

**FROM  
1985**



**PYROJIN ECO  
INDUSTRIAL**

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## **CONTINUOUS PYROLYSIS PLANT INTRODUCTION**

**连续热解设备简介**

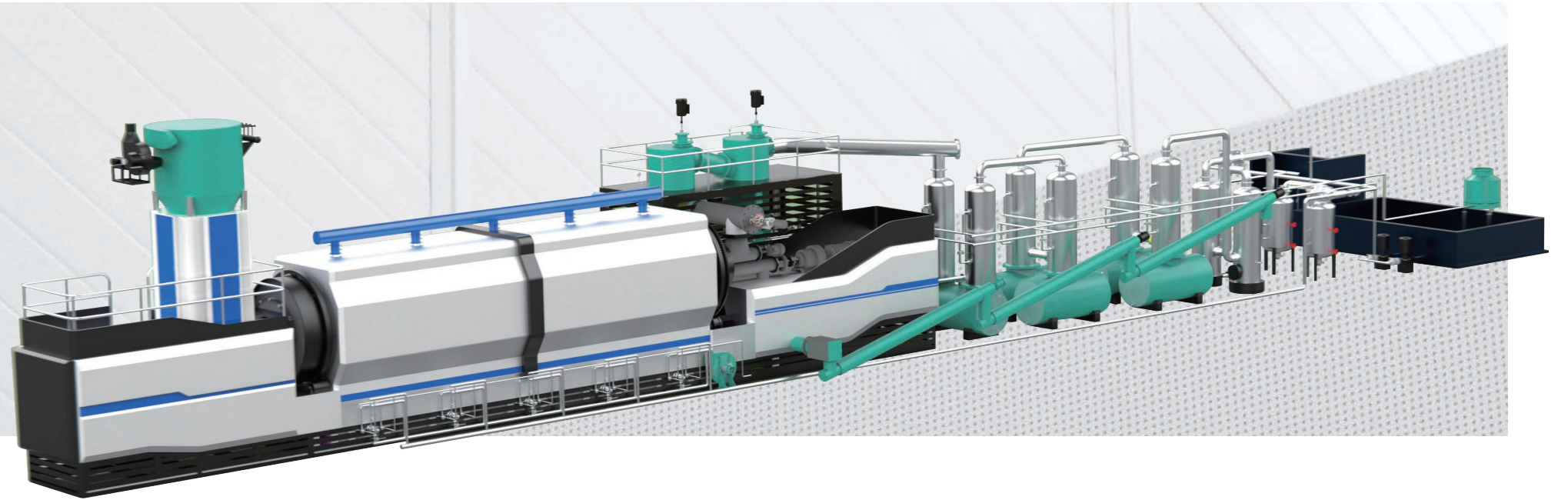
**商丘金蓬实业股份有限公司**

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.

# Continuous Pyrolysis Plant Working Principle

连续热解设备流程描述

## ■ 工作原理 Working Principle

本项目利用负压热解技术对废旧轮胎进行无害化、资源化处理。该技术利用废旧橡塑中有机物的热不稳定性，在无氧条件下，加热热解炉内的固体橡塑原料，完成固体橡塑热解，经冷凝后形成各种气体、液体和固体，从中提取橡胶助剂、炭黑、钢丝和不凝气的过程。

This project utilizes negative pressure pyrolysis technology for the harmless and resourceful treatment of waste tires. The technology takes advantage of the thermal instability of organic materials in waste rubber and plastics. Under anaerobic conditions, the solid rubber and plastic raw materials are heated in a pyrolysis furnace, completing the pyrolysis process. The materials are then condensed to form various gases, liquids, and solids, from which rubber oil, carbon black, steel wire, and syngas are extracted.



## 01 进料系统 Feeding System

破碎后的胶粉原料经密封负压输送装置直接输送至热解设备的密封进料机，保证原料的稳定供给，整个过程全部自动化操作，输送效率高，无污染。

The crushed rubber powder is conveyed directly to the pyrolysis equipment through a sealed negative pressure conveyor device, ensuring a stable supply of raw materials. The entire process is automated, providing high transportation efficiency and no pollution.

## 02 热解处理系统 Pyrolysis Treatment System

进入热解炉的胶粉在微负压状态下采用间接加热的方式以天然气或者燃料油进行加热，通过热传递的方式对热解炉内的胶粉进行热解，当热解釜内温度达到200°C以上时，立体网状结构、大分子的橡胶热解成小分子量的低烃分子，油气经过汽包缓冲释压，进入冷凝器冷却，将可液化部分分离，从而得到高附加值的清洁橡胶助剂等资源化物质，冷却后的清洁橡胶助剂储存于储罐暂存，外售。

In the pyrolysis furnace, the rubber powder is heated indirectly using natural gas or fuel oil under slight negative pressure. The rubber powder undergoes thermal decomposition through heat transfer. When the temperature in the pyrolysis furnace exceeds 200°C, the large molecular rubber is broken down into low molecular weight hydrocarbons. The oil and gas pass through a vapor buffer to release pressure and enter the condenser for cooling, separating the liquefiable parts and obtaining high-value clean rubber oil and other resources. The cooled clean rubber oil are stored in tanks for temporary storage and sold externally.



