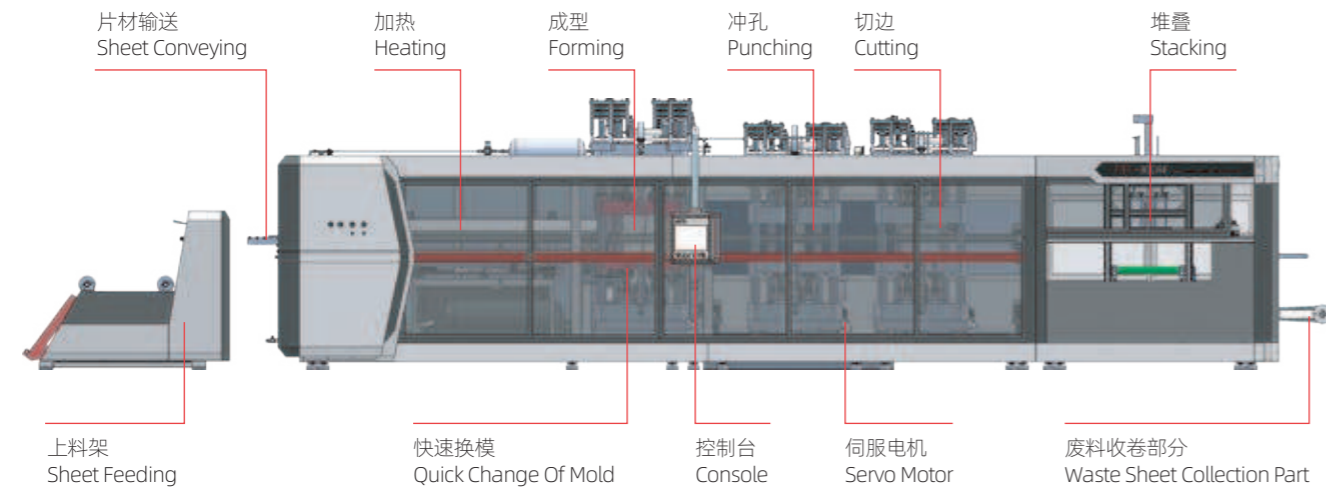
Connection mechanism adopts wear resisting steel bushing, bears more weight, rotates more precise. And the symmetrical swing ensures the parallelism of machine running, to avoid four pillars transverse abrasion, and make the machine more long-life. 摆动的连接机构内部采用耐磨缸套，承重更强大，转动更精准。其对称性又保证了绝佳的平行度，避免了四柱与模台之间的磨损。

EQUIPMENT FEATURES 设备特点

1. Every station is driven by the Servo Motor (Delta, Taiwan) and each servo motor has overload protection for machine's overworking.
2. The toothed chain made of 65#Mn with gear and double sub-chain, water cooling tube inside the chain ensures high cooling efficiency during conveying sheet process.
3. The machine adopts PID temperature system, it shows high precision, and temperature control tolerance < 1°C.
4. The heating tiles adopts internationally renowned brands "Elstein" with fast heating reaction and high thermal effect, energy saving and more safety.
5. Machine sheet conveying track width automatic adjustment. (it's more easy to replace different size of sheet width)
6. The drive structure of the station has a middle-push structure with uniform thrust, compact structure, and high stability. It has advantages in making large layouts.

1. 每个工位都由伺服电机（台达，台湾）驱动，每个伺服电机都有过载保护，以防止机器过度工作。
2. 65#Mn齿链，带齿轮，双副链，链内水冷管，保证输送板材过程冷却效率高。
3. 本机采用PID温度系统，精度高，温度控制公差 < 1°C。
4. 加热砖采用国际知名品牌“爱尔斯坦”，加热反应快，热效率高，节能安全。
5. 机器片材输送轨道宽度自动调节。（更换不同尺寸的纸张宽度更容易）
6. 工位驱动结构为中推结构，推力均匀，结构紧凑，稳定性高。它在制作大型布局方面具有优势。

EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TTF-820AF
Mould Size (Max.)	最大模具尺寸	820*650mm
Forming Depth (Max.)	最大成型深度	140mm
Sheet Thickness	片材厚度	0.2-1.6mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	4.2 m ³ /min
Water Consumption	耗水量	1.0 m ³ /h
Sheet Width (Max.)	最大片材宽度	850mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	246Kw
Heating Power	加热功率	171Kw
Procedure	工序	Forming-punching-cutting-stacking
Dimension	尺寸	L13000*W4300*H2800mm
Weight	重量	About 21.0T

TTF-820A

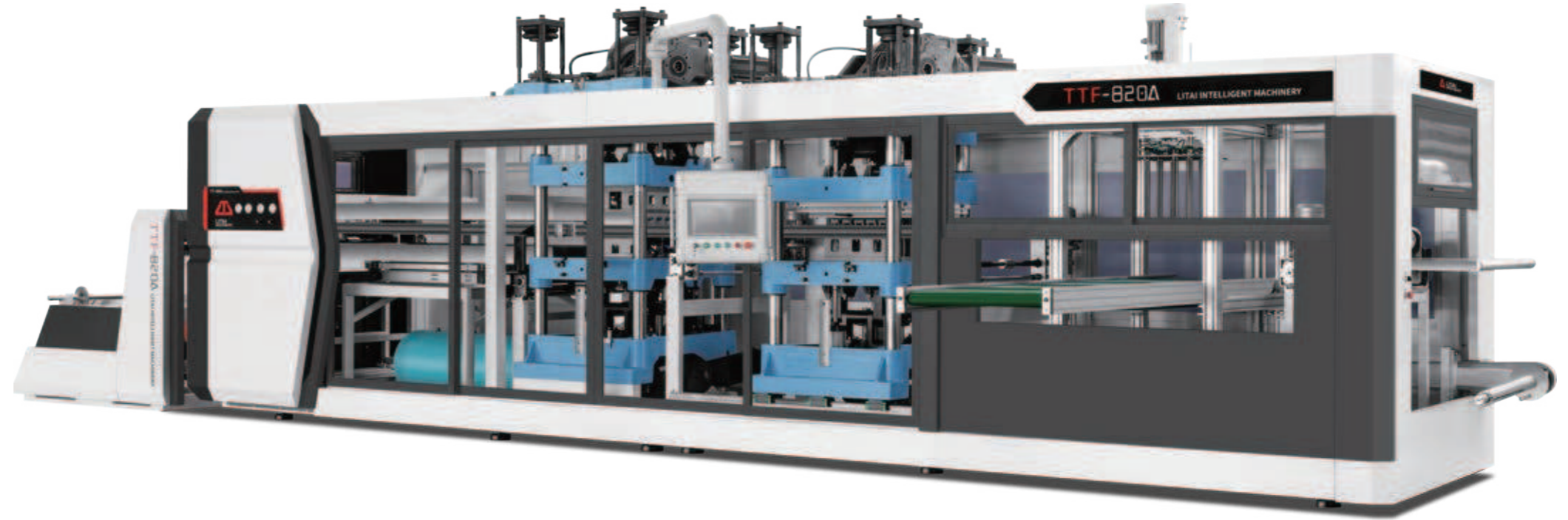
Fully Automatic Three-Station Plastic Thermoforming Machine

全自动三工位塑料热成型机

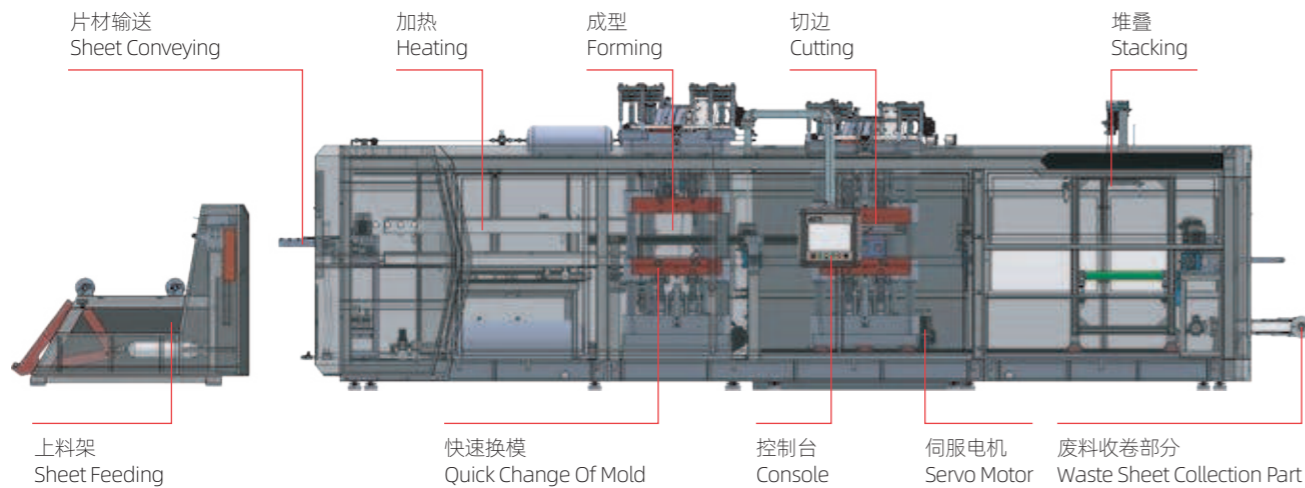
INTRODUCTION 简介

TTF series multi-step high-speed thermoforming machine is our latest developed product, which adopts big forming area and high efficiency drive type, which can be suit for most of the plastic products as customer requested. This machine adopts positive and negative pressure integrated thermoforming with Delta brand servo motor driven system and auxiliary stretching function to ensure the high precision in machine normal running and perfect performance on finished output products.

TTF系列多工位高速热成型机是我们最新开发的产品，采用大成型面积和高效传动方式，可根据客户要求适用于大多数塑料制品。该机采用正负压一体热成型，搭配台达品牌伺服电机驱动系统和辅助拉伸功能，保证了机器正常运行的高精度和成品的完美性能。



EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TTF-820A
Mould Size (Max.)	最大模具尺寸	820*650mm
Forming Depth (Max.)	最大成型深度	140mm
Sheet Thickness	片材厚度	0.2-1.6mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	4.0m ³ /min
Water Consumption	耗水量	0.7m ³ /h
Sheet Width (Max.)	最大片材宽度	850mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	199Kw
Heating Power	加热功率	140Kw
Procedure	工序	Forming-cutting-stacking
Dimension	尺寸	L11800*W4300*H2800mm
Weight	重量	About 16.5T

TTF-520AF

Fully Automatic Four-Station Plastic Thermoforming Machine

全自动四工位塑料热成型机



INTRODUCTION 简介

TTF series full-automatic thermoforming machine is our latest developed core product. The machine combines forming, cutting and stacking into process, widely used and suitable for big forming area of the customer requested, it can produce plastic trays, containers, trays, clamshell cake boxes, lids, etc. The machine is completely driven by servo motor, stable operation, low noise, high efficiency, high quality.

