

# RESOURCE REGENERATION INTEGRATED SOLUTION VR VISUAL EXPERIENCE



BESTON GROUP CO.,LTD

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# RECYCLING FOR BETTER LIFE





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# COMPANY PROFILE

FOCUS ON RESOURCE REGENERATION



Beston Group Co., Ltd. is the Environmental Protection Division of Henan Golee Holding Group, responsible for the promotion of resource regeneration solutions, equipment manufacturing and project implementation in the global market.

Beston was established in 2013, mainly engaged in: waste tires, plastic pyrolysis equipment, oil sludge pyrolysis equipment, waste oil distillation equipment, biomass carbonization equipment, sludge carbonization equipment, municipal waste sorting equipment, medical waste treatment equipment. As well as packaging technical solutions, installation and commissioning services, project operation services, etc.

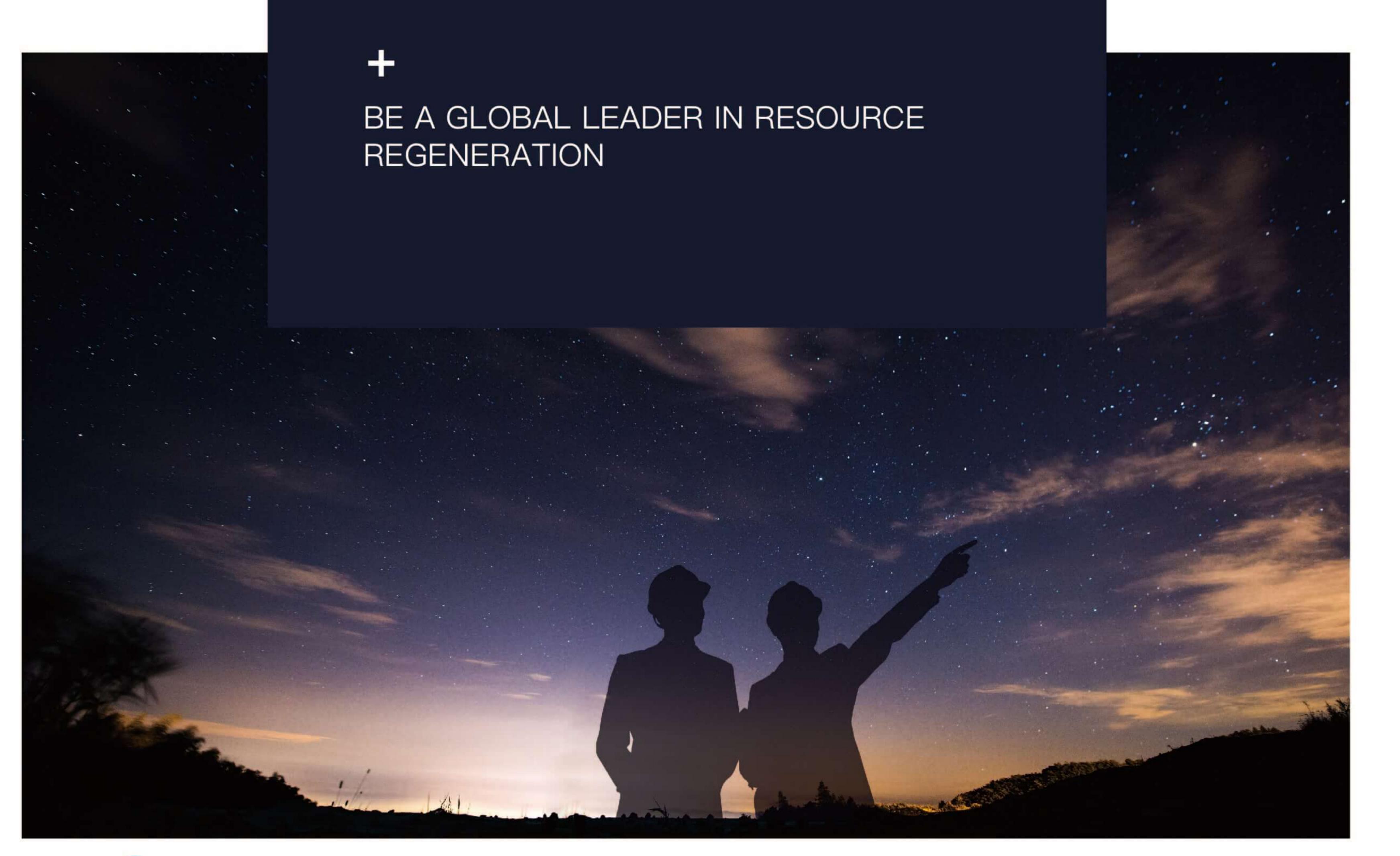


# R & D AND MANUFACTURE

The manufacture factory covers an area of 16000 m², has more than 10 sets of advanced machining equipment, and has more than 20 senior professional and technical personnel, including 2 doctors, 5 professors and 5 associate professors, and more than 10 senior technical engineers. and more than 30 production technicians.

# MARKETING

10 members team for online promotion and operation, 30 members team for international trade, and 8 members domestic business team, and 12 members after-sales team (more than 10 project operation engineers with foreign language skills and more than 5 years of experience).



# CERTIFICATION AND QUALIFICATION



ISO9001 quality management system certification.



ISO14001 environmental management system certification.



More than 15 inventions patented technology.



Product safety qualified through CE certification.

# (E)

### Government certification:

national high-tech enterprise, partner of Zhengzhou University, vice-chairman unit of Henan Internet Business Association, and member unit of China Rubber Industry Association.













# COMPANY STRATEGY

1004

Overseas exports to more than 100 countries and regions in the world.

30

Stable markets in more than 30 countries.

07

Set up overseas branches and offices in 7 countries.

With the mission of "focusing on the field of resource regeneration, continuing to provide customers with optimal solutions, and improving the global ecological environment", Beston adheres to the core values of "Customer-centric, Striver-oriented, Persistent team collaboration, Adhere to innovative management", and is committed to environmental protection industry.



In addition to mainland China, Beston has exported equipments to Russia, Central Asia, South Asia, Southeast Asia, East Asia, Middle East, Eastern Europe, Africa, Latin America and Australia, more than 100 countries and regions in the world, and had gained stable markets in more than 30 countries. In order to promote the pre-positioning of Cross-border e-commerce and Overseas customer service localization, Beston has set up overseas branches and offices in Romania, Brazil, Pakistan, Uzbekistan, the Philippines, Indonesia, Sri Lanka and other countries to continuously meet the diverse needs of overseas customers and provide customers with the best solutions and business success solutions. At present, Beston's projects in operation in the domestic and foreign have won customers and local government's unanimous praise.





# COMPANY CULTURE



### MISSION

To focus on the fields of resource regeneration, to continuously provide our customers with optimal solutions and improve global ecological environment



### VISION

Be a global leader in resource regeneration



### **VALUES**

Customer-centric, Striver-oriented, Persistent team collaboration, Adhere to innovative management



# DEVELOPMENT HISTORY

# 2013

In 2013, created international brand-BESTON;

# 2014

In 2014, the first oil sludge pyrolysis project was completed in Nigeria and officially entered the African market;

# 2014

In 2014, the first waste tire pyrolysis project was completed in Brazil and officially entered the South American market;

# 2015

In 2015, Henan Beigong Machinery Manufacturing Co., Ltd. was established, and the environmental protection equipment realized the integration of industry and trade;

# 2015

In 2015,

Russia Novosibirsk branch was established (joint venture);

# 2016

In 2016,

Pakistan, Philippines branch was established to start the operation of overseas warehouse projects;

# 2016

In 2016, expanded business in Spain and other European and North American markets, and increased sales in the global market;

### 2017

In 2017,

we set up a branch in Tashkent, Uzbekistan.

Layout of central Asian market;

## 2018

In 2018, the waste plastic pyrolysis project was completed in Romania, and Romania branch (joint venture) was established;

# 2019

In 2019, the process-based organizational transformation will created "iron triangle" marketing team(product manager-project consultant-delivery manager);

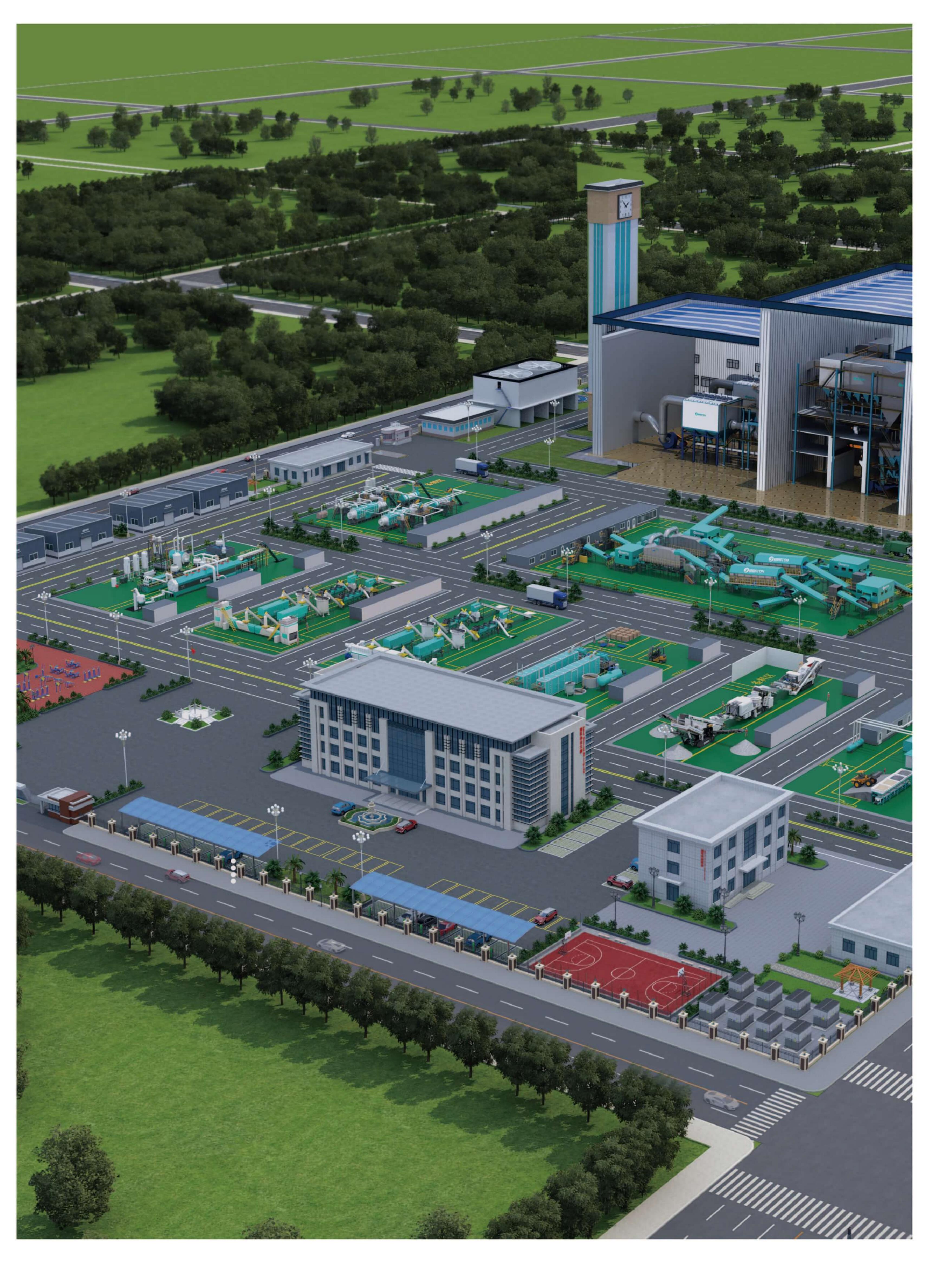
# 2020

In 2020, fully work resumption in the fight against the COVID-19 epidemic, and improve the online marketing and online after-sales service system;

# 2021

In 2021, Export sales of pyrolysis and carbonization industry ranked first, and egg carton industry ranked third.