## 03 气体处理系统 Gas Treatment System

不凝气经缓冲罐缓冲后进入气体净化罐除去少量颗粒物，处理后的气体进入加热底座当作加热燃料加热燃烧，作为微负压热解炉热源，既节约燃料能源又不污染环境；燃烧后产生的烟气先进入脱硫塔，与水泵抽送的碱液混合，通过中和反应，清除烟气中酸性物质，再通过吸附塔进行吸附处理，循环使用的碱液流回水池内，完成烟气的净化处理，清洁的烟气外排。

The syngas are buffered in a buffer tank before entering a gas purification tank to remove minor particulates. The treated gas is used as heating fuel in the heating base of the pyrolysis furnace, conserving fuel and avoiding environmental pollution. The combustion-generated flue gas first enters a desulfurization tower, mixing with alkaline liquid pumped by a water pump. The acid gases in the flue gas are neutralized and removed, and the gas is further treated in an adsorption tower. The alkaline liquid is recycled back to the water tank, completing the flue gas purification process, and clean flue gas is released.

## 04 出渣系统 Discharging System

热解结束后，混合固体材料通过密闭式螺旋出料机进入水冷式密闭出渣器，出渣器出口炭黑装入炭黑储存袋运送到炭黑储存区，整个生产过程都是自动化生产，而且通过管道密封连接，环保无污染。

After pyrolysis, the mixed solid materials are transported to a water-cooled closed discharging device through a sealed screw discharger. The carbon black at the slag discharger's exit is packed into carbon black storage bags and transported to the carbon black storage area. The entire production process is automated and environmentally friendly, with sealed pipe connections ensuring no pollution.

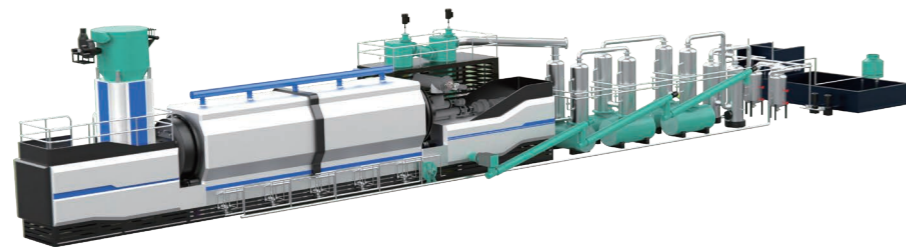
Continuous Pyrolysis Plant

# Continuous Pyrolysis Plant Diagram

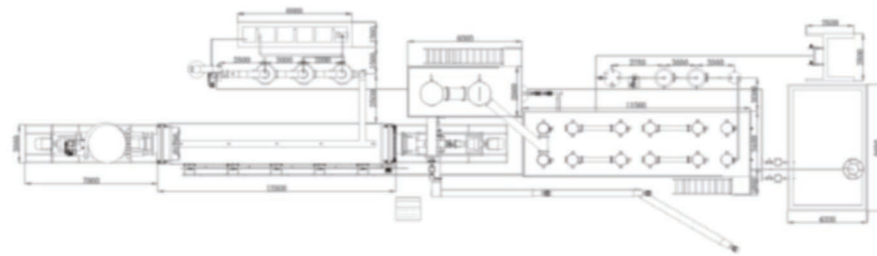
连续热解设备图

 油/天然气加热  
Oil / Gas Heating

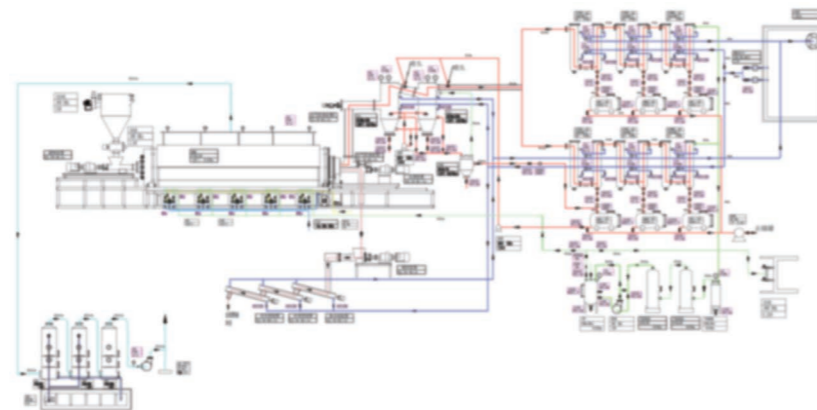
**01**  
设备效果图  
Rendering image of the plant