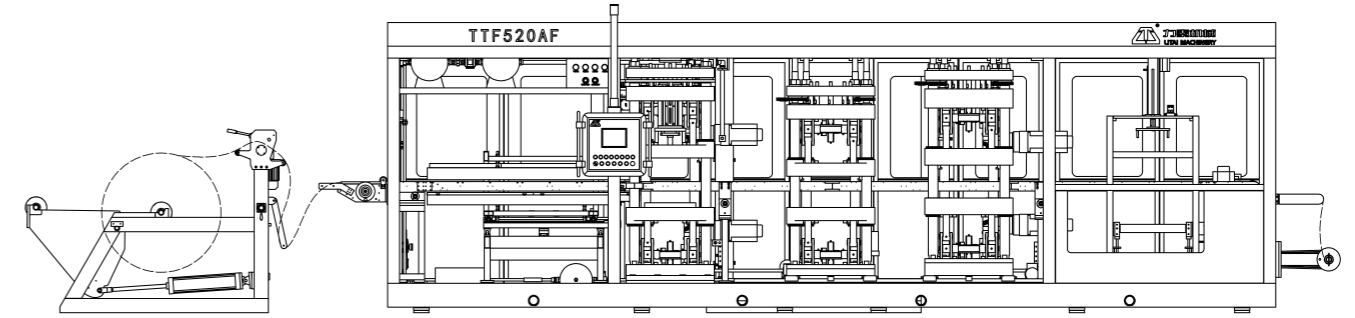
TTF系列全自动热成型机是我们最新开发的核心产品。该机器将成型，冲孔，切割和堆叠过程结合在一起。可以广泛使用并适合大多数客户的要求，它可以生产塑料托盘，容器，盒子，盖子等。机器完全由伺服电机驱动。运行稳定，噪音低，效率高，质量高。



TTF-520AF

Fully Automatic Four-Station Plastic Thermoforming Machine

全自动四工位塑料热成型机



Working stations is supported by four pillars (GCr15 steel, outside is hard chrome plated). Unibody construction of mould plate (QT-600 steel) is manufactured by high precision CNC milling machine. Wear resistant, Super stability, high precision and extend equipment life. 工位由四柱支撑 (Cr15钢, 外镀硬铬), 一体式模台(QT-600钢)由高精度数控铣床制造。因此耐磨, 稳定性好, 精度高, 延长了设备的使用寿命。



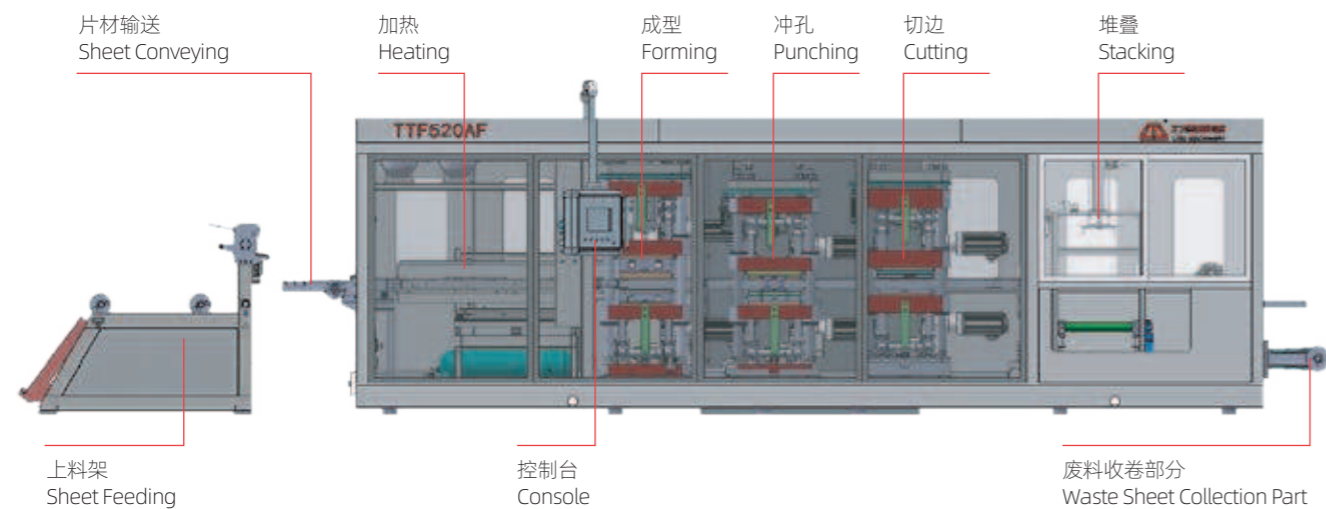
Working station clamping, forming assist stretching, sheet feeding all completely driven by servo motor systems, high speed, low noisy, more accurate and efficient. 工位合模, 成型辅助拉伸, 拉片部分全部由伺服电机驱动, 速度快、噪音低、精度高、效率高。

EQUIPMENT FEATURES 设备特点

1. Every station is driven by the eccentric crank linkage structure.
2. Feeding and heating part have optoelectronic switch in order to prevent error operating from production process.
3. The toothed chain made of 65#Mn, helping convey sheet. Aluminum rails with water cooling, save water.
4. The machine adopts PID temperature system, it shows high precision, and temperature control tolerance < 1°C.
5. Each servo motor has overload protection for machine's overworking.
6. Low barycenter and height of finished products as well as steady running ensures easy operation and friendly viewing.
7. There is an alarm function of the sliding doors.

1. 每个工位均由偏心曲柄连杆机构驱动。
2. 进料和加热部分带有光电开关, 以防止生产过程中的误作。
3. 65# Mn齿形链条, 有助于输送板材。铝制滑轨用水冷却, 节省水。
4. 本机采用PID温度系统, 显示精度高, 控温公差 < 1°C。
5. 每个伺服电机均具有过载保护功能, 以防止机器超负荷作。
6. 成品的低重心和高度以及稳定的运行确保了轻松的操作和友好的观看效果。
7. 滑动门具有警报功能。

EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TTF-520AF
Mould Size (Max.)	最大模具尺寸	520*400mm
Forming Depth (Max.)	最大成型深度	110mm
Sheet Thickness	片材厚度	0.2-1.6mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	3.0 m ³ /min
Water Consumption	耗水量	0.7 m ³ /h
Sheet Width (Max.)	最大片材宽度	550mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	136Kw
Heating Power	加热功率	75kw
Procedure	工序	Forming-punching-cutting-stacking
Dimension	尺寸	L10800*W4650*H2670mm
Weight	重量	About 11.0T

TTF-520A

Fully Automatic Three-Station Plastic Thermoforming Machine

全自动三工位塑料热成型机

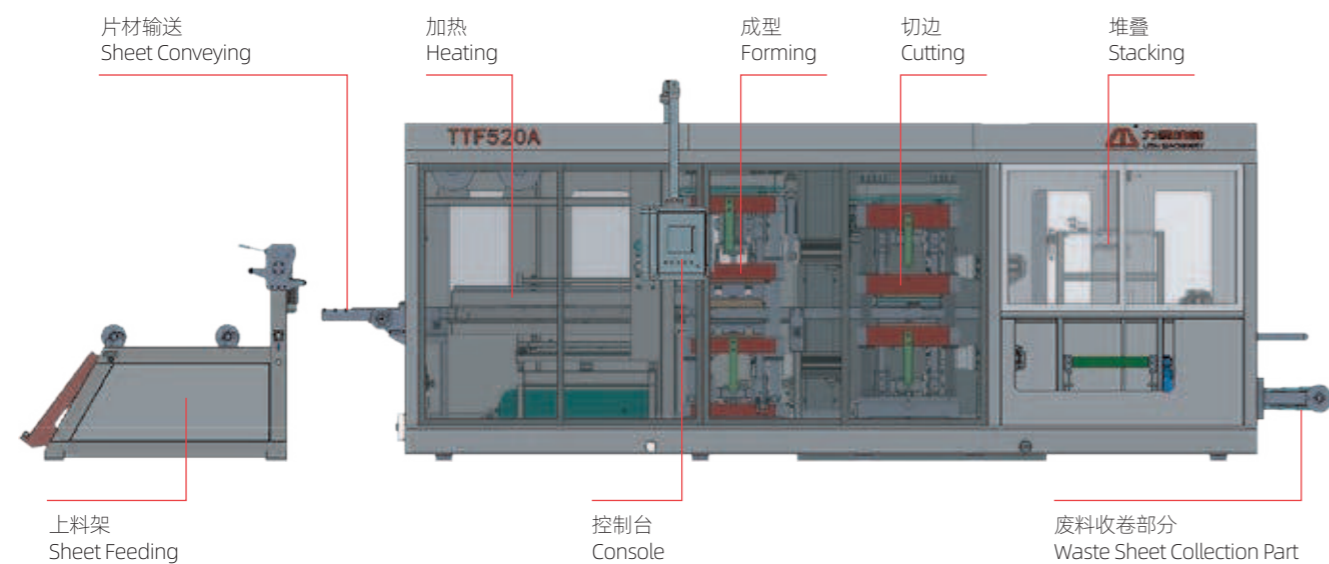
INTRODUCTION 简介

TTF series full-automatic thermoforming machine is our latest developed core product. The machine combines forming, cutting and stacking into process, widely used and suitable for most of the customer requested, it can produce egg trays, fruit boxes, fast food boxes, lids, etc. The machine is completely driven by servo motor, stable operation, low noise, high efficiency, high quality.

