上海展仕机械设备有限公司成立于2009年，公司致力于各种吸塑成型机和吸塑机的研发、制造。现有员工200多人，总占地面积6000余平方米，其中资深技术人员25人，拥有3台大、中型数控加工中心及其他各类机床数十台，加工设备及技术水平在国内同行业中居于领先水平。公司距上海虹桥国际机场仅半小时车程。

**子公司：**
苏州绿恒新材料有限公司：专业生产各种吸塑原材料及吸塑型材

上海展仕模具加工中心：为客户提供生产配套所需的各种精密模具及定制服务

上海展仕国际贸易有限公司：专业进出口公司

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**主营产品**

- **包装领域吸塑机**
  - Thermalforming Machine for Packaging
  - 产品广泛应用于高档包装、电子托盘、汽车零配件、卫浴洁具、精密点火器外壳等产品的吸塑生产。公司在包装领域不仅为客户提供包装解决方案，还提供完整的从原料到成品的一条龙服务。

- **物流领域吸塑机**
  - Thermalforming Machine for Logistics
  - 产品广泛用于物流领域的吸塑包装，如托盘、周转箱等。公司在物流领域提供量身定制的吸塑解决方案，满足客户多样化需求。

- **汽车领域吸塑机**
  - Thermalforming Machine for Automotive
  - 产品广泛应用于汽车内外饰件、仪表板等产品的吸塑成型，公司提供从设计到生产的一站式服务。

- **医疗领域吸塑机**
  - Thermalforming Machine for Medical
  - 产品广泛应用于医疗器械、药品包装等领域。公司在医疗领域提供专业、安全的吸塑解决方案，为医疗行业的发展提供有力支持。

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**技术水平**

- 6000余平方米
- 25人资深技工
- 200多人现有员工
- 2009年成立

**知名企业**

- Shanghai Zhanshi Mechanical Equipment Co., Ltd.

**Branch Company:**

- **Suzhou Green Sea New Material Co., Ltd.**
  - Professional manufacturer of vacuum thermalforming machine raw material and finished product

- **Shanghai Zhanshi Aluminum Mold Center**
  - Supply customized aluminum mold for all kinds of thermalforming machine

- **Shanghai Zhanshi International Trade Co., Ltd.**
  - Provide import and export service for the customers all over the world

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- 我们的产品广泛应用于各种领域，包括汽车、电子、医疗等。
- 我们的技术团队具有丰富的经验和专业知识，能够为您提供定制化的解决方案。
- 我们承诺，无论您身处何地，我们都能提供及时、有效的服务。
ZS-6070/5070

Fully Automatic Positive and Negative Pressure Multi-Station Vacuum Thermoforming Machine

概述
- 采用国内最新塑料成型技术工艺，模具、电、气一体化设计；
- 采用微电脑及PLC控制，整个系统实现人机交互的BME；
- 方形全自动热压机加温，三对称自动吸气，激光刀片切割；
- 定位、成形、切边，统一机全自动化设备，减少人工，操作便捷，提高效率，可靠性强，自动化程度高，适用于热成型和产品后加工的流水线生产。

Summarize
- Adopt the latest international thermoforming technology and it is integrated of electric, mechanical and pneumatic design.
- PLC and Touch Screen Control, the whole system realize Human machine Interface.
- Three-stages heating, easy for the forming of Convex or Concave Moulds. Laser blade cutting.
- Heating, forming, punching, cutting, stacking all-in-one machine. Reduce the workers, easy for operation, improve the production speed; High Automatic, it's a idea machine for thermforming products line production.

设备用途
适用于PLA、玉米淀粉、PP、PE、PET、PETG、PS、ABS、LEPS、HIPS等材料。产品的形状不难，可加工高透明，高拉伸，方形、圆形、不规则形，翘边产品、各种板、托盘、碗、盖等各领域的包装制品。
**ZS-6070II**

**Fully Automatic Positive and Negative Pressure Cut-in-mold Vacuum Forming Machine**

正负压模内切热成型机

**概述**

- 适用于PP等冷却后收缩比较明显的塑料材料；
- 成型面积在同一代位完成，设备重量体积小，同时减少设备成本；
- 采用触摸屏及PLC控制，整个系统实现人机交互。

**Summarize**

- Suitable for PP and other plastic materials that shrink more obviously after cooling.
- Molding and cutting is done in the same station, the weight and volume of the equipment is small; further more, the cost would be less.
- PLC and Touch Screen Control, the whole system realize Human machine Interface.

