CHULIING

Thermoforming and Cutting machine

Automatic Thermoforming Solutions and Skills

Plastic Packing

SL-1220A + SL520

Thermoforming Production Line

www.chuliing.com

Cutting-edge Technology

A combination of conventional devices and advanced control systems

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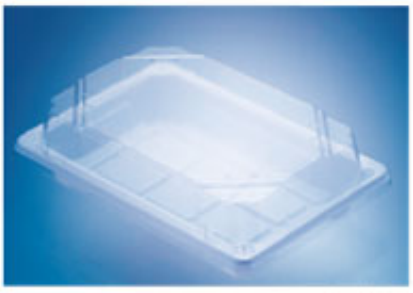
- PS (Polystyrene)
- PE (Polyethylene)
- PP(Polypropylene)
- OPS (One Pack Systems)
- PLA (Poly Lactic Acid)
- APET (Amorphous Polyethylene Terephthalate)
- HIPS (High Impact Polystyrene)
- EPS(Expandable Polystyrene)

Rigid Plastic :


Sushi box


Egg box


Strawberry box


Salad box


Fruit box


Vegetable box

Foamed Plastic :


Takeout box


Instant noodle bowl


Lunch box

A global leading brand in smart thermoforming

Our thermoforming, beyond your imagination.

Chuliing in pursuit of ongoing development and improvement supplies you the package equipment and technology of automatic and high-performance thermoforming; moreover, we strive for automatic technology, optimal output and fine quality synchronously by a reasonable cost. With our commitment to each link for betterment with advancement, you are surely to receive the automatic thermoforming solution with the top cost performance ratio.

The strengths brought to you by Chuliing:

- Flexible package solutions for various budgets and production needs.
- Fine processing competence fit for all standard and few specific plastics.
- Cold forming under high pressure load for high capacity and low cost.
- A cut of labor and waste via direct retrieval of plastic waste
- Low power consumption due to 30% saving energy and 40% compressed air cutting.
- A central control unit for easy operation and handy maintenance.
- Rich experiences in package equipment with a tailor-made solution for you.

SL-1220A + SL520
Thermoforming Production Line

Exceptional Performance Demand-meeting Matches

Chuliing experienced in machinery making skills over 35 years with the excellent innovation competence can easily offer you the optimal thermoforming production line with the module production system under your budget and terms of and demands for production.

Feeding / Plastic feed system

Labor saving via automatic feeding, speedy feeding within 2 minutes

Advanced e-control system

Components made in the EU, Japan and the US with stability and reliability

Tunnel heating oven

An independent thermal control over each segment for local thermal regulation and high flexibility is available via ceiling and ground stoves.

Thermoforming mainframe

High-quality thermoforming via cold control with low thermal sensitivity for easy operation

Plan A: Fully Automated System	Thermoforming SL-1220A
Plan B: Fully Automated System	Thermoforming SL-1220A
Plan C: Semi-automated System	Thermoforming SL-1220A


Pressure and Vacuum Forming


Pre punch


Dimension Cutting


Automatic Stacking

- **Human-machine interface system**
  Digital and storable parameters of products for easy operation and management
- **Punching machine**
  Punching processing for those in need of eyelets
- **Cutting machine**
  Cutting processing of finished items appearances
- **Servo automatic stacking mechanism**
  Self setting and stacking under diverse output demands
- **Inline crusher**
  Crush by linking to the production line



	Pre Punch SL-520	Dimension Cutting SL-520	Automatic Stacking	
		Dimension Cutting SL-520	Automatic Stacking	
	Automatic Cutting and Stacking Mechanism (SHEET)		Hydraulic Cutting Machine CSS-806	Manual

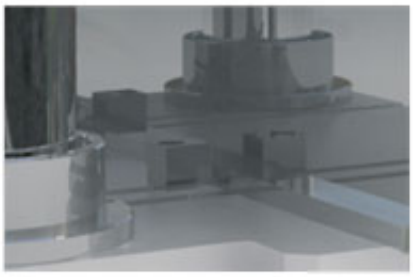
Patented High-precision Thermoforming Clamping Mechanism