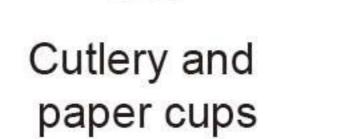
# INTRODUCTION OF SOLUTION



# PAPER PRODUCTS

Pulp molding equipment uses specific molds to process plant fiber raw materials into a proposed structural shape, and then finishes them to make functional products that protect and display the contents. The process is to process the waste paper, virgin pulp board or biomass fiber as raw materials into thick pulp through the pulping system, enter the homogenizing tank for stirring, adjust the appropriate concentration and then pump it into the molding system, according to the different mold shapes of the molding machine. It is processed into different products, and finally the excess moisture of the products is evaporated by the drying system, shaped into finished products, and processed into final products after trimming and other processes.







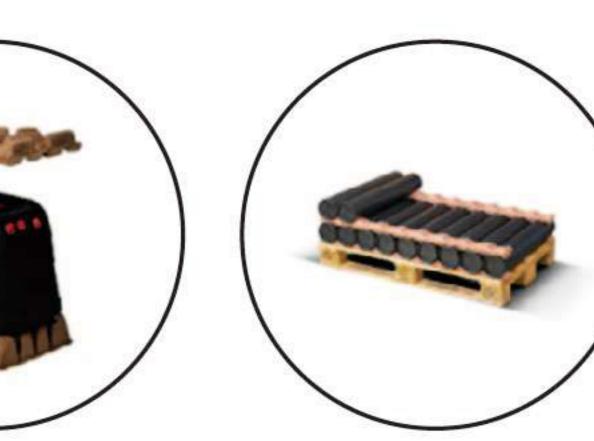
Electronic product



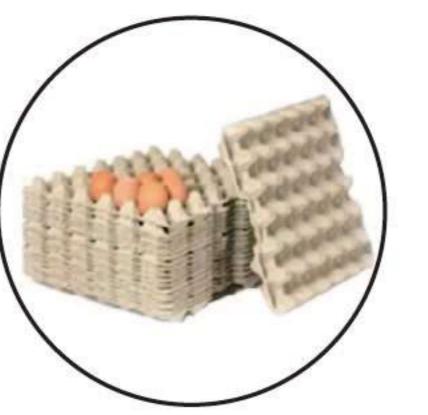
Chemistry and Pharmaceuticals



Car



Household Extruded Films equipment and Textiles



Draft Fan



Food and drink



Furniture



Garden and Gardening



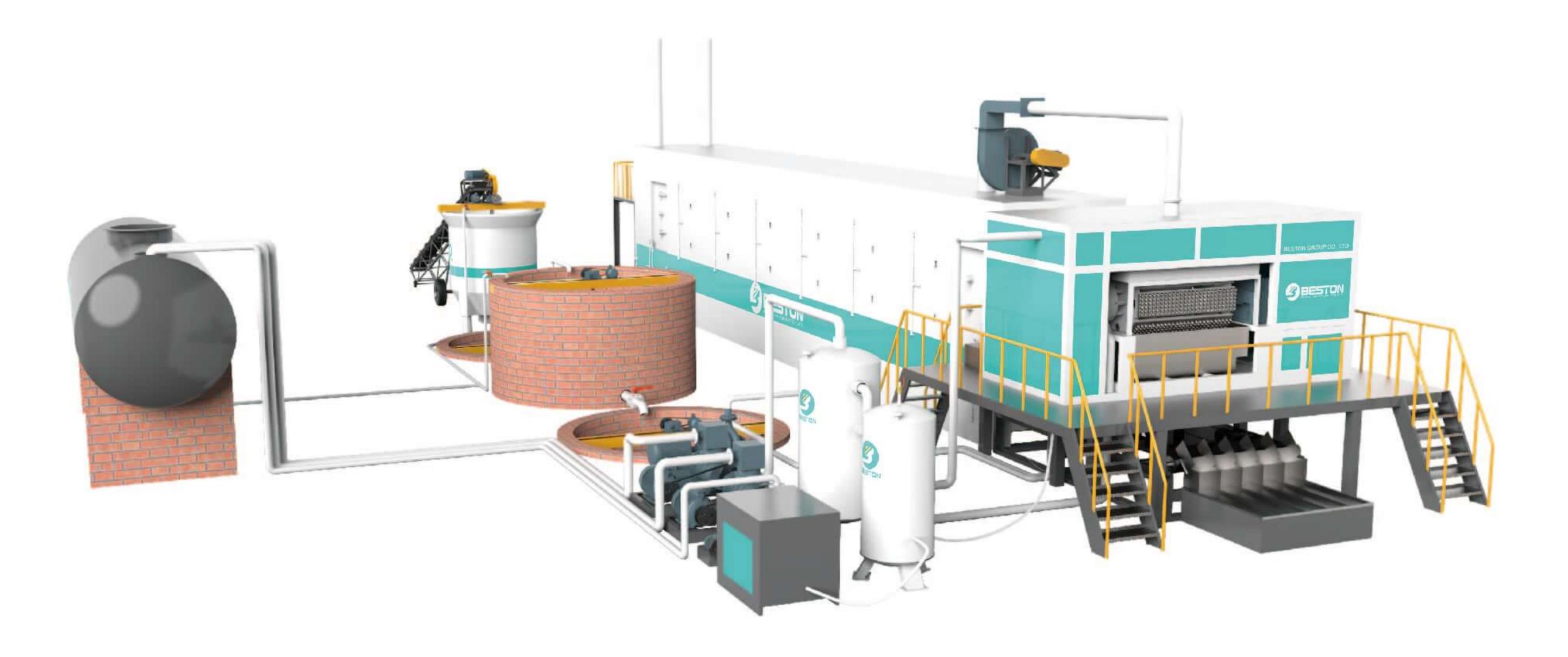
Health and beauty



Flexible packaging



# FOUR SYSTEMS



01 () · PULPING SYSTEM

02 • MOLDING SYSTEM

03 6 • DRYING SYSTEM

04 PACKING SYSTEM

### **PULPING SYSTEM**

The waste papers will be put into the hydraulic pulper. Under the power of water and impeller, the waste paper will be made into rough pulp.

According to customer's demand, we can provide vibrating screen and distributing machine to further increase the fineness of pulp and improve the quality of finished products.

Then the rough pulp will flow into homogenization pool. In homogenization pool, the rough pulp will be refined by the pulp beater. At the same time, different additives can be added to improve the quality of finished products.

At the same time, the concentration of the pulp will be adjusted well.

After adjusting the concentration, the pulp will flow into pool of finished pulp to supply plup to forming machine.



01 () · PULPING SYSTEM

02 • MOLDING SYSTEM

03 6 • DRYING SYSTEM

### MOLDING SYSTEM

The final pulp will be transported into forming machine by pulp pump from finished pulp pool.

Under the suction power of vacuum pump, the pulp will be adsorbed up on molds to form paper products.

Under the blowing force of air compressor, the formed paper products will be blowed off from molds to enter next process---drying system.

### 03.

### **DRYING SYSTEM**

paper products are dried by natural drying, brick drying or metal drying system.

### PACKING SYSTEM

Finally, the dried paper products are collected by the collector and packaged by the packaging system.



# PAPER PULP MOLDING EQUIPMENT — PAPER TRAY EQUIPMENT

# FREQUENTLY ASKED QUESTIONS



### Selection and characteristics of drying system?

Natural drying system(Without dryer):

- (1). Suitable for below 2000pcs per hour
- (2).Lowest drying cost, fast cost recovery
- (3). Affected greatly by the weather
- (4).Large area required for the site

Brick drying system(Automated drying):

- (1). Suitable for more than 2500pcs per hour
- (2). Drying is not affected by the weather
- (3).Drying effect is good
- (4).Client need to prepare the construction materials

themselves

Metal drying system(Automated drying):

- (1). Drying is not affected by the weather
- (2). Easy installation
- (3). Drying effect is good



How long does it take to dry the wet egg tray?

Natural drying takes about 4-6h, brick and metal drying takes about 15-20 minutes





### How to make pulp?

Our engineer will instruct you how to make pulp:

- 1.Overall ratio 3:1, 70%-75% water, 25%-30% paper
- 2.According to the situation of the paper products produced by the molding machine, then carry out the mixing until the requirements are met.



### How to customize a mold?

Beston provides customized service, you just need to send us the egg tray drawings or local egg tray samples, we will customize for you.

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### **About mold**

Molds for many different products can be used on the same machine. It means that one machine can produce many products, and you only need to buy additional molds.



### What is the voltage and power at which the equipment is operating?

Equipment must use three-phase power, voltage and power according to customer's local standards.



### What raw materials can be used?

Cartons, wrapping paper, books, notebooks, A4 paper, document paper, pulp, etc.

