



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

ZN550 Automatic Positive&Negative Thermoforming Machine



Technical Parameters&Quotation

Name	Automatic Positive & Negative Thermoforming Machine
FOB Price	Contact me on +86 13566187377(Wechat/Whasapp)
Mold Price	\$, depending on the molds
Complimentary Machine	Vacuum pump (60 m ³ /h)
Packing	First wrapped by film, then in export wooden boxes, then in container.
Payment Term	T/T, 30% pay in advance, the balance should pay before delivery.
Delivery Time	45 Working days after deposit and drawing confirmed.
Installation	We will send technicians to your country for machine installation, debugging and training. Accordingly, the buyer shall bear all expenses required by our technicians during their stay in your country, including round-trip air tickets, accommodation, and food. The technician's salary will be paid by us during one week of stay. If it exceeds one week, the technician's salary is paid by the customer. Costs \$120 per day.
Guaranty Terms	We seller guarantee the machines are new and the guarantee period will be given 12 months which starts from the date of the machine's arrival. During this period, the seller will provide free maintenance and free spare parts that caused by the machine's quality .



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Functional Overview

This machine is a multi station automatic machine, solving the problems of food packaging hygiene standards. It not only works effectively in the production of PP, PS, PET, PVC and PLA plastic products, such as reducing capital investment, large labor input, complicated production process, lower hygienic security, etc, but also has extensive usage. It can be used in the production of PP, PS, PET, PVC, PLA plastic products using in metals, food, pharmaceutical, etc. All in all, this automatic positive and negative plastic containers making machine enjoys beautiful appearance and good price. It is popular with the customers at home and abroad.



Technical Parameters



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Model	ZN550
Suitable Products	Disposable Plastic lids/covers, clamshell boxes, plates, (egg) trays , containers, etc.
Suitable Material	PP, PS, PET,PLA, PVC, EPS
Max. Width of Material	580mm
Max. Forming Width	550mm
Max. Forming Length	350mm
Max. Forming Depth	80mm
Max. Cutting Speed	10-25 Cycles/min
Material Thickness	0.1mm-1.2mm
Main Power	49KW
Power	380V/ 50HZ (Three-phase and four-wire)
Pressure of Water Supply	0.2MPa
Water Consumption	0.3m3/h (Tap water or Circulating cooling water)
Air Exhaust Volume	≥0.8m3/min
Air Pressure	0.6-0.8MPa
Machine Install Size	8200×3000×2400mm
Machine Packing Size	6000×2000×2300mm
Weight	5500KG

Remark: Due to technical improvements, the manufacturer reserves the right to modify the above parameters and functions without prior notice.



BOCHENG
MACHINERY CO.,LTD.

瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China

Jane : +86 13566187377(Wechat/Whasapp)

Email: info@bcmachinery.cn

www.bochengjx.com

No.	Name	Brand and state
1	Programmable Logic Controller (PLC)	Using INOVANCE PLC programmable control and man-machine interface INOVANCE 10 inch color touch screen operating system, which can greatly improve the stability of each movement process and response speed.
2	Touch Screen	INOVANCE 10 inch color touch screen
3	Planetary Gearbox	Chinese brand
4	Vacuum pump	60m ³ /h
5	Water chiller	Need a 5HP industrial water/air chiller
6	Relay	Schneider
7	Solid State Relay	Yangming (Taiwan)
8	Solenoid valve	AIRTAC (Taiwan)
9	Transtecno	INOVANCE
10	Heating system	The furnace is 3 times length of the forming station, made of heat-resistant stainless steel. We use far infrared ceramic heaters (Chinese brand) and heat-resistant wire with current overload protection to ensure that difficult materials and high-temperature resistant materials are heated evenly. The qualified rate of finished products reached 99.9%
11	Temperature control system	INOVANCE temperature module thermostatic control with memory, one-key full control of temperature rise, one-key full control of temperature drop
12	Sheet loading	Double rods automatic feeding coil device,which can reduce the frequency of changing sheet rolls and improve the efficiency. It can hold about 600kg.
13	Surface Process	Using sliding doors made by tempered glass and all metal surfaces are treated with anti-rust, which can reduce the noise and is easy to clean.
14	Bearing	GCr15 Steel, high and even hardness and high wear resistance and fatigue resistance
15	Servo forming station	5 fulcrums station, which is more stable. It is controlled by an independent servo motor, 4.4kwr. Besides two 100 L(liter) air tanks for positive and negative pressure, which is more precise and the bottom will be more perfect. The max forming area is 550*350 mm and the max forming depth is 80 mm (adjustable). We can increase the height according to your requirements.