Precise swift innovative quality stable reliable advanced performance

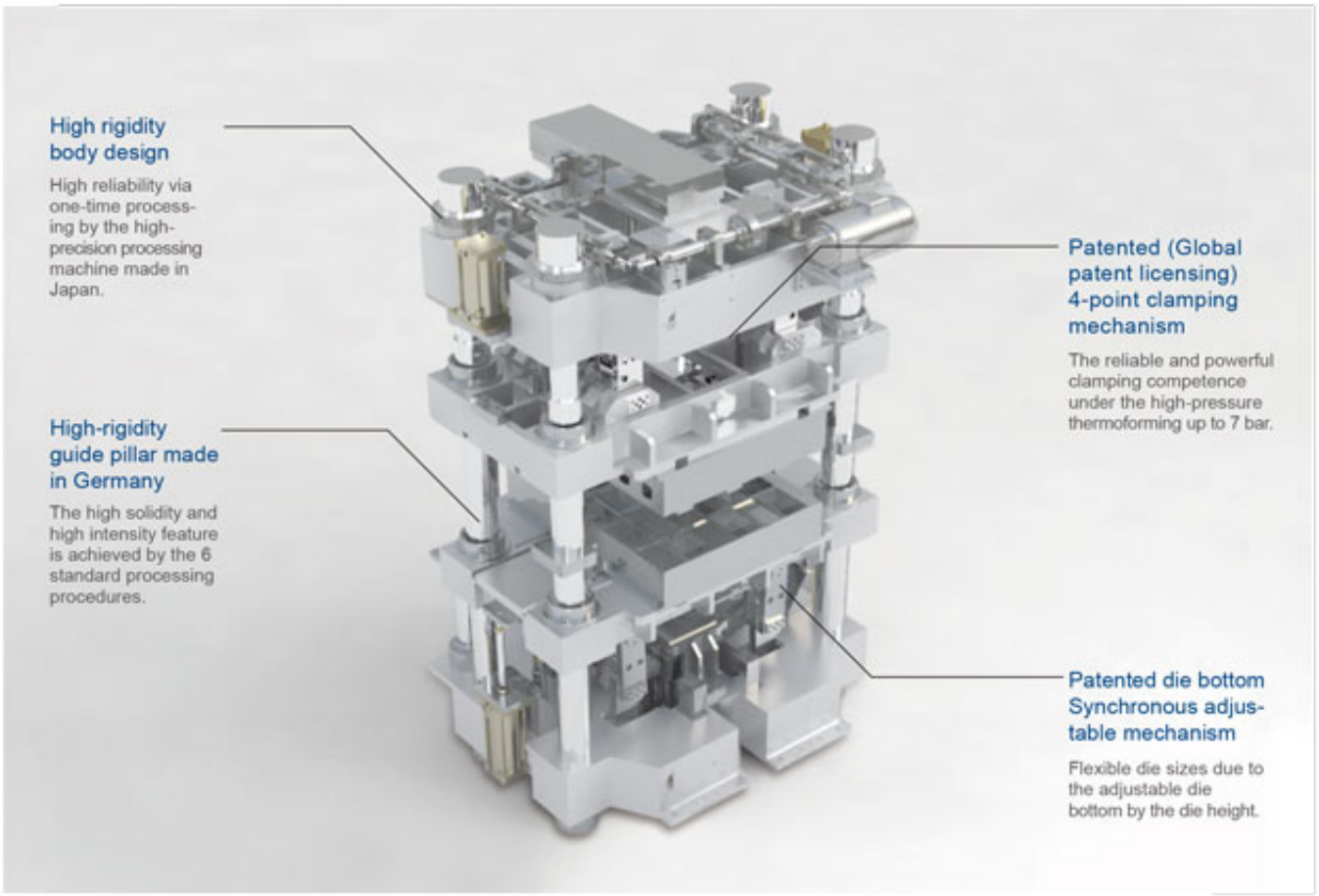
Chuliing designed this mechanism in pursuit of the high rigidity and high performance as the highest benchmark in the first place, and has invested vast R&D resources in the core structural design of thermoforming. The high-pressure thermoforming efficacy is achieved by the 4-point clamping mechanism solely developed by Chuliing equipped with the powerful robust clamping capability in combination with the 4-pillar high-rigidity thermoforming mainframe structure. Perfect thermoforming must be done in 0.5 second after clamping, so precision, stability, performance and efficiency of mechanical operations do matter the most. The Chuliing SL series with high-precision mechanisms and high-efficiency control components can make perfect finished items under easy calibration in producing respective materials besides reliable and stable outputs for the maximal effects of our clients.