**02**  
设备平面图  
Layout plan of the plant

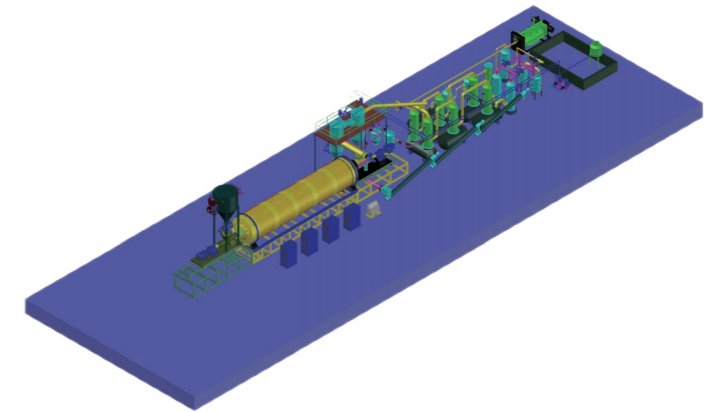


**03**  
设备工艺图  
PID of the plant

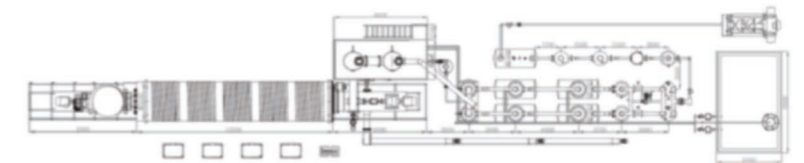


 电加热  
Electrical Heating

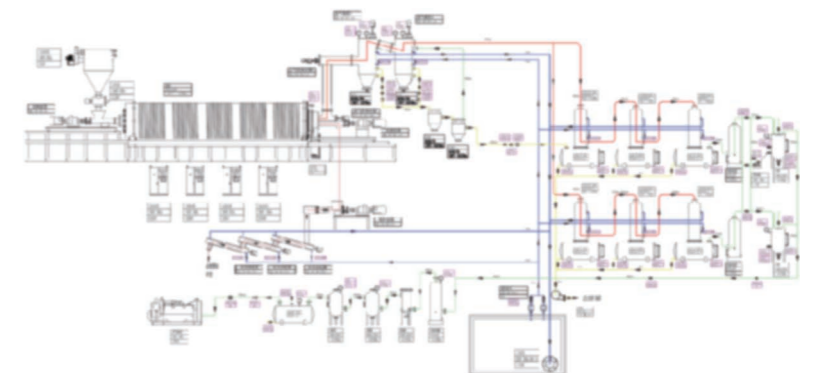
**01**  
设备效果图  
Rendering image of the plant