TTF系列全自动热成型机是我们最新开发的核心产品。该机集成型、切割、堆叠为一体，用途广泛，适合大多数客户的要求，可生产鸡蛋托、水果盒、快餐盒、盖子等。该机完全由伺服电机驱动，运行稳定，噪音低，效率高，质量高。



EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TTF-520A
Mould Size (Max.)	最大模具尺寸	520*400mm
Forming Depth (Max.)	最大成型深度	110mm
Sheet Thickness	片材厚度	0.2-1.6mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	3.0 m ³ /min
Water Consumption	耗水量	0.7 m ³ /h
Sheet Width (Max.)	最大片材宽度	550mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	120Kw
Heating Power	加热功率	75kw
Procedure	工序	Forming-cutting-stacking
Dimension	尺寸	L8200*W4650*H2670mm
Weight	重量	About 9.0T

TFC-730

Fully Automatic Plastic Cups Tilting Thermoforming Machine

全自动翻转模塑料杯热成型机



INTRODUCTION 简介

TFC-680 flipping-mould plastic cup thermoforming machine adopts positive and negative pressure forming, equipped with full servo motor control under the mould turning system, with two pairs of conjugate CAM drive connecting rod to complete the flipping lifting and cutting of the mold table; It is a new type of equipment developed for high output, low energy consumption, high stability, high automation and other requirements, providing the perfect solution for medium and high capacity disposable cups.

TFC-680型翻转模塑料杯热成型机采用正负压成型，配备全伺服电机控制下模翻转系统，配合两对共轭凸轮驱动连杆完成模台翻转升降和剪切；是针对高产量、低能耗、高稳定、高自动化等要求而开发的新型设备，为中高产能的一次性杯子提供完美的解决方案。



TFC-730

Fully Automatic Plastic Cups Tilting Thermoforming Machine

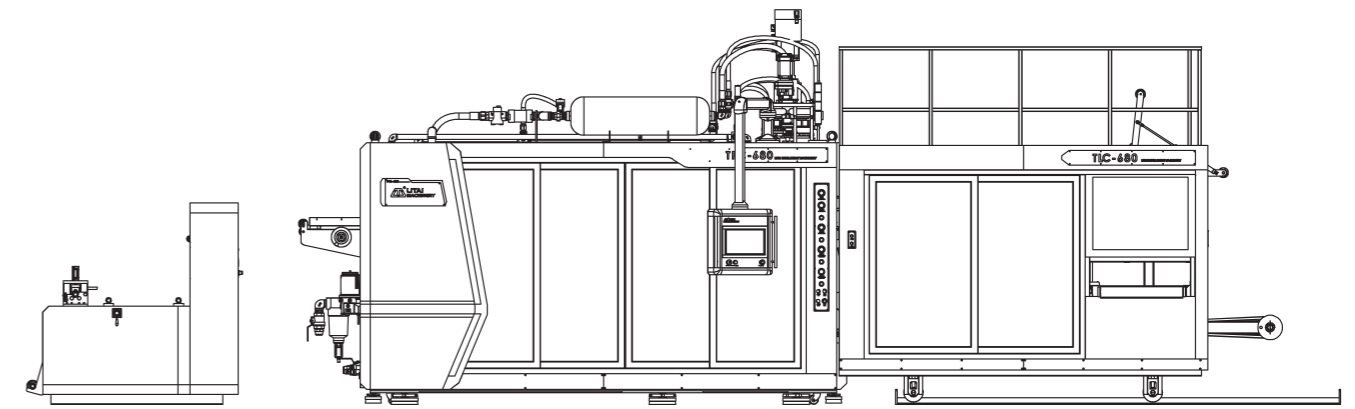
全自动翻转模塑料杯热成型机



The power mechanism of the unit uses two pairs of conjugate cams to drive the connecting rod to complete the flipping, lifting and cutting of the die table.
机组动力机构采用两对共轭凸轮驱动连杆完成模台的翻转升降和剪切。



The automatic turnover structure of the die table is more conducive to the automatic stacking of products and the loading and unloading of the die.
模台的自动翻转结构,更有利于制品的自动堆叠和模具的装卸。

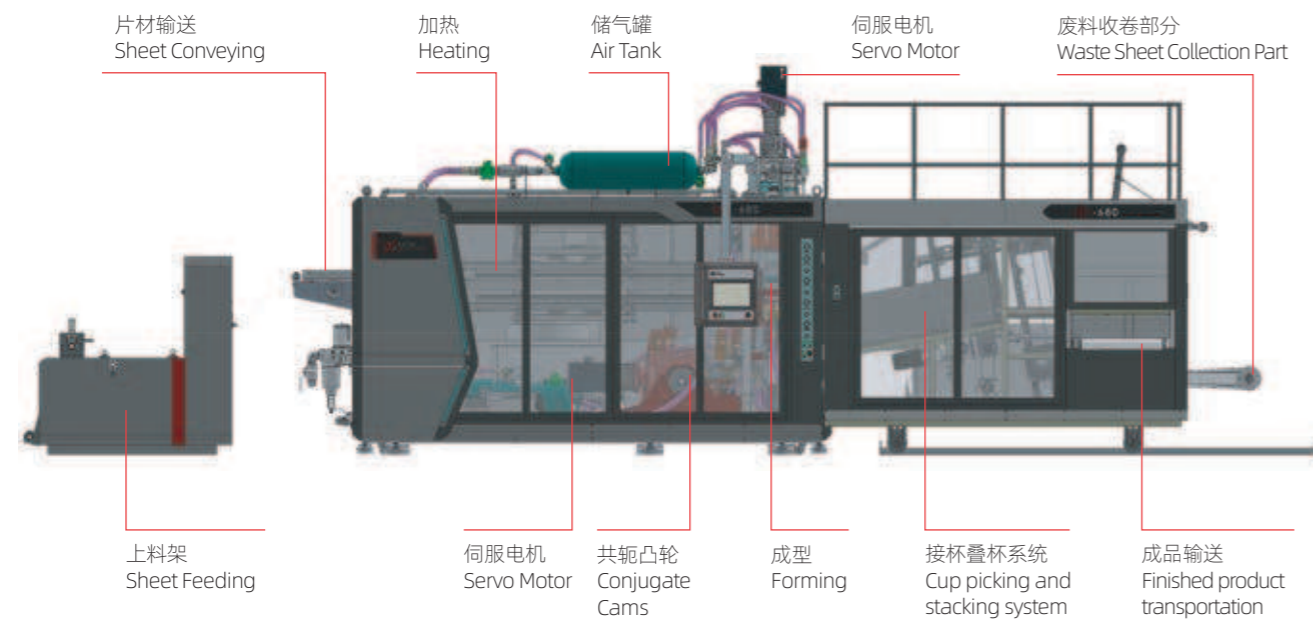


EQUIPMENT FEATURES 设备特点

- 1.The whole system adopts B&R central controller (Chinese and English program), the use of man-machine interface control, its high degree of integration, accurate control, easy operation.
- 2.The direct transmission of the main motor makes the rise and fall of the die more stable, and the die shear noise is small.
- 3.The guide mechanism of the die table adopts 4 guide column structure, good rigidity, accurate positive guiding performance and wear resistance, which helps to extend the service life of the die shear.
- 4.The cup is driven by servo motor and independently developed V-shaped flipping device, which can realize fast suction cup, flipping and stacking, suitable for various calibers and cup height products.

- 1.整个系统采用贝加莱中央控制器(中英文程序),使用人机接口控制,其集成化程度高,控制准确,使用操作方便。
- 2.主电机直联传动使模台的升降更加平稳、模具剪切噪音小。
- 3.模台的导向机构采用4导柱结构,刚性好、导正性能精确、耐磨损,有助于延长模具剪切使用寿命。
- 4.接杯采用伺服电机驱动及自主研发V型翻转装置,可实现快速吸杯、翻转、叠杯,适合各种口径及杯高制品。

EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TFC-730
Mould Size (Max.)	最大模具尺寸	730×320 mm
Forming Depth (Max.)	最大成型深度	180 mm
Sheet Thickness	片材厚度	0.3-2.0 mm
Forming Speed (Max.)	最快成型速度	16-42 times/min
Air Pressure	空气压力	0.8-1.0 Mpa
Air Consumption	耗气量	4-5 m ³ /min
Water Consumption	耗水量	15.6m ³ /min
Sheet Width (Max.)	最大片材宽度	510-760 mm
Suitable Sheet	适用片材	PP、PVC、PET、PS、PLA、etc.
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	188.55 Kw
Heating Power	加热功率	151.75 KW
Dimension	尺寸	L10700*W3000*H3215mm
Weight	重量	About 15T

TQC-750S

Fully Automatic Plastic Cup Thermoforming Production Line

全自动塑料杯热成型生产线



INTRODUCTION 简介

TQC-750S Plastic thermoforming machine is driven by full servo motors, including sheet feeding, plug stretching and mould clamping, PLC for program, touch screen for operation, stable, low noise, high efficiency, suitable for producing disposable products like plastic bowls, cups, trays, plates, covers, lids, containers, etc.

本设备采用伺服电机送片，拉伸及模台驱动，PLC编程，触摸屏操作，运作稳定，低噪音，高效率，适用于生产各种一次性产品，如塑料碗，塑料杯，托盘，杯盖，快餐盒等。

TQC-750S

Fully Automatic Plastic Cup Thermoforming Machine

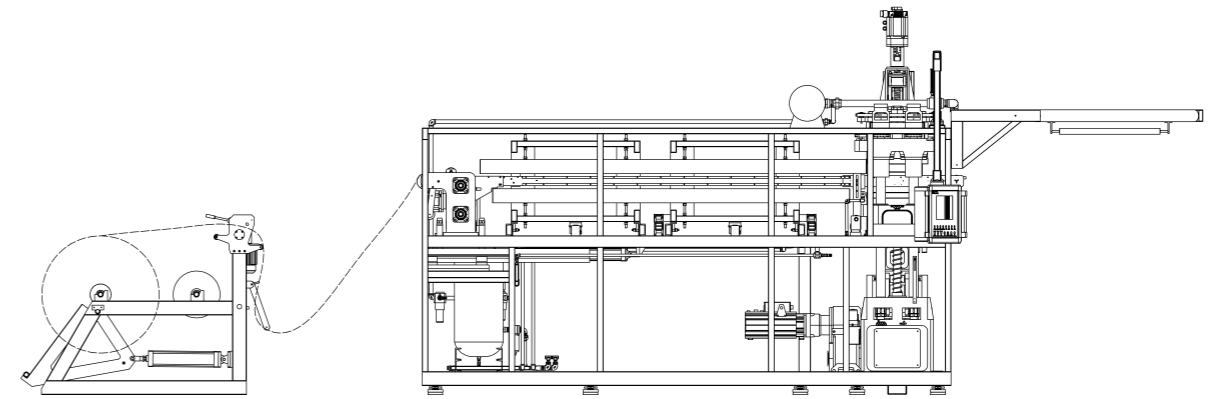
全自动塑料杯热成型机



The oven has a length of almost 7 times the width of the forming area make the machine has a high production efficiency.
炉子长度约是成型区域宽度的7倍，使机器具有很高的生产效率。



