

Shanghai Lisen Machinery Co., Ltd. Shanghai Lisen Technology Co., Ltd.



[www.lisnmachinery.com](http://www.lisnmachinery.com)

Vacuum Forming & Vacuum Thermocovering Machine Series

Shanghai Lisen Machinery Co., Ltd.

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Shanghai Lisen Machinery Co., Ltd.

## About Us

LISN Group, established in 2006, is a professional manufacturer engaged in Vacuum Forming Machine (or called Thermoforming Machine) and Vacuum Thermocovering Machine with R&D, manufacturing, marketing & after-sales service. It covers an area over 60000 square meters, with more than 150 staffs including 35 senior technicians. Through continuous innovation and scientific management, we are growing fast with subsidiaries of Shanghai Lisn Machinery Co., Ltd., Shanghai Lisn Technology Co., Ltd., Dongguan Lisn Automatic Machinery Co., Ltd.

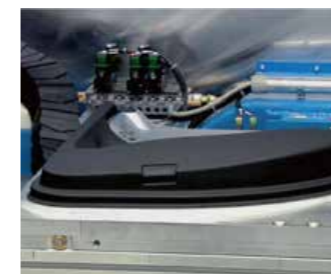
We strictly implement ISO9001: 2008 quality management system, all the machines have passed CE verification. To ensure high quality machinery, the key parts are imported from Germany & Japan, meanwhile, we adhere to continuous R&D, assign technicians to Germany & Japan for further learning and technological exchanges. With decades efforts and marketing, "LISN" brand is well recognized by customers home and abroad with annual turnover around USD 30 million.

With the principle of "Innovation Oriented, Credit Matters, Outstanding Service & Mutual Benefits", we, Lisn Group sincerely expect your visiting and cooperation. Let's make progress together!



### Vacuum Thermocovering (Vacuum Laminating):

This method has been developed to cover pre-formed substrates with flexible soft touch material with aesthetic appeal. The mold table has been especially constructed to travel out easily, allowing easy loading of substrates and removal of covered parts. With high control on vacuum, customers gain high definition on the part surface whether textures, lettering or sharp corners are involved.



### Application:

With the rapid development of automotive industry, the requirement of automotive interior parts is strict. Such as IP, door panel, dashboard, which are required compound soft cover. LISN devotes itself to providing the most advanced vacuum thermocovering technologies for the customers of automotive industry.



### Features:

- **IMG Technology**

Along with innovative technology high-quality vehicle interiors with an attractive design play an increasingly important role. Requirements such as minimal grain stretch, application of logos, grain adjustment of adjacent components as well as different grain zones cannot be realized by the conventional thermoforming processes.

The In Mould Graining (IMG) process offers the advantages of thermoforming while meeting all these requirements for an optimal surface – with no grain stretch.

- According to customer's different requirements, there are two kinds of feeding system, rolling and sheeting.
- Adopts infrared heating system, IR system can control the temperature independently.
- The machine with the functions of auto loading, vacuum thermocovering, auto trimming and waste recovery at the same time.







**Application:**

The material such as PP, PE, PS, PVC, PET, PETG, EPS, HIPS, HDPE, PMMA in soft film could be processed by this machine, it is an ideal vacuum forming machine for blisters, clamshell, plastic containers, fruit trays, egg trays, dishes, bowls, lids, medical packaging such as ampoule trays and vial trays, etc.



**Main technical parameters:**

Model	LS-ZX610
Applicable material	PP, PE, PS, PVC, PET, PETG, EPS, HIPS, HDPE, PMMA
Max forming size	610×760 mm
Max forming height/depth	100 mm
Max sheet diameter	Φ600mm
Sheet width	410~630 mm
Thickness of sheet	0.1~2.0 mm
Stroke of top mold	120 mm
Stroke of bottom mold	120 mm
Max cutting force	60 Tons
Power supply	3P 380V AC 50/60Hz or customize
Top heater power	30KW
Bottom heater power	30KW
Max power consumption	100KW
Air pressure	0.6-0.8 Mpa
Working speed	10~18 cycle/min
Overall size (L×W×H)	8000×1800×2200 mm
Weight	8000KG



Remark: We can provide customized machine according to user's requirement. Considering the development of machine, all data and pics is for reference only



**Application:**

The material such as PP, PE, PS, PVC, PET, PETG, EPS, HIPS, HDPE, PMMA in soft film could be processed by this machine, it is an ideal vacuum forming machine for blisters, clamshell, plastic containers, fruit trays, egg trays, dishes, bowls, lids, medical packaging such as ampoule trays and vial trays, etc.