**02**  
设备平面图  
Layout plan of the plant



**03**  
设备工艺图  
PID of the plant



# THE WORLD IS SPLENDID BY PERSISTENT INNOVATION

世界，因执着创新而精彩



24H连续化生产  
24H Continuous Production



自动化作业  
Automated Operations



节能又高效  
Energy Saving and High Efficiency

# Continuous Pyrolysis Plant Characteristics

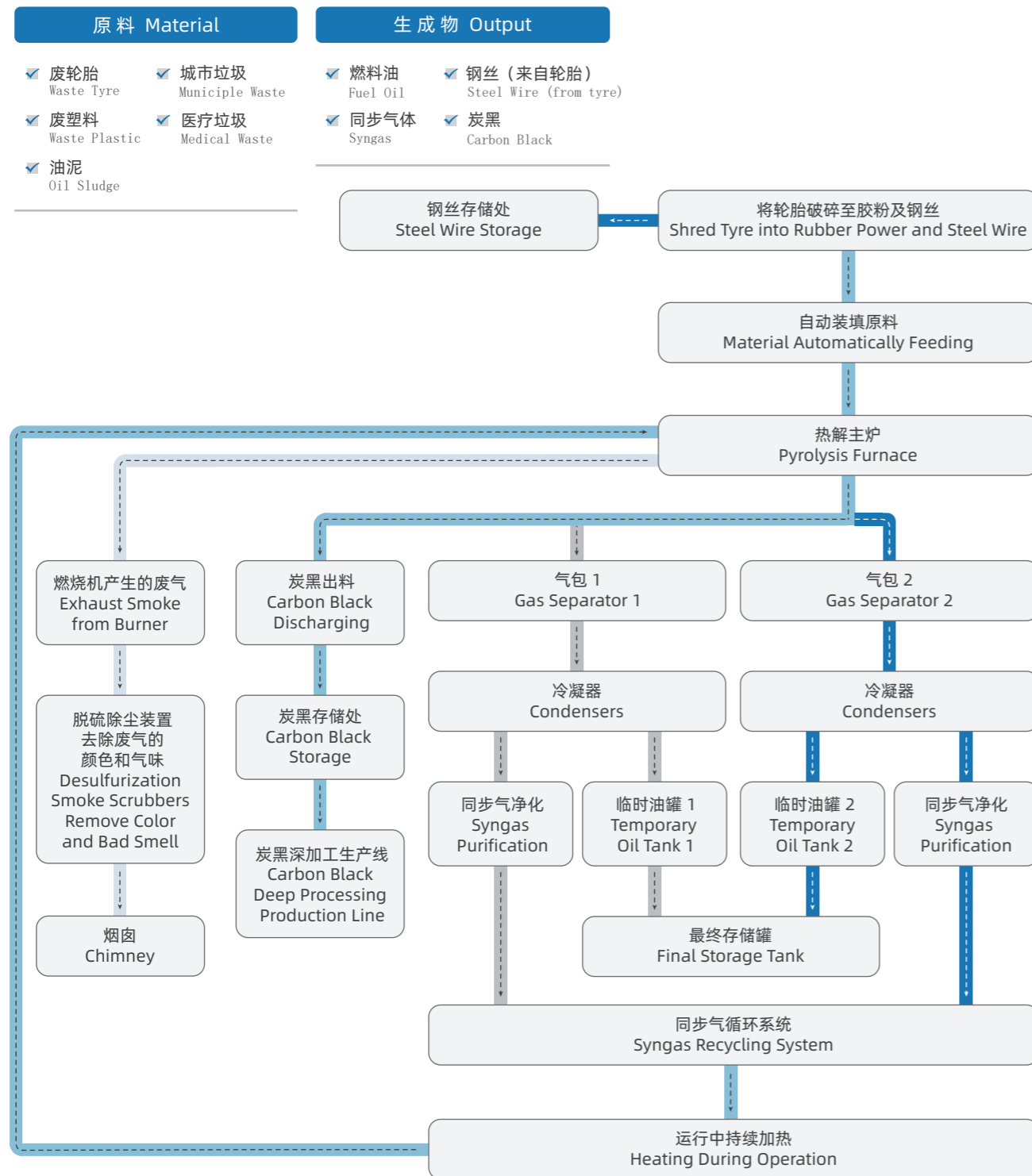
连续热解设备特点

自有专利 | 非标定制  
Own Patents | Customization

- 01 进料系统采用全国独有双拔齿螺旋密封自动进料方式，进料量大。  
The feeding system adopts a unique dual-pin spiral sealing automatic feeding method, allowing for a large feeding capacity.
- 02 出渣方式采用多级密封降温出渣，解决出渣堵塞、漏气问题。  
The discharge employs multi-stage sealing and cooling, resolving blockage and gas leakage issues.
- 03 生产过程中采用微负压工艺系统，保证了所有气体不外漏更安全，符合欧盟安全标准。  
The production process adopts a micro-negative pressure system to ensure all gases are contained, enhancing safety and meeting EU safety standards.
- 04 自动清理的专利技术，将主炉内部与冷凝器内部结焦部分自动清理并回收，连续运行周期增加5倍。  
Patented automatic cleaning technology removes and recovers coking from the main furnace and condenser, increasing the continuous operation cycle by five times.
- 05 传动装置设计：外齿圈传动，拖轮轴承采用中国高铁专用锥形可微调轴承，耐磨，寿命长，设备运行平稳，噪音小。  
The transmission device features an outer gear ring, and the roller bearing uses adjustable conical bearings from Chinese high-speed rail, offering durability, long life, stable operation, and low noise.
- 06 独特的加热外壳设计：优异的保温和节能效果。  
A unique heating shell design provides excellent insulation and energy efficiency.
- 07 不凝气净化处理后进入加热底座当作燃料再利用，既节约燃料能源又不污染环境。  
Syngas is purified and reused as fuel in the heating base, conserving fuel and preventing environmental pollution.
- 08 设备自动化程度高，操作简单易学只需3-5个人就可以进行生产。  
The equipment has a high degree of automation and is simple to operate, requiring only 3-5 people for production.
- 09 加热底座炉膛采用最新传热工艺，可使温差控制在5°C之内，加热均匀快速，上温快，温度易控制，炉体寿命可延长5年。  
The heating base furnace uses the latest heat transfer technology, maintaining temperature differences within 5°C, even and fast heating, easy temperature control, and extending furnace life by 5 years.
- 10 进料和出渣系统分别采用自动充氮技术置换炉内可燃气体，如有气体泄漏可自动进行氮气密封并报警，提高设备安全性。  
The feeding and discharging systems use automatic nitrogen purging to replace flammable gases in the furnace. In case of gas leakage, nitrogen sealing and alarm systems automatically activate, enhancing safety.
- 11 设备安全性高，采用全自动埋弧焊接技术，使产品质量有保证，生产过程中安装有安全人工及自动安全检测装置。  
The equipment features high safety standards with fully automatic submerged arc welding technology, ensuring product quality. Manual and automatic safety detection devices are installed during production.
- 12 操控系统自动化程度高，整条生产线运转情况可在操控台全面显示，更直观更全面。  
The control system is highly automated, displaying the entire production line operation on the control panel for more intuitive and comprehensive monitoring.