# PROFIT ANALYSIS

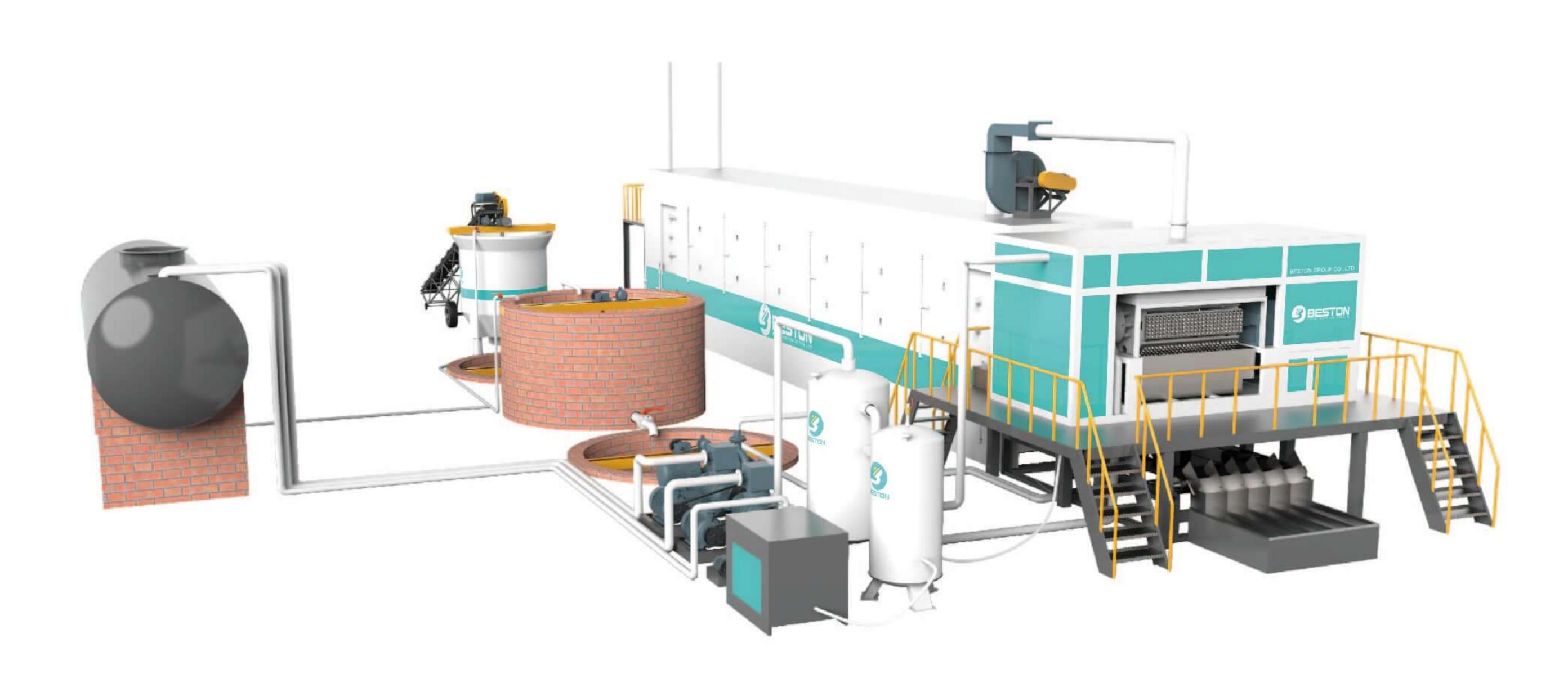
		Return on Inv	estment of E	3TF-5-8 egg tray p	production pro	ject		
Introduction	According to the market data of European market, the estimated ROI report, the various expenses are as follows:							
Fixed	ltem	Details	Unit	Unit price/USD	Quantity	Amount/USD	Total amount	Remark
	Equipment	BTF-5-8	Set	150500.00	1.00	150500.00		
	Transportation	From China to Destination port	Set	44000.00	1.00	44000.00		
		From Port to Site	Set	1600.00	1.00	1600.00		
	Customs tax	15%	Set	29175.00	1.00	29175.00		
		Beston technician's salary	Day	350.00	15.00	5250.00		
		Round - trip air tickets	Ea	2500.00	2.00	5000.00		
		Visa	Ea	350.00	1.00	350.00		
Investment Cost	Installation	Local welder	Day	120.00	40.00	4800.00		
		Local plumber	Day	120.00	40.00	4800.00		
		Local labor	Day	108.00	60.00	6480.00		
		Crane forklift	Day	160.00	10.00	1600.00		
	Materials	Installation materials ready	Set	2000.00	1.00	2000.00		Foundation, pipe, etc.
	License	1	Ea	0.00	1.00	0.00		Environmental, firefighting, etc.
	Workshop	1000	m²	380.00	1000.00	380000.00		Rent in rural area
							US\$: 635,555.00	
	Raw materials	Waste paper	Ton	0.00	9.56	0.00		22.5 hours per day working
	Water	/	m³	0.32	28.69	9.18		
	Electricity	1	KWH	0.08	2787.75	209.08		22.5H
Operating Cost	Fuel	Natural gas	m³	0.37	1485.00	549.45		
	Labor	1	People	108.00	4.00	432.00		
	Maintenance	1	Day	5.00	1.00	5.00		
	Depreciation	8 years	Day	264.81	1.00	264.81		
	Tax	5%				0.00		
							US\$: 1,469.53	
End Products Price	Egg trays	5000 pieces per hour	Pieces	0.05	112500.00	5625.00		
	Subsidy	1	Ton	0.00	0.00	0.00		
							US\$: 5,625.00	
Daily Income							US\$: 4,155.47	
Monthly Income	Working day		Day	25.00			US\$: 103,886.83	
Yearly Income	Working day		Day	300.00			US\$: 1,246,642.01	



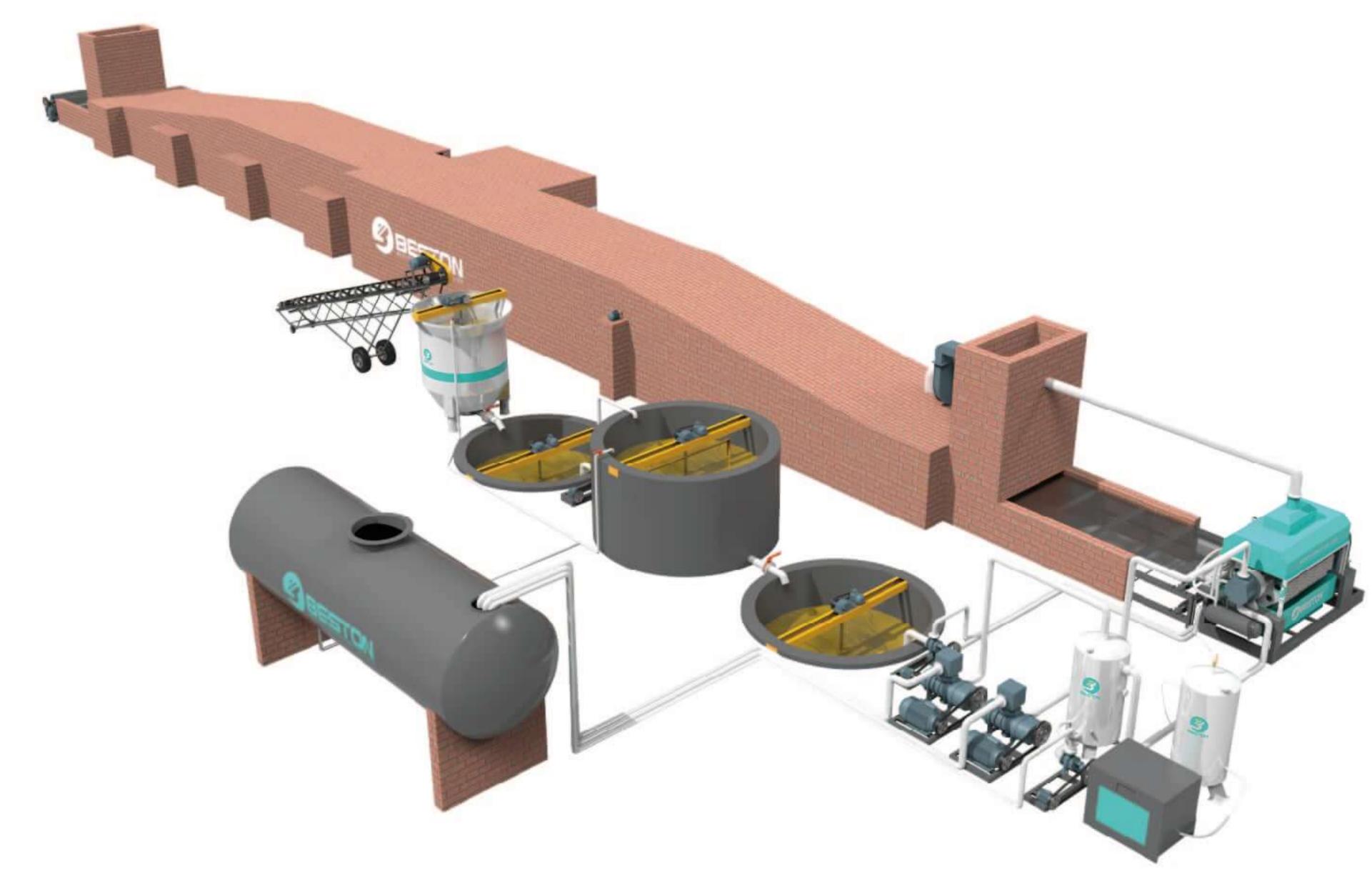
# MODEL PARAMETERS

Mc	del	Production	Mold	Drying system	Total power	Artificial demand
DTE 4	BTF-1-3	800-1000pcs/h	3	Natural drying	33kw	3-5
BTF-1	BTF-1-4	1200-1500pcs/h	4	Natural/Brick/Metal drying	42-61kw	4-6
BTF-4	BTF-3-4	1800-2500pcs/h	12	Natural/Brick/Metal drying	53.5-85kw	4-6
	BTF-4-4	2500-3000pcs/h	16	Natural/Brick/Metal drying	61-85kw	4-6
	BTF-4-8	4000-4500pcs/h	32	Brick/Metal drying	127-144kw	4-6
BTF-8	BTF-5-8	4500-5500pcs/h	40	Brick/Metal drying	161-177kw	5-7
	BTF-6-8	6000-7000pcs/h	48	Brick/Metal drying	223-226kw	6-8