**Main technical parameters:**

LS-ZX610	LS-610
Applicable material	PP, PE, PS, PVC, PET, PETG, EPS, HIPS, HDPE, PMMA
Max forming size	610×760 mm
Max forming height/depth	120 mm
Max sheet diameter	Φ600mm
Sheet width	470~670 mm
Thickness of sheet	0.15~2.0 mm
Stroke of top mold	120 mm
Stroke of bottom mold	120 mm
Max cutting force	60 Tons
Power supply	3P 380V AC 50/60Hz or customize
Top heater power	30KW
Bottom heater power	30KW
Max power consumption	80KW
Air pressure	0.6-0.8 Mpa
Working speed	10~18 cycle/min
Overall size (L×W×H)	8000×1800×2700 mm
Max cutting force	7000KG



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**Application:**

The material such as PP, PE, PS, PLA, PVC, PET, PETG, EPS, HIPS, etc. in soft film could be processed by this machine, it is an ideal thermoforming machine for disposable plastic cup, yogurt cup, cup lid, disposable food container, ice cream container, jelly pudding container, butter container, flavouring pickle container, soup bowl, food bowl, plate, flower pot, etc.



**Main technical parameters:**

Model	LS-730
Applicable material	PP, PE, PS, PLA, PVC, PET, PETG, EPS, HIPS, etc.
Sheet thickness	0.2~2.0 mm
Sheet width	660~750 mm
Max forming area	730×450 mm
Max forming depth	180 mm
Power supply	3P 380V AC 50/60Hz
Max consumed power	110KW
Air pressure	0.6-0.8 Mpa
Forming method	Pressure forming
Air volume required	2500-3500 L/min
Water volume required	40-45 L/min
Working speed	15-25 cycles/minute
Overall size (L×W×H)	7200×2800×2600 mm
Weight	About 6 T

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**Application:**

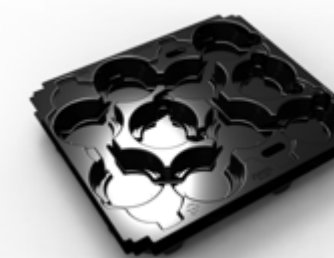
The material such as PP, PE, PS, PVC, PET, PETG, EPS, HIPS, HDPE, PMMA in soft film could be processed by this machine, it is an ideal vacuum forming machine for blisters, clamshell, plastic containers, disposable lunch box, fruit trays, egg trays, dishes, bowls, lids, medical packaging such as ampoule trays and vial trays, etc.



**Main technical parameters:**

Model	ACF-710
Applicable material	PP, PE, PS, PVC, PET, PETG, EPS, HIPS, HDPE, PMMA
Max forming area	710×1220 mm
Max forming height/depth	220 mm
Sheet width	0.3~2.0 mm
Max. stroke of chassis	370 mm
Power supply	3P 380V AC 50/60Hz or customize
Max consumed power	36KW
36KW	0.6-0.8 Mpa
Working speed	5~8 cycle/min
Overall size (L×W×H)	7500×1500×2200 mm

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**Application:**

The material such as ABS, PP, PE, PS, PC, TPE, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG could be processed by this machine, it is an ideal vacuum forming machine for automobile parts like car foot mat, car trunk mat, car bumper, light box, plastic board, plastic containers, plastic pallet, plastic helmet, plastic covers, bathtub, fruit tray, suitcase, apparatus shell, instrument panel, refrigerator inner liners, etc.



