

**FROM  
1985**



**PYROJIN ECO  
INDUSTRIAL**

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## **PYROLYSIS PLANT INTRODUCTION**

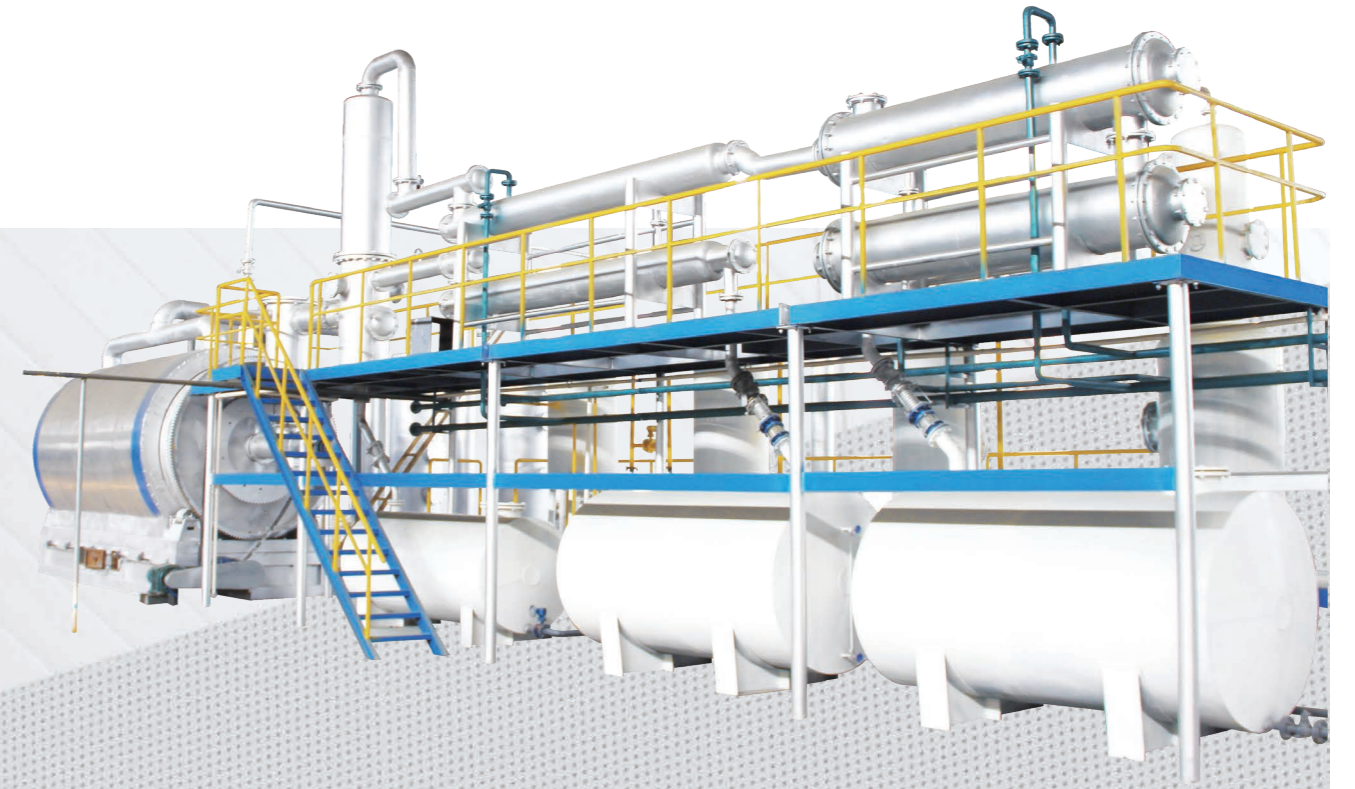
**间歇式热解设备简介**

**商丘金蓬实业股份有限公司**  
Pyrojin ECO Industrial Co.,Ltd.

# Catalogue

环保无界 / 行动有边

Boundless Environmentalism  
Purposeful Actions



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# Company Profile

企业简介

## 金蓬实业

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商丘金蓬实业股份有限公司是一家省级高新技术企业，公司成立于2008年，于2016年12月12日在新三板市场挂牌上市，股票代码：金蓬股份（870188），是一家集科研、生产、销售于一体的专门从事废旧资源综合利用设备制造的专业机构。近年来，在政府及有关职能部门的大力支持下，公司迅速发展壮大，目前公司年产销各种大型成套环保设备100余台(套)，年主营业务收入超过1亿元，年出口创汇额900多万美元，年实现税收达千万元，连续多年被评为出口创汇先进企业、纳税先进单位。

公司的主营业务为环保专用设备的研发、生产和销售。在处理废橡胶、塑料、废油泥、精馏残渣等废弃资源循环再生综合利用方面经验丰富、技术领先。我公司经多年技术攻关，研制出国内独创的热解焚烧新工艺，具有设备投资少、生产工艺简单等优势。公司推出的设备是目前国内技术领先的环保处理设备。公司研发生产的设备技术已经通过ISO 9001：2015国际质量管理体系、ISO 14001：2015国际环境体系认证、欧美标准质量体系CE认证。凭借着高质量的产品，良好的信誉，优质的服务，产品畅销全国近三十多个省、市、自治区，远销全球五大洲。

60<sup>+</sup>

### 企业专利 Company Patents



6项发明专利和50多项国家研发专利  
Invention Patents (6) & National R&D Patents (50+)

16<sup>+</sup>

### 技术&经验 Technology & Experience



长达16年的产品研发和服务经验  
More than 16 years experience on product R&D and service

## PYROJIN ECO INDUSTRIAL

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Pyrojin ECO Industrial Co.,Ltd. is a provincial-level high-tech enterprise founded in 2008. It was listed on the New Third Board market on December 12, 2016, with the stock code: Jinpeng Shares (870188). The company specializes in the research, production, and sales of plant for comprehensive utilization of waste resources. In recent years, with strong support from the government and relevant departments, the company has rapidly expanded. Currently, it annually produces and sells over 100 sets of various large-scale environmental protection plant, with annual main business revenue exceeding 100 million RMB, annual export earnings of over 9 million USD, and annual tax revenue reaching tens of millions of RMB. It has been rated as an advanced exporter and taxpayer for many consecutive years.

The company's main business is the research, production, and sales of environmental protection plant. We have rich experience and leading technology in the comprehensive utilization of waste resources such as waste rubber, plastic, waste oil sludge, and distillation residues. After years of technical breakthroughs, our company has developed a domestically innovative thermal decomposition and incineration process, which has the advantages of low investment and simple production process. The plant launched by the company is currently leading in environmental protection technology domestically. The technology developed and produced by the company has passed ISO 9001:2015 international quality management system certification, ISO 14001:2015 international environmental management system certification, and CE certification of European and American standard quality systems. With high-quality products, good reputation, and excellent service, the products are sold in nearly thirty provinces, municipalities, and autonomous regions nationwide, and are exported to five continents worldwide.