# WHOLE AND COMPONENT DRAWINGS



5-8 SERIES METAL DRYING EQUIPMENT



5-8 SERIES BRICK DRYING EQUIPMENT











Molding machine

Homogenizer

Screw air compressor

Pulper

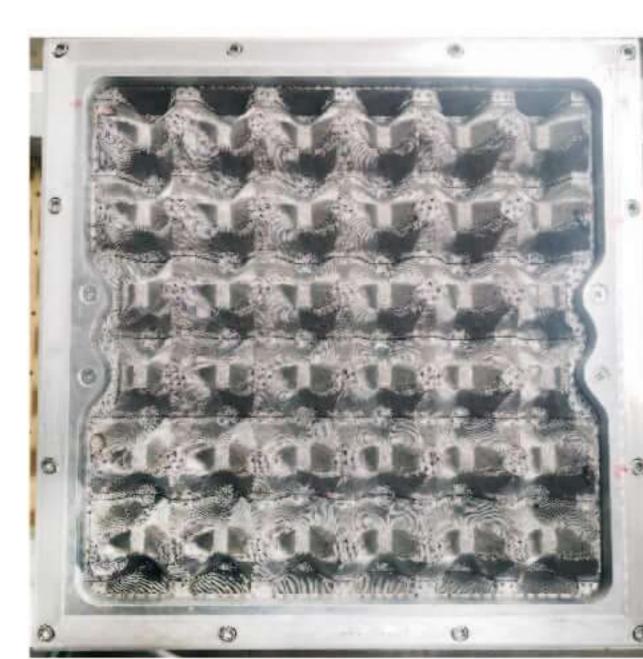
Vacuum pump

MAIN ACCESSORIES OF EGG TRAY EQUIPMENT









Egg tray mould (Plastic)

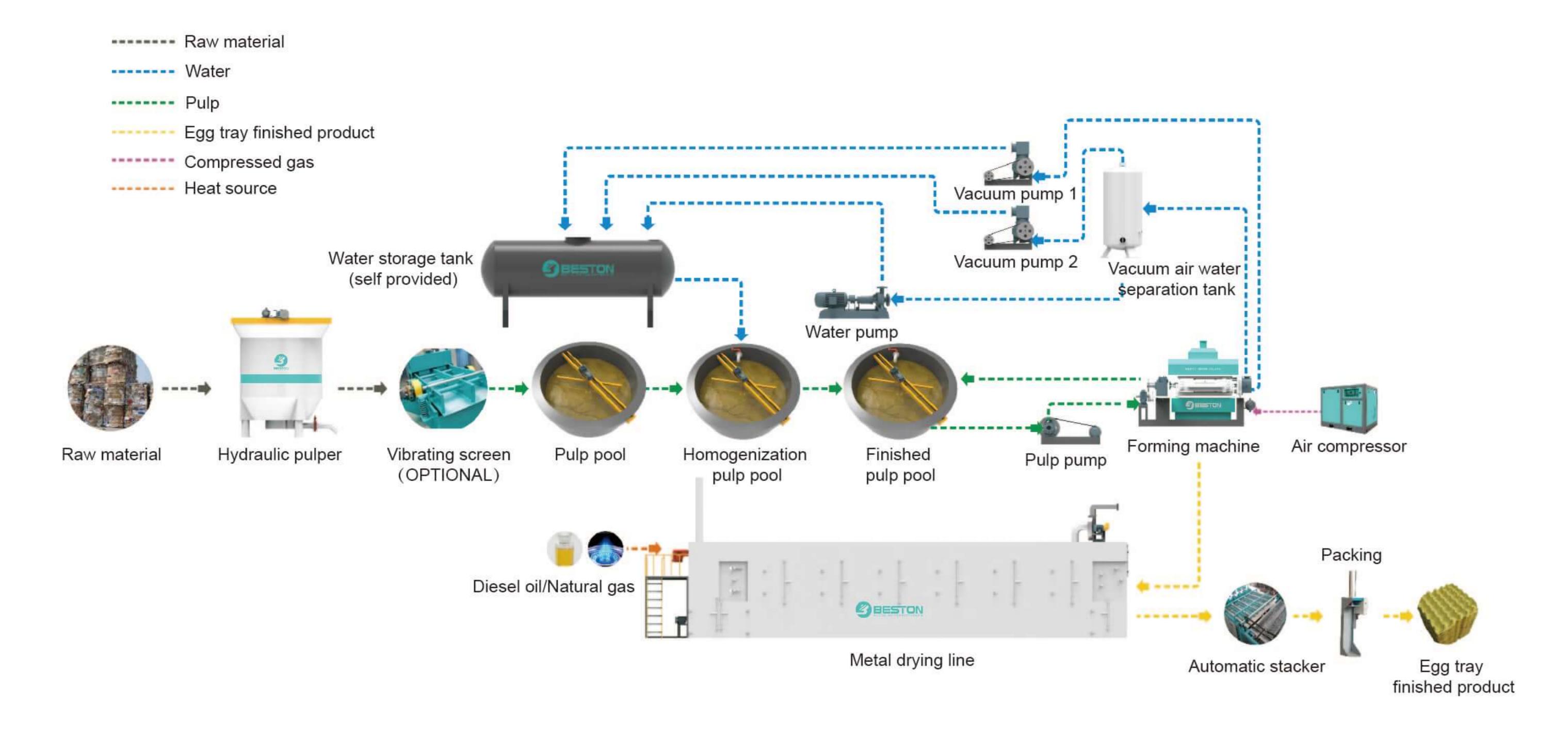
Industrial packing mold

Egg box mold

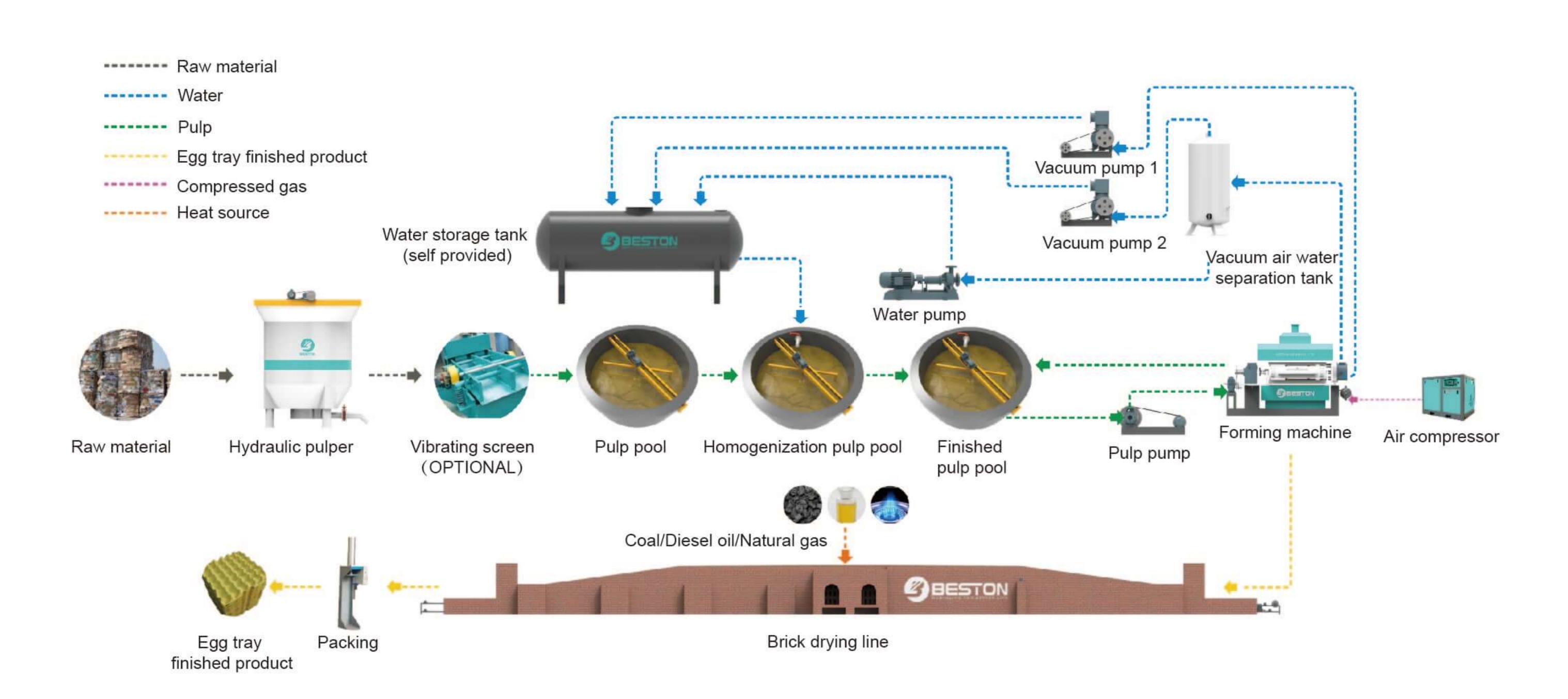
Egg tray mould (aluminum)