17	Servo cutting station	Five fulcrums station, more stable Servo motors 4.4kw, 80T cutting force. Easy-operation laser knife.
18	Servo punching station	Use a cylinder and Easy-operation laser knife.
19	Servo feeding system	3kw INOVANCE servo motor
20	Servo stacking system	Controlled by a 1.8kw INOVANCE servo motor, Automatic counting and stacking with one 20 L air tank

Servo Motors Details

Brand: INOVANCE(China)

Forming Station	4.4kw
Punching Station	/
Cutting Station	4.4kw
Stacking Station	1.8kw
Pulling/Feeding	3kw
Total	4 PCS

Note: Brand can be customized according to customer needs.

Machine Configuration List

NAME	BRAND
Touch Screen	INOVANCE China
PLC	INOVANCE China
Encoder	Korea
Relay	Schneider France
Proximity switch	Schneider France
power switch	Schneider France
Servo Motor	INOVANCE China
Temperature module	Hexin China
Circuit breaker	Schneider France
Button switch	Schneider France
Emergency stop switch	Schneider France
Solenoid valve	AIRTAC Taiwan
Cylinder	AIRTAC Taiwan
Solid state relay	Yangming Taiwan
Reducer	Tongli China
Pressure reducing valve	AIRTAC Taiwan



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

ZN650 Automatic Plastic Thermoforming Machine



Function Brief Introduction

1, **Control system:** Through the combination of motion control module, 3D industrial touch screen, servo motor, photoelectric, temperature control and other intelligent control system, the operation is simple and intuitive, our pursuit is any basic level worker can run the machine with instruction.

2, **Traction:** High power servo traction feeding device ensures the traction length of sheet (thickness 0.1mm-1.5mm) with accuracy.

3, **Structure:** Forming, Punching, Cutting and Stacking are driven by well known servo motor. Each station is able to operate independently, imported five-axis processing equipment ensure high efficiency and stability of production.

4, **Forming:** Using the ultra-long upper and lower heating box of far-infrared ceramic heating brick, intelligent temperature control, positive and negative pressure forming structure, to ensure that difficult materials, temperature resistant materials are heated evenly, so that the product thickness is uniform, beautiful appearance, so as to enhance the market competitiveness

5, **Mold:** Aluminum alloy (imported air permeable aluminum) forming mold made by CNC fine engraving and milling, positive and negative pressure, water circulation structure, speed up the molding, cooling speed; The die punching is made by hardware knife or laser knife (depending on the



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

product); The die punching is made of laser cutter movable structure, which has the advantages of improving the punching accuracy (error within $\pm 0.2\text{mm}$), reduces mold cost, shortens mold production time, and makes mold change easily.

6, **Whole machine:** The frame is welded with steel box body combine with Welding, Molding, Punching and Cutting four station, with strong structure and no deformation. Both the bracket and box body are pressurized, with high density. The shape is designed with sliding door, beautiful appearance and easy to maintain.

Technical Parameters&Quotation

Name	ZN650 Multi-Stations Automatic Positive & Negative Thermoforming Machine
FOB Price	Contact me on +86 13566187377(Wechat/Whasapp)
Mold Price	\$, depending on the molds
Complimentary Machine	Vacuum pump (60 m ³ /h)
Packing	First wrapped by film, then in export wooden boxes, then in container.
Payment Term	T/T, 30% pay in advance, the balance should pay before delivery.
Delivery Time	45 Working days after deposit and drawing confirmed.
Installation	We will send technicians to your country for machine installation, debugging and training. Accordingly, the buyer shall bear all expenses required by our technicians during their stay in your country, including round-trip air tickets, accommodation, and food. The technician's salary will be paid by us during one week of stay. If it exceeds one week, the technician's salary is paid by the customer. Costs \$120 per day.
Guaranty Terms	We seller guarantee the machines are new and the guarantee period will be given 12 months which starts from the date of the machine's arrival. During this period, the seller will provide free maintenance and free spare parts that caused by the machine's quality .