COMPANY  
Profile

# Development History

发展历史

## 1985

1985年开创了热解行业，有三十余年致力于固废危废综合处理项目的历史。

Pioneered the pyrolysis industry in 1985. Construction of integrated solid and hazardous waste treatment projects with over thirty years history.

## 2012

2012年公司建成一座省级研发中心。

Established a provincial-level research and development center in 2012.

## 2014

获得多项奖项。实现固废处理产业化、规模化、标准化。

Received several prizes. Achieving industrialization, scale, and standardization of solid waste treatment.

## 2016

公司新三板上市。于2016、2017年实现了年销售额达到1亿元以上的规模。

Went public on the New Third Board. In 2016 and 2017, the company achieved annual sales exceeding 100 million yuan.

## 2020

公司再次承担实施河南省重大科技专项。

Undertakes the implementation of major scientific and technological projects in Henan Province again.

## Now

仍致力于设备的研发及危废的处理。

Still committed to plant research and development and hazardous waste treatment.

# Company Culture



以质量赢得客户  
以服务成就品牌

Winning customers by quality  
Achieving brand by service

## Cultural Value

文化价值

### 企业使命

Company Mission

用技术和智慧构建美好生活  
Building a better life with  
technology and intelligence



### 企业愿景

Corporate Vision

科技减污，资源循环，共筑  
绿色地球。  
Innovate for pollution  
reduction, promote resource  
recycling, and contribute to  
building a green Earth.



### 核心价值观

Core values

客户第一、团队合作、持续  
创新  
Client First, Teamwork,  
Continuous Innovation



### 金蓬精神

Pyrojin Spirit

专业、专注、创新、高效  
Professional, Focused,  
Innovative, Efficient





# Material >>>

**主营** 环保专用设备的研发、生产和销售  
处理废旧资源循环再生综合利用领域

Main in R&D, production and sales of plant for environmental protection and the comprehensive utilization of waste resource recycling



 医疗废物  
Medical Waste

 废旧轮胎  
Waste Tyre

 生活垃圾  
Household Waste

 废油泥  
Oil Sludge

 废塑料  
Waste Plastic

 其他100多种经过试验的废物  
Other 100+ Waste test with Trials

# Products and Usage

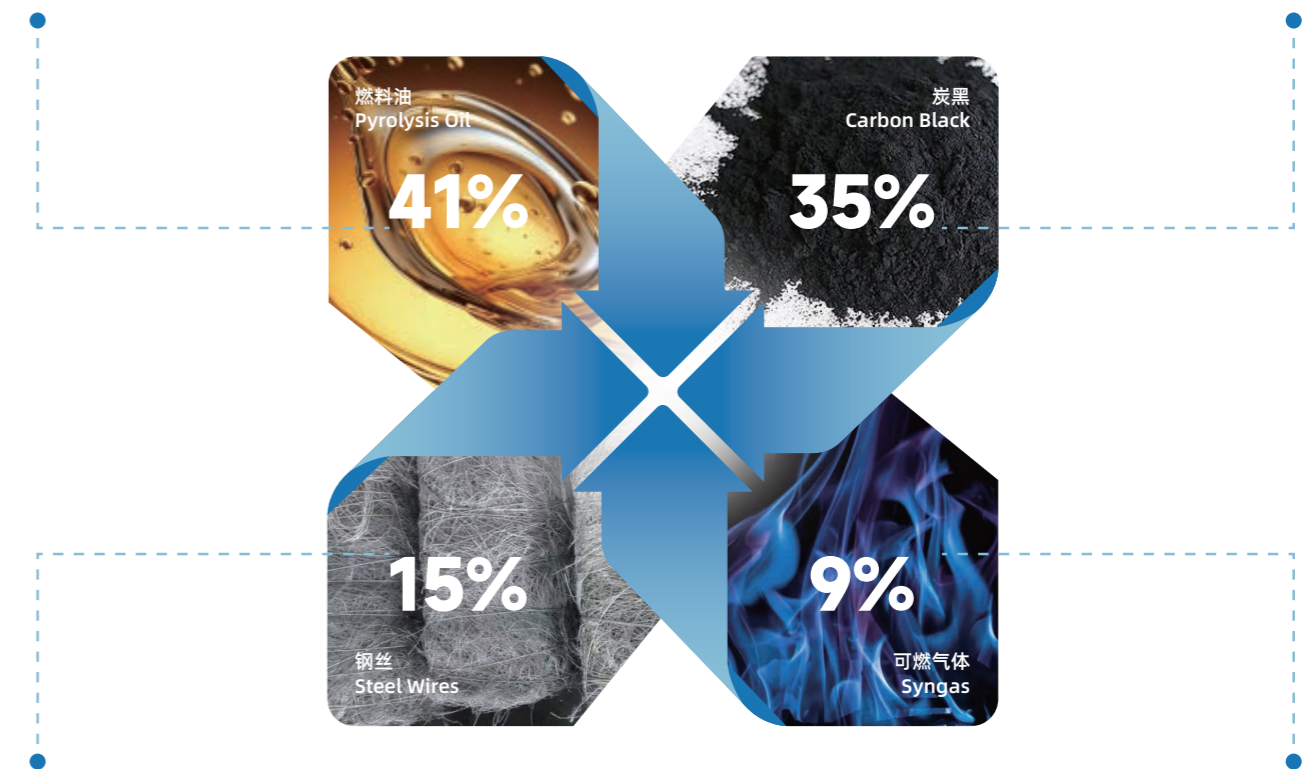
产品及用途

**燃料油:** 广泛用于钢铁厂、陶瓷厂等工业企业或化工企业以及宾馆、饭店等作为燃料使用, 也可用于重油发电机发电使用。

**Fuel Oil:** Widely used in Industries such as Steel & Iron factories, Ceramics or Chemical Industries or Hotels, Restaurants etc. as fuel oil, or used for heavy oil generators to get electricity.

**炭黑:** 粗炭黑可用于建筑用砖的原料, 也可深加工成工业炭黑、半补强炭黑、色素炭黑, 应用极其广泛。

**Carbon Black:** Crude carbon black can be used for construction bricks, or widely used as industrial carbon black N774, N660, N330 or color carbon black after deep-process.



**钢丝:** 在轮胎中的含量为15%, 可进行再加工。  
Steel Wires: 12%-15% from tyres, sold or reprocessed.

**可燃气体:** 含量为9%左右, 可在生产过程中回收使用, 作为生产的燃料, 也可以收集甚至压缩成液化气, 可用于燃烧或发电。

**Sync Gas:** about 5%, can be recycled and used during process as fuel or collected even compressed into liquid gas, used as fuel or to generate electricity.

● **注:** 实际产量将取决于原材料的特性、工艺以及提取地点。  
The actual output will depend on the properties of the raw material, the craft, and the extraction site.