High rigidity body design

Patented 4-point clamping mechanism



QDC System



4-pillar High-rigidity Thermoforming Mainframe Structure High-pressure Thermoforming Efficacy of Thermoforming Machinery.

Cutting-edge Automatic Thermoforming Technology

10 Strengths you cannot miss.

1 Servo feeding system

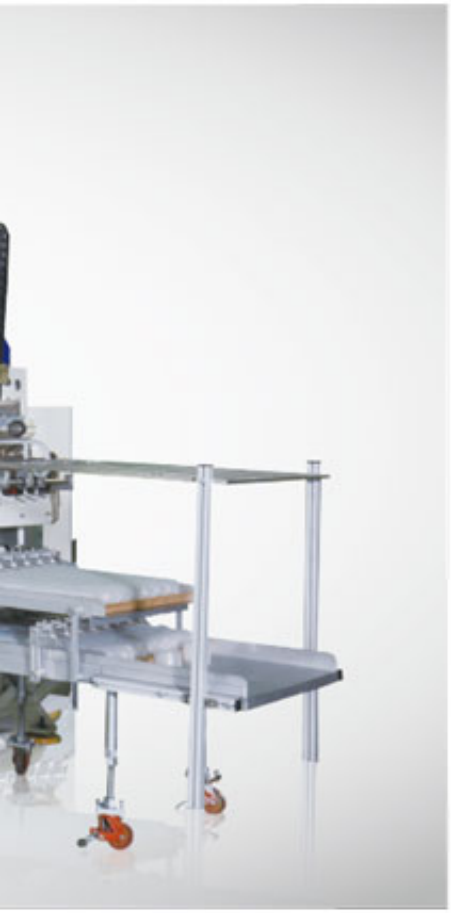
Stability and precision kept under high-speed feeding by hardware of the servomotor-driven feeding drum and Japan-made chain and software of the servo control system.

2 High pressure power

With the clamping power surmounting the industrial standard, Chuliing not only cuts the material thickness via high thermoforming solidity of finished items but also secures exceptional details and ease of thermoforming.

3 High rigidity body design

The one-piece body structure made of high-tensile steel make the equipment operate stably and smoothly with low vibration and low noise.



5 Lower temperature forming

Cold forming due to vast pressure power prevents leather from pulling due to overheat.
The effects include high-quality forming, energy saving and long life of furnace wires.

6 Low power consumption

The efficacy is advanced by vast pressure power and cold forming. The testing proves the production target attained under low power consumption by Chuliing-made equipment with 30% power saving and 40% compressed air cutting.

7 High-precision thermal control system

Each segment owns its independent thermal control and setting. The yield rate is improved by the precise temperature made up by the SSR PID controller.

8 Ample automation / Full automatic production

Chuliing has applied automation to each link for full automatic processing from automatic stacking & counting, automatic de-molding and automatic lubrication system to become the benchmark.

4 Long heating oven with segments (optional)

The standard heating oven 3000 mm long helps thermoforming operated well. The heating device by segments 3-5 is optional for flexibility. The thermal control is precise by installing the ceramic heaters made in Germany to upper and lower stoves.

9 4-column high-rigidity guide column mechanism

Stable and precise thermoforming and high reproducibility of clamping positioning via the guide column made of top steel in combination with the 4-column structure of the die backer.

10 Registration forming function

The registration system for printed materials in need of auto-feeding positioning and forming is optional.