**工艺过程**

自动化上料→三段上下加热→正负压成型及模内切割→分取摆管→吸料自动卷片系统

**Technical Process**

Automatic feeding→Top and bottom three stage heating→Positive and Negative pressure forming and cutting in mold→Stacking→Scrapping automatic recycling

**技术参数**

<table>
<thead>
<tr>
<th>序号</th>
<th>名称</th>
<th>数值</th>
<th>单位</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>电加热功率</td>
<td>600/1000</td>
<td>W</td>
</tr>
<tr>
<td>2</td>
<td>生产速度</td>
<td>5-1000</td>
<td>mm/min</td>
</tr>
<tr>
<td>3</td>
<td>功率</td>
<td>148kw</td>
<td>(正常使用：60-100kw)</td>
</tr>
<tr>
<td>4</td>
<td>总重量</td>
<td>13.5t</td>
<td></td>
</tr>
</tbody>
</table>

**ZS-BQ80120**

**INS Technology Vacuum Forming Machine for Automobile Interior**

INS汽车内饰领域正负压成型设备

**概述**

近年来，汽车内饰的高精制造越来越重要，逐渐成为激励市场竞争中决定购买与否的重要因素之一，而内外饰装配部件成为了汽车设计中不可忽视的构成要素。INS就是汽车内饰领域出现的新型工艺技术。

**Summarize**

In recent years, the high-end three-dimensional tactile sense of automobile interior decoration has become more and more important, and it has gradually become one of the important factors to decide whether to buy or not in the fierce competition of automobile market. INS is the newest technology in the field.

**主要特点**

- 气模内饰设计准确，装配件更加接近；
- 可对型面要求复杂的产品进行装配，适用于产品局部装饰；
- 覆盖可控制防形，对产品结构较深的区域进行装配；
- 可塑性好，金属质效，不需要任何粘合剂，对生产环境无污染。

**Main Feature**

- Vacuum forming outer surface match with injection molding filling, enhance scratch resistance.
- Suitable for complex product surface and suitable for partial decoration.
- Higher tensile coefficient, suitable for decoration of deep area.
- Simulating wood or metal texture, do not need any solvents, and no harm for the environment.
ZS-6171/7285
Fully Automatic Negative Pressure Multi-Station Vacuum Thermoforming Machine
负压全自动三/四工位真空吸塑成型机

Summary
- Automatic mold is also workable, suitable for moderate quantity, automatic operation working environment, saving labor and mold cost.
- Adopt the latest international thermoforming technology and it is integrated of electric, mechanical and pneumatic design.
- PLC and Touch Screen Control, the whole system realize human machine interface.
- Multi-stages Unloading, easy for the forming of Convex or Concave Moulds. Laser blade cutting.
- Heating, forming, punching, cutting, stacking alike-in-one machine. Reduce the worker, easy for operation, improve the production speed.
- High automatic, it’s a idea machine for thermoforming products line production.

Usage
- Suitable for P.V.C, PP, PE, PET, PS, ABS, EVA, HIPS and other materials.
- Products such as trays, blistering, cover, electronic industry and other industrial packaging.

Technical Parameters

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>ZS-6171/7285</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Max Forming area</td>
<td>700*1000mm</td>
</tr>
<tr>
<td>2</td>
<td>Max Forming Height</td>
<td>600mm</td>
</tr>
<tr>
<td>3</td>
<td>Max Forming Area</td>
<td>700*1000mm</td>
</tr>
<tr>
<td>4</td>
<td>Station of the equipment</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Material Thickness</td>
<td>0.1~0.3mm</td>
</tr>
<tr>
<td>6</td>
<td>Maxi. material diameter</td>
<td>1000mm</td>
</tr>
<tr>
<td>7</td>
<td>Air pressure</td>
<td>0.8~1.0kg/cm²</td>
</tr>
<tr>
<td>8</td>
<td>Production speed</td>
<td>4.0-6.0 cycle/min</td>
</tr>
<tr>
<td>9</td>
<td>Heating power</td>
<td>35kw/45kw</td>
</tr>
<tr>
<td>10</td>
<td>Total power</td>
<td>ZS-6171: 83.5kw (Normal use: 2545kw)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ZS-7285: 75kw (Normal use: 3145kw)</td>
</tr>
<tr>
<td>11</td>
<td>Power supply</td>
<td>380V/50Hz</td>
</tr>
<tr>
<td>12</td>
<td>Weight</td>
<td>9.75~10.5T</td>
</tr>
<tr>
<td>13</td>
<td>Dimension</td>
<td>700<em>1000</em>1000mm</td>
</tr>
</tbody>
</table>

Craft Process
Automatic feeding → heating → vacuum forming → punching (optional) → cutting → Stacking → Scrap automatic recycling.
ZS-1220
Servo Motor Driving High-Speed Vacuum Forming Machine
伺服电机驱动高速吸塑机

Summary
- ZS-1220 PLC Control High-speed Vacuum Forming Machine adopts the Omron Control system the whole system realize Human machine interface.

- All parameters are set on the touch screen and all the running status is being monitored. The equipment has diagnostic function, fault messages and elimination measures real-time display, easy to operate and maintain.

- This machine could store several products parameters, just select the right parameter when changing products.

- Servo motor driving / Cylinder driving two types are available for the forming process.

- If it can’t finish the whole process from material to finished product independently, hydraulic cutting machine is required for the cutting process.