# PB Plant Working Principle

间歇式热解设备流程描述

## 工作原理

Working Principle

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将固体原料直接装入低温微负压热解处理器中，在不改变有机物性质情况下实现和其他液相、固相彻底分离，液相通过间接加热物理汽化，物料不与燃烧器火焰或燃烧气体直接接触，且在惰性厌氧环境下，通过分段控制达到足以让液相汽化的温度，液相在间接加热过程中蒸发出气体，气体通过冷却系统，可液化部分，冷凝为液体即油品，部分未冷凝的气体和常温常压下的不凝可燃气，通过安全装置水封导入处理器底烧掉，既节约燃料能源又不污染环境，燃烧后产生的烟气进入喷淋塔，与水泵抽送的碱液混合（气体净化池里有碱液），此时碱液中的碱性物质与烟气体中的酸性物质发生酸碱中和反应，达到清除烟气体中酸性物质的目的，烟气体经酸碱中和后，通过吸附塔中的填料除去烟气体中的残余碱液，流回水池内，清洁的烟气外排，完成烟气的脱硫除尘处理。

分解后的炭黑，经过密封出渣装置输送至集渣罐储存，可用于炭黑精细加工、活性炭的制造等；钢丝则可直接用做钢材原料。整个过程在全密闭环境中完成，无废水、废气、废渣产生，真正做到了对废轮胎“吃干榨尽”，实现对废轮胎资源的100%利用。

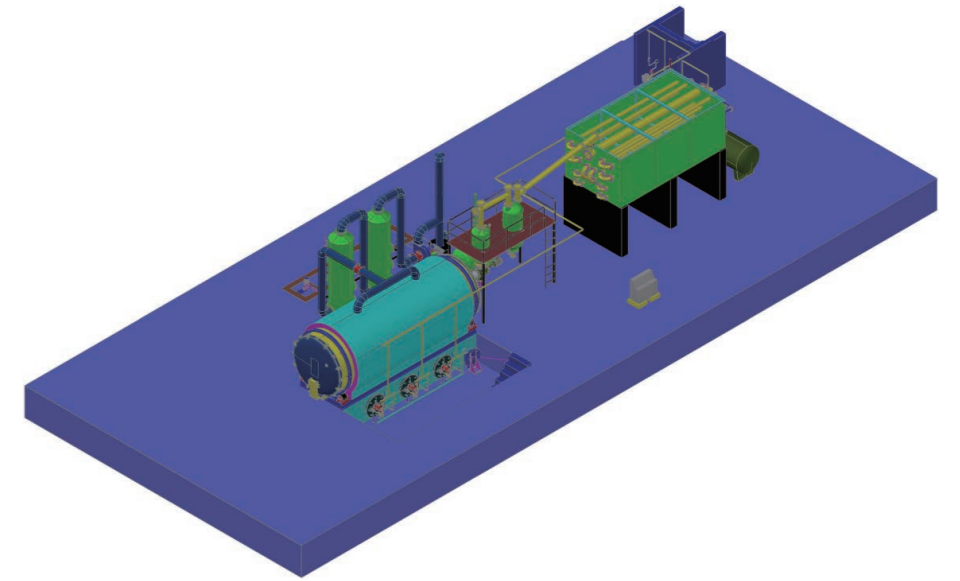
The solid raw materials are directly loaded into the low-temperature micro-negative pressure cracking processor, without changing the nature of the organic material to achieve a complete separation of the liquid phase and other liquid phase, solid phase, the liquid phase through the indirect heating of the physical vaporization of the material does not come into direct contact with the flame of the burner or combustion gases, and in the inert anaerobic environment, through the segmentation of the control to reach a temperature sufficient to allow the vaporization of the liquid phase, the liquid phase in the process of indirect heating vaporization of gas through the cooling system, liquefiable part, condensed into a liquid that is oil part of the gas is not condensed and normal temperature and pressure of the non-condensable gas, through the safety device water seal into the processor at the bottom of the burn off, not only save fuel and energy but also does not pollute the environment, after combustion of the flue gas produced into the spray tower, and the pump pumping lye mixed (gas cleaning pool with lye), the alkaline material in the lye and flue gas in the acidic substances occur acid-base neutralization. At this time, the alkaline substance in the alkaline liquid and the acidic substance in the flue gas undergo the acid-base neutralization reaction to achieve the purpose of removing the acidic substance in the flue gas. After the flue gas is neutralized by the acid-base neutralization, the residual alkaline liquid in the flue gas is removed through the packing in the adsorption tower, and it flows back to the pool, and the clean flue gas is discharged, completing the desulfurization and dedusting treatment of the flue gas.

After decomposition of carbon black, after sealing the slag device transported to the slag tank storage, can be used for carbon black fine processing, the manufacture of activated carbon, etc. Steel wire can be directly used as raw materials for steel. The whole process is completed in a fully enclosed environment, no waste water, waste gas, waste residue and truly achieve 'eat the waste tires out of house and home', to achieve 100% utilization of waste tire resources.