Machine feeding, stretching and mould clamping adopt servo motors to ensure stable and efficient operation, high operating precision reduce the failure rate, low noise, save energy and stable product quality.
机器送片，拉伸与模台驱动采用伺服电机，保证机器运行稳定高效，低噪音，节能，运行精度高，制品质量稳定。

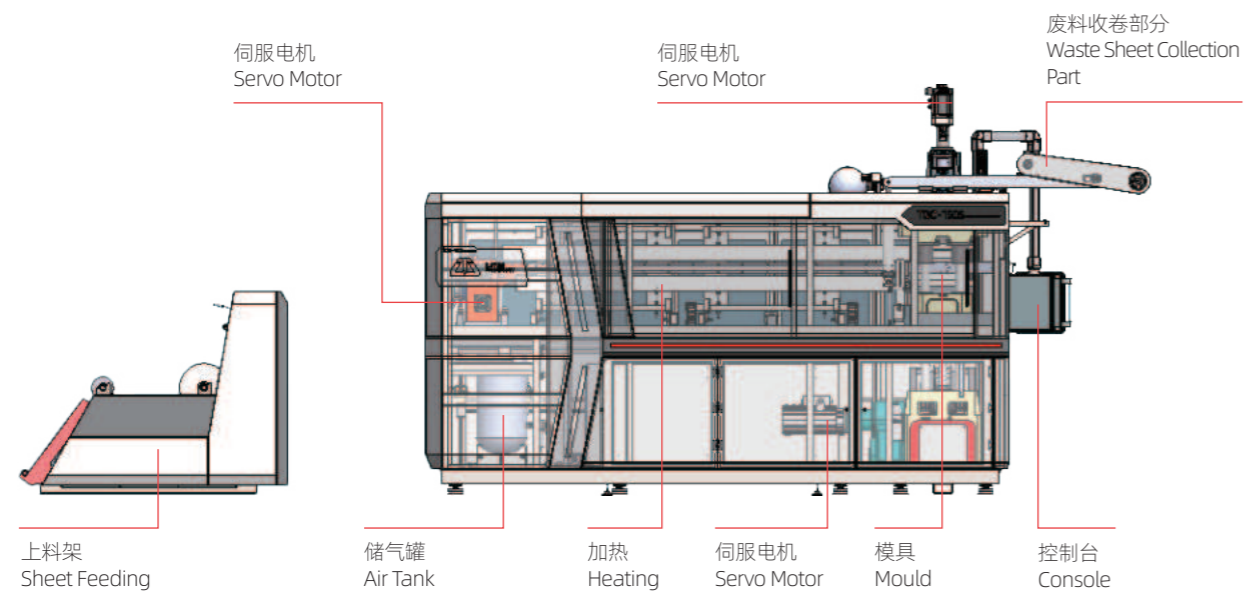


EQUIPMENT FEATURES 设备特点

1. Automatic sheet feeder with square steel structure, high wear resistance, more stable, efficiently, the accuracy of feeding size could be improved by automatic feeding.
2. Material holder combines with the machine, which is controlled by cylinder, can move up and down. It is easy for operation, and saving more manual work.
3. Machine adopts PID temperature system, it shows high precision, and temp control tolerance < 1°C.
4. Machine feeding, stretching and mould clamping adopt servo motors to ensure stable and efficient operation, high operating precision reduce the failure rate, low noise, save energy and stable product quality.

1. 自动上料机采用方钢结构，耐磨性高，更稳定、高效，自动上料可提高送料尺寸精度。
2. 料架与机器结合，由气缸控制，可上下移动。操作方便，节省更多空间。
3. 机器采用PID温度系统，精度高，控温公差 < 1°C。
4. 机器送片，拉伸与模台驱动采用伺服电机，保证机器运行稳定高效，低噪音，节能，运行精度高，制品质量稳定。

EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TQC-750S
Mould Size (Max.)	最大模具尺寸	750*480mm
Forming Depth (Max.)	最大成型深度	180mm
Sheet Thickness	片材厚度	0.3-1.8mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	3.0m ³ /min
Water Consumption	耗水量	0.7m ³ /h
Sheet Width (Max.)	最大片材宽度	760mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	173Kw
Heating Power	加热功率	146Kw
Dimension	尺寸	L9000*W2305*H3190mm
Weight	重量	About 7.7T

TQC-750

Fully Automatic Plastic Cup Thermoforming Machine

全自动塑料杯热成型机



INTRODUCTION 简介

Plastic cup thermoforming machine is our high quality developed product, sheet feeding and stretching part are driven by servo motor. Machine produces disposable products, such as plastic cup, bowl, lid and box, through the workflow of sheet feeding, sheet heating, forming and cutting, widely used and suitable for most of the customer requested. PLC for program, manual interface for operation, stable, low noise, and high efficiency.

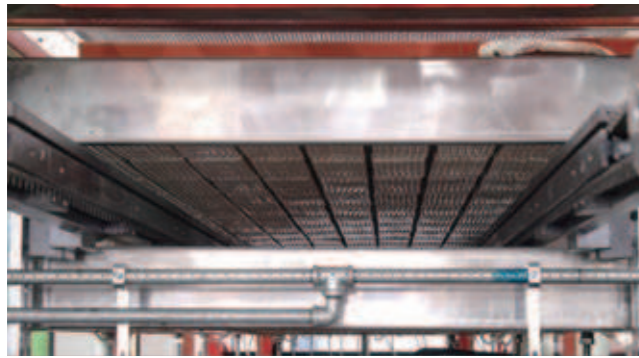
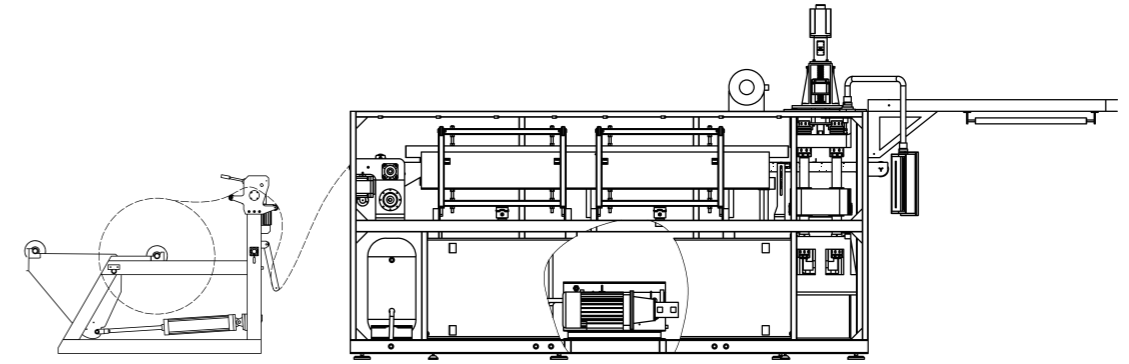
塑料杯热成型机是我们开发的高质量产品，进纸和拉伸部分由伺服电机驱动。该机器通过片材进给，片材加热，成型，切割和吹塑的工作流程生产一次性产品，例如塑料杯，碗，盖和盒子，广泛使用并适合大多数客户的要求。PLC程序，手动界面操作，稳定，低噪音，高效率。



TQC-750

Fully Automatic Plastic Cup Thermoforming Machine

全自动塑料杯热成型机



Long enough oven, Max speed can reach 25 times/min when making PP material products on this machine.
足够长的电炉，使这台机器在做PP材料时最快速度可以达到25次/分。



The forming part is driven by hydraulic system, which is reliable and steady. And stretching, sheet feeding part are driven by servo motor, which makes finished products size more accurate and the bottom more uniform.

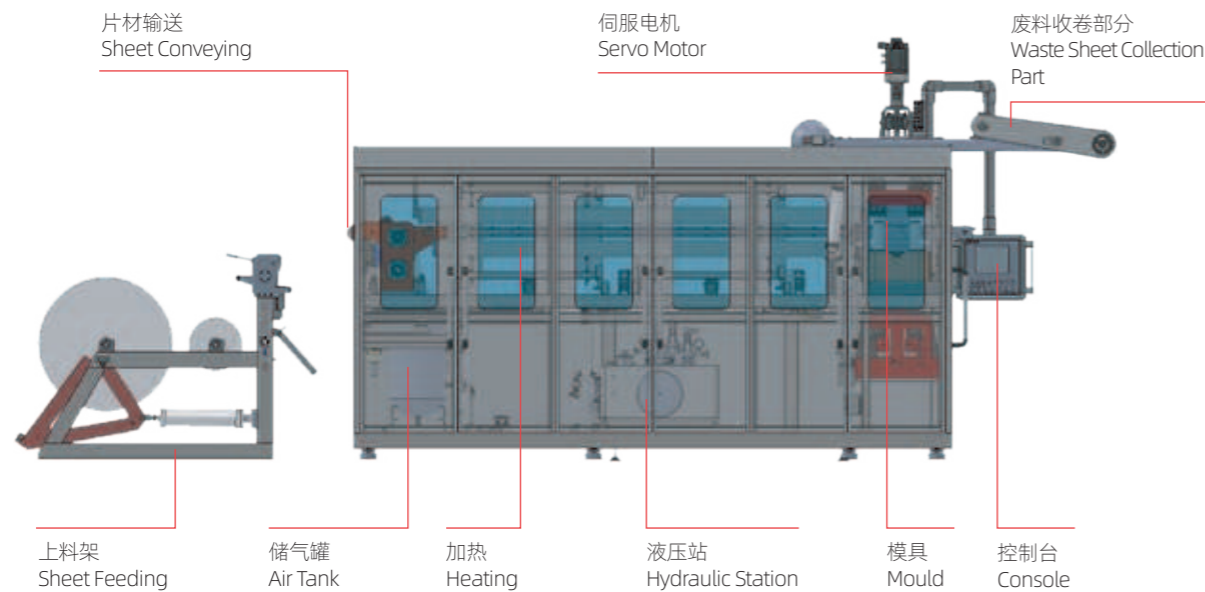
整机采用液压系统驱动，稳定可靠。但拉伸和拉片部分由伺服电机驱动，使成品尺寸更准确，底部更均匀。

EQUIPMENT FEATURES 设备特点

1. Automatic sheet feeder with square steel structure, high wear resistance, more stable, efficiently, the accuracy of feeding size could be improved by automatic feeding.
2. Material holder combines with the machine, which is controlled by cylinder, can move up and down. It is easy for operation, and saving more space.
3. Machine adopts PID temperature system, it shows high precision, and temp control tolerance < 1°C.
4. Movably mould device is conveniently to assemble and dismantle mold, and the vibration of the machine could be reduced by machine's counterbalance valve controls the opening and closing speed, good stability, conducive to forming.