Application
- Suitable for PLA, corn starch, PP, PE, APET, PVC, PETG, PS, ABS, EPS, HIPS and other plastic sheet forming.
- Processing the high transparency, high depth, circular, square, Shape, irregular, top and bottom both sides stretch, turnup, etc.

- Produce variety of medical industry blister lining, the food industry's lunch boxs, tray, dish, bowl, cover, electronic industry and other industrial packaging.

Technical process
Automatic feeding → Heating → Vacuum forming → Whole Piece Cutting → Sheet drop into lay-off box

<table>
<thead>
<tr>
<th>序号</th>
<th>Item</th>
<th>设备/型号 Model</th>
<th>ZS-1220</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>最大成型面积 Max Forming Area</td>
<td>1200 * 700 mm</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>最大成型高度 Max Forming Height</td>
<td>140 mm</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>材料厚度 Sheet Thickness</td>
<td>0.1-2.2 mm</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>压力 Air Pressure</td>
<td>0.7 MPa</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>生产速度 Production Speed</td>
<td>4~15 pc/Mold/ Minute</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>电源功率 Power Supply</td>
<td>380V ±5/2±3 PH</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>冷却循环 Cooling circuit</td>
<td>20m</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>总功率 Total Power</td>
<td>45 KW (Normally use 12±3 KW)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>重量 Weight</td>
<td>3.1 T</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>外形尺寸 Measurement (L<em>W</em>H)</td>
<td>200 * 1780 * 2500 mm</td>
<td></td>
</tr>
</tbody>
</table>
ZS-1515/200

Fully Automatic Double sheet (Twin sheet) Car’s Vent Pipe Vacuum Forming Machine

全自动双层汽车风管吸塑机

概述

该设备为五工位一体电脑控制全自动TFE/XPE双层吸塑成型生产线。该设备采用直线式流水作业结构，适用于自动连续工作双层薄膜吸塑成型机。设备的主要用途是汽车空调通风管。

工艺过程

上料→校正→夹持物料到加热位置→夹持加温后的物料到双模位置→合模热压并剪切→冷却→反吹气相模→双模分开→成品落于传送带→产品投入料箱（整个过程实现全自动）

Technical process

Automatic feeding→automatic adjusting→heating→heated material move to mold position→Two side by side mold→forming and cutting→automatic→cooling→automatic→blowing→demould→automatic→double mould depart→automatic→pickup→automatic→product drop to finished product station and transport.

主要技术参数（1500mL×1500mmW×200mmH）

Main Technical Parameters(1500mL×1500mmW×200mmH)

- 最大成型面积Max. forming area: 1500mm × 1500mm
- 最大成型高度Max. forming height: 200mm
- 设备总功率Total power: 150.0kW（正常使用功率Normally: 60kW）
- 生产速度Producing speed: 30~50 PCS/PH(5～8mm/m)
- 产品厚度Material thickness range: 1.0~8.00mm
- 设备外形尺寸Dimension: 15500mmL × 28000mmW × 29000mmH

ZS - 1816/300

BMW Interior Automatic Thick Sheet Vacuum Forming Machine

宝马车内饰全自动板材吸塑机

设备概述

- 电气控制系统采用日本欧姆龙、高精度机械控制，智能温度控制，整个系统实现人机交互。
- 从板材到成品吸塑全部实现自动化。
- 结构设计合理，操作容易，适合于超大型，超薄难度，超大数量的厚板板材吸塑。

Summarize

- Adopt Japan Omron electrical control system, high definition touch screen, equipped with intelligent temperature control algorithm. The whole system realizes Human Machine Interface.
- The entire production process from raw material to finished parts is fully automatic.
- This machine is reasonable in structure design and easy to operate, suitable for super large, super thin and super quantity thick sheet vacuum forming.

工艺过程

自动上料→校正→预热→加热→成型→产品自动去废料→自动克重检测→合格品、不合格品、废料自动分区→产品件号自动生成

Technical process

Automatic feeding→automatic adjusting→heating→heated→forming→blowing→automatic→Waste, Material Removing→Automatic Weight Detection→Qualified products, unqualified products, waste products automatic partition→Part number automatic generating

设备性能

- 设备定位准确，生产率高，应用范围广，能满足各种复杂形状的吸塑成型。
- 本设备操作简单，维护方便，适合于汽车内饰板，家具等的生产。
- 应用于各种吸塑产品的生产，如汽车内饰板，家具等的生产。

Technical Features

- Production tasks can be assigned in the office. Need only material batch and mold number of the product match
- Adopt imported low-energy consumption heating elements, the heating system can be highly controlled and the material is heated evenly.
- The Vacuum and Compressed air system can be precisely controlled by the control valves, solenoid valves and flow-limiting valve.
ZS-2515/500

Yutong Bus Interior Automatic Thick Sheet Vacuum Forming Machine

宇通客车全自动上下料厚片吸塑机

Overview

This machine is a fully automatic thick sheet vacuum forming machine customized for Yutong bus, which includes two-mold forming methods, mold pressure vacuum forming and negative pressure vacuum forming, suitable for all kinds of plastic material.