PRODUCT MOLD DISPLAY DRAWING

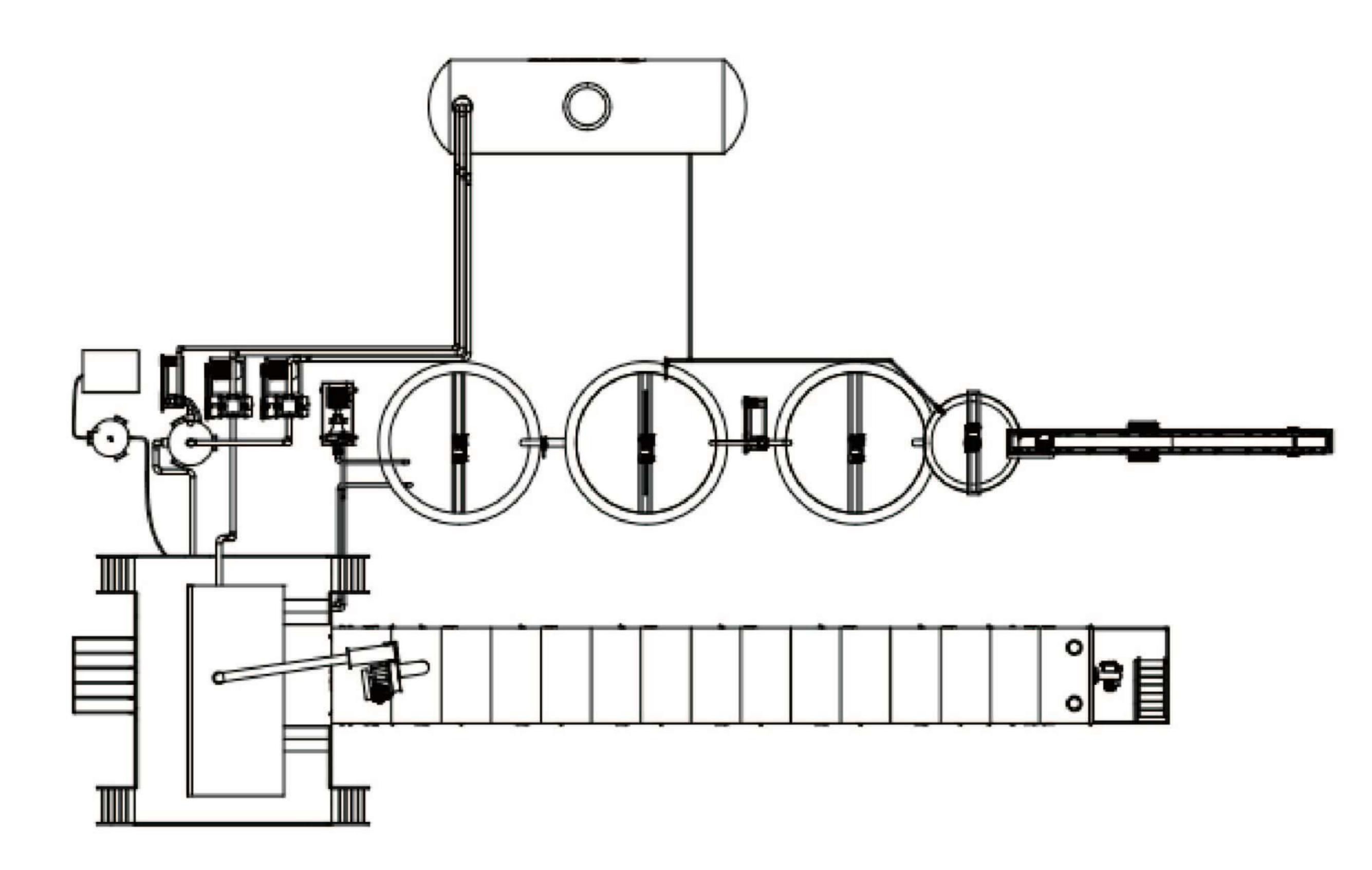
# FLOW CHARTS AND LAYOUT



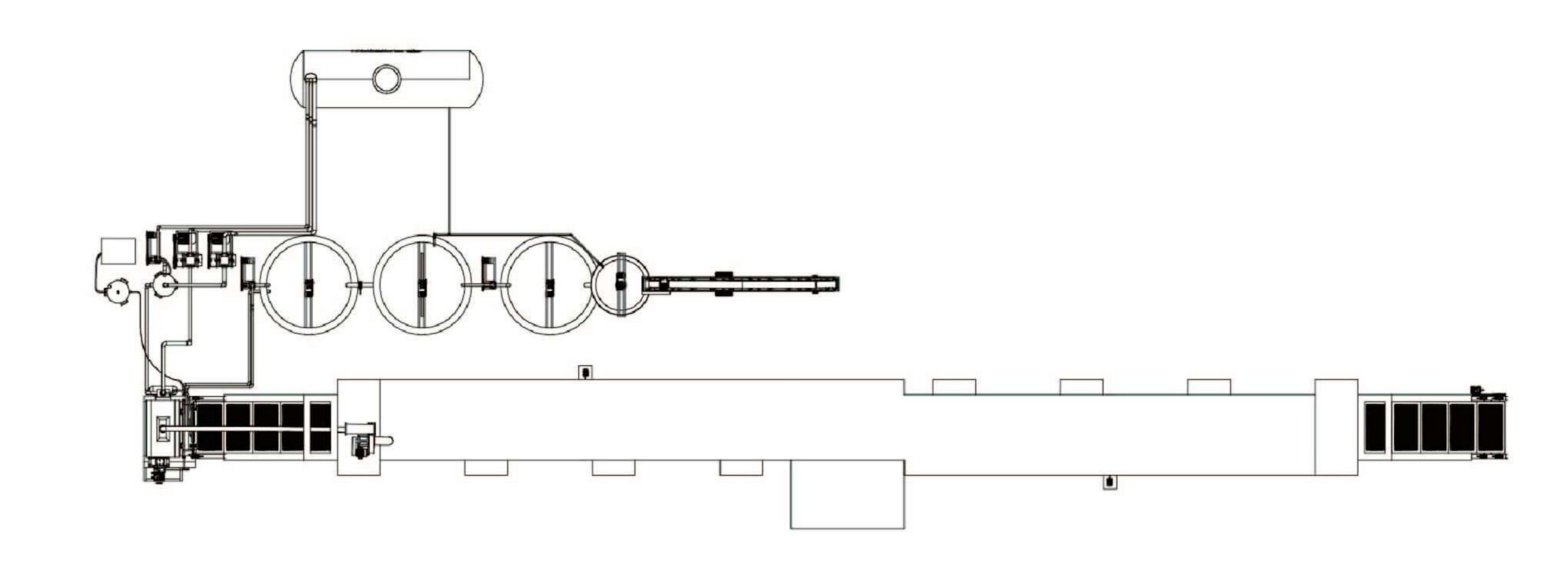
TECHNOLOGY FLOW CHART OF METAL DRYING EGG TRAY PRODUCTION LINE



TECHNOLOGY FLOW CHART OF BRICK DRYING EGG TRAY PRODUCTION LINE



METAL DRYER PRODUCT BLUEPRINT



BRICK DRYER PRODUCT BLUEPRINT



# PAPER PULP MOLDING EQUIPMENT — FOOD PLATE INDUSTRIAL PACKING EQUIPMENT

# FREQUENTLY ASKED QUESTIONS



How long does the hot presser work? What is the beating degree of pulp in production?

- 1.Hot press setting time in 20-30s.
- 2.Generally controlled at 28-30°SR.

# What additives can be used in food plate products? The amount of oil-proof agent?

- 1.Waterproof and oil-proof agent.
- 2.When using, dilute with soft water first. The general dosage is 4%-7% of dry fiber.



### Food plate equipment technology advantage

The molding, drying, shaping and even cutting are all completed continuously on one machine, with high efficiency and exquisite product quality. It is the main equipment for the production of food tableware and fine industrial packaging products.



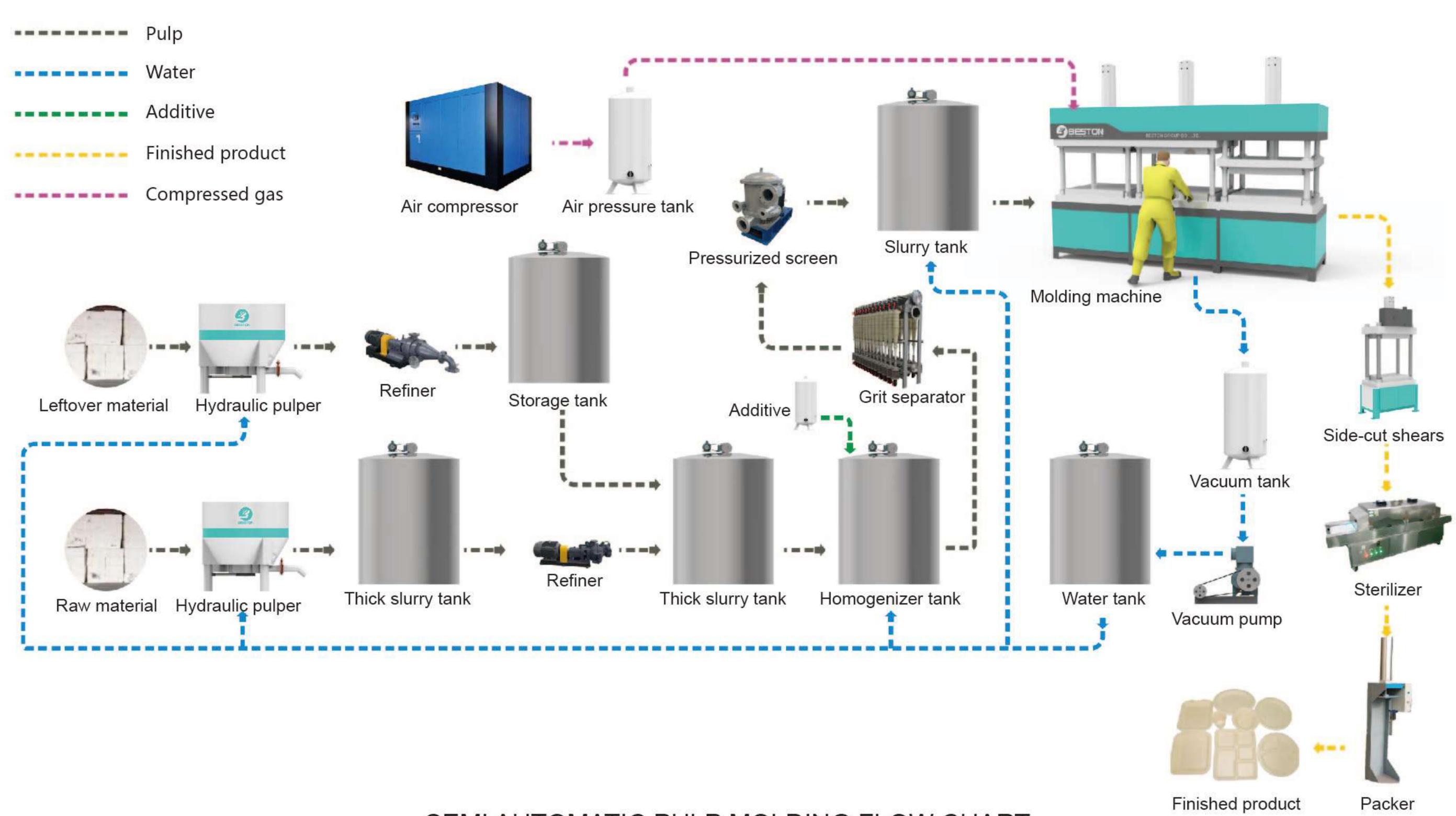
# PROFIT ANALYSIS

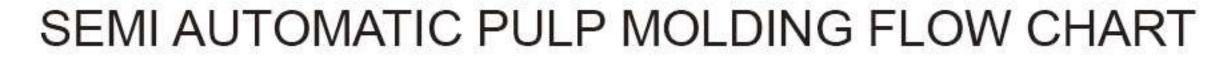
Investment income analysis of 10 tons per day							
Category	ltem	Balance fee	Itemized unit	Cost			
	Raw materials of straw	1926USD	18tons/day	107USD/ton			
	Electricity (estimated actual power consumption 70%)	1515USD	14066kwh/day	0.15USD/kwh			
Cost of pulping	Labor	550USD	6person/shift, 3shift/day	107USD/ton			
	Physic liquor	1230USD	10tons/day	123USD/ton			
	Water(mainly circulating water with less actual consumption)	215USD	35tons/ton of paper	0.6USD/ton			
	Electricity (estimated actual power consumption 70%)	7754USD	72000kwh/day	0.15USD/kwh			
	Labor	3850USD	5person/shift, 3shift/day	770USD/month			
	Waterproof and oil-proof agent (fiber 4%-7%)	230USD		230USD/ton			
Cost of Production	Water(mainly circulating water with less actual consumption)	24USD	4ton/day	0.6USD/ton			
	Average price of exports in foreign markets in 2021	3230USD/ton					
	Profit	15000USD/day					