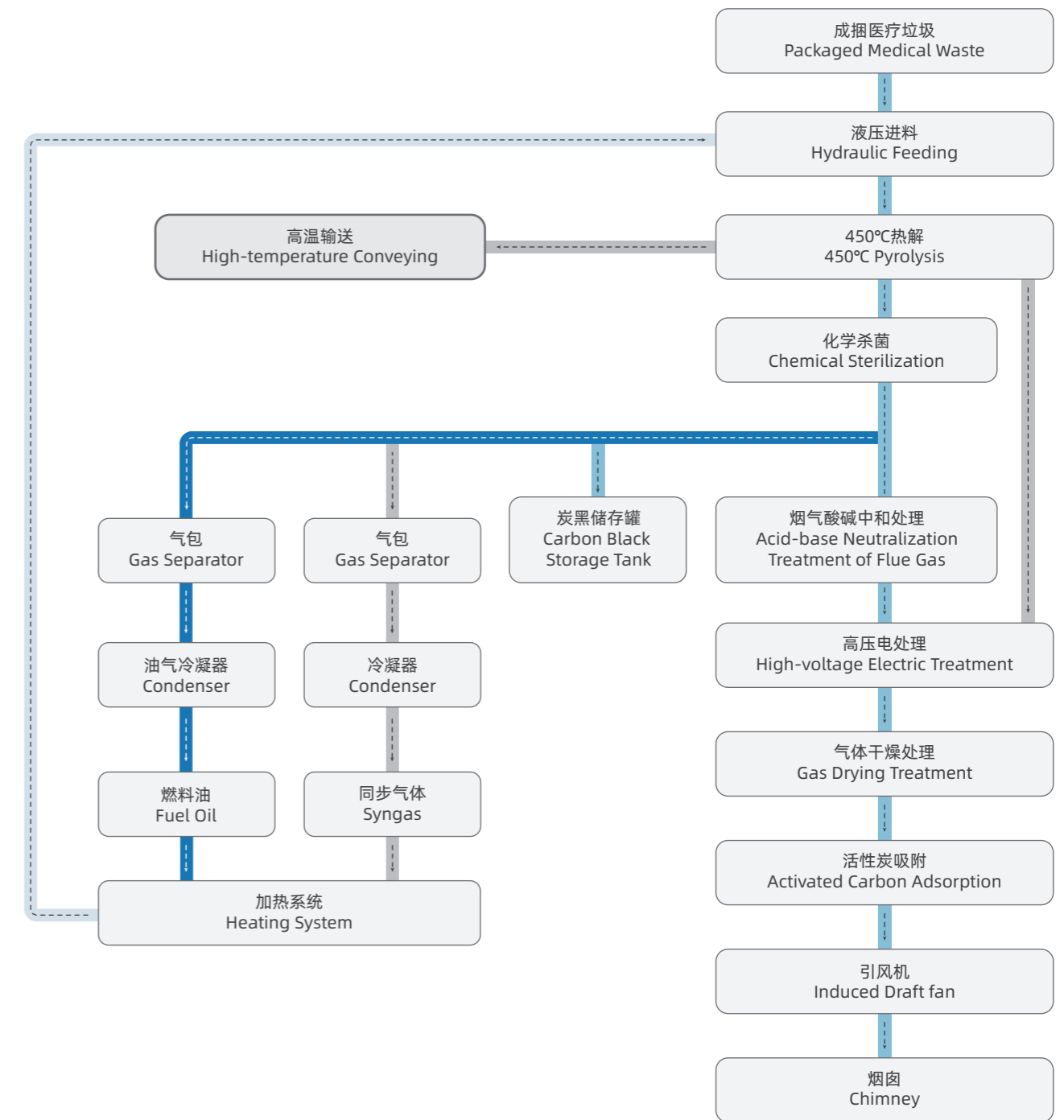
# Continuous Pyrolysis Plant Processing Flow Chart

连续热解设备流程图



# Medical Waste Processing Flow Chart

医疗垃圾处理流程图



# Continuous Pyrolysis Plant Technical Parameter

连续热解设备相关技术参数

项目 Item	内容 Project
设备型号 Equipment Model	PC
设备尺寸 Equipment Size	Φ1700*12500; Φ2500*12500
适用原材料 Suitable Raw Materials	轮胎胶粉/塑料颗粒 Tire rubber powder/Plastic granules
工作形式 Working Type	连续式 Continuous Type
结构形式 Structure Type	卧式旋转 Horizontal Rotation
24小时处理量 24-hour processing capacity	20-30吨 (ton); 30-40吨 (ton)
工作压力 Working Pressure	微负压 Slight Negative Pressure
主机转速 Main Reactor Rotating Speed	0.3转/分(rpm)
配备动力 (KW) Equipped Power (KW)	100-120
冷却方式 Cooling Method	循环水冷 Circulating Water cooling
出油率 Oil Yield	40%-55%
传动方式 Transmission Method	外齿传动 External Gear Transmission
加热方式 Heating Method	热风 Hot air
安装方式 Installation	无基础 No foundation
噪声dB (A) Noise	≤85
总重量 (T) Gross Weight	120; 135
安装尺寸 (m) Installation Size	50*20
人工 Manpower Shift	1-2

# The Parameter of The Tire Oil After Pyrolysis

热解油参数



项目 Item	轮胎热解油 Tire Oil	塑料热解油 Plastic Oil
水分 Moisture Content	1% - 2%	1% - 2%
含硫量 Sulfur Content	0.3%	≤0.5%
密度 Density	0.88-0.92	0.84-0.88
十六烷值 Cetane Number	30	30
热值 Combustion Value	9500	9000
沥青含量 Asphalt	0.5%	0.5%
灰分 Ash	1%	/
杂质 Impurity	1%-3%	/
凝点 Solidifying Point	- 10°C	10°C
闪点 Flash Point	65°C	55°C