Process

Material feeding → Automatic upper and lower material transportation → Thickness adjustment (can adjust by thickness adjustment) → Material heating → Vacuum forming (optional) → Cooling and shaping → Finished product return to feeding area while raw material send to forming area → Automatic feeding

Technical Parameters

- Maximum forming area: 2500mm × 5000mm
- Maximum forming depth: 500mm
- Production speed: 1-5 m/min
- Vacuum Pressure: 0.06-0.08 MPa
- Material thickness: 1-5mm
- Power sources: 220V/50Hz, 380V/50Hz
- Net weight: 18.5t

ZS-1017/300

Non Woven Fabric Hot Pressing Thermoforming Machine

无纺布热压成型机

Overview

This machine is a high efficiency heat pressing thermoforming machine suitable for non-woven fabrics and other breathable materials. The forming process completely depends on heat pressure. PLC and HMI control, the entire system realizes human machine interface. Multi-stages heating, easy for the forming of complex mold or concave mold. Laser cutting, forming, cutting, stacking all-in-one machine. Reduce the workers easy for operation, improve the production speed. "High automatic, it's a idea machine for thermoforming products line production.

Technical Parameters

- Maximum forming area: 1200mm × 2500mm
- Maximum forming depth: 300mm
- Production speed: 0-50 m/min
- Vacuum Pressure: 0.06-0.08 MPa
- Material thickness: 0.1-0.6mm
- Power: 50-60kW
- Net weight: 12.5t
- Total weight (without molds): 12.5t
ZS-4025/700  ZS-2015/400

全自动厚片板材，卷材两用吸塑机

概述

该设备适用于常规厚片吸塑成型，同时适用于1mm以上厚度卷材通过厚片成型工艺吸塑成型。卷材和厚片板吸塑成型，大大增加了客户的使用灵活性。

Summary

The equipment is suitable for ordinary thick sheet thermforming, and also suitable for roll material thickness over 1mm which requires thick sheet thermforming technique. Then the machine can realize semi-automatic forming technique for sheet material, and fully automatic forming technique for roll type material. The machine using flexibility would be greatly increased.

工艺过程

片材工艺

手动放料→压料板下降压料（手动/自动选择）→双加热炉加热加温（手动）→双加热炉选择（手动）→双加热炉选择（手动）→下模台模室上升（自动）→真空成型（自动）→冷却（真空连接可选择烧结）→自动→反吹气锁模（自动）→下模台模室下降（自动）→压料板上升（手动/自动选择）→手动取片

卷材工艺

卷材通过上料架自动上料→压料板下降压料（手动/自动选择）→双加热炉加热加温（手动）→双加热炉选择（手动）→双加热炉选择（手动）→下模台模室上升（自动）→真空加工（自动）→冷却（真空连接可选择烧结）→自动→反吹气锁模（自动）→下模台模室下降（自动）→压料板上升（手动/自动选择）→机械手夹取成型好的产品成品放入纸盒，(不卷料时的模可以接模放料，抽板放料即可工作)

Technical process

For sheet material


For sheet material


设备用途

设备适用于各类板材ABS PP PS PVC EPS HIPS PE HDPE PC PMMA EVA PETG的热压

成型加工，产品广泛用于电子、电器、装饰，灯具，玩具，家具，包装，建筑门窗，汽车内饰件，周转箱，板框，托盘等塑料制品。

Technical Features

It is suitable for sheet and roll type ABS PP PS PVC EPS HIPS PE HDPE PC PMMA EVA PETG plastic material. Products are widely used as electronics blister, food, hardware tools, medical equipment, lamps and lanterns, sanitary ware, luggage, refrigerator liner, automobile interior decoration, container boxes, pallet and other plastic products.

型号分类 Model type

<table>
<thead>
<tr>
<th>Max Forming Area(mm)</th>
<th>Max Height (mm)</th>
<th>Max Forming Area(mm)</th>
<th>Max Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200*1800</td>
<td>400</td>
<td>1500*2000</td>
<td>400</td>
</tr>
<tr>
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<td>2000*2500</td>
<td>400/100</td>
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</tr>
<tr>
<td>3100*3100</td>
<td>400/100</td>
<td>400/100</td>
<td>400/100</td>
</tr>
</tbody>
</table>

ZHANSI

ZHANSI
ZS-1512/400

Manual Feeding Thick Sheet Vacuum Forming Machine

手动上料厚片吸塑机

Overview

Manual feeding is convenient and fast. Compared with full-automatic thick-sheet forming machine, the cost is greatly reduced. It is suitable for large size plastic forming. Adopt Japan Omron electrical control system, high definition touch screen, equipped with intelligent temperature control algorithm. The whole system realizes Human Machine Interface.

Application

It is suitable for sheet type ABS, PP, PS, PVC, TPE, HIPS, PE, HDPE, PC, PMMA, EVA, PETG, plastic materials. Products are widely used in electronics blister, food, hardware tools, medical equipment, lamps and lanterns, sanitary ware, luggage, refrigerator liner, automotive interior decoration, container boxes, pallet and other plastic products.