**Main technical parameters:**

Model	ADF-2015
Applicable material	ABS, Acrylic, TPE, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG
Max forming length	1500 mm or customize
Max forming width	1000 mm or customize
Forming height	500 mm or customize
Thickness of sheet	2.0~8.0 mm
Power supply	3P 380V AC 50/60Hz or customize
Max consumed power	95KW
Air pressure	0.6-0.8 Mpa
Working speed	2~5 min/pcs
Overall size (L×W×H)	4100×2800×3000 mm or customize
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**Application:**

The material such as ABS, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG in thick sheet could be processed by this machine, it is an ideal vacuum forming machine for automobile parts like car foot mat, car trunk mat, car bumper, light box, plastic board, plastic containers, plastic pallet, plastic helmet, plastic covers, bathtub, fruit tray, suitcase, apparatus shell, instrument panel, refrigerator inner liners, etc.



**Main technical parameters:**

Model	ADF-1000
Applicable Material	ABS, Acrylic, TPE, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG
Max forming length	1500 mm or customize
Max forming width	1000 mm or customize
Forming height	500 mm or customize
Thickness of sheet	2.0~8.0 mm
Power supply	3P 380V AC 50/60Hz or customize
Max consumed power	95KW
Air pressure	0.6-0.8 Mpa
Working speed	2~5 min/pcs
Overall size (L×W×H)	4100×2800×3000 mm or customize
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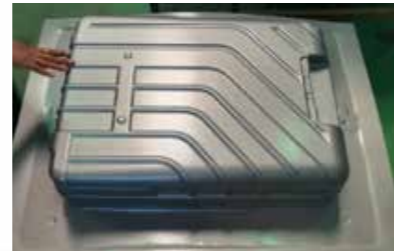






**Application:**

The material such as ABS, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG in thick sheet could be processed by this machine, it is an ideal vacuum forming machine for luggage shell, automobile parts like car foot mat, car trunk mat, car bumper, light box, plastic board, plastic containers, plastic pallet, plastic helmet, plastic covers, bathtub, fruit tray, apparatus shell, instrument panel, refrigerator inner liners, etc.



**Main technical parameters:**

Model	ADF-1080
Applicable Material	ABS, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG
Max forming length	1000 mm
Max forming width	800 mm
Max size of sheet	1025×825 mm
Forming height	500 mm
Thickness of sheet	1.0~3.0 mm
Power supply	3P 380V AC 50Hz or customize
Max power consumption	63KW
Air pressure	0.6-0.8 Mpa
Working speed	1~2 min/pcs
Overall size (L×W×H)	3550×1750×1700 mm
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**Application:**

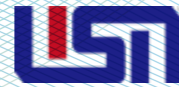
The material such as ABS, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG in thick sheet could be processed by this machine, it is an ideal vacuum forming machine for luggage, automobile parts like car foot mat, car trunk mat, car bumper, light box, plastic board, plastic containers, plastic pallet, plastic helmet, plastic covers, bathtub, fruit tray, apparatus shell, instrument panel, refrigerator inner liners, etc.

**Main technical parameters:**

Model	ADF-500
Suitable material	ABS, PP, PE, PS, PC, PVC, EPS, HIPS, HDPE, PMMA, PET, PETG
Max forming length	800 mm or customize
Max forming width	700 mm or customize
Max width of sheet	750mm or customize
Forming height	350 mm or customize
Thickness of sheet	1.0~3.0 mm
Power supply	3P 380V AC 50/60HZ or customize
Max consumed power	30KW
Air pressure	0.6-0.8 Mpa
Working speed	1~2 min/pcs
Overall size (l×w×h)	2500×1500×2500 mm or customize
Remark: We can provide customized machine according to user's requirement. Considering the development of machine, all data and pics is for reference only	







**Basic information:**

Cylinders	2
Columns	4
Cutting	head cutting
Cutting protection	PP board or wood board
Cutting depth	adjustable
Feeding table	Manual sliding feeding table
Working station	1
Power system	motor, hydraulic system
Cutting principle	cut with a cutting die



**Application:**

Widely used for cutting foam packaging, blisters, clamshell, plastic containers, fruit trays, egg trays, dishes, bowls, lids, medical packaging such as ampoule trays and vial trays, etc.