**PYROJIN ECO  
INDUSTRIAL**

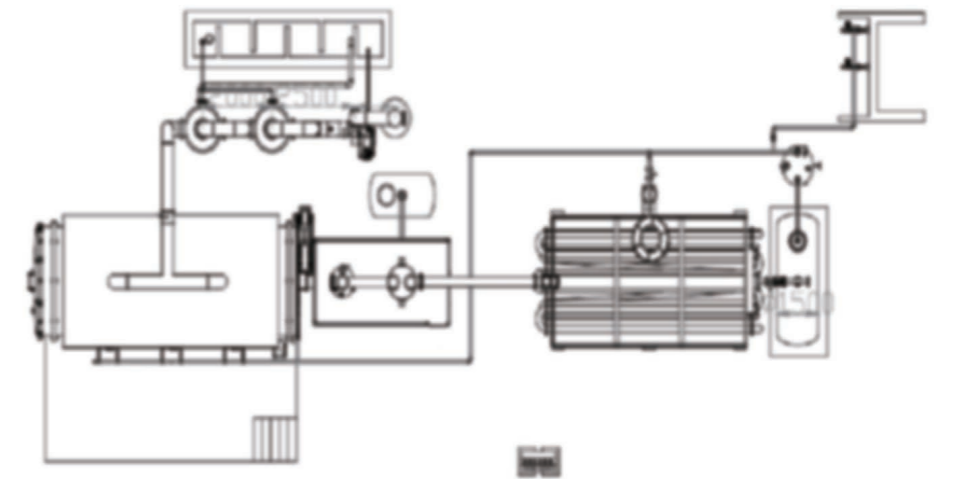
## >>> 设备效果图

Rendering image of the plant



## >>> 设备平面图

Layout of the plant



# PB Plant Characteristics

间歇式热解设备的特点



- 01 投资小:** 设备投资比例小, 效益高, 回本快;  
**Small investment:** Small proportion of investment in plant, high efficiency, fast payback;
- 02 噪音小:** 外齿圈传动, 设备运行平稳;  
**Low noise:** External gear ring drive, plant running smoothly;
- 03 保温效果好:** 独特的加热保温外壳设计, 优异的保温功效, 良好的节能效果;  
**Good thermal insulation:** Unique heating insulation shell design, excellent thermal insulation efficacy, good energy-saving effect;
- 04 使用寿命长:** 间接加热: 火焰不与炉体直接接触, 加热均匀快速, 升温快, 温度易控制, 操作简单有效延长设备使用寿命, 工艺先进;  
**Long service life, indirect heating:** The flame is not in direct contact with the furnace body, uniform and rapid heating, fast warming, easy to control the temperature, easy to operate and effectively extend the service life of the plant, advanced technology;
- 05 节约能源:** 可燃气体回收再利用, 热值气体 (即不凝气) 通过气体净化系统净化处理后气体进入加热底座加热燃烧, 既节约燃料能源又不污染环境;  
**Energy saving:** Combustible gas recycling and reuse, the calorific value of the gas (i.e., non-condensable gas) through the gas purification system purification and treatment of gas into the heating base heating and combustion, not only to save fuel energy but also do not pollute the environment;
- 06 更环保:** 设备是卧式旋转环保型设备, 在生产过程中是封闭的没有任何污染;  
**More environmentally friendly:** The plant is horizontal rotary environmentally friendly plant, in the production process is closed without any pollution;
- 07 安全性高:** 微负压生产, 密封性好, 无任何无组织排放及安全隐患;  
**High security:** Micro-negative pressure production, good sealing, without any disorganized emissions and security risks;
- 08 可串联生产:** 炉与炉之间可相互串联工作, 即节约燃料也减少了热量流失, 达到国家节能减排的要求标准;  
**Tandem production:** Furnace and furnace can work in tandem with each other, that is, saving fuel also reduces heat loss, to achieve the national energy saving emission reduction requirements of the standard;
- 09 适应原料广:** 可处理废旧轮胎、塑料、油泥、油砂、生活垃圾等不同的固体废弃物;  
**Adapt to a wide range of raw materials:** Can deal with waste tires, plastics, oil sludge, oil sand, domestic waste and other different solid abandonment;

# PB Plant Advantage

间歇式热解设备的优势

独特的油品分流设计, 根据油品密度分成轻质燃料油, 中质燃料油, 重质燃料油, 以满足客户对油品分类的要求;

Unique diversion tower for oil gas. This system can divide the oil gas into light density fuel oil, medium density fuel oil, heavy density fuel oil to meet different requirement of oil quality.

国家专利, 独特的脱硫除尘设计: 通过喷淋、净化、吸附能更有效去除酸性气体和灰尘, 环保无污染;

National Patent Unique Smoke Scrubbers: More efficient removal of the acid gas and dust from the smoke through neutralization, purification and absorption to ensure the operation is environmental friendly.

安全性: 微负压生产环境, 全自动埋弧焊接技术, 超声波无损检测, 人工及自动安全装置。

Safety Aspect: Production under Slightly negative pressure, Automatic submerged welding technology, ultrasonic non-destructive testing, both manual and automatic safety devices.

主炉与底座一体式设计, 无需地基, 安装更便捷;

Integrated design of reactor and base, no civil work needed to make the installation faster and easier.

专为欧美等发达国家设计的气体净化系统, 既形成微负压生产循环, 使生产过程更安全, 又形成气体预处理系统, 脱去气体中的酸性成分, 更清洁更环保;

Sync gas purification system is designed for developed countries which have very high environmental standard. It makes the full operation process under slightly negative pressure to ensure the safety of operation. And the system removes acid content of the sync gas to ensure the production is both clean and environmental friendly.

国家专利, 全自动密闭出渣: 高温、密闭、自动出渣, 清洁无灰尘, 速度快节省时间;

National Patent Automatic Carbon Black Discharging System: Speedy fully enclosed Auto-discharging under high temperature, avoiding carbon black pollution and saving time.



# PB Plant Advantage

间歇式热解设备的优势

## 设备优势（与同行相比）

### 01 设备主机

- 1) 钢板采用“安钢”免检国标Q345R专用锅炉钢板，较其他非知名钢厂钢板略贵，但品质保障。
- 2) 采用特制实心拖圈，拖圈采用一体式锻造件，相较于圆钢止退圈，充分保证炉胆圆度，及旋转稳定性，不会出现密封不严，漏气的情况。
- 3) 外壳内部采用特制耐火材料固定件，底部和上部均有特殊防火材料铺设及灌注，不易开裂及脱落，保温效果好，热损失小，充分保障外壳以及耐火材料使用寿命。
- 4) 拖轮架采用一体式设计，与底座分离，方便运输与安装，同时特制拖轮承载力大，不易损坏。
- 5) 使用特制密封挡板，有效杜绝常规挡火板导致的窜烟，漏火现象，更加符合环保要求，外形美观更安全。

### 02 设备底座

- 1) 底座焊接槽钢采用大型号，更稳定，耐用，承载力更大，寿命长。
- 2) 底座高度经过实验验证为最佳高度，炉胆与火焰的距离既能有效保护炉胆，延长使用寿命，又保证了热传导效率。
- 3) 内部采用大量高铝耐火砖，同时外侧采用耐高温浇注料做抹平处理，安全，美观。
- 4) 底座拥有多个燃油燃烧机口、废气喷枪口、观察孔，保证底座内部前中后受热均匀，温度接近。

### 03 设备分汽包

- 1) 分汽包特殊设计，无需对重油进行二次裂解，不影响炉内干馏点，能将重油一次裂解干净，同时避免了炉内黏壁情况。
- 2) 包含反堵蛟龙，不会出现出气口堵塞的情况，增加了设备操作安全性。同时配备有防爆电机及减速机。
- 3) 后出渣蛟龙，技术成熟，拥有相关专利。
- 4) 特殊出气口密封设计，匹配石墨圈，最大限度保障出气口密封性能。解决了出气口石墨盘根形成偏磨的问题，减少了更换盘根频率，减少人工和耗材成本。

### 04 其他细节配置

- 1) 采用高级别防爆片和负压泵，有效泄压，预防存在的不安全因素，防止危险事故发生。
- 2) 采用水封加阻火器杜绝了回火现象，保障设备使用安全。
- 3) 研发的过滤及自清理系统能有效防止管道堵塞。
- 4) 油罐包含焊接支架，同时保障出油顺畅。
- 5) 设备默认配备设备内所有使用的配件，包括管道，弯头，阀门，法兰，紧固件，垫片等。
- 6) 进料机采用滑轨式可移动设计，框架采用大型号槽钢焊接，质量稳定，操作方便，效率高。
- 7) 可燃废气净化回用系统，循环利用可燃废气，节省加热能源，环保无污染，无能源浪费。

*Pyrolysis Plant Advantage*

## Advantages of XY-8-P compared to other competitors

### 01 Reactor

- 1) The steel plate is made of "Anyang Iron & Steel" national standard Q345R special boiler steel plate, which is a little more expensive than the steel plate of other non-famous steel mills, but the quality is guaranteed.
- 2) The use of special solid towing ring, towing ring with a one-piece forged parts, compared with round steel check ring, fully guarantee the roundness of the furnace chamber, and rotational stability, will not appear sealing is not tight, the situation of air leakage.
- 3) The inner shell adopts special refractory fixing parts, and the bottom and upper parts are covered with special fireproof material and infused, which is not easy to crack and fall off, with good heat preservation effect and small heat loss, fully guaranteeing the service life of the shell and the refractory material.
- 4) The towing wheel frame adopts one-piece design, separated from the base, which is convenient for transport and installation, meanwhile, the special towing wheels have large bearing capacity and are not easy to be damaged.
- 5) The use of special sealing damper, effectively eliminating the conventional fire damper caused by the phenomenon of smoke, fire leakage, more in line with environmental requirements, beautiful appearance and more secure.