Technical Feature


Adopt double side heating, the heating system is made up of carbon fiber medium wave heating tube, tube rehearse and porcelain connector. With the character of instant heating and energy saving, the energy consumption is about 60% of similar machines in the market. When being used intermittently, the energy consumption even less.

The Vacuum and Compressed air system can be precisely controlled by the control valves, solenoid valves and propor.

Technical Parameters

<table>
<thead>
<tr>
<th>Item Item</th>
<th>ZS-1512/400</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Max. forming area 1000 x 1200 mm</td>
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<tr>
<td>2</td>
<td>Max. forming depth 100 mm</td>
</tr>
<tr>
<td>3</td>
<td>Heating power 124.8Kw</td>
</tr>
<tr>
<td>4</td>
<td>Power supply 380V/50Hz (35±5%max.)</td>
</tr>
<tr>
<td>5</td>
<td>Production speed 2~7min(2±0.5mm)</td>
</tr>
<tr>
<td>6</td>
<td>Production speed 1.0±1.0m/min</td>
</tr>
<tr>
<td>7</td>
<td>Raw material HDPE, ABS, PE, PP, PS, PVC, PMMA</td>
</tr>
<tr>
<td>8</td>
<td>Control systems Single Station, 4050S, 13000, 16000, 25000 (4 sets)</td>
</tr>
</tbody>
</table>
| 9 | Net weight 550KGS/4000 (No tools)
ZS-2440/200

**Automatic Dental Teeth Blister Lamination Vacuum Forming Machine**

**概述**

此设备型号为医疗领域内牙科用的自动牙科牙模吸塑机，设备通过集成模料干燥、卷料自动放料、加热、模具自动上下料、吸塑混料成型、在线质量监控、成品自动剪切、成品自动转移、废料自动回收等功能模块，实现高效、节能、环保、高质量的全自动生产线。

**Summarize**

The machine is designed for density. Suitable for dental teeth blister lamination. The equipment is integrated with raw material drying, rooling, automatic feeding, hotting, automatic loading and unloading of molds, vacuum forming, online quality monitoring, finished products automatic cutting, finished products automatic transferring, waste material automatic recycling. Achieve high efficiency, energy saving, environmental protection and high quality.

**工艺过程**

干料卷料自动上料→加热→正负压成型→冲切剪裁→产品出料→废料回收

**Technical process**

Mold Changing→Dry material automatic feeding→Heating→Positive and negative pressure forming→Cutting→Loading/unloading→Scrap recycling

**主要技术参数（400mmL×240mmW×120mmH）**

<table>
<thead>
<tr>
<th>Main Technical parameters (400mmL×240mmW×120mmH)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>最大成型面积 Max. Forming Area: 400mmL×240mmW×120mmH</td>
<td></td>
</tr>
<tr>
<td>最大成型厚度 Max. Forming Thickness: 120mm</td>
<td></td>
</tr>
<tr>
<td>最大成型深度 Max. Forming Depth: 85mm</td>
<td></td>
</tr>
<tr>
<td>生产速度 Production Speed: 6-15pcs/min</td>
<td></td>
</tr>
<tr>
<td>生产气压 Air Pressure: 1.0-2.0Mpa</td>
<td></td>
</tr>
<tr>
<td>产品材料厚度 Sheet Thickness: 0.1-2.0mm roll type</td>
<td></td>
</tr>
<tr>
<td>设备总功率 Total Power: 40KW (正常使用功率 Normally use: 16 ～ 28KW)</td>
<td></td>
</tr>
<tr>
<td>冷却水温 Water Temperature: 60°C</td>
<td></td>
</tr>
<tr>
<td>压力传感器 Pressure Sensor: 0-10MPa</td>
<td></td>
</tr>
<tr>
<td>总重量 Weight (Without mold不含模具): 5.5T</td>
<td></td>
</tr>
<tr>
<td>电源电压 Power Supply: 380V±10%/50HZ</td>
<td></td>
</tr>
</tbody>
</table>

ZS2A-5048L

**Automatic Cooling Tower Filling Vacuum Forming Machine**

**概述**

特点：ZS2A-5048L型高效率塑料模具成型机，按需定制，生产稳定，适用于喷涂片（即冷却塔板）成型和产品自动切削流水式生产组，涂片、加热、成型、切削、堆叠、边料自动收卷一次完成，减少人工、操作便捷、提高工作效率、可靠性高、自动化程度高。

**Summarize**

The equipment is customized for customers in the US. It is specially used for cooling tower filling material thermosetting and automatic cutting. Sheet pulling, heating, forming, cutting, stacking, and scrap recycling is finished in one machine, which reduces manual labor, operation easily, improves production efficiency, it has high reliability and fully automatic.