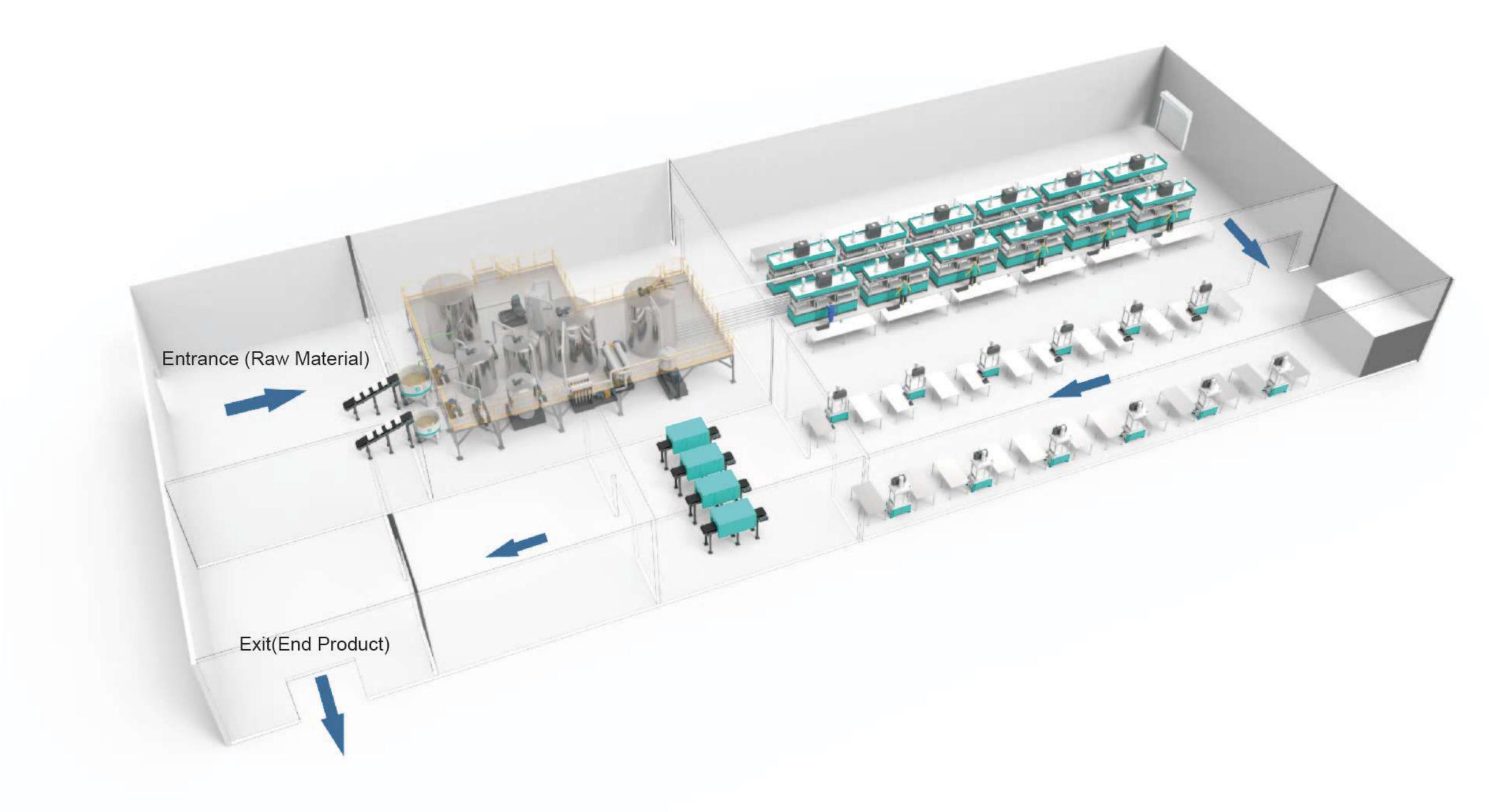
# MODEL PARAMETERS

Category	Semi-automatic grouting equipment	Semi-automatic grouting equipment	Fully automatic equipment	Fully automatic equipment (Industrial packaging)	
Model	BCP-760	BCP-950	BCP-950x	BGB-2x	
Size of template	760*635mm	950*950mm	950*950mm	600*800mm	
Capacity(24h)	100-120kg	300-400kg	600-800kg	2000 Station	
Size of equipment	3000*1000*3000mm	4100*1370*3300mm	5600*4000*3300mm	2200*3000*2500mm	
Weight	2.5/tons	5.5/tons	7.5/tons	5/tons	
Heating plate	Electrical heating 48kw or conduction oil	Electrical heating 96kw or conduction oil	Electrical heating 96kw or conduction oil	Electrical heater 90kw	
Product Height	35mm	35mm	35mm	60mm	
Hot-press pressure	20T	60T	60T	30T	
Labor	1	1	1	1	
Side cut	Optional	Optional	100T	Optional	