### 02 Base

- 1) The base welding channel steel adopts large size, more stable, durable, greater bearing capacity, long life.
- 2) The height of the base has been experimentally verified to be the best height, the distance between the furnace and the flame can effectively protect the furnace, prolong the service life, and ensure the heat conduction efficiency.
- 3) The interior is made of a large number of high alumina refractory bricks, while the exterior is smoothed with high-temperature-resistant castable material, which is safe and beautiful.
- 4) The base has many fuel burner ports, exhaust gas injection gun ports, observation holes, to ensure that the base inside the front, middle and back of the heat uniformity, the temperature is close to.

### 03 Gas separator

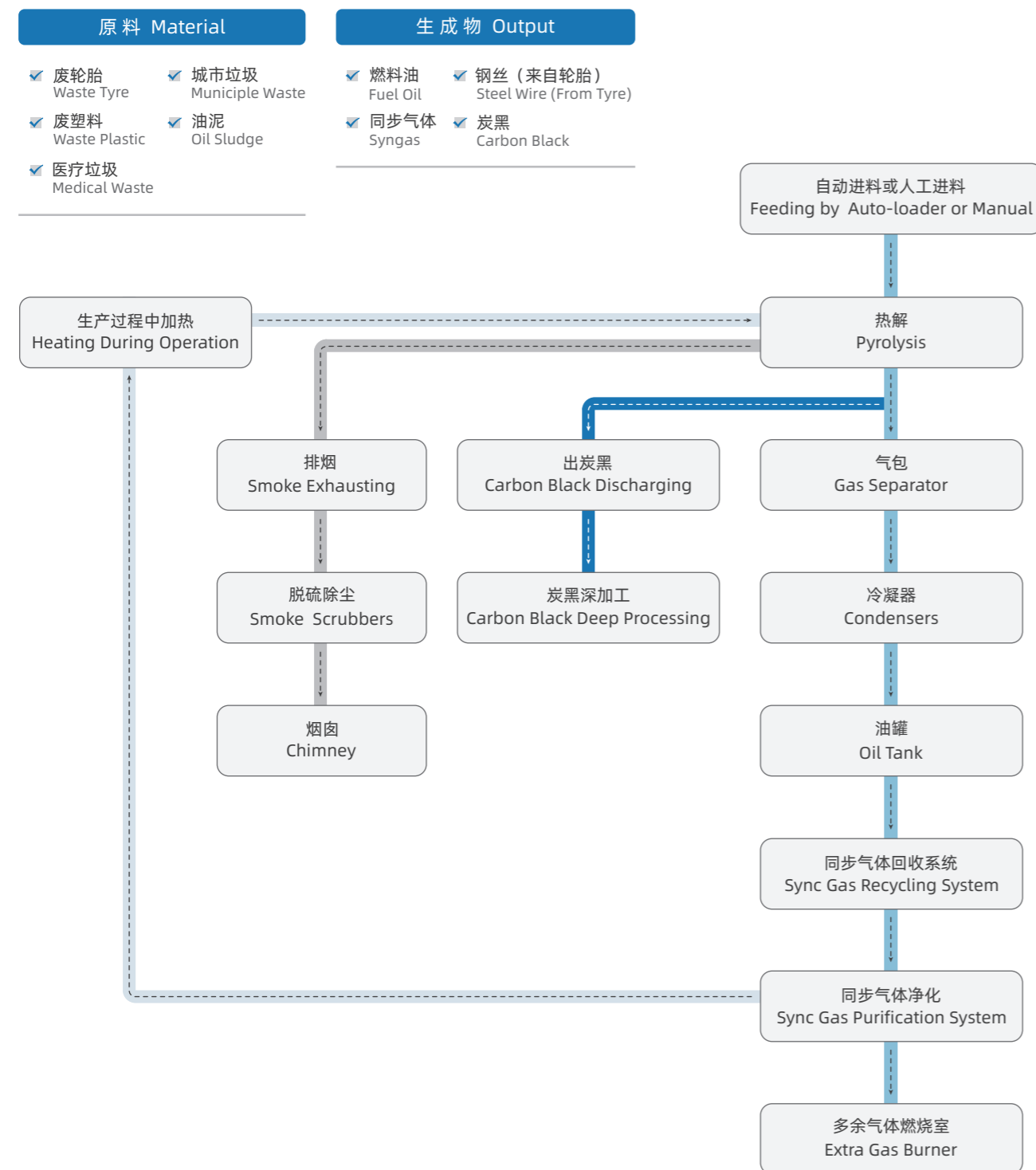
- 1) The special design of the gas separator does not require secondary pyrolysis of heavy oil, does not affect the dry distillation point of the furnace, and can completely pyrolysis the heavy oil at one time, and at the same time avoid the sticky wall situation in the furnace.
- 2) The anti-clogging winch is included, so that the air outlet will not be clogged, which increases the operation safety of the equipment. It is also equipped with explosion-proof motor and reducer.
- 3) Rear slagging winch with mature technology and relevant patents.
- 4) Special air outlet sealing design, matching graphite ring, maximum guarantee air outlet sealing performance. Solve the problem of graphite packing at the air outlet to form partial grinding, reduce the frequency of replacing packing, reduce the cost of labour and consumables.

### 04 Other details configuration

- 1) The use of high-level explosion-proof discs and negative pressure pumps, effective pressure relief, prevention of the existence of unsafe factors, to prevent the occurrence of safety accidents.
- 2) The use of water seals plus flame arrestors to eliminate the phenomenon of backfire, to protect the safety of equipment use.
- 3) The filtration and self-cleaning system developed can effectively prevent pipeline clogging.
- 4) The oil tank contains welded brackets while guaranteeing smooth oil discharge.
- 5) The plant is equipped with all fittings used in the equipment by default, including pipes, bend, valves, flanges, fasteners, gaskets, etc.
- 6) The feeder adopts slide-type movable design, and the frame is welded with large-size channel steel, which is of stable quality, easy to operate and high efficiency.
- 7) Combustible waste gas purification and recycling system, recycling combustible waste gas, saving heating energy, environmental protection, no pollution, no energy waste.