**工艺过程**

上料→预热→成型→涂片→冷却→切削→传递→堆叠→边料收卷

**Technical process**

Feeding→Preheating→Heating→Forming→Cooling→Crosscutting→Cutting→Stacking→Scrap recycling

**技术参数**

<table>
<thead>
<tr>
<th>技术参数</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>序号 Item</td>
<td>数值 Value</td>
</tr>
<tr>
<td>1</td>
<td>成型面积 Forming Area 1600*1800（mm）</td>
</tr>
<tr>
<td>2</td>
<td>成型宽度 Forming Width 1800（mm）</td>
</tr>
<tr>
<td>3</td>
<td>生产速度 Production Speed 6.2-9.6m/min</td>
</tr>
<tr>
<td>4</td>
<td>设备功率 Total Power 35KW (正常使用功率 Normally use: 180 ～ 230V)</td>
</tr>
<tr>
<td>5</td>
<td>上下模行程 Mold stroke 150mm</td>
</tr>
<tr>
<td>6</td>
<td>总重量 Total weight (参考) 19.5T (Without mold不含模具)</td>
</tr>
</tbody>
</table>
ZS-1435*830
Ground Heating Foam Composite Plate Vacuum Forming Machine
地暖模块专用发泡覆膜机

概述
该机为单工位程序控制PS发泡覆膜机，工作台面为1435*830mm，该设备特点是结构合理，操作容易，适合于地暖模块的覆膜成型工艺。电气控制系统采用日本欧姆龙，高清晰度触摸控制器，配置了温度控制的智能算法，整个系统运行由HMI控制。

Summarize
This machine is single station PS foam laminating machine, the work area is 1435*830mm. It has reasonable structure, easy operation, suitable for laminating process of ground heating plate. Adopts Japan's Omron control system, high definition touch screen, intelligent temperature control, realize human machine interface.

工艺过程
自动上料→加热→发泡模进成型工位→底模上升→真空成型→成型产品经取料区，自动切割

Technical process
Automatic feeding→heating→foam board feeding→bottom mold rising→vacuum forming→finished products unloading, automatic cutting.

主要技术参数（1435mmL*830mmW*100mmH）
Main Technical parameters（1435mmL*830mmW*100mmH）
- 成型面积 Max. Forming Area: 1435*830mm
- 最小可调节宽 Min. Forming Area 800-500mm
- 成型高度 Max. Forming Height: 100mm
- 电源总功率 Total Power: 60Kw (正常使用功率 normally use: 20-45KW)
- 生产速度 Production Speed: 2 ~ 7 分钟 / 件 (2-4mm)
- 压缩空气气压 Air Pressure: 1” (0.6-0.8Mpa)
- 产品材料厚度 Sheet Thickness: 1.0-14mm
- 产品材料 Raw material: PS
- 设备外形尺寸 Measurement: 6300*2650*3200mm
- 总重量 Weight: 8.5T(不含模具 Without mold)

ZS-3545
Semi Automatic / Automatic Counter Point Color Printing Vacuum Forming Machine
半自动/全自动彩色对位吸塑机

概述
该机具有结构简单，操作方便，效率高，自动化程度高等特点，可选配手动和自动操作，适用于不同熟练程度的工人，我们可以根据您的要求提供单工位或双工位。

Summarize
The machine has the character of simple structure, easy operation, high efficiency and high automatic. Manual and Auto operation is optional, suitable for workers at different skill level. We could supply single or double station forming machine according to your request.

技术参数 Technical Parameters
<table>
<thead>
<tr>
<th>机型 Model</th>
<th>ZS-3545</th>
</tr>
</thead>
<tbody>
<tr>
<td>最大成型宽度 Max. Forming Area</td>
<td>3048*408 mm</td>
</tr>
<tr>
<td>最大成型厚度 Max. Forming Height</td>
<td>204 mm</td>
</tr>
<tr>
<td>总功率 Power</td>
<td>20 KW</td>
</tr>
<tr>
<td>液压机 Air Compressor</td>
<td>10 HP (7.5 KW)</td>
</tr>
<tr>
<td>水泵 Power</td>
<td>600 Kg</td>
</tr>
<tr>
<td>电源输入电压 Specified voltage (V*H)</td>
<td>380*1.5/3.2/380 mm</td>
</tr>
</tbody>
</table>

图片显示了不同颜色和图案的半自动彩色对位吸塑机的使用示例。
ZS-8KW/ZS-5KW

Automatic Rotary High Frequency Machine
自动转盘高频波机

适用范围
适用于各类PVC、PET、PETG、APET等双层泡壳或者彩虹与纸卡的焊接热合。

Scope of Application
Suitable for the welding of double blister, or blister with card in PVC, PET, PETG, APET etc. material.

设备特点
- 可以实现自动转盘，高效、省人工，高精密分隔器转到定位差速。
- 欧式装握技术，自适应，性能高，环保节能。
- PLC编程及电机控制，故障率低，操作简单，电流可控。
- 设有高灵敏度热模保护器与过电流电子保护装置。

Main Character
- The rotary table can have 36 working stations, high efficiency, labor costs-saving and accurate positioning.
- European clamping technology, stable in performance, effective and environmentally friendly.
- PLC control or relay control, breakdown can be tracked, easy for operation and maintenance, current steerable.
- Equipped with high-sensitive spark mold protective and over current electronic tube protect devices.