# EQUIPMENT FLOW CHART







PLANT PLANNING SCHEME





SEMI-AUTOMATIC MANUAL FOOD PLATE EQUIPMENT



FULLY AUTOMATIC TOOLING EQUIPMENT

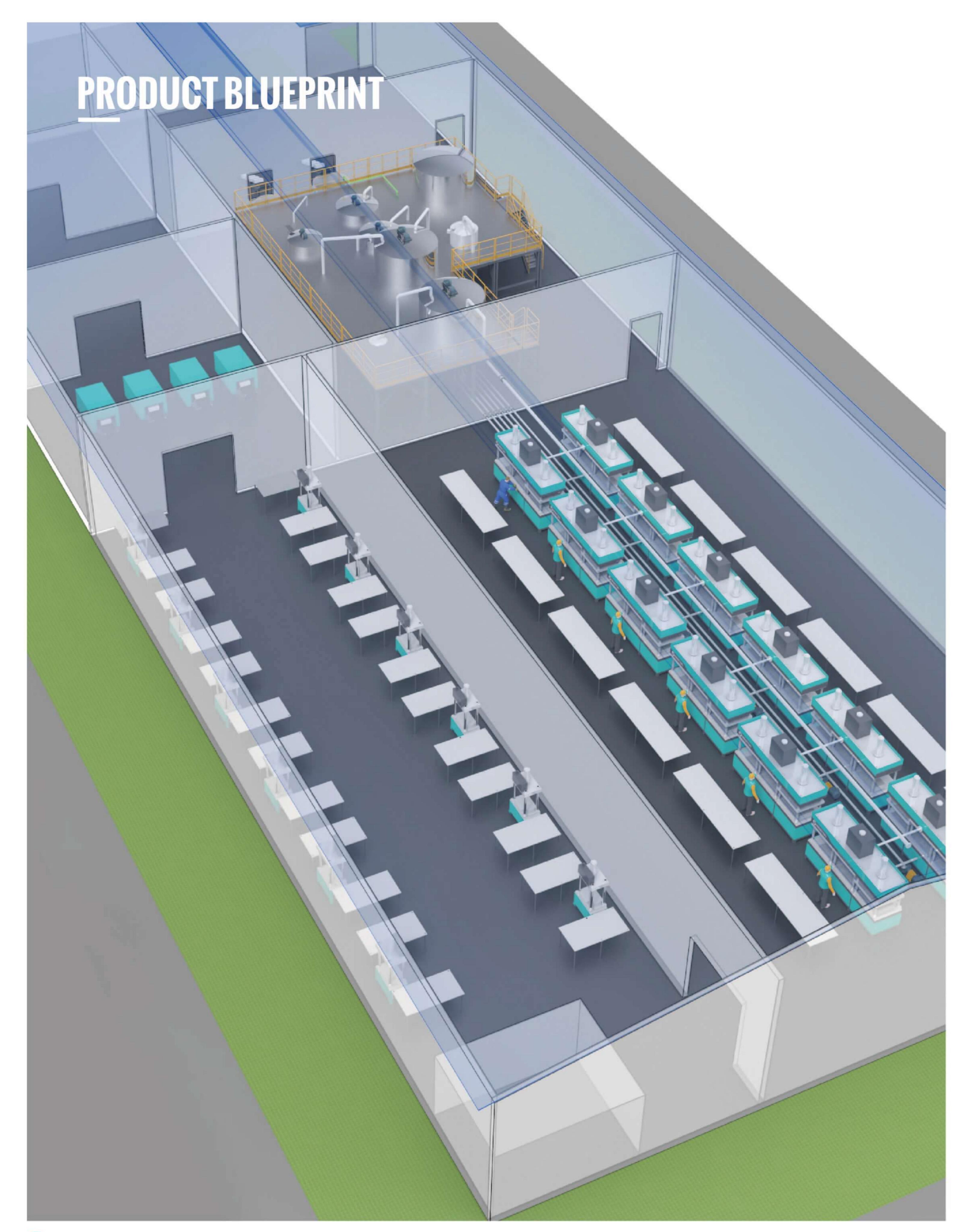


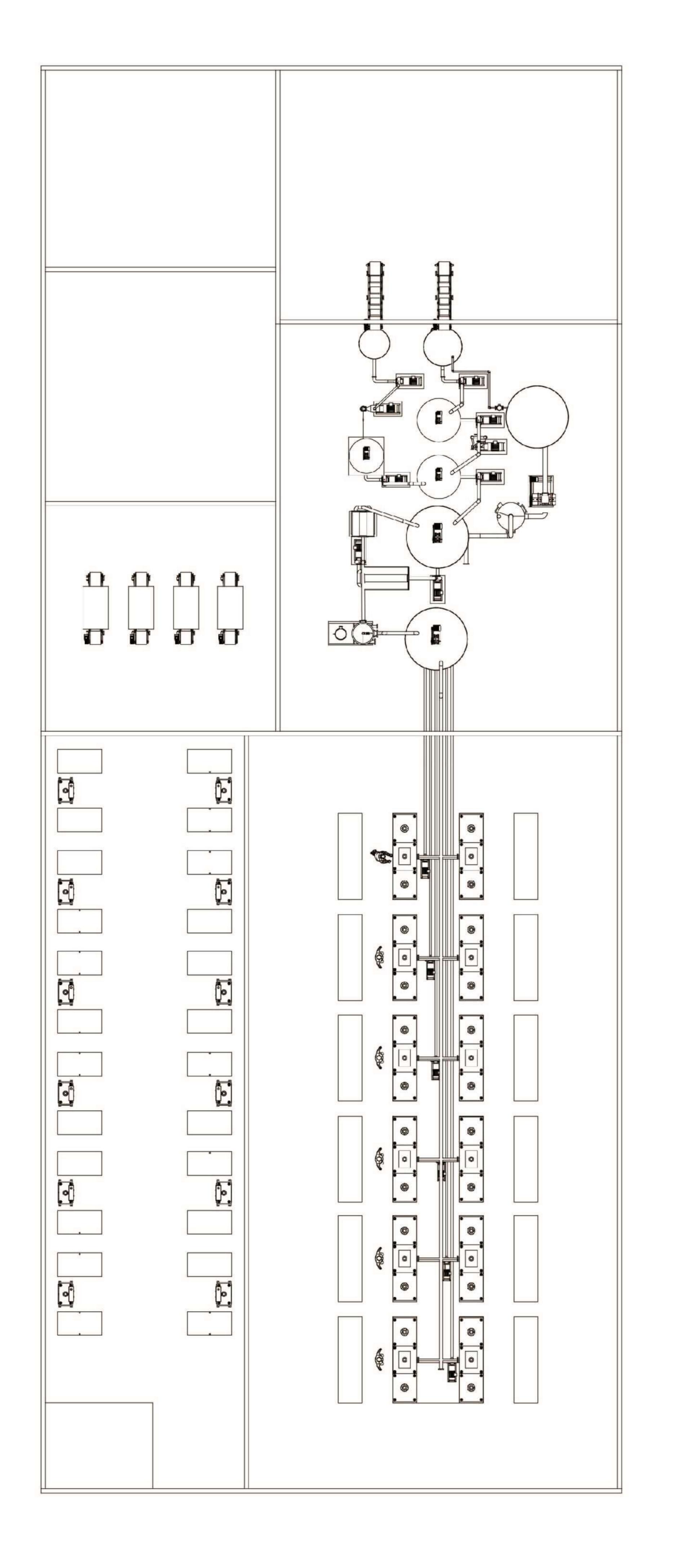
FULLY AUTOMATIC MECHANICAL ARM FOOD PLATE EQUIPMENT



FULLY AUTOMATIC FOOD PLATE TRUSS EQUIPMENT









# 01

### Manufacturing Experience Points rich

Beston has extensive manufacturing experience and every machine we sell is in good working order.

# 03

### Leading In Export volume

Beston Group Co., Ltd. is the Top 3 large-scale enterprises in China's pulp molding machine export, Its products are exported to many countries and regions.

# 02

### Various Models To Choose From

Different models (capacity) and different drying system, suitable for a variety of customer needs.

# 04

### **Custom Service**

Excellent bilingual engineer technical support, and provides integrated customization services (site layout customization, machine configuration customization, etc.).

# 05

### Provide Design Guidance

Provide layout drawing design, basic drawing design, PID drawing design, installation/operation/maintenance guidance.

# 07

# High product qualification rate

Excellent equipment working condition, the qualified rate of paper products produced is as high as 98%.

# 06

### 24 hours operation

Beston pulp forming equipment is complete, advanced technology and good quality, to achieve 24 hours operation.

# 08

### Long product life cycle

The with beautiful appearance, high in quality and effective cost. Meanwhile, the life cycle of the machine is up to 8-10 years.







# EGG TRAY PROJECT CASE SHOW

Russia 2022
BTF-5-8 with metal drying

2019 Philippines BTF-4-8 with drying











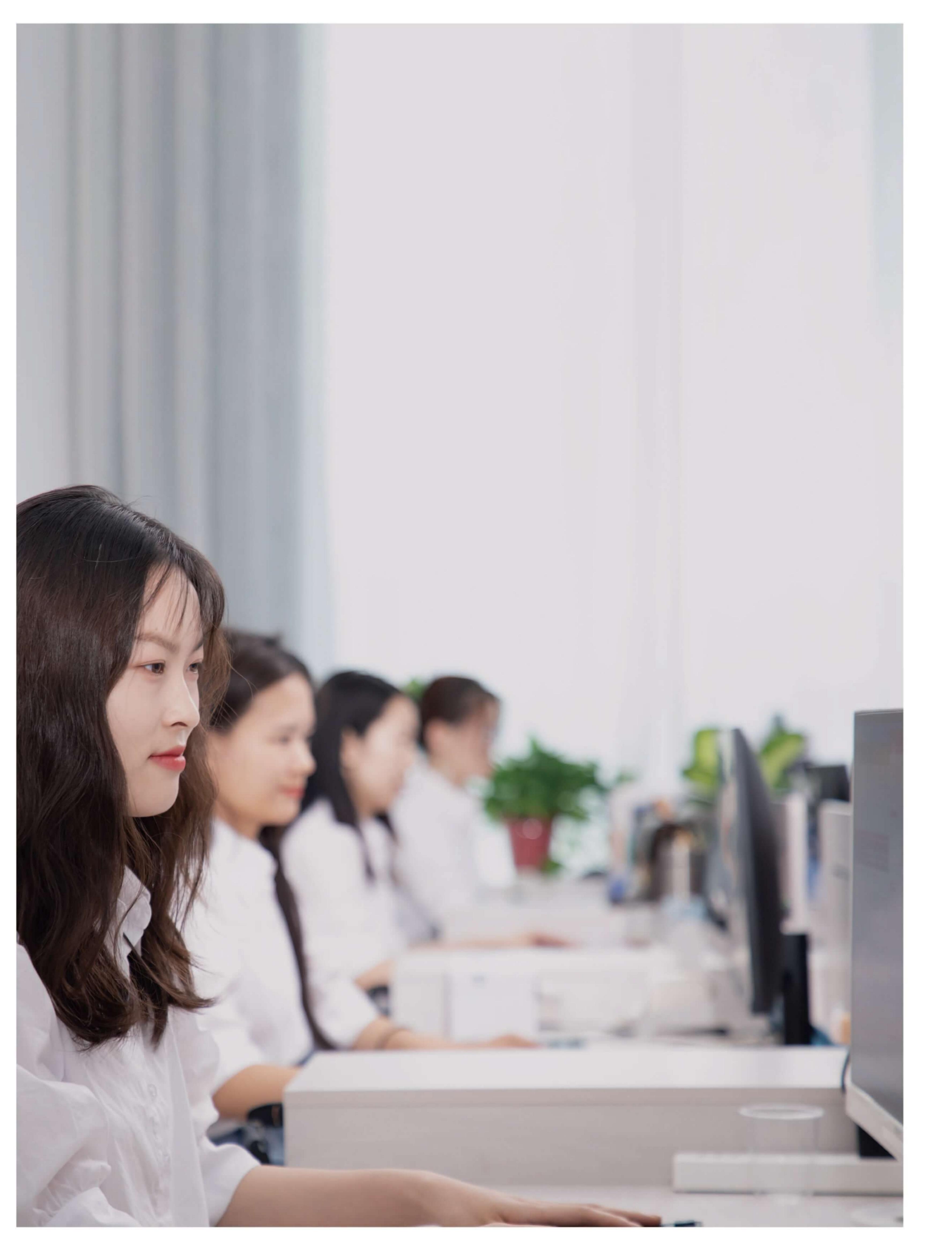






# EGG TRAY PROJECT CASE SHOW

 2021 Zimbabwe BTF-5-8 with brick drying



# BESTON SERVICE



# PRE-SALES SERVICE

THERE ARE DEDICATED PROJECT CONSULTANTS

01

Know customer requirements in detail, and provide product configuration solutions for customers to choose;

02

Invite customers to visit Beston's production site or factory area, and introduce the whole process;

03

According to customer needs, introduce necessary supporting programs or financing programs.



# DURNING PRODUCTION SERVICE

WITH A DEDICATED DELIVERY MANAGER

Provide customers with the production progress of products in the workshop in every Monday;



According to the demand, invite customers to the factory to verify the delivery before delivery;

Monitor the entire transportation process to ensure safety and timeliness;



Contact customers in advance to prepare
auxiliary items needed on site to ensure
production in a shorter time;

Provide layout, foundation, electric drawings and assemble drawing with the customer in advance, and guide the customer to do the civil work in advance to ensure the production in a shorter time.



# AFTER-SALES SERVICE

DUAL SERVICE OF EXCLUSIVE DELIVERY MANAGER AND AFTER-SALES ENGINEER

# 01.

On-site installation, commissioning and production, engineers escort the whole process;

# 02.

Provide professional training to help customers develop on-site professional production and operation teams;

# 03.

Continue to conduct on-site inspections for customers, know equipment conditions, and solve problems;

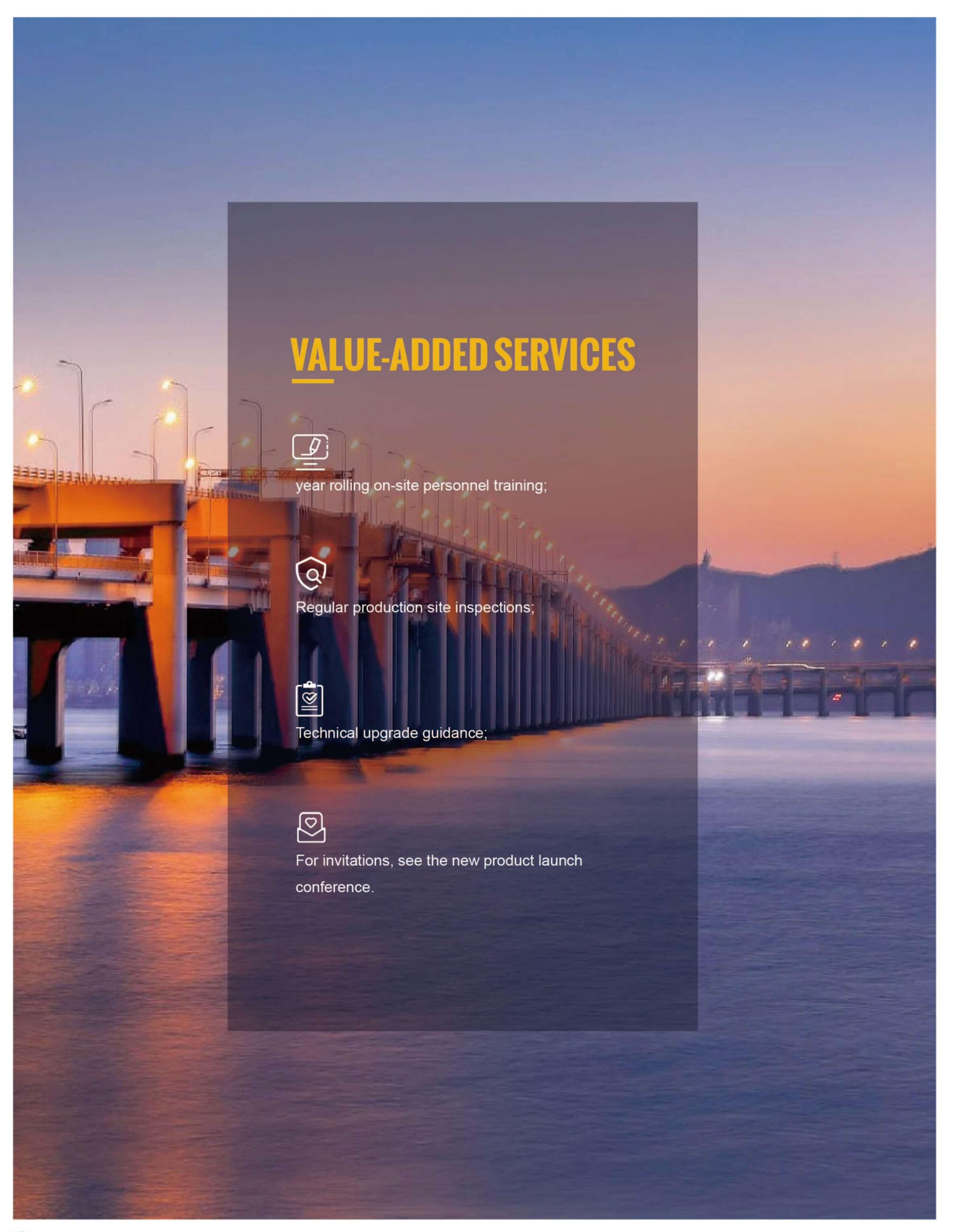
# 04.