# PB Plant Processing Flow Chart

间歇式热解设备流程图



# PB Plant Technical Parameter

间歇式热解设备相关技术参数

项目 Item	内容 Project
设备型号 Equipment Model	PB
设备尺寸 Equipment Size	Φ2500*7500; Φ2500*8800; Φ2800*8800
适用原材料 Suitable Raw Materials	废轮胎/废塑料/废橡胶等 Waste tires/Waste plastics/Waste rubber,etc.
工作形式 Working Type	间歇式 Batch Type
结构形式 Structure Type	卧式旋转 Horizontal Rotation
24小时处理量 24-hour processing capacity	8-10吨(ton); 10-12吨(ton); 12-15吨(ton)
工作压力 Working Pressure	常压 Normal Pressure
主机转速 Main Reactor Rotating Speed	0.4转/分(rpm)
配备动力 (KW) Equipped Power (KW)	30-50
冷却方式 Cooling Method	循环水冷 Circulating Water cooling
出油率 Oil Yield	40%-45%
传动方式 Transmission Method	外齿传动 External Gear Transmission
加热方式 Heating Method	直热/热风 Direct heat/Hot air
安装方式 Installation	无基础/有基础 No foundation/With foundation
噪声dB (A) Noise	≤85
总重量 (T) Gross Weight	53; 55; 60
安装尺寸 (m) Installation Size	35m*20m
人工 Manpower Shift	4-6

# PB Plant Profit Analysis

间歇式热解设备利润分析

项目 Item	参数 Details
处理量 Capacity	10MT
适用原料 Raw Materials	废旧轮胎 Waste Tyre
原料成本 Cost of Raw Materials	10MT*350 ¥ /MT=3500 ¥
添加剂成本 Cost of Catalyst	10MT*0.3%*5000 ¥ /MT=150 ¥
每天人工成本 Labor (Daily)	2P*150 ¥ *3=900 ¥
水电费用 Electricity&Water	75KW*24H*1¥ =1800¥
燃料费用 Fuel Cost	20KG/1000*3H*4*2000¥=480¥
其它 Others	100¥
综合成本 Total Cost	6930¥
油品毛利润 Oil Income	10MT*40%*2800 ¥ /TM=11200 ¥
钢丝毛利润 Steel Income	10MT*12%*900 ¥ /TM=1080 ¥
炭黑毛利润 Carbon Income	10MT*35%*400 ¥ /TM=1400 ¥
综合毛利润 Gross Income	13680 ¥
日净利润 Daily Net Income	6750 ¥
月净利润 Monthly Net Income	168750 ¥
年净利润 Yearly Net Income	1856250 ¥

注:

1. 间歇式热解设备以每天30吨轮胎计,
2. 相关价格以您市场的实际情况为准。
3. 适用于粒径小于 5公分的废旧塑料、橡胶。

Note:

1. This Analysis is made with capacity 30 MT tires.
2. Please modify relative prices according to your actual market conditions.
3. It is suitable for waste plastics and tires with diameter less than 5cm.



## 热解后轮胎油及塑料油指标 Fuel Oil Parameter

项目 Item	轮胎油 Tyre Oil	塑料油 Plastic Oil
水分 (%) Moisture Content(%)	3%-5%	3%-5%
含硫量 (%) Sulfur Content(%)	0.3%-0.5%	≈ 0.3%
密度 Density	0.86-0.94	0.84-0.94
十六烷值 Cetane Number	30	30
燃烧值 Combustion Value (kcal)	9500	9000
沥青质含量 Asphalt(%)	≤0.5%	≤0.8%
灰分 (%) Ash Content(%)	≤1%	/
杂质 Impurity(%)	1%-3%	/
凝点/°C Solidifying Point/°C	-10°C	10°C
闪点 (闭口) /°C Flash Point (closed)/°C	30°C-40°C	20°C-35°C

注: 此油品指标会因为客户原料种类等原因产生些许差别。

Note: These parameters of the oil will be different because the raw materials is different.

# Company Qualification & Honor

企业资质与荣誉



## 企业资质 Company Qualifications

我公司经多年技术攻关，研制出国内独创的热催化热解新工艺。公司研发生产的设备技术已通过：ISO9001;2015国际质量管理体系；ISO14001 ;2015国际环境体系认证；欧美标准质量体系CE认证。

2013至2019年累计获得河南省科学技术成果10项，其中多个发明专利分别获得“河南省科技进步二等奖”、“河南省科普成果奖”、“商丘市科技进步一等奖等”。

After extensive research, we've pioneered a unique domestic thermal catalytic pyrolysis process. The plant technology developed and produced by the company has passed; ISO9001;2015 international quality management system; ISO14001; 2015 international environmental system certification; European and American standard quality system CE certification.

From 2013 to 2019, a total of 10 scientific and technological achievements were obtained in Henan Province.

### 2012

建立了一所省级工程技术研究中心；河南省废旧橡塑综合利用设备工程技术研究中心。  
Established provincial engineering technology research center; Henan Province Waste Rubber and Plastic Comprehensive Utilization Equipment Engineering Technology Research Center.

### 2014

河南省重大专项； 固体高分子废物热解制取燃油成套装备关键技术研究。  
Major special projects in Henan Province; Research on key technologies of complete equipment for producing fuel by pyrolysis of solid polymer waste.

### 2018

研发废旧橡胶制品处理与资源化高值利用成套装备关键技术研究的项目，承担了2018年市级重大科技专项及2019年省级重大科技专项。  
The project of research and development of key technologies for the treatment and high-value utilization of waste rubber products, undertaking the major municipal science and technology projects in 2018 and the major provincial science and technology projects in 2019.



## 发明专利 Invention Patents

### 6

- 设有自动出料装置的旋转式固体废弃物热解设备
- 环保节能型炭黑深加工设备
- 工业连续化废机油处理蒸馏设备
- 工业连续化环保节能型废轮胎热解设备
- 一种锅炉压力容器端面板环向焊接装置
- 炭黑、钢丝分离装置

- Rotary solid waste pyrolysis plant with automatic discharging unit
- Energy saving carbon black deep processing plant
- Industrial continuous waste engine oil treatment and distillation plant
- Industrial continuous energy saving waste tires pyrolysis plant
- A device for circumferential welding of end panels of boiler pressure vessels
- Carbon black and steel wire separator