1. 自动送纸机采用方钢结构，耐磨性高，更稳定、高效，自动送纸可提高送纸尺寸精度。
2. 料架与机器结合，由气缸控制，可上下移动。操作方便，节省更多空间。
3. 机器采用PID温度系统，精度高，控温公差 < 1°C。
4. 活动式模具装置，装卸模具方便，通过机器平衡阀控制开合速度，减少机器振动，稳定性好，利于成型。

EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TQC-750
Mould Size (Max.)	最大模具尺寸	750*480mm
Forming Depth (Max.)	最大成型深度	125-180mm
Sheet Thickness	片材厚度	0.3-1.8mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	3.0m ³ /min
Water Consumption	耗水量	0.7m ³ /h
Sheet Width (Max.)	最大片材宽度	760mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	173Kw
Heating Power	加热功率	146Kw
Dimension	尺寸	L8500*W2200*H3200mm
Weight	重量	About 6.5T

TQC-650B

Fully Automatic Plastic Cup Thermoforming Machine

全自动塑料杯热成型机

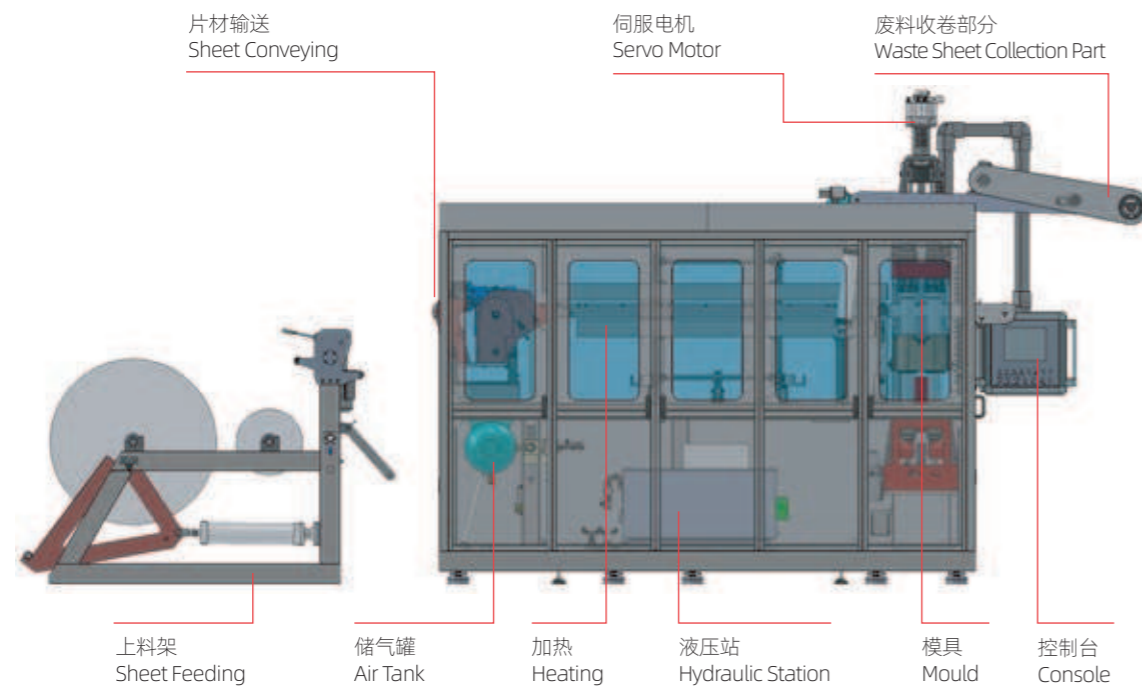
INTRODUCTION 简介

Plastic thermoforming machine adopts servo motor for sheet feeding and plug stretching, PLC for program, touch screen for operation, stable, low noise, high efficiency, suitable for producing disposable products like plastic bowls, cups, trays, plates, covers, lids, containers, etc.

本设备采用伺服电机送片及拉伸，PLC编程，触摸屏操作，运作稳定，低噪音，高效率，适用于生产各种一次性产品，如塑料碗，塑料杯，托盘，杯盖，快餐盒等。



EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TQC-650B
Mould Size (Max.)	最大模具尺寸	650*300mm
Forming Depth (Max.)	最大成型深度	125-180mm
Sheet Thickness	片材厚度	0.3-1.8mm
Forming Speed (Max.)	最快成型速度	30times/min
Air Pressure	空气压力	0.6-0.8mpa
Air Consumption	耗气量	2.0m ³ /min
Water Consumption	耗水量	0.5m ³ /h
Sheet Width (Max.)	最大片材宽度	660mm
Suitable Sheet	适用片材	PP, PS, HIPS, PET, PVC, PLA
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Rated Power	额定功率	98Kw
Heating Power	加热功率	78Kw
Dimension	尺寸	L7000*W2000*H3100mm
Weight	重量	About 5T