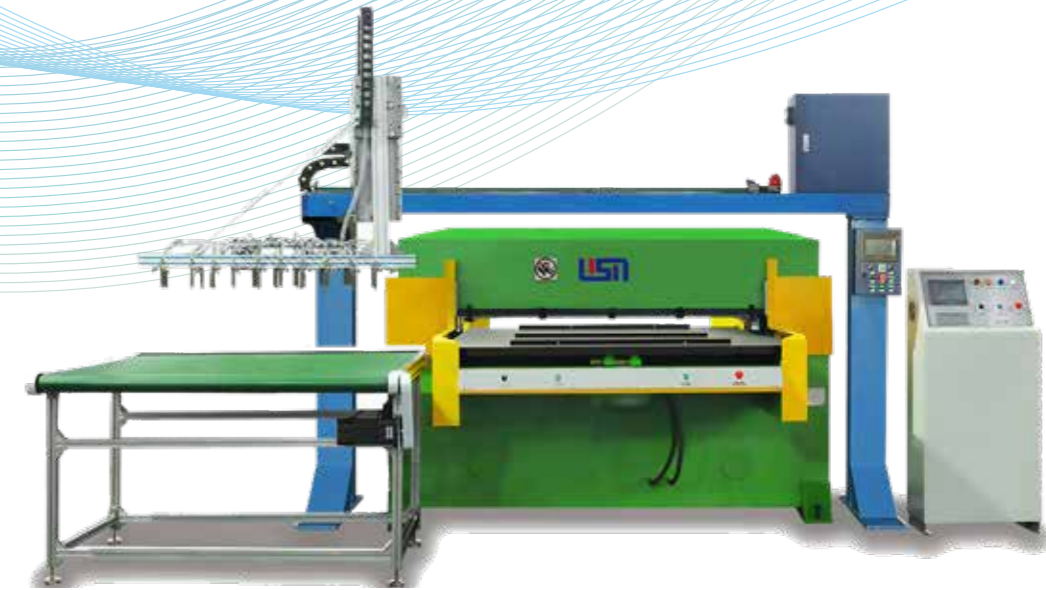
**Main feature:**

1. Precise cutting: Auto-balance structure of double-cylinder, four-column and self-balance connecting rod, makes sure equal pressure in any working area. Also, manual sliding table can provide clear vision for operator, so that the operator can align the drawing and die to the no-error cutting.
2. Easy to operate: One feeding table, suitable for sheet materials, can easily operated by one worker. Special cutting stroke setting system combined with cutting knife and cutting height, make stroke setting easy. Cutting depth can be fine adjusted easily.
3. All sliding parts of this machine are automatically lubricated by the hydraulic system, which reduces the wearing and prolongs the service life.
4. Equipped with central automatic lubrication system, can increase machine durability and prolong the service life.
5. Slow down when the cutting die touches materials, to ensure there is no size error between upper layer and low layer of the cut materials.
6. New structure design, can prevent oil leakage.
7. The ventilation and cooling conditions are good since external motor and oil pump are used, ensuring safe operation and long service life.
8. Setting cutting die is rapid, accurate and easy.
9. Imported electrical and pneumatic components from International well-know manufacturer make the machine features reliable quality and wearing well.

**Main technical parameters:**

Model	CLP4-40T	CLP4-80T	CLP4-100T
Max cutting force	40 Tons	50~200 mm	50~240 mm
Stroke adjustment range	50~150 mm	800 mm or customize	800 mm or customize
Cutting area	610×1600 mm	700 mm or customize	700 mm or customize
Motor power	2.2 KW	5.5 KW	7.5 KW
Power supply	3P 380V AC 50/60Hz or customize		
Overall size (L×W×H)	1950*1320*1260 mm	2330*1320*1260 mm	2330*1320*1260 mm
Net weight	1900KG	4000KG	4000KG

Remark: We can provide customized machine according to user's requirement.