## 实用型及其他专利 Utility & Other Patents

### 56

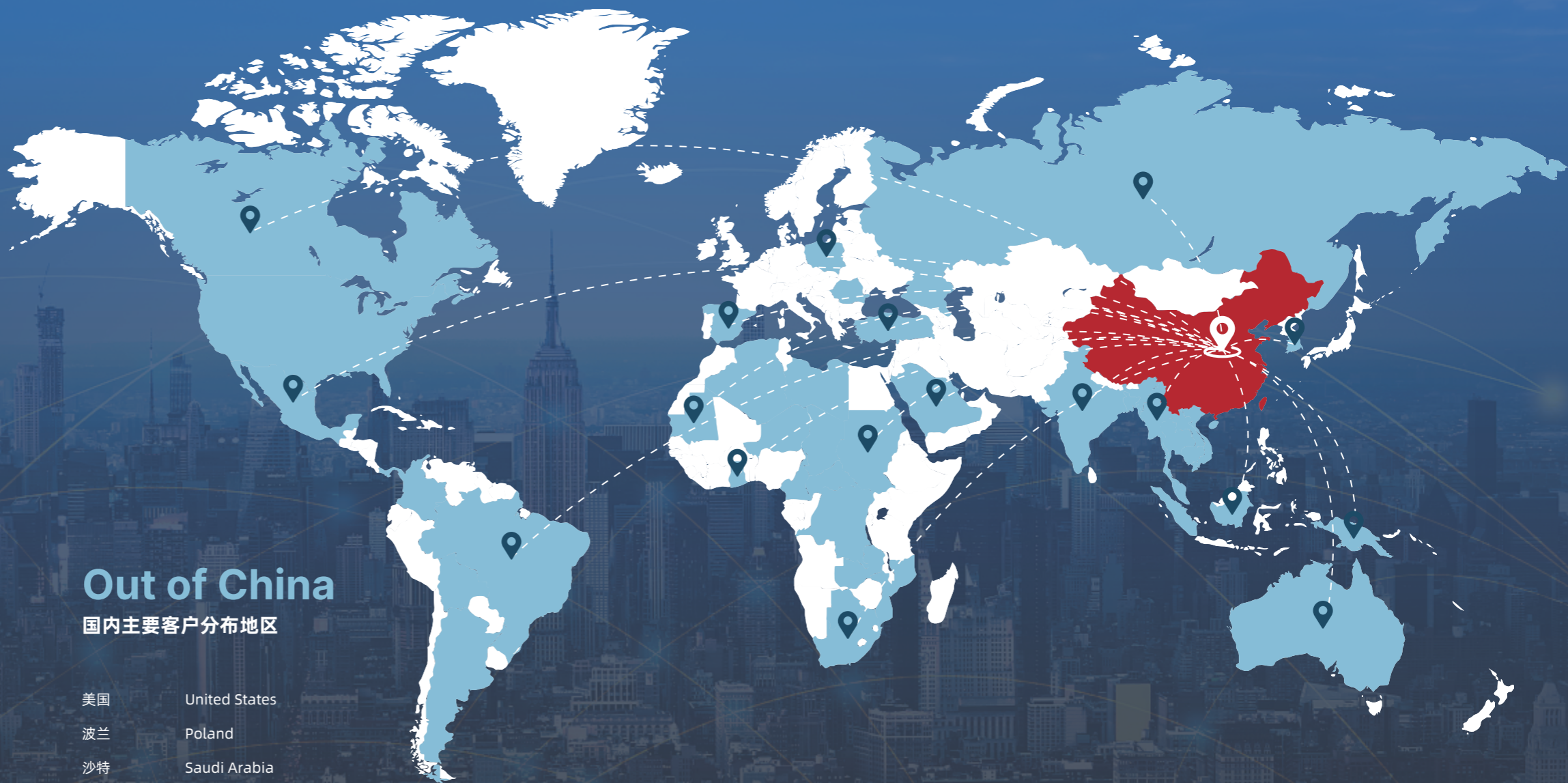


- 外观设计专利 (4项) Appearance Patent (4)
- 实用型专利 (52项) Utility Patents (52)
- 软件著作权 (6项) Software copyrights (6)

# Global Customers Distribution

全球客户分布图

■ 公司产品销售过的地区  
 Regions where our company has conducted sales  
■ 公司尚未开拓的市场  
 Markets our company has not yet entered



# 1500 +

累计售出1500多套设备（间歇设备、连续设备）  
Cumulative sales of more than 1500 sets of plant (Intermittent and continuous plant)

# 40 +

远销40多个国家和30多个中国地区  
Export to over 40 countries all over the world and 30 region in China

# 16 +

长达16年的产品研发和服务经验  
More than 16 years experience on product R&D and service

## Out of China

国内主要客户分布地区

- 美国 United States
- 波兰 Poland
- 沙特 Saudi Arabia
- 巴西 Brazil
- 泰国 Thailand
- 土耳其 Turkey
- 奥地利 Austria
- 加纳 Ghana
- 罗马尼亚 Romania
- 葡萄牙 Portugal
- 苏丹 Sudan
- 韩国 Korea
- 印度等 India, etc.

## In China

国内主要客户分布地区

- |                       |                   |                       |
|-----------------------|-------------------|-----------------------|
| 宁夏 Ningxia            | 广州 Guangzhou      | 河南鹤壁 Hebi, Henan      |
| 山东济宁 Jining, Shandong | 内蒙 Inner Mongolia | 山东济宁 Jining, Shandong |
| 山西大同 Datong, Shanxi   | 江西 Jiangxi        | 新乡 Xinxiang           |
| 新疆 Xinjiang           | 贵州 Guizhou        | 贵港 Guigang            |
| 湖南 Hunan              | 青岛 Qingdao        | 聊城 Liaocheng          |
| 邯郸 Handan             | 陕西 Shaanxi        | 云南等 Yunnan, etc.      |

# Terms and Conditions

## 付款条件

### 价格条款:

2020国际贸易术语解释通则中的FOB价，连云港港口。

### 付款条件:

第一：合同签订后，以电汇（T/T）方式预付合同金额的40%。

第二：60% 合同金额将在装货提供提单后通过电汇（T/T）。

买方为卖方工程师提供安装调试期间的双程机票、食宿、买方所在国当地交通及意外保障。买方还应支付工程师每天100美元的工资。

### PRICE TERMS:

FOB LIAN YUNGANG price, as Incoterm 2020.

### PAYMENT TERMS:

First: +40% of contract value will be paid by T/T in advance after signing the contract.

Second: +60% of contract value will be paid by T/T .

The buyer should provide double tickets, food, accommodation, Local traffic in buyer's country and accident assurance for seller's engineer during installation and commissioning. The Buyer should also pay the engineer's salary of 100 USD per day.

# Delivery Terms

## 运输条款

### 交货:

- 装运港：中国连云港。
- 转运或分批装运：禁止。
- 发货日期：收到电汇定金之日起 60 天内。

标记：毛重/净重

价格有效期：30天

保修期：主反应器一年。

买方应根据卖方提供的操作手册来操作设备。

### Delivery:

- Port of shipment: Lianyungang, China.
- Transshipment or Partial shipment: Prohibited.
- Shipment date: within 60 days upon the date receiving the deposit by T/T.

Marking: Gross weight /Net weight

Price Valid: 30 Days

Warranty: ONE YEAR for the main reactor.

The buyer should operate the plants according to the operation manual the seller supplied.

# Service and Support

## 售后服务与支持

交货：质量保修期：主反应器保修一年。

安装：根据买方要求，我公司派工程师到买方现场进行安装、调试，并对买方工人进行操作、维护等技能培训。

根据买方厂房及土地布置提供厂房布局设计图、土建资料、操作手册等。

对于用户造成的损坏，我公司按成本价提供配件。

我厂以成本价向客户提供易损件。

Delivery: Quality warranty period: One year warranty for the main reactor.

Installation: According to the requirements of the buyer, our company sends engineer for installation and commissioning in buyer's site including the training of skills of buyer's workers on operation, maintenance, etc.