TX-720C

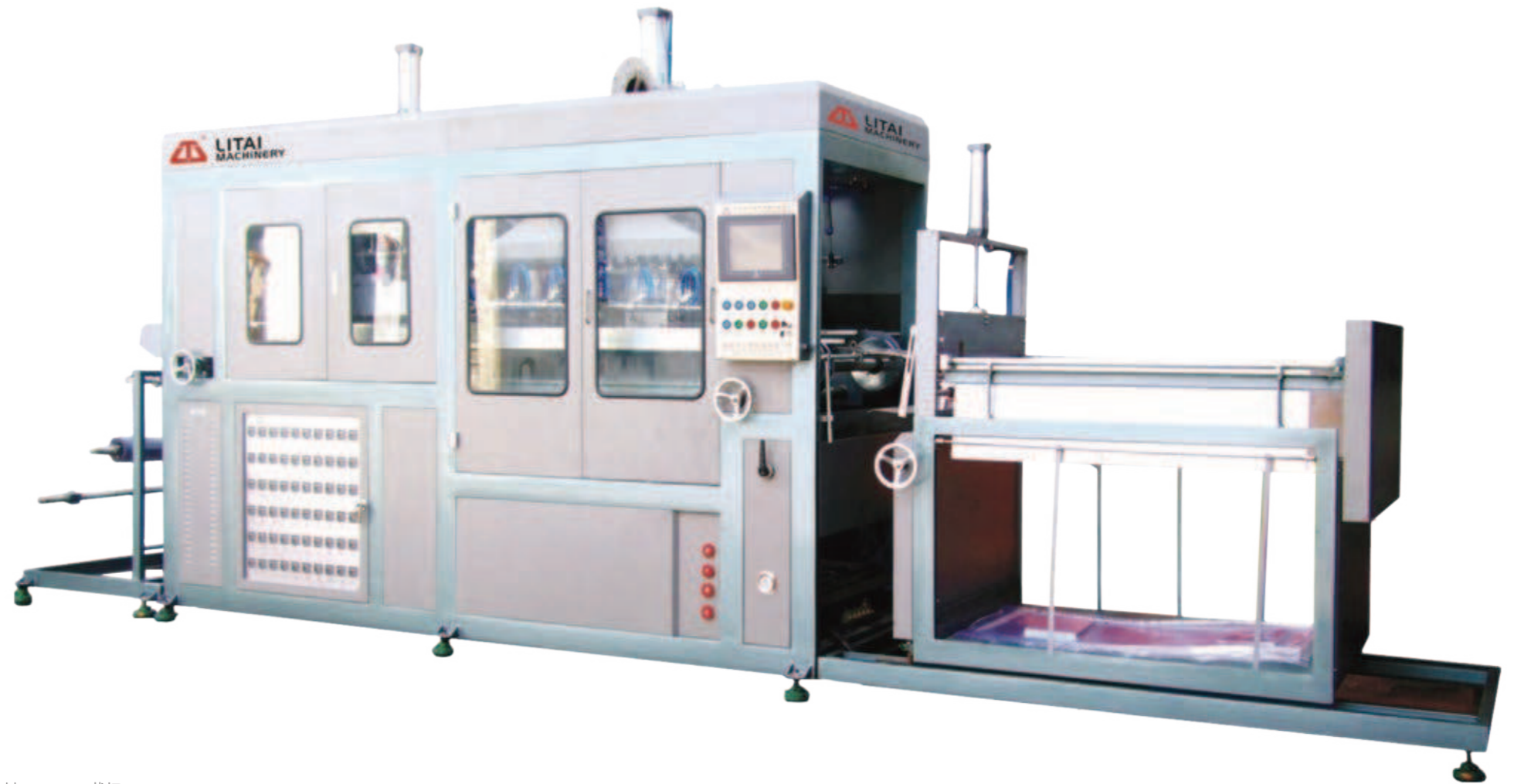
Vacuum Forming Machine

真空成型机

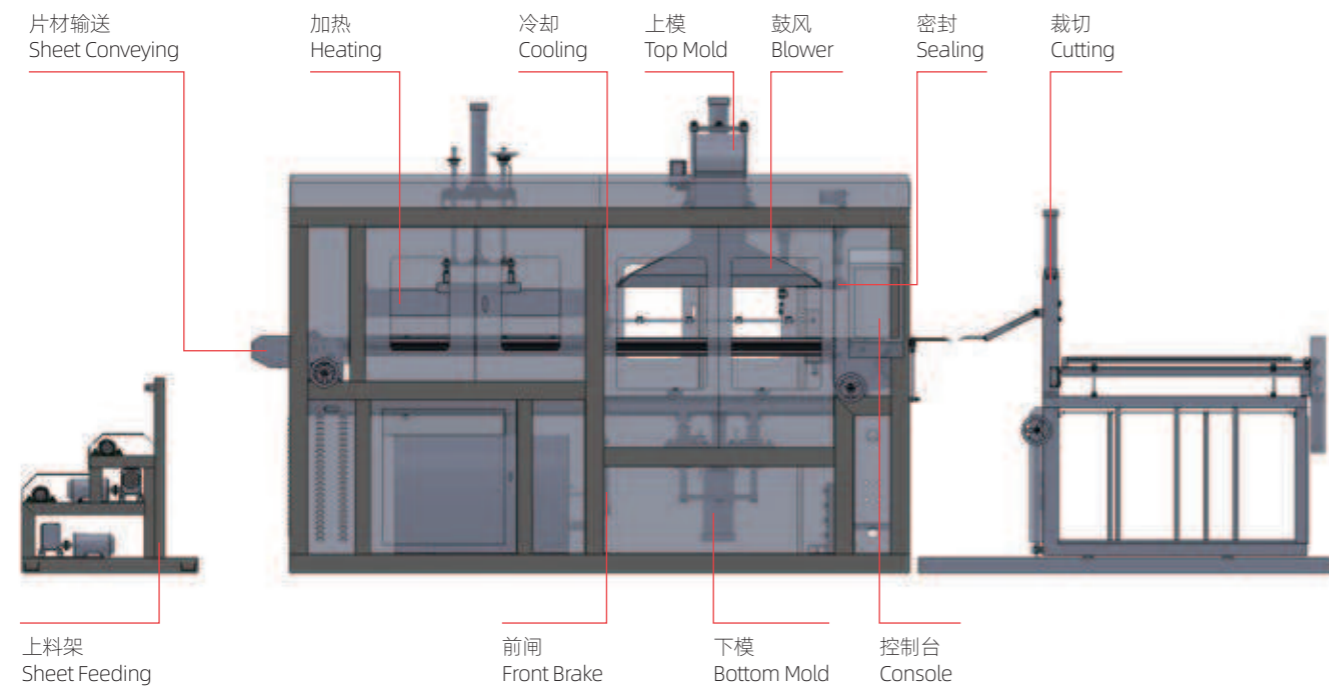
INTRODUCTION 简介

This machine finished products are widely used in packing toys, hardware, cosmetics, electronic products (batteries, electronic components ,etc.), foodstuff (fruit pallets, snack boxes, biscuit boxes, food dishes, trays, etc), medicines, etc.

本设备生产的产品适用于包装玩具、五金、化妆品、电子产品（电池、电子元件等）、食品（水果托盘、快餐盒、饼干盒等）、药品等。



EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TX-720C
Forming Size	成型尺寸	W: 420-720mm /L: 760-1220mm
Cooling System	冷却系统	Blower*2 / Sprayer*10
Vacuum Pump	真空泵	100m ³ /hr. (4hp)
Rated Power	额定功率	40kw
Working Speed	工作速度	200-600 times/hour
Power Supply	电源	AC 380V,50Hz, Three-phase, Four-wire
Dimension	尺寸	L6500*W1300*H2500mm
Weight	重量	About 2.5T

TJP-750E

PET/PLA Single-Layer Sheet Extrusion Line

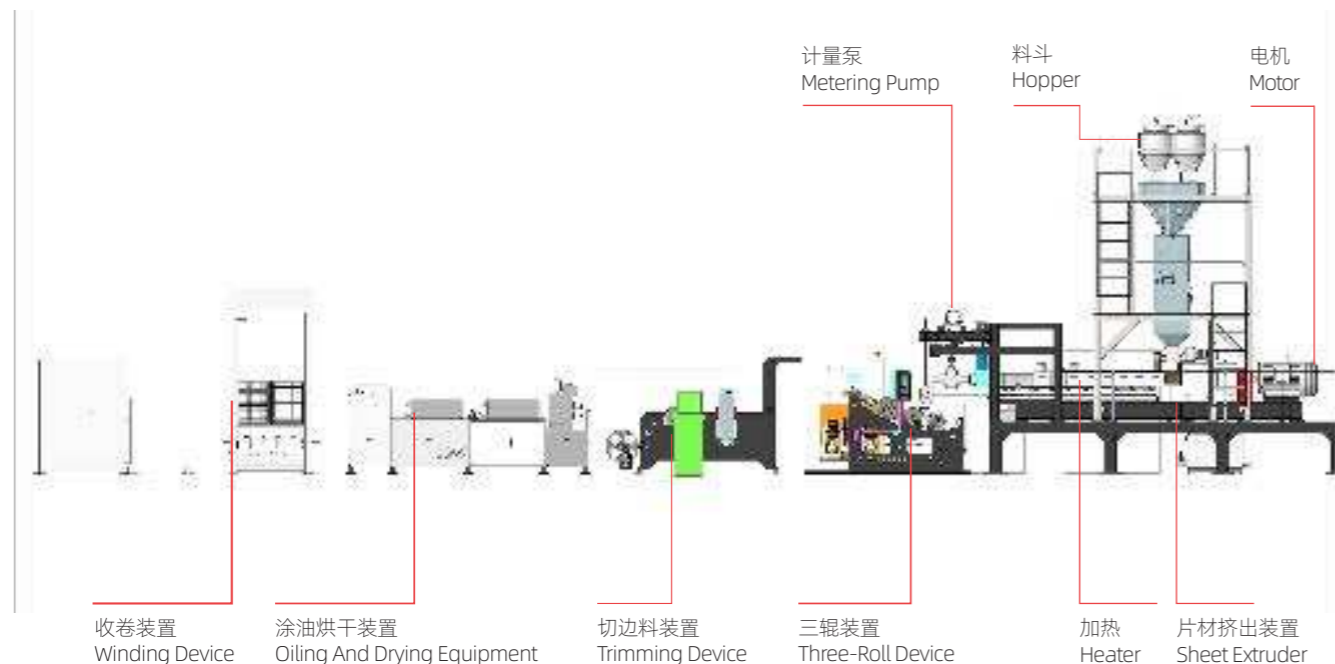
PET/PLA单层片材机



TJP series is a PET sheet machine that integrates mechanical, electrical, pneumatic and intelligent control. The main machine adopts a twin-screw structure and a combination of multiple threaded components to meet the requirements of different plasticization requirements; the three rollers are driven by servo motors, which are low-noise and high-efficiency; and are suitable for the production of secondary materials, safe and environmentally friendly; the whole machine adopts PLC control to achieve automatic control of parameter setting, data calculation and feedback, alarm and other functions.

TJP系列是集机、电、气、智能化控制于一体的PET片材机。主机采用双螺杆结构，多螺纹元件组合，适应不同塑化要求特点；三辊采用伺服电机驱动，低噪音，高效率；并且应用于二次料的生产，安全环保；整机采用PLC控制，实现参数设置、数据运算及反馈、报警等功能的自动化控制。

EQUIPMENT STRUCTURE 设备结构



EQUIPMENT FEATURES 设备特点

- 1. Highly automated production**
Automated production is achieved through continuous processes such as extrusion, three-roll forming, traction, trimming, and winding, reducing manual intervention
- 2. Intelligent circulation temperature control system**
The mold temperature part achieves precise temperature control through a chiller, heating tank, and circulating water circuit to ensure stable sheet forming
- 3. High-efficiency and energy-saving design**
The main machine is equipped with a variable frequency motor, combined with inverter control technology to reduce energy consumption and improve operating efficiency
- 4. Modular structure design**
Functional modules (such as extruder, cooling rack, winding car) are independently adjustable, which is convenient for maintenance and process adjustment
- 5. Accurate raw material processing**
Configure a screen changer to filter impurities, and cooperate with a metering pump to evenly feed the material to ensure the purity and thickness consistency of the sheet
- 6. Edge material recovery function**
Equipped with a trimming device and an edge material winding mechanism, it automatically cuts off excess edge materials and recycles them to reduce raw material waste

- 1.高度自动化生产**
通过挤出、三辊成型、牵引、切边、收卷等连续工序实现自动化生产，减少人工干预
- 2.智能循环温控系统**
模温部分通过冷水机、加热罐及循环水路实现温度精确调控，保障片材稳定成型
- 3.高效节能设计**
主机搭载变频电机，结合变频器控制技术，降低能耗并提升运行效率
- 4.模块化结构设计**
功能模块（如挤出装置、冷却架、收卷车）独立可调，便于维护和工艺调整
- 5.精准原料处理**
配置换网器过滤杂质，配合计量泵均匀送料，保障片材纯净度与厚度一致性
- 6.边料回收功能**
配备切边装置和边料收卷机构，自动切除多余边料并回收利用，减少原料浪费

MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TJP750E
Suitable Sheet	适用片材	PET、PLA
Sheet Width (Max.)	最大片材宽度	750mm
Sheet Thickness	片材厚度	0.2-1.8mm
Screw Rod Dia	螺杆直径	Twin Screw 75mm
Screw L/D Ratio	螺杆长径比	40:1
Max. Output	最大产量	400kg/hour
Main Motor Power	主机功率	132kw
Power Supply	电源	AC 380V,50Hz, Three-phase, Four-wire
Dimension	尺寸	L22000*W3615*H5000mm
Weight	重量	About 17T