Delivery manager exclusive services, establish customer product use files, maintain customers regularly, maintain efficient communication, and solve problems for customers in a timely manner;

# 05.

Provide spare parts for customers for life.





# SERVICE MECHANISM



Parts supply guarantee system: delivery in the shortest time in a faster and more efficient way.



One-day response system: Troubleshooting control is completed within 24 hours.

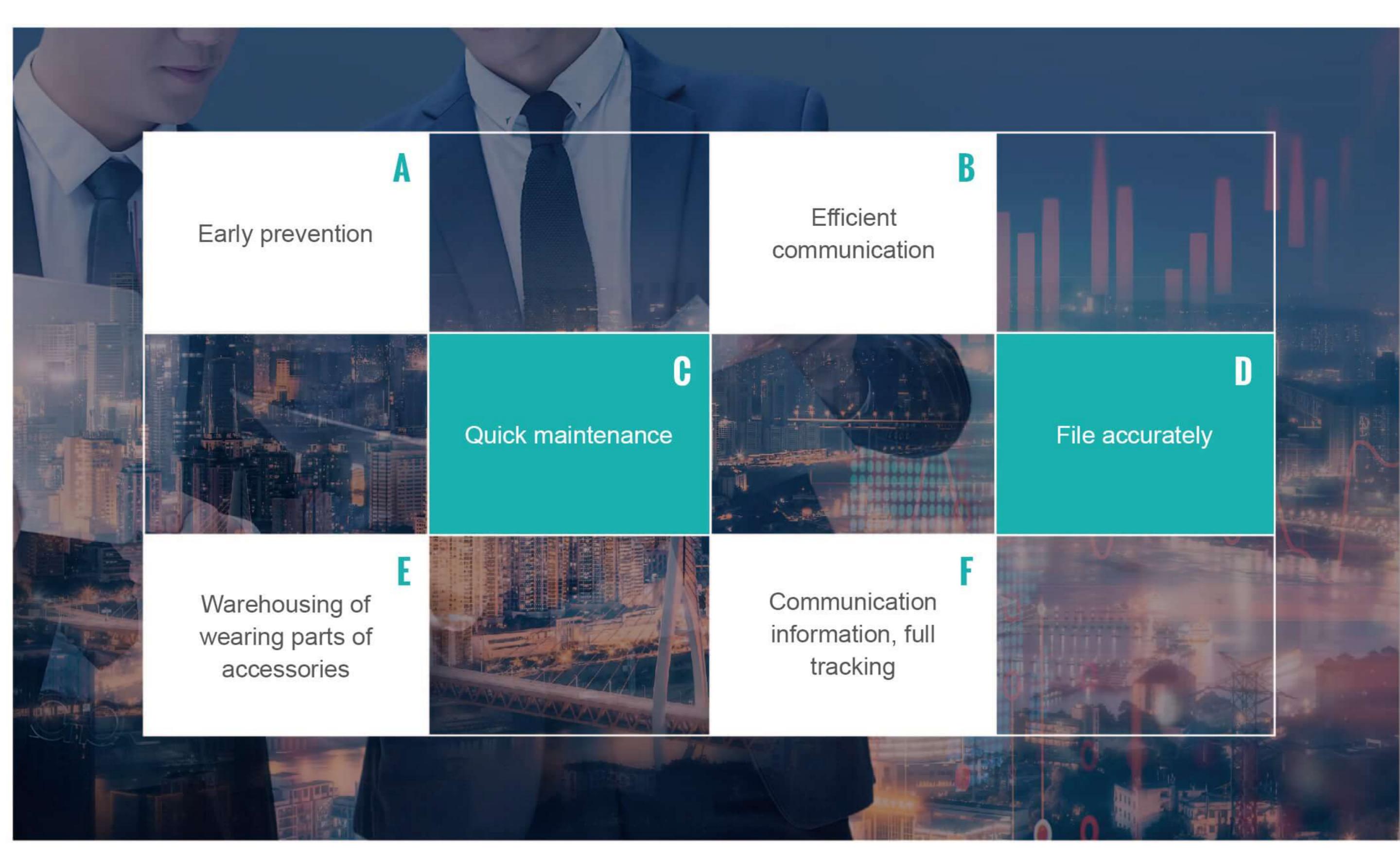


Double supervision system: The general manager and the marketing manager are double-supervised, providing green channels such as manpower, material resources, financial resources, technical guidance and accessories supply for the service.



Three-minute response system: The service personnel are required to contact the customer within 3 minutes after receiving the instruction to dispatch the work order.

# SERVICE MANAGEMENT MODE



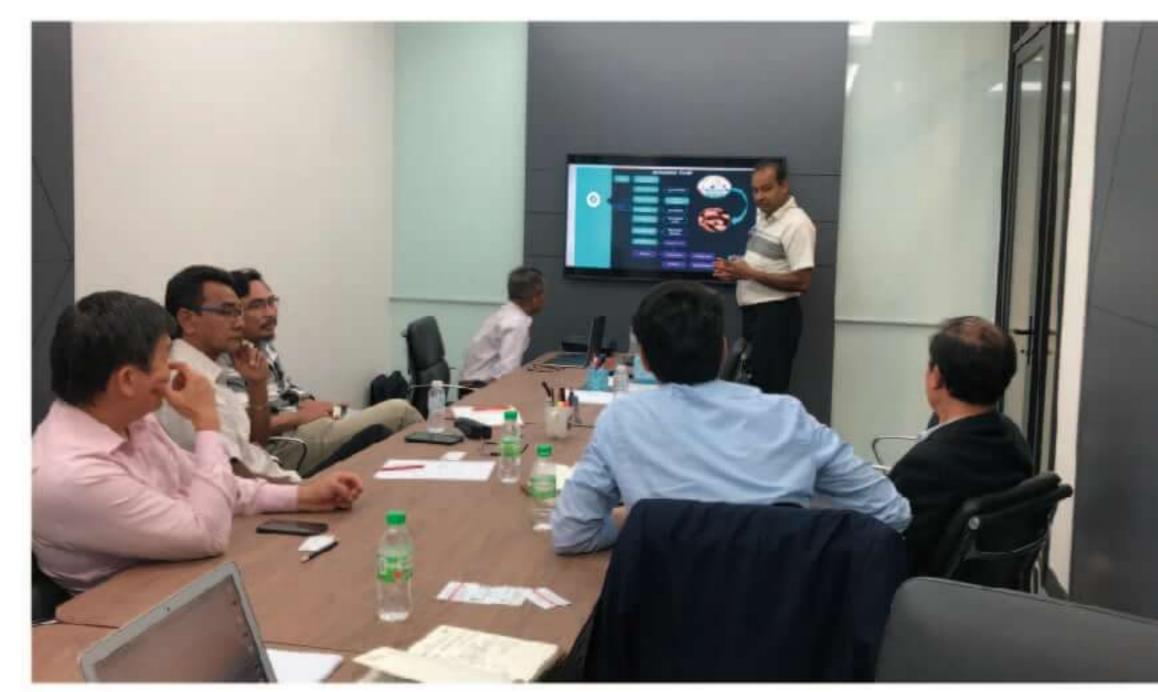








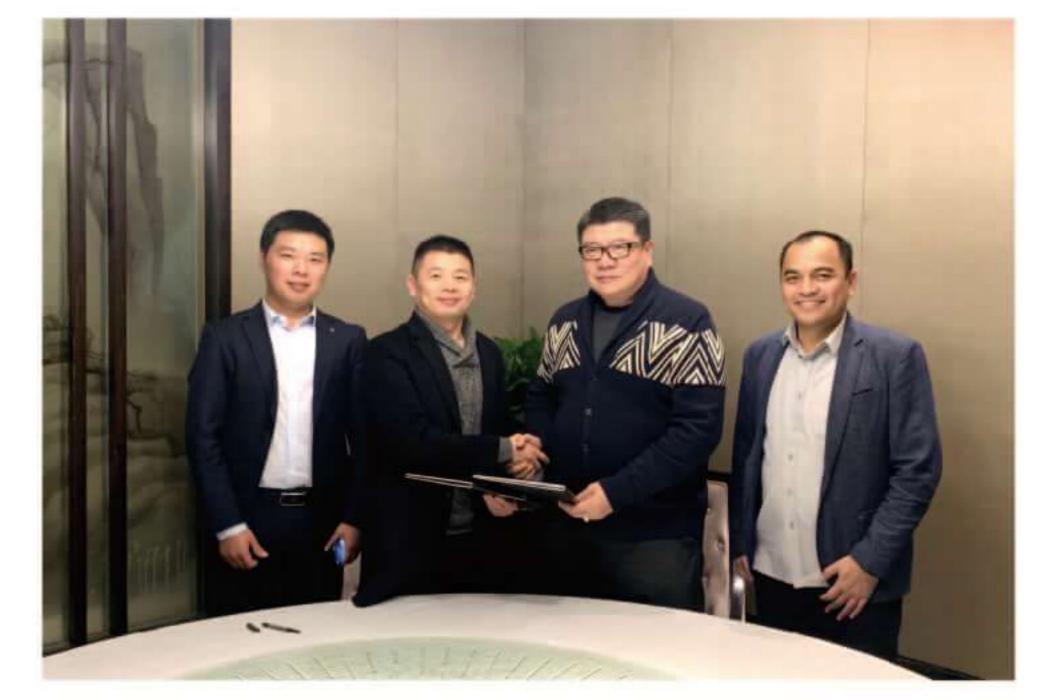




CONCENTRATION







SERVICE ABILITY





COHESION

















CREATIVITY











**BRAND FORCE** 