**Application:**

Widely used for cutting foam packaging, blisters, clamshell, plastic containers, fruit trays, egg trays, dishes, bowls, lids, medical packaging such as ampoule trays and vial trays, etc.

**Basic information:**

Cylinders	2
Columns	4
Cutting	head cutting
Cutting protection	PP board or wood board
Cutting depth	adjustable
Feeding table	Manual sliding feeding table
Working station	1
Power system	motor, hydraulic system
Cutting principle	cut with a cutting die

**Main technical parameters:**

Model	LS-A100T
Max cutting force	100 Tons
Stroke adjustment range	50~240 mm
Cutting area	610×1600 mm or customize
Motor power	7.5 KW
Power supply	3P 380V AC 50/60Hz or customize
Overall size (L×W×H)	3000×2300×1570 mm
Net weight	4500KG

Remark: We can provide customized machine according to user's requirement.

**Main feature:**

1. Precise cutting: Auto-balance structure of double-cylinder, four-column and self-balance connecting rod, makes sure equal pressure in any working area. Also, manual sliding table can provide clear vision for operator, so that the operator can align the drawing and die to the no-error cutting.
2. Easy to operate: One feeding table, suitable for sheet materials, can easily operated by one worker. Special cutting stroke setting system combined with cutting knife and cutting height, make stroke setting easy. Cutting depth can be fine adjusted easily.
3. All sliding parts of this machine are automatically lubricated by the hydraulic system, which reduces the wearing and prolongs the service life.
4. Equipped with central automatic lubrication system, can increase machine durability and prolong the service life.
5. Slow down when the cutting die touches materials, to ensure there is no size error between upper layer and low layer of the cut materials.
6. New structure design, can prevent oil leakage.
7. The ventilation and cooling conditions are good since external motor and oil pump are used, ensuring safe operation and long service life.
8. Setting cutting die is rapid, accurate and easy.
9. Imported electrical and pneumatic components from International well-know manufacturer make the machine features reliable quality and wearing well.





**Machine description:**

H.F welding & cutting machine can realize the tear-seal welding which is a dual process of simultaneously welding and cutting a material. This is achieved by incorporating a cutting edge adjacent to the welding edge. This compresses the hot PVC enough to allow the scrap material to be torn off. This technique can also be used to provide 'cut outs' to enable plastic packaging to be hung on sale displays. The machine features uniform welding thickness and smooth cutting edge.

**Application:**

It is suitable for welding and cutting the film of PVC, PET, APET, PS, TPU, EVA, PEVA. Special designed for welding of car sunvisor.

**Main technical parameters:**

Model	LS-8000SHF
Output power	8KW
Input power	15KVA
Power supply	3P 380VAC 50/60Hz or customize
Oscillating frequency	27.12MHz
Oscillating tube	Toshiba 7T69RB
Rectifier	Silicon Diode
Pressure way	Hydraulic
Pressure	≥ 3T
Gap of electrodes	250 mm or customize
Cylinder working stroke	200 mm or customize
Size of upper electrode (mm)	600×400 or customize
Size of work table (mm)	700×500 or customize
Welding time	0~10S (adjustable)
Remark: We can provide customized machine according to user's requirement.	



**Application:**

It can weld large area PVC/EVA/TPU product, such as car door inner panel, inflatable swimming pool, swimming ring, waterbed, inflatable boat, inflatable sofa, medical inflatable mattress, inflatable bed, etc.

**Main technical parameters:**

Model	LS-50KWH
Output power	50KW
Input power	100KVA
Power supply	3P 380VAC 50/60Hz or customize
Oscillating frequency	13.56MHz
Oscillating tube	Toshiba 9T94A
Rectifier	Silicon Diode
Pressure way	Hydraulic
Gap of electrodes	250 mm or customize
Cylinder working stroke	200 mm or customize
Size of upper electrode (mm)	1700×1000 or customize
Size of work table (mm)	2500×2000 or customize
Max. pressure	8T
Welding time	0~10S (adjustable)
Overall size (mm)	L 4500×W 3500×H 2000 or customize
Welding time	Depending on the configuration
Remark: We can provide customized machine according to user's requirement.	