# Profit Analysis of Fuel Heating Project

火枪加热项目利润分析报告

项目 Item	参数 Details
日处理量 Daily Capacity	30T
运行时长 Operation Period	25天/月 25 days/month
轮胎成本 Cost of Tires	$30T * 500 = 15000¥$
人工成本 Cost of Labor	$3P * 300¥/P/Day * 2Shifts = 1800¥$
用电量 Electricity	$2880KWH * ¥1.0/KWH = 2880¥$
燃料成本 Fuel Cost of Fuel Oil	$600KG/25D * 4100¥/T = 98.40¥/D$
其他成本 Other Cost	100¥/D
综合日成本 Total Daily Cost	19,878.40¥
油品毛利润 Oil Income	$30T * 42% * 4100¥/T = 51660¥$
钢丝利润 Steel Income	$30T * 13% * 1000¥/T = 3900¥$
粗碳黑利润 Carbon Black Income	$30T * 35% * 1100¥/T = 11550¥$
毛利润 Gross Income	67110¥
日净利润 Daily Net Income	$67110¥ - 19,878.40¥ = 47231.6¥$
年净利润 Yearly Net Income	$47231.6¥ * 300D = 14,169,480¥ (About \$2,024,211)$

注:  
1. 本分析以每天30吨轮胎计。  
2. 相关价格以您市场的实际情况为准。  
(特别是胶粉成本和油价)  
3. 燃料计算: 燃料消耗量/总工作时间。  
4. 汇率 1 美元=7人民币。

Note:  
1. This Analysis is made with capacity 30 MT tires.  
2. Please modify relative prices according to your actual market conditions  
(Especially rubber powder cost and oil price).  
3. The calculation of Fuel: Amount of fuel consumed/Total working time.  
4. Exchange rate used 1USD=7CNY.

# Profit Analysis of Electrical Heating Project

电加热项目利润分析报告

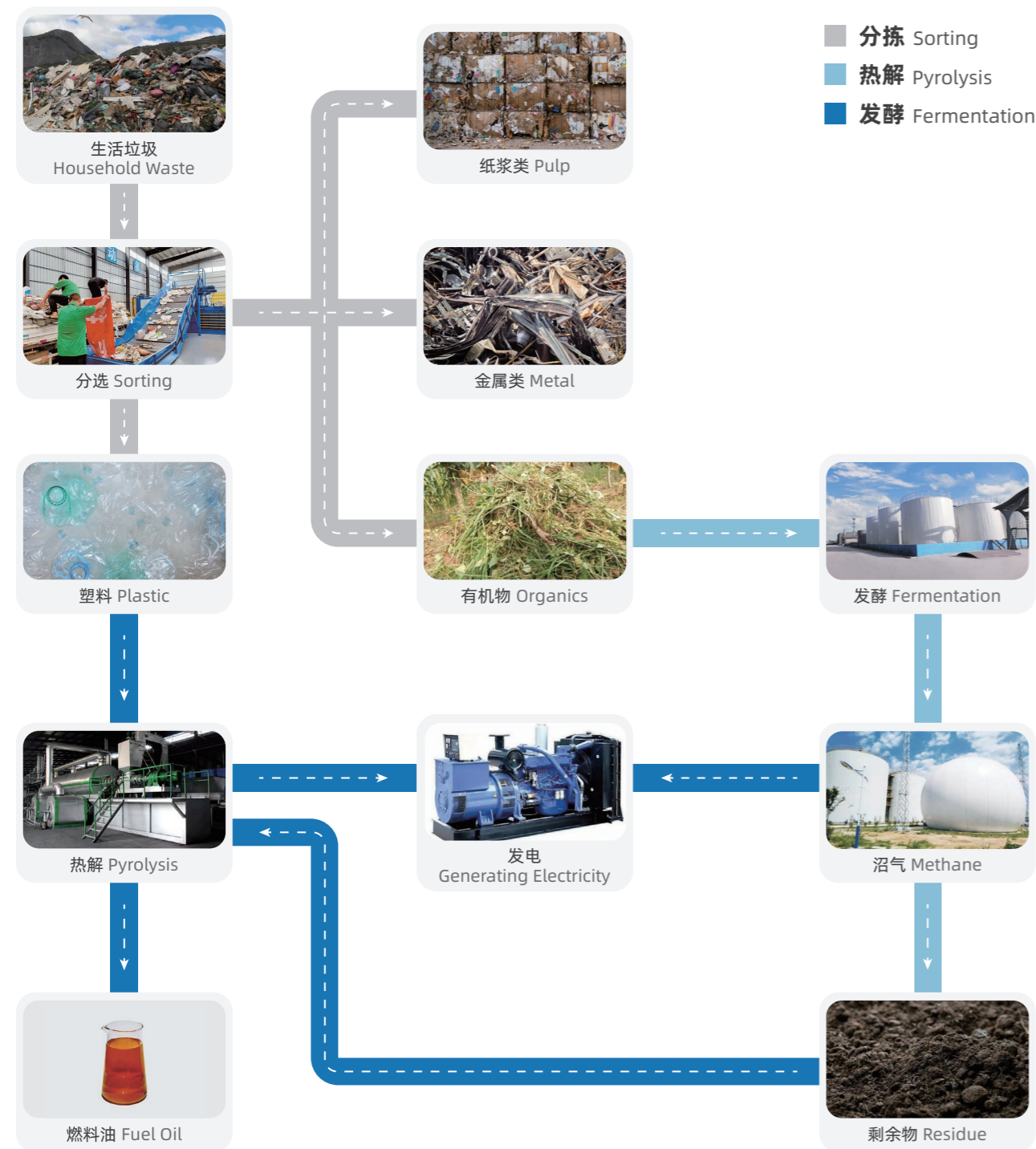
项目 Item	参数 Details
日处理量 Daily Capacity	30T
运行时长 Operation Period	25天/月 25 days/month
轮胎成本 Cost of Tires	$30T * 500¥/MT = 15000¥$
人工成本 Cost of Labor	$3P * 300¥/P/Day * 2Shifts = 1800¥$
用电量 Electricity	$9000KWH * ¥1.0/KWH = 9000¥$
其它成本 Others Cost	100¥/D
综合日成本 Total Daily Cost	25900¥
油品毛利润 Oil Income	$30T * 42% * 4100¥/T = 51660¥$
钢丝利润 Steel Income	$30T * 13% * 1000¥/T = 3900¥$
粗炭黑利润 Carbon Black Income	$30T * 35% * 1100¥/T = 11550¥$
毛利润 Gross Income	67110¥
日净利润 Daily Net Income	$67110¥ - 25900¥ = 41210¥$
年净利润 Yearly Net Income	$41210¥ * 300D = 12,363,000¥ (About \$1,766,143)$