设备参数 Equipment Parameters

<table>
<thead>
<tr>
<th>型号 Model</th>
<th>ZS-8KW-ZDZ</th>
<th>ZS-12KW-ZDZ</th>
<th>ZS-18KW-ZDZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>最大高频功率 Max. Output Power</td>
<td>8KW</td>
<td>12KW</td>
<td>18KW</td>
</tr>
<tr>
<td>输入电压 Supply Voltage</td>
<td>380V/3PH 50/60HZ</td>
<td>380V/3PH 50/60HZ</td>
<td>380V/3PH 50/60HZ</td>
</tr>
<tr>
<td>转速 Frequency</td>
<td>27.32KHZ</td>
<td>27.32KHZ</td>
<td>27.32KHZ</td>
</tr>
<tr>
<td>保护装置 Rectifier</td>
<td>2500VA</td>
<td>3500VA</td>
<td>3500VA</td>
</tr>
<tr>
<td>整流器 Rectifier</td>
<td>硅整流</td>
<td>Silicon Rectifier</td>
<td>Silicon Rectifier</td>
</tr>
<tr>
<td>振动管 Vibrating Tube</td>
<td>755mm</td>
<td>1315mm</td>
<td>818mm</td>
</tr>
<tr>
<td>工作台面 Working Area</td>
<td>0～200mm</td>
<td>0～200mm</td>
<td>0～200mm</td>
</tr>
<tr>
<td>上下模尺寸 Upper Clamping Size</td>
<td>250*350</td>
<td>300*500</td>
<td>350*500</td>
</tr>
<tr>
<td>焊接时间 Welding Time</td>
<td>0～105</td>
<td>0～105</td>
<td>0～105</td>
</tr>
<tr>
<td>加压方式 Pressure Mode</td>
<td>气压 Pneumatic</td>
<td>气压 Pneumatic</td>
<td>气压 Pneumatic</td>
</tr>
</tbody>
</table>

ZS-8KW
Automobile Sun Shading Broad High Frequency Welding Machine
汽车遮阳板高频焊接机

用途
专为汽车内外饰件行业，遮阳板产品的焊接而开发设计的专用高频焊接机。
本设备共有三款机型：有经济型、中档多段电阻焊机、高档油压冲型一体机，设备各有所长，客户可根据产品的特点合理选择。

Application
The high frequency heat combination machine is specially designed for the automotive interior and sun shading board. The equipment has three types: economic air pressure type, middle-grade oil pressure type and high-end oil pressure welding cutting all-in-one type. Customers can choose suitable type according to their own product.

设备特点
- 不锈钢机壳均具有自身独特机箱结构，所有部件均采用精密精加工等级生产。
- 设备人机界面面板控制参数，操作便捷，安全。
- 采用多级压力平衡系统和水冷系统，设有快速模具装置和夹具焊接保护系统，防止模具在打火时受损。
- 中高档和经济型气压设备适用于有边遮阳板和无边遮阳板的焊接。
- 高压油压汽车遮阳板一体机，适用于PVC、PETG等泡壳材质，以及XPE材料的遮阳板检测型和切边，成型的遮阳板表面光滑，焊接无接痕，深受广大客户的青睐。

Features
- Has a rigid body structure, all accessories are precision grinding grade.
- Adopt human-computer interface to adjust welding parameters, convenient and safe.
- Adopt multi-stage pressure balance adjustment, rapid mold change device and high sensitive spark protection system, prevent the mold from being damaged in the ignition.
- Multi-stage oil pressure and economic air pressure type equipment is suitable for welding of sunshade with edge and without edge.
- While the high-end oil pressure welding cutting all-in-one machine, suitable for PVC leather or cloth with adhesive material, as well as XPE material sunshade welding and cutting. The finished sunshade surface is smooth, welding without wrinkles, favored by the majority of customers.