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Machine Detailed Picture



Electrical box





BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Technical Parameters

Model	ZN-650
Suitable Products	Disposable Plastic lids/covers, clamshell boxes, plates, (egg) trays , containers, etc.
Suitable Material	PLA, PP, PS, PET, PVC, EPS,CORN STARCH etc
Max. Width of Material	690mm
Max. Forming Width	650mm
Max. Forming Length	500mm
Max. Forming Depth	100mm
Max. Cutting Speed	10-40 Cycles/min
Material Thickness	0.1mm-1.5mm
Heating Power	52KW
Total Power	75KW
Power	380V / 50HZ (220V 60HZ) Three phase four wire
Pressure of Water Supply	0.2MPa
Water Consumption	0.3m ³ /h 3P Chiller
Air Pressure	0.6-0.8MPa
Air Exhaust Volume	≥1.2m ³ /min
Air Compressor	11KW
Machine Install Size	9200×2100×2450mm
Machine Packing Size	9300×2200×2600mm
Weight	9000KG



BOCHENG
MACHINERY CO.,LTD.

瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China

Jane : +86 13566187377(Wechat/Whasapp)

Email: info@bcmachinery.cn

www.bochengjx.com

No.	Name	Brand and state
1	Programmable Logic Controller (PLC)	Using INOVANCE PLC programmable control and man-machine interface INOVANCE 10 inch color touch screen operating system, which can greatly improve the stability of each movement process and response speed.
2	Touch Screen	INOVANCE 10 inch color touch screen
3	Planetary Gearbox	Chinese brand
4	Vacuum pump	60m3/h
5	Water chiller	Need a 5HP industrial water or air chiller
6	Relay	Schneider
7	Solid State Relay	Yangming (Taiwan)
8	Solenoid valve	AIRTAC (Taiwan)
9	Transtecno	Chinese brand
10	Heating system	The furnace is 3 times length of the forming station, made of heat-resistant stainless steel. We use far infrared ceramic heaters (Chinese Brand) and heat-resistant wire with current overload protection to ensure that difficult materials and high-temperature resistant materials are heated evenly. The qualified rate of finished products reached 99.9%
11	Temperature control system	INOVANCE temperature module thermostatic control with memory, one-key full control of temperature rise, one-key full control of temperature drop
12	Sheet loading	Double rods automatic feeding coil device,which can reduce the frequency of changing sheet rolls and improve the efficiency. It can hold about 700kg.
13	Surface Process	Using sliding doors made by tempered glass and all metal surfaces are treated with anti-rust, which can reduce the noise and is easy to clean.
14	Lubrication system	Easy to maintain by adopting intelligent lubrication system which can lubricate automatically by a certain amount of time.
15	Bearing	GCr15 Steel, high and even hardness and high wear resistance and fatigue resistance
	Servo forming station	5 fulcrums station, which is more stable. It is controlled by 3 servo motors totally. 2 for upper and lower forming molds 4.5kw, one assistant stretching servo motor 3kw, to



16		help forming better. Besides two 100 L(liter) air tanks for positive and negative pressure, which is more precise and the bottom will be more perfect. The max forming area is 650*500 mm and the max forming depth is 100 mm. We can increase the height according to your requirements.
17	Servo cutting station	Five fulcrums station, more stable Upper and lower servo motors 5.5kw, 100T cutting force. Easy-operation laser knife.
18	Servo punching station	Upper and lower 5.5kw INOVANCE Servos, Easy-operation laser knife.
19	Servo feeding system	3kw INOVANCE servo motor
20	Servo stacking system	Controlled by a 1.8kw INOVANCE servo motor, Automatic counting and stacking with one 20 L air tank

Servo Motors for ZN650 Thermoforming Machines

Brand: INOVANCE (China)

Forming Station	Upper	5.5kw
	Lower	5.5kw
	Stretching	1.8kw
Punching Station	Upper	5.5kw
	Lower	5.5kw
Cutting Station	Upper	5.5kw
	Lower	5.5kw
Stacking Station	\	1.8kw
Pulling/Feeding	\	3kw
	Total	9 PCS