SL-1220A
Continuous Thermoforming Machine
High rigidity body for exceptional performance of energy saving

Features:

- High-rigidity design of machine bed: Integral casting design combined with high-tension steel plate structure offers steady and low noise operation.
- 4-column high-rigidity guide-rod mechanism: guide-rods are made of top grade steel, offering high repetitivity of mold clamping in combination with the 4-column mold structure for steady forming.
- Servo chain feeding system: Japanese chain operated by servo-controller ensures exact precision of high-speed feeding.
- Precision Temperature Control System: Independent temperature control with respective setting for each temperature zone, uses SSR with PID calculus for controlling the temperature, combined with high-speed transmission and control, offers precision adjustment and is convenience for elevated yield.
- Upper and Lower Heating Oven: German made ceramic heater, temperature accuracy can be controlled very well.
- Automatic Lubrication System: Automatic oil feed for slide parts, eliminating any failure resulting from insufficient lubrication

Optional Functions:

- Third-movement forming: servo-drive mechanism to enable arbitrary positioning and travel corresponding to mold height.
- Rim pre-heating system: pre-heating the material prior to material feeding, facilitating smooth operation of the subsequent process.
- Universal voltage: any voltage is available when specified in advance.
- CE Certificate
- EU version with entire stainless steel system.

Model	SL-1220 A
Max Forming Area	Max 1200 mm × 1000 mm Min 840 mm × 600 mm
Max Forming Height	150 mm
Clamping Force	84 tons
Max. Width of Material	1080 mm

※We welcome custom-made orders for special request.
※We reserve the right to modify the specifications of any of the above listed machines without notice.

The continuous thermoforming machine is the fruit of private R&D of technology and experience owned by Chuliing in the past 35 years. Each user has been amazed by its high-per-formance operation. In addition to smooth action, low vibration, low noise and high-speed round-trip positioning control, it does validly raise the output. The high-speed communication by the ceramic heaters and control system can maximize the effect of precise thermal control and meet the high-standard demand for thermo-forming precisely.

SL-520
Vertical Trimming Press
Perfect integration of innovation and convention

Features:

- High torque cam drive mechanism: precision processed machine bed offers high accuracy and powerful cutting torque.
- Servo feed system: servomotor driven steel feed roller offers precision positioning.
- Automatic stack/count function: based on quantity setting, automated stacking and discharge functions effectively reduce manpower consumption.
- Automatic mold release device: Servo-driven mechanism ensures fine-tuning position and speed of mold release.
- HMI system: offers direct parameter setting of 99 functions in the memory.
- Waste-reel device: waste material is automatically reeled, for subsequent chipping on completion of reeling.
- Automatic lubrication system: automatic oil feed for slide parts, totally eliminating part failure resulting from insufficient lubrication.
- HMI system: latest model Siemens control system offers user-friendly operation interface and powerful functionality.
- Alignment mechanism of innovative material: no wrench or spanner required for adjusting material width; fine-tuning achieved quickly and easily.

Optional Functions:

- Waste reeling and chipping machine: directly chips waste material, saving space for waste storage as well as manpower for waste material handing.
- Photo-sensor tracing function: detects material position for carrying out trans-mold hole punch.
- Universal voltage: any voltage is available when specified in advance.
- CE Certificate

Model	SL-520
Max. cutting dimensions	1100 mm × 400 mm
Max. material height	150 mm
Max. cutting speed	100 spm
Max. cutting travel	220 mm
Cutting capacity	8 tons
Machine weight	about 7500 kg

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The SL-520 vertical cutting machine made by Chuliing blends the mature hydraulic cutting structure design data-base and the prospective innovative concepts. The cutting processing adopts mechanical cam structure for stable and smooth operation. The integrated new-type control model digitalizes all production terms and makes their settings storable for easy operation. This not only alters the operating means that changes all parameters of the machine once the items are changed but also cuts the waste and the production line transfer time.

Worldwide

The most professional

Supplier of automatic thermoforming equipment and technology.

Cutting-edge technology
A wealth of experience

Since the founding of CHULIING in 1981, has been committed to the R&D for cutting, forming and lamination processing techniques in thermoforming field. In terms of integrated automation application, we have met our target to produce machines with optimal output through labor and waste saving to improve performance.

Global marketing global trust

Our machinery has been sold to nearly 60 countries in 5 continents. Many customers once used our equipments and technology are grateful and many customers return to make repeat purchases. We are your best partner in the global plastic packaging business.

Client orientated

Service is of utmost importance when delivering our products. Customer service, technicians and engineers are available to help you with any of your immediate needs after purchasing our machinery. We understand that a broken down machine means delays in production and losses for the company. Hence, we aim to provide a real time trouble- shooting service for you.

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