设备参数 Equipment Parameters

<table>
<thead>
<tr>
<th>型号 Model</th>
<th>ZS-8KW</th>
<th>ZS-8KW</th>
<th>ZS-8KW</th>
</tr>
</thead>
<tbody>
<tr>
<td>压力方式 Pressure type</td>
<td>气压 Air Pressure</td>
<td>多段油压 Multi-stage oil pressure</td>
<td>多段气压 Multi-stage air pressure</td>
</tr>
<tr>
<td>高频空气嘴 High frequency air nozzle</td>
<td>300<em>150</em>150</td>
<td>300<em>150</em>150</td>
<td>300<em>150</em>150</td>
</tr>
<tr>
<td>高频输出功率 High frequency output power</td>
<td>8KW</td>
<td>8KW</td>
<td>8KW</td>
</tr>
<tr>
<td>电源输入 Voltage</td>
<td>380V/50HZ 50/60HZ</td>
<td>380V/50HZ 50/60HZ</td>
<td>380V/50HZ 50/60HZ</td>
</tr>
<tr>
<td>输入功率 Input power</td>
<td>15KW</td>
<td>15KW</td>
<td>15KW</td>
</tr>
<tr>
<td>脉冲管 Rectifier</td>
<td>755mm</td>
<td>755mm</td>
<td>755mm</td>
</tr>
<tr>
<td>最大冲击距离 Maximum electrode spacing</td>
<td>1000mm</td>
<td>1000mm</td>
<td>1000mm</td>
</tr>
<tr>
<td>焊接系统 Spark system</td>
<td>1000V / 100A</td>
<td>1000V / 100A</td>
<td>1000V / 100A</td>
</tr>
<tr>
<td>上下模尺寸 Upper plate size</td>
<td>360<em>60</em>35</td>
<td>360<em>60</em>40</td>
<td>360<em>60</em>45</td>
</tr>
</tbody>
</table>
**Precision Four-Post hydraulic Cutting Machine**

精密四柱液压裁断机

### 概述
- 精密液压裁断机有多款型号可供选择
- 设备有效裁切宽度从540mm到1000mm，有效裁切长度从1250mm到1600mm，特殊要求可定制
- 客户可以选择单边送料或双边送料

### Summarize
- The precision Four-Post hydraulic Cutting Machine has Alternative options such as 30T, 50T, 80T, 100T etc.
- Equipment width ranges from 540 mm to 1000 mm, length ranges from 1250 mm to 1600 mm, special requirement can be customized.
- Unilateral automatic feeding or Bilateral automatic feeding is by customer's choice.

### 设备参数  Equipment Parameters

<table>
<thead>
<tr>
<th>机台型号 Model</th>
<th>台面尺寸 Cutting Size</th>
<th>电机功率 Power</th>
<th>行程 Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZS-45T</td>
<td>1250*900mm</td>
<td>2.2kW</td>
<td>190mm</td>
</tr>
<tr>
<td>ZS-55T</td>
<td>1250*1000mm</td>
<td>3.0kW</td>
<td>190mm</td>
</tr>
<tr>
<td>ZS-80T</td>
<td>1250*900mm</td>
<td>4.0kW</td>
<td>190mm</td>
</tr>
<tr>
<td>ZS-80T</td>
<td>1250*750mm</td>
<td>5.5kW</td>
<td>190mm</td>
</tr>
<tr>
<td>ZS-100T</td>
<td>1400*1000mm</td>
<td>7.5kW</td>
<td>190mm</td>
</tr>
<tr>
<td>ZS-120T</td>
<td>1400*1200mm</td>
<td>11kW</td>
<td>190mm</td>
</tr>
</tbody>
</table>

---

**Car Interior and Exterior Thermoforming Parts**

汽车内、外饰样品

### 概述
熔成型产品在汽车行业常用到的有：INS汽车内饰、汽车顶棚、座椅、汽车防滚架、保险杠、发动机盖、隔音板、仪表盘、注塑件及复热压成型件、汽车结构件/塑料件、后备箱隔板、高尔夫车顶、大巴内饰、汽车空调外罩、皮卡卡车箱

### Summarize
Thermoforming products are widely used in the automobile industry such as INS automotive interiors, roof, seat, car roll cage, bumper, engine hood, sound insulation board, instrument panel, plastic and leather horn pressing forming parts, trunk baffle, golf car roof, bus interior trim, automobile air conditioners shell, pickup truck.
Aluminum Alloy Mould Processing

概要

公司拥有三台大型CNC数控加工中心，可以针对不同模具进行加工制作。模具可主要分为两大类：普通吸塑机的铝合金模具和厚板吸塑机的大型铝合金模具。可根据产品要求物料不同光洁度的吸塑成型模，如包装瓶盖用光洁的吸塑模处理，彻底解决难脱模的问题。普通单个铝制模具生产周期为2-3天，硬版模为4-5天；对于厚板铝合金模具，按产品大小与难易程度，一般为7-15天，大型模具需要15-30天。

Summarize

We have three large CNC centers that can produce all kinds of molds. The molds can be mainly divided into two categories: Aluminum alloy molds for common vacuum forming machines, and the large size aluminum alloy molds for thick sheet vacuum forming machine. The surface treatment of molds can be mirror polishing or teflon coating according to your request, thus solve the problem of difficult demoulding. The production cycle for common single mold is 2-3 days, whole plate mold 4-5 days; while for aluminum alloy molds for thick sheet will be 7 to 15 days, difficult and large size mold needs 15-30 days.

CNC加工中心 / CNC machining center

Auxiliary Machine Required for This Thermoforming Machine

吸塑机配套设备

展仕公司也可为客户提供所用的所有配套设备。
Shanghai Zhanshi provide auxiliary equipment required for this thermoforming machine as well.

空气压缩机 Air Compressor System

冷水机 (2匹, 3匹, 5匹, 10匹)
Water Chiller (2A, 3A, 5A and 10A)

真空系统
Vacuum System