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

ZN760 Automatic Plastic Thermoforming machine



Technical Parameters&Quotation

Name	ZN760 Automatic Positive & Negative Multi-Stations Thermoforming Machine
FOB Price	Contact me on +86 13566187377(Wechat/Whasapp)
Mold Price	\$, depending on the molds
Complimentary Machine	Vacuum pump (60 m ³ /h)
Packing	First wrapped by film, then in export wooden boxes, then in container.
Payment Term	T/T, 30% pay in advance, the balance should pay before delivery.
Delivery Time	45 Working days after deposit and drawing confirmed.
Installation	We will send technicians to your country for machine installation, debugging and training. Accordingly, the buyer shall bear all expenses required by our technicians during their stay in your country, including round-trip air tickets, accommodation, and food. The technician's salary will be paid by us during one week of stay. If it exceeds one week, the technician's salary is paid by the customer. Costs \$120 per day.
Guaranty Terms	We seller guarantee the machines are new and the guarantee period will be given 12 months which starts from the date of the machine's arrival. During this period, the seller will provide free maintenance and free spare parts that caused by the machine's quality .



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Function Brief Introduction

ZN760 4-Station thermoforming machine is formed by splicing and welding steel structure profiles such as square pass and channel steel, which is used for assembling heating, mold table forming, mold table punching and auxiliary devices. The frame is welded with steel box body combine with heating, forming, punching and cutting and stacking stations, with strong structure and no deformation. Both the bracket and box body are pressurized, with high density. The shape is designed with sliding door, beautiful appearance and easy to maintain. All metal surfaces are treated with anti-rust and the bottom layer is sprayed with anti-rust paint; common parts and standard parts are used in the structure, which is convenient for later maintenance and replacement of all parts.



Technical Parameters



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Model	ZN-760
Suitable Products	Disposable Plastic lids/covers, clamshell boxes, plates, (egg) trays , containers, etc.
Suitable Material	PLA, PP, PS, PET, PE,PVC, EPS,CORN STARCH etc
Forming Method	Positive & Negative Pressure
Max Sheet Width	400-830mm
Max. Forming Width	760mm
Max. Forming Length	650mm
Max. Forming Depth	150mm
Max. Cutting Speed	10-40 Cycles/min
Material Cutting Thickness	0.1mm-1.0mm; over 1.0mm need heating function of cutting mold
Material Max Thickness	PS: 0.1-2.0mm PP: 0.1-1.5mm PET: 0.1-1.2mm
Power	Max Power 90KW ; Actual Consume Power approx 35KW
Voltage	380V / 50HZ OR 220V 60HZ Three phase four wire
Pressure of Water Supply	0.2MPa
Water Consumption	0.3m ³ /h 5P Chiller
Air Pressure	0.5-0.8MPa
Air Exhaust Volume	≥1.2m ³ /min
Air Compressor	≥11KW
Machine Install Size	10500mm×2100mm×2000mm
Machine Packing Size	10500mm×2100mm×2000mm
Weight	11000KG



Remark: Due to technical improvements, the manufacturer reserves the right to modify the above parameters and functions without prior notice.

Machine Configuration

No.	Name	Brand and state
1	Programmable Logic Controller (PLC)	Using INOVANCE PLC programmable control and man-machine interface INOVANCE 10 inch color touch screen operating system, which can greatly improve the stability of each movement process and response speed.
2	Touch Screen	INOVANCE 10 inch color touch screen
3	Planetary Gearbox	Chinese brand
4	Vacuum pump	60m ³ /h
5	Water chiller	10HP industrial water chiller
6	Relay	Schneider
7	Solid State Relay	Yangming (Taiwan)
8	Solenoid valve	AIRTAC (Taiwan)
9	Transtecno	INOVANCE
10	Heating system	The furnace is 3 times length of the forming station, made of heat-resistant stainless steel. We use far infrared ceramic heaters (Chinese brand) and heat-resistant wire with current overload protection to ensure that difficult materials and high-temperature resistant materials are heated evenly. The qualified rate of finished products reached 99.9%
11	Temperature control system	INOVANCE temperature module thermostatic control with memory, one-key full control of temperature rise, one-key full control of temperature drop
12	Sheet loading	Double rods automatic feeding coil device, which can reduce the frequency of changing sheet rolls and improve the efficiency. It can hold about 800kg.
13	Surface Process	Using sliding doors made by tempered glass and all metal surfaces are treated with anti-rust, which can reduce the noise and is easy to clean.