TJ-750E

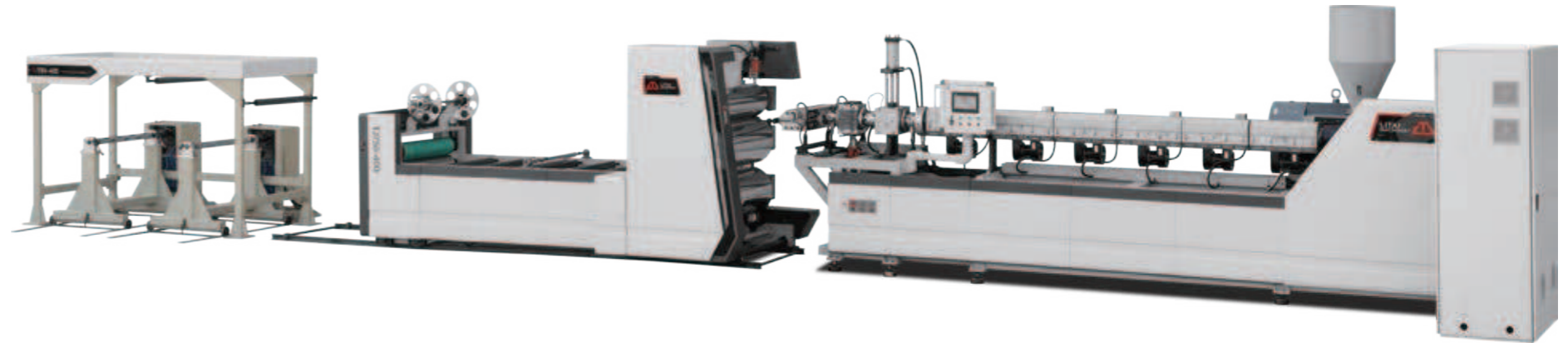
Single Layer PP/PS Sheet Extruder

单层PP/PS片材机

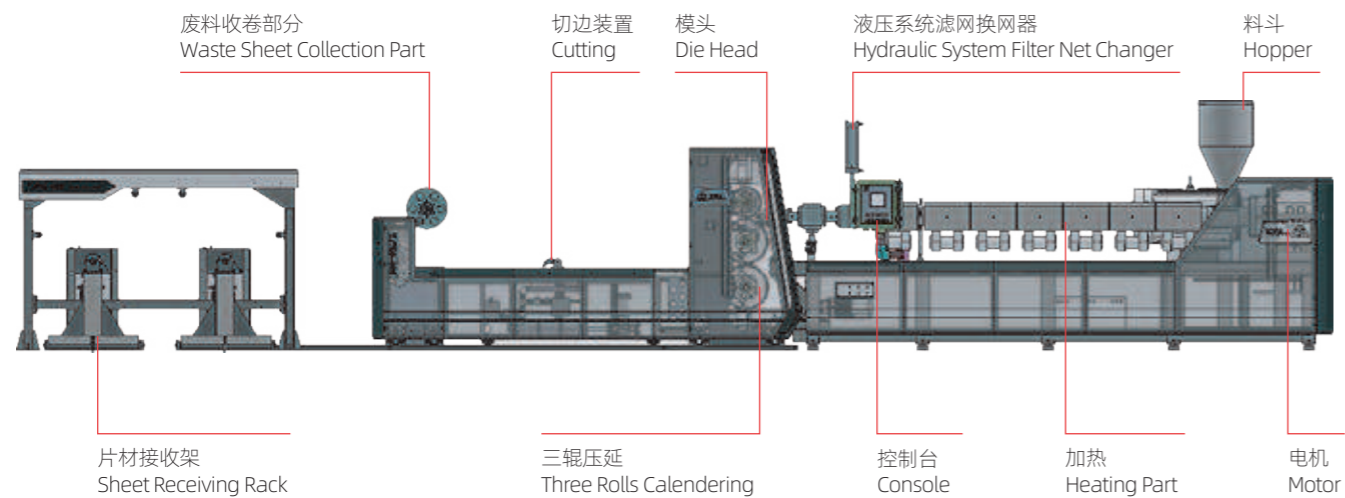
INTRODUCTION 简介

The sheet extruder is composed of extrusion, calendaring, traction and rolling. The main parts are abrasion resistant, resistant to corrosion, high-temperature resistant by high quality specially-treated. Low resistance force in die head extruding channel makes sheet thickness evenly, the internal spiral tank in three rollers ensures an effective cooling and it is easy to change and install net changer with the hydraulic pressure unit, no need to stop machine. The machine extrudes PP/PS granule to PP/PS sheet with single color, which is used for producing plastic products by plastic thermoforming machines, like cups, food container, trays, dishes, bowls, lids, etc.

片材挤出机由挤出、压延、牵引和轧制组成。主要部件经优质特殊处理，耐磨、耐腐蚀、耐高温。模头挤出通道阻力小，板材厚度均匀，三辊内部螺旋槽确保有效冷却，液压装置更换和安装换网器方便，无需停机。该机将PP/PS颗粒挤出成单色PP/PS片材，用于塑料热成型机生产塑料制品，如杯子、食品容器、托盘、盘子、碗、盖等。



EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TJ-750E
Suitable Sheet	适用片材	PP,PS
Sheet Width (Max.)	最大片材宽度	750mm
Sheet Thickness	片材厚度	0.3-2.0mm
Screw Rod Dia	螺杆直径	125mm
Screw L/D Ratio	螺杆长径比	35:1
Max. Output	最大产量	400kg/hour
Main Motor Power	主机功率	132kw
Power Supply	电源	AC 380V,50Hz, Three-phase, Four-wire
Dimension	尺寸	L15388*W3615*H2900mm
Weight	重量	About 12T

TJ-750D

Single Layer PP/PS Sheet Extruder

单层PP/PS片材机

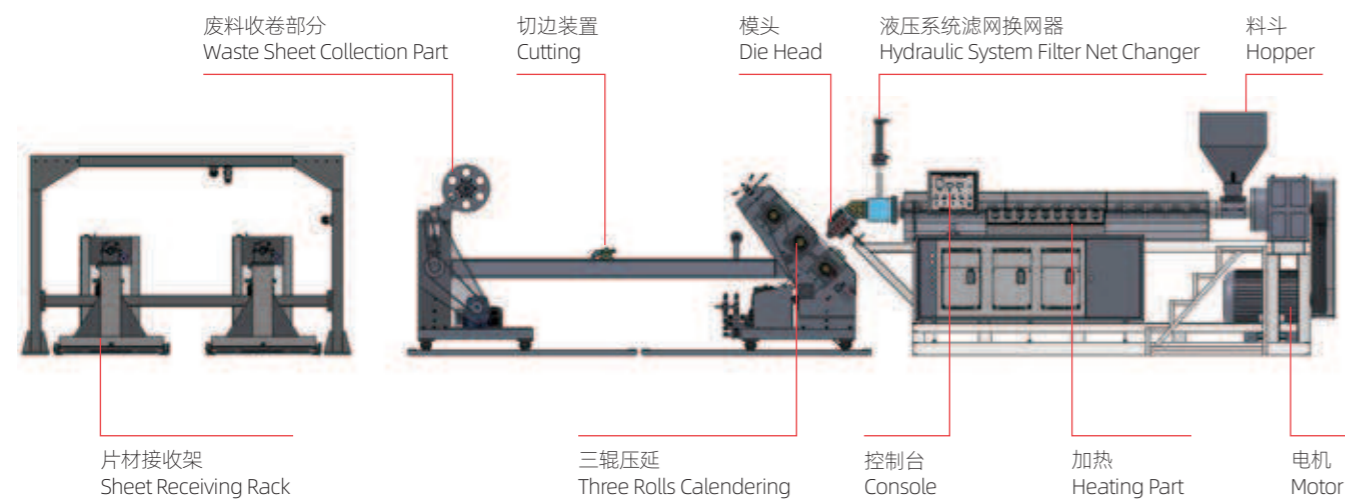
INTRODUCTION 简介

The sheet extruder is composed of extrusion, calendaring, traction and rolling. The main parts are abrasion resistant, resistant to corrosion, high-temperature resistant by high quality specially-treated. Low resistance force in die head extruding channel makes sheet thickness evenly, the internal spiral tank in three rollers ensures an effective cooling and it is easy to change and install net changer with the hydraulic pressure unit, no need to stop machine. The machine extrudes PP/PS granule to PP/PS sheet with single color, which is used for producing plastic products by plastic thermoforming machines, like cups, food container, trays, dishes, bowls, lids, etc.

片材挤出机由挤出、压延、牵引和轧制组成。主要部件经优质特殊处理，耐磨、耐腐蚀、耐高温。模头挤出通道阻力小，板材厚度均匀，三辊内部螺旋槽确保有效冷却，液压装置更换和安装换网器方便，无需停机。该机将PP/PS颗粒挤出成单色PP/PS片材，用于塑料热成型机生产塑料制品，如杯子、食品容器、托盘、盘子、碗、盖等。



EQUIPMENT STRUCTURE 设备结构



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TJ-750D
Suitable Sheet	适用片材	PP,PS
Sheet Width (Max.)	最大片材宽度	770mm
Sheet Thickness	片材厚度	0.3-2.0mm
Screw Rod Dia	螺杆直径	110mm
Screw L/D Ratio	螺杆长径比	32:1
Max. Output	最大产量	240kg/hour
Main Motor Power	主机功率	75kw
Power Supply	电源	AC 380V,50Hz, Three-phase, Four-wire
Dimension	尺寸	L14000*W2600*H1800mm
Weight	重量	About 8T

ASSISTIVE EQUIPMENT YOU MAY NEED

您可能需要的辅助设备



Manipulator

机械手

Model	型号	ZX950
Arm Form	手臂形式	Servo (伺服)
Vertical Stroke	上下行程	2.2kw
Pull Out Stroke	引拔行程	125kg
Extract	取物	Air-driven (气动)
Working Pressure	工作气压	0.5mpa
Total Power	总功率	2.2kw
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Weight	重量	About 500kg

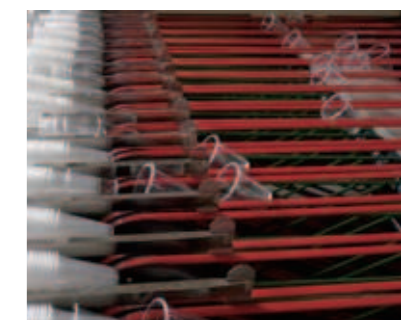


Belt Type Cup Stacking Machine

带式叠杯机

Model	型号	TD-670A	TD-750
Production Speed	生产速度	500 pcs/min	1000 pcs/min
Rated Power	额定功率	1.1kw	2.2kw
Specification Requirement	规格要求	Height is bigger than diameter 高度大于直径	

Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire	
Dimension	尺寸	L4000*W1250*H1860mm	L4200*W1750*H1900mm
Weight	重量	About 700kg	About 900kg