Supply layout according to buyer's workshop and land, civil works information, operation manuals, etc. to the buyer.

For the damage caused by the users, our company provides the parts and accessories with cost price.

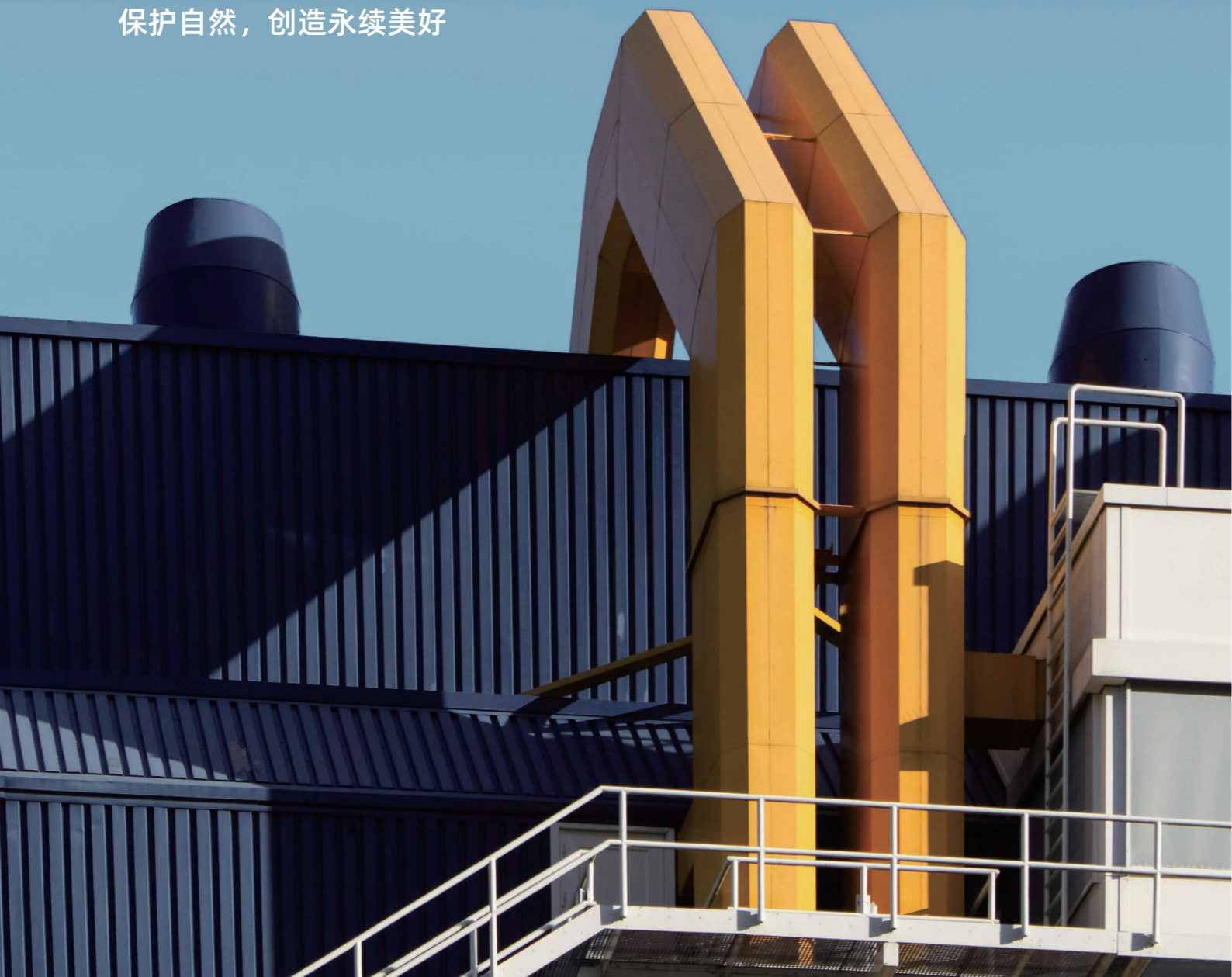
Our factory supplies the wearing parts with the cost price to clients.

# Shipping photos



# PROTECTING NATURE FOR A SUSTAINABLE FUTURE

保护自然，创造永续美好



技术研发  
Principle Development



多项专利  
Several Patents



品质保证  
Quality Assurance



非标定制  
Customization



### 可靠的有保障的服务 Reliable Guaranteed Service



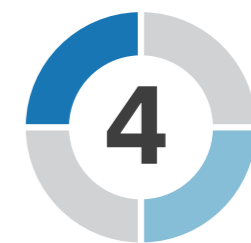
以客户为中心，以质量求生存，以创新谋发展。  
Customer centricity, survival through quality, and development through innovation.

### 4大优势 Four Major Advantages



完善的服务  
Perfect service

稳定的性能  
Stable performance



合理的价格  
Reasonable price

诚信的行为  
Honest behavior

### 质量管理体系 Quality Management System



质检小组把控质量  
The quality inspection team controls the quality



项目小组全程服务  
Full service provided by the project team



严控生产制作流程  
Strictly control the production process



售后维护保证服务  
After sales maintenance guarantee service

# Service Guarantee

服务保障

## Production Service

生产服务



对整个运输过程进行监控，确保安全性和及时性；

Monitor the entire transportation process to ensure safety and timeliness



根据需求，邀请客户到厂验证后发货；

According to demand, customers are invited to the factory for verification before shipment;



提前与客户联系，准备现场所需的辅助物品，确保在更短的时间内生产；

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



提前向客户提供所需图纸，指导客户提前做好土建工作，确保在较短的时间内投产。

Provide customers with required drawings in advance, and guide customers to complete civil construction work to ensure that they can be put into production in a short period of time.



售前指导 Pre-sales Guidance

详细了解客户需求，分析规划并提供产品配置方案供客户选择。

Understand customer needs in detail, analyze planning and provide product configuration solutions for customers to choose.



售中咨询 Sales Consultation

邀请客户参观生产现场或厂区，介绍整个生产过程；为客户提供综合咨询、规划、实施等系列服务。

Invite customers to visit the production site or factory area and introduce the entire production process; provide customers with comprehensive consulting, planning, implementation and other series of services.



售后服务 After-sales service

- 01 独家交付经理和售后工程师双重服务；  
Dual services of exclusive delivery manager and after-sales engineer;
- 02 现场安装、调试、生产，工程师全程保驾护航。  
On-site installation, commissioning and production, engineers will escort you throughout the process.
- 03 提供专业的培训与相关技术咨询；  
Provide professional training and related technical consultation;
- 04 售后部门设有24小时的紧急叫应服务系统；  
The after-sales department has a 24-hour emergency response service system;
- 05 定期维护客户，保持高效沟通，并及时为客户解决问题；  
Maintain customers regularly, maintain efficient communication, and solve problems for customers in a timely manner;
- 06 为客户终身提供成本价的易损件。  
Provide customers with consumable parts at cost prices for life.