BOCHENG
MACHINERY CO.,LTD.

瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China

Jane : +86 13566187377(Wechat/Whasapp)

Email: info@bcmachinery.cn

www.bochengjx.com

14	Lubrication system	Easy to maintain by adopting intelligent lubrication system which can lubricate automatically by a certain amount of time.
15	Bearing	GCr15 Steel, high and even hardness and high wear resistance and fatigue resistance
16	Servo forming station	5 fulcrums station, which is more stable. It is controlled by 3 servo motors totally. 2 for upper and lower forming molds 4.5kw, one assistant stretching servo motor 3kw, to help forming better. Besides two 100 L(liter) air tanks for positive and negative pressure, which is more precise and the bottom will be more perfect. The max forming area is 760*650 mm and the max forming depth is 120 mm. We can increase the height according to your requirements.
17	Servo cutting station	Five point station, more stable Upper and lower servo motors 5.5kw, 100T cutting force. Easy-operation laser knife.
18	Servo punching station	Upper and lower 4.5kw INOVANCE Servos, Easy-operation laser knife.
19	Servo feeding system	4.5kw INOVANCE servo motor
20	Servo stacking system	Controlled by a 1.8kw INOVANCE servo motor, Automatic counting and stacking with one 20 L air tank

Servo Motors Specification

Brand: INOVANCE (China)

Forming Station	Upper	4.5kw
	Lower	4.5kw
	Stretching	3kw
Punching Station	Upper	4.5kw
	Lower	4.5kw
Cutting Station	Upper	5.5kw
	Lower	5.5kw
Stacking Station	\	1.8kw
Pulling/Feeding	\	4.5kw
	Total	9 PCS

Note: Brand can be customized according to customers' needs.



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

ABOUT US

Ruian Bocheng Machinery Co., Ltd. is established in 2008, and is located in Binhai Industry, Ruian city, Wenzhou, Zhejiang Province, China.

Based on market orientation and technology, we has vigorously designed and developed new products since it established.

With professional designers and production engineering technicians, we are specialized in producing full-automatic four stations plastic thermoforming machines, plastic lid forming machines, plastic vacuum forming machines, especially for making PLA & transparent PP package products. We seek for continuous innovation and development by integrating the stability and superiority of European technology, and take the customers' actual needs as the core designing concept for a long time, which improved our designs day by day and made our designs more effective and stable.



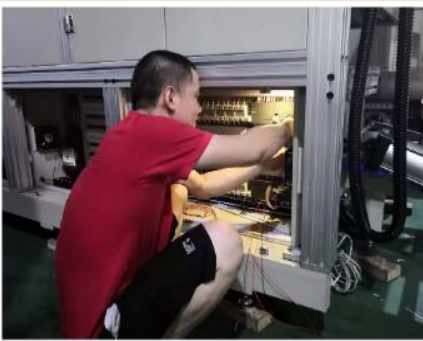
As a comprehensive company, we collect all the knowledge and resource and serve our customers with complete solutions in our area of plastic industry in order to create more economic value and offer the one-step service. We have passed several quality certificated systems and CE safety certificated system, and pay high attention to the new product innovation with rich technology and capital resource. We design and devolop at least one set new machine each year. Our machines have been widely used in many countries, such as Germany, France, Albania, Poland, Macedonia, Chile, Argentina, Ecuador, Middle East, Middle Asia, Southeast Asia, Africa and etc. We think it is the only way to achieve self-worth by creating value for customers. We look forward to cooperating with you.



BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Technical Team



Certification



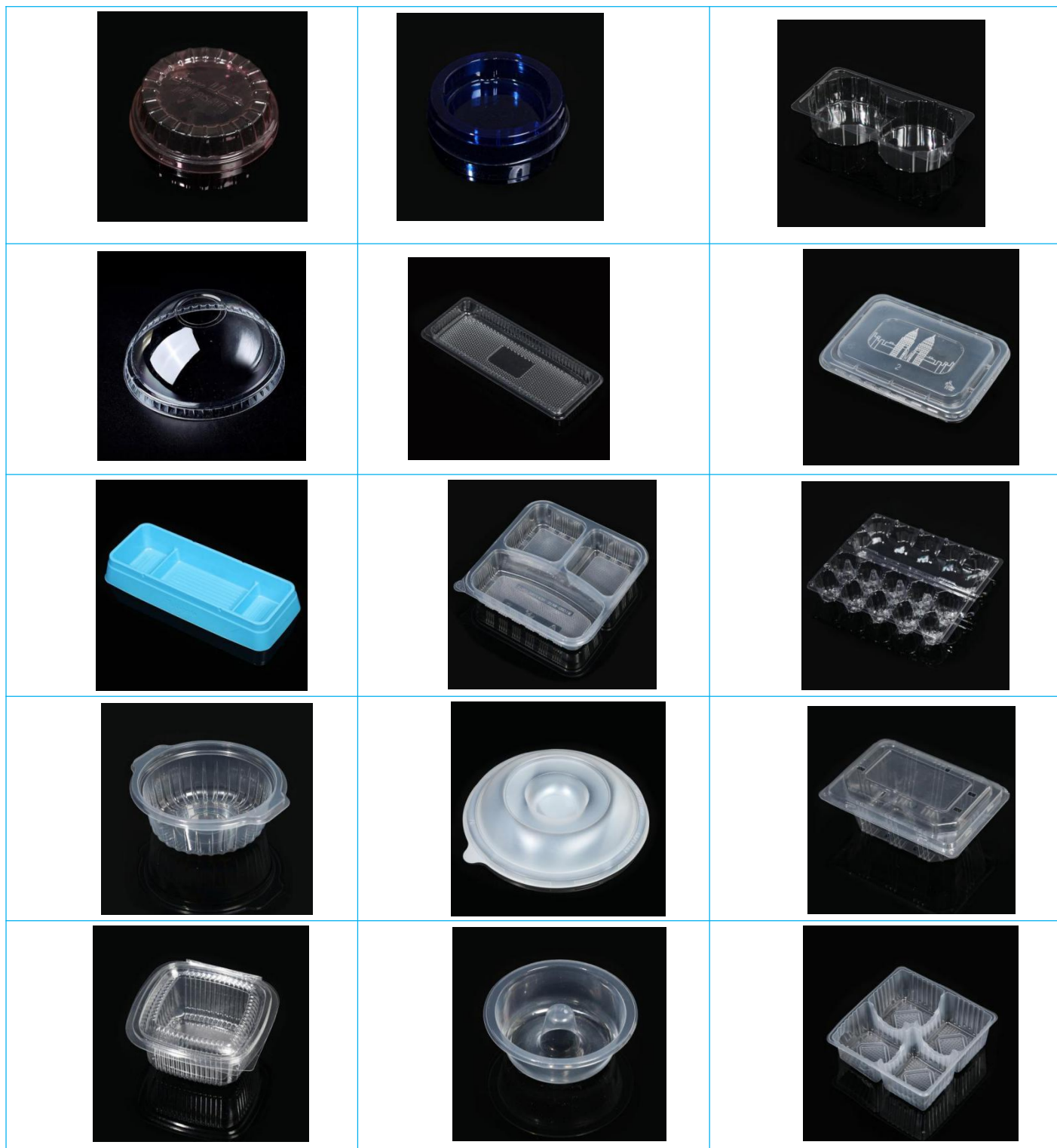


BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Applications

PLA, PVC, PET, PS,PP as raw materials, changing the mold at one machine to manufacturing lids, covers, trays, plates, boxes, food and medical trays, etc.





BOCHENG
MACHINERY CO.,LTD.
瑞安市博诚机械有限公司

No.358 Weier Road,Ruian City,Zhejiang,China
Jane : +86 13566187377(Wechat/Whasapp)
Email: info@bcmachinery.cn
www.bochengjx.com

Cooperate Friend Country

Now our machines have been widely used in many countries, such as Germany, France, Albania, Poland, Macedonia, Chile, Argentina, Ecuador, Middle East, Middle Asia, Southeast Asia, Africa and etc



Germany



France



Albania



Poland



Macedonia



Chile



Argentina



Ecuador



Nigeria



Egypt



India



Australia