Counting, Packing And Sealing Machine

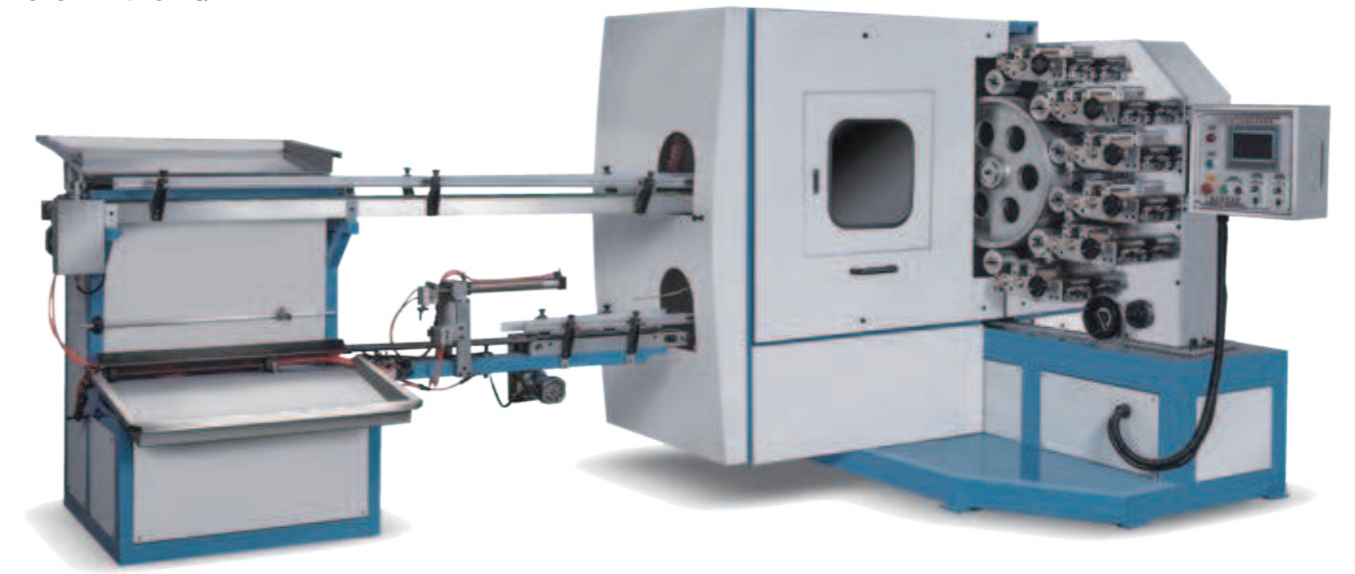
计数包装机

Model	型号	TL-1000	Packaging Speed	最快包装速度	10-30 bags/min
Packing Type	包装类型	H-type Three-side sealing	Rated Power	额定功率	3.8kw
Film Thickness	薄膜厚度	0.018mm-0.06mm	Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Max. Film Width	最大薄膜宽度	420mm	Dimension	尺寸	L5500*W1200*H1080mm
Packaging Length	包装长度	250mm-800mm	Weight	重量	About 680kg
Packaging Height	包装高度	≤60-95mm			



Cup Printing Machine

曲面印杯机



Plastic Cup Curling Machine

塑料杯卷边机

Model	型号	TJ-135	Rated Power	额定功率	11.5kw
Max. Output	最大产量	300-400pcs/min	Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Cup Rim Diameter	杯沿直径	Ø50-120mm	Dimension	尺寸	L5200*W1100*H1300mm
Air Consumption	耗气量	0.3m³/min	Weight	重量	About 900kg



MAIN TECHNICAL PARAMETERS 主要技术参数

Model	型号	TJYT-6A标准版	TJYT-6A加大版
Printing Color	颜色	6 colors	6 colors
Suitable Printing Material	印刷材料	PP, PS, PET, HDPE, etc	PP, PS, PET, HDPE, etc
Printing Speed (Depending On Different Cup)	印刷速度 (根据杯子不同而不同)	150-200 pcs/min	150-200 pcs/min
Printing Length	印刷长度	300mm	400mm
Printing Area Height	印刷面积高度	20-95mm	35-160mm
Printing Area Diameter	印刷面积口径	50-95mm	65-150mm
Printing Cup Diameter	杯子直径	65-120mm	60-160mm
Printing Mould Roller Diameter	印刷辊筒直径	100mm	150mm
Printing Plate Diameter	印版直径	600mm	600mm
Printing Angel	印刷角度	3°-13°	3°-13°
Max. Forme On Printing Plate	最大印版	3pcs	2-4pcs
Cup Mould Roller	杯模辊	8pcs	8pcs
Air Pressure	气压	6-8 Bar	6-8 Bar
Max. Air Consumption	最大耗气量	48 m³/h	48 m³/h
Rated Power	额定功率	18 kw	18 kw
UV Lamp Power	UV灯功率	6 kw x1	6 kw x1
Aureole Power	光环功率	1 kw	1 kw
Dimension	尺寸	L4500*W2500*H2200mm	L5500*W2500*H2200mm
Weight	重量	About 4.50T	About 4.70T

Air Tank

储气罐

Volume	体积	1.0m ³
Pressure	压力	0.8Mpa
Design Temperature	设计温度	150°C
Total Height	总高度	2400mm
Inner Diameter	内径	800mm
Relief Valve Interface	安全阀接口	Rp11/2
Drain Valve Interface	排水阀接口	R1/2



Screw Type Air Compressor

螺杆式空压机

Model	型号	TK-3.6
Air Displacement	排气量	3.6m ³ /min
Working Pressure	排气压力	0.8Mpa
Motor Power	电机功率	22kw
Dimension	电源	AC 380V, 50Hz, Three-phase, Four-wire
Power Supply	尺寸	L1150*W900*H1350mm
Weight	重量	about 580kg



Chiller

冷水机

Model	型号	5F	15F	60F
Refrigerant	制冷剂	R22	R22	R22
Cooling Fan	冷却风扇	0.18kw x 2	0.55kw x 2	0.55kw x 6
Tank Volume	水箱容量	80L	150L	250L
Motor Power	电机功率	4.3kw	13.6kw	50kw
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire		
Dimension	尺寸	L1250*W750*H1330mm	L1500*W850*H1450mm	L3000*W1500*H1800mm
Weight	重量	About 175kg	About 750kg	About 1300kg



Cooling Tower

冷水塔

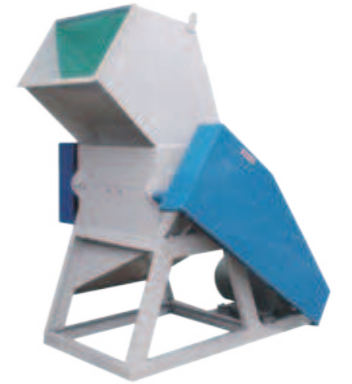
Model	型号	T-15	T-30	T-80
Height	高度	2100mm	2300mm	2400mm
Diameter	直径	1200mm	1800mm	2300mm
Motor Power	电源	AC 380V, 50Hz, Three-phase, Four-wire		
Power Supply	电机功率	0.37kw	1.1kw	1.5kw
Weight	重量	About 82kg	About 100kg	About 120kg



Crusher

破碎机

Model	型号	TP-650
Crushing Capacity	破碎能力	300kg/h
Screen Hole Diameter	筛孔直径	10.5mm
Rotating Blade	旋转刀片	6pcs
Fixed Blade	固定刀片	4pcs
Motor Power	电机功率	15kw
Dimension	尺寸	L1600*W1200*H2000mm
Weight	重量	About 500kg



Crusher Online

在线破碎机

Model	型号	ZFS-800H
Inlet Diameter	入口直径	800mm
Suitable Crushing Material	适用破碎材料	PP,PS,PET,PVC,HIPS
Sheet Thickness	片材厚度	0.3-3mm
Crushing Capacity	破碎能力	400-600kg/h
Rotating Blade	旋转刀片	6pcs
Fixed Blade	固定刀片	4pcs
Motor Power	电机功率	12.25kw
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Dimension	尺寸	L1600*W1340*H2420mm
Weight	重量	About 1.5T



Mixer 搅拌机

Model	型号	TJB-1100
Hopper	料斗	1100mm
Motor Power	电机功率	2.2kw
Max. Output (One Time)	单次最大输出	125kg
Max. Output (One Hour)	小时最大输出	500kg
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Dimension	尺寸	L1100*W1100*H1050mm
Weight	重量	About 125kg



Automatic Feeder 自动上料机

Model	型号	ZD-2000
Max. Output(One Hour)	小时最大输出	2000kg
Rated Power	额定功率	2.3kw
Power Supply	电源	AC 380V, 50Hz, Three-phase, Four-wire
Stainless Steel Pipe	不锈钢管	L1400*D133mm
Dimension	尺寸	L900*W900*H700mm
Weight	重量	About 200kg

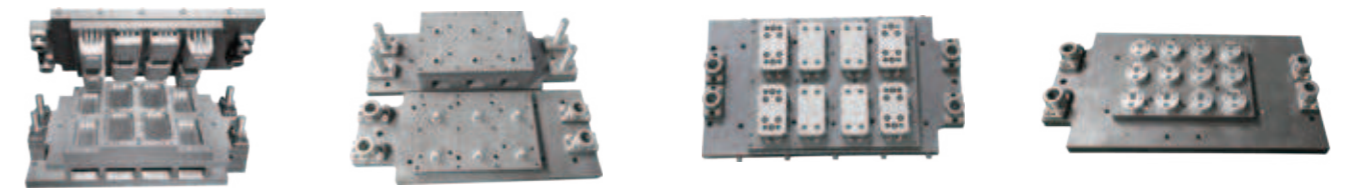


Mould 模具

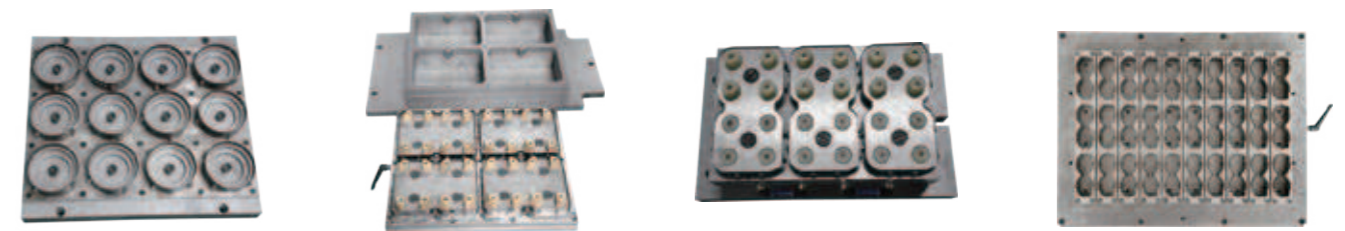
FORMING MOULD 成型模具



PUNCHING MOULD 冲孔模具



CUTTING MOULD 切边模具



CUP MACHINE MOULD 杯机模具