注:  
1. 本分析以每天30吨轮胎计。  
2. 相关价格以您市场的实际情况为准。  
(特别是胶粉成本和油价)  
3. 产生3%的不凝气可用于发电, 发电量为  
5000KWH, 电费计算为额外用电量。  
4. 汇率 1 美元=7人民币。

Note:  
1. This Analysis is made with capacity 30 MT tires.  
2. Please modify relative prices according to your actual market conditions  
(Especially rubber powder cost and oil price).  
3. The 3% of syngas generated can be used for power generation, with a  
power output of 5000 KWH. The electricity cost is calculated for the  
additional electricity usage.  
4. Exchange rate used 1USD=7CNY.

# Household Waste Processing Flow Chart

生活垃圾处理流程图



# Clients' Project Cases

客户项目案例



# 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
- 节能环保型炭黑深加工设备
- 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

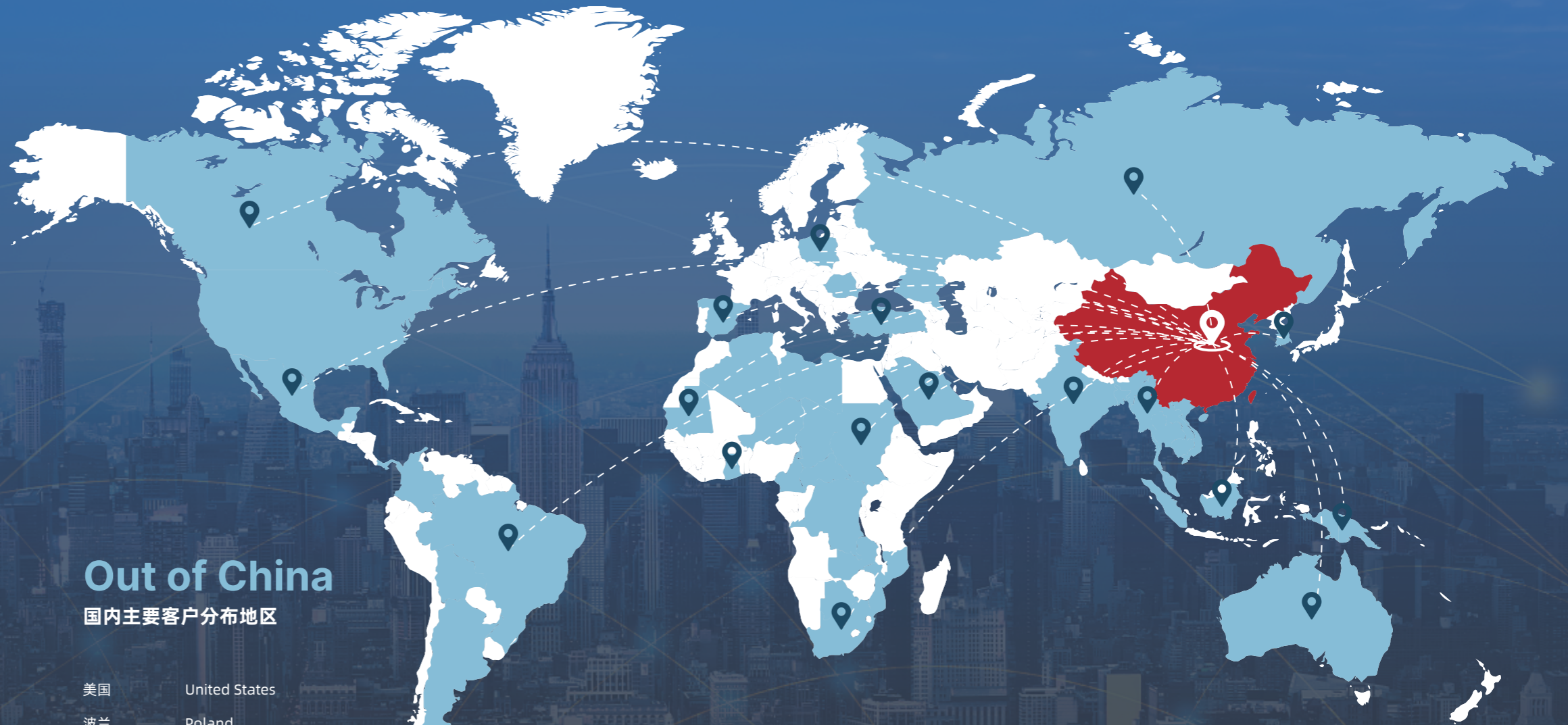


- 外观设计专利 (4项) Appearance Patent (4)
- 实用型专利 (52项) Utility Patents (52)
- 软件著作权 (6项) Software copyrights (6)

# 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.

# Shipping photos



# 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.

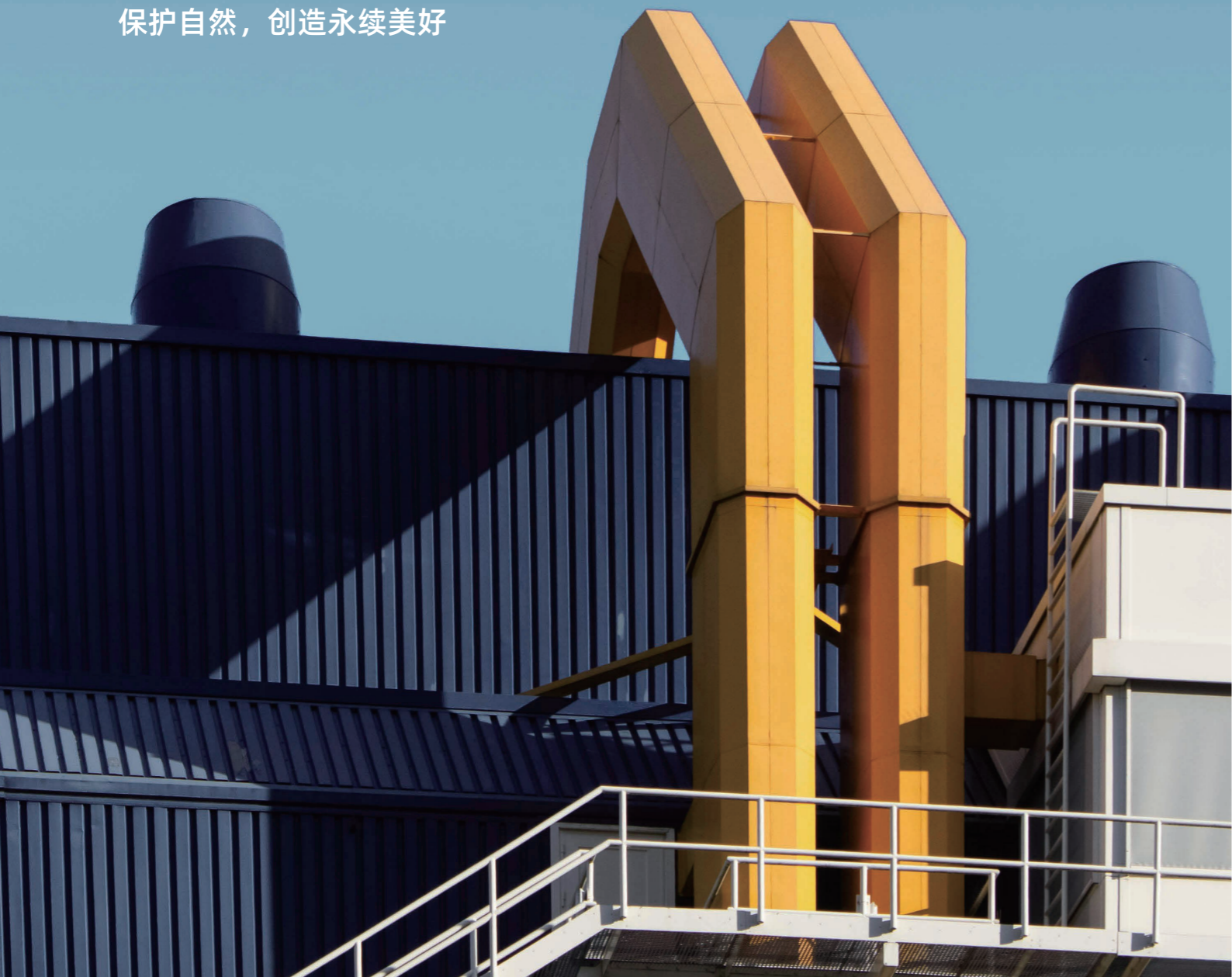
Supply layout according to buyer's workshop and land, civil works information, operation manuals, etc. to the buyer.

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.

# 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



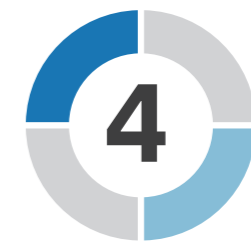
以客户为中心，以质量求生存，以创新谋发展。  
Customer centricity, survival through quality, and development through innovation.

### 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.