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**China's Answer To
Low-carbon Treatment
And High-value Recycling Of
Waste Tires**



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COMPANY PROFILE

Jiangsu Green Gold Giant Technology Co., Ltd is a solution provider specializing in green high-value recycling technology research and development, special equipment manufacturing and technical services for waste tires. It is based on the Beijing University of Chemical Technology. We committed to making polymer recycling greener and processing lower carbon.

Enable high-value reuse of waste tires. The equipment launched by Green Gold Giant to the market can use waste tires as raw materials, make waste rubber become re-processable by physical or chemical methods. Our equipment accumulated gains over 20 invention patents, including 2 PCT patents.

At present, our equipment has been promoted and used in Europe and Asia. The global production lines produce over 100,000 tons of reclaimed rubber per year, of which 70% are used by tire factory itself. The longest stable operation of equipment has been running over 7 years.

BUSINESS LAYOUT

A Devulcanization of Waste Tire Rubber by Multi-stage Screw Extruders



B Development of continuous and efficient pyrolysis technology and pyrolysis carbon black modification technology

C Complete set of technical equipment for preparing devulcanized rubber from waste EPDM/Butyl Rubber

D Waste rubber powder customized continuous preparation of composite particle activated rubber powder technology equipment

ADVANCED MATERIAL

High performance self-healing tire sealant technology equipment.



CORE IDEA

ESG LOGIC

Tire enterprises should actively practice the ESG concept, reduce energy consumption and carbon emissions through technological innovation, green manufacturing and recycling, achieve green production of raw materials, process technology and production equipment, and promote the high-quality development of the tire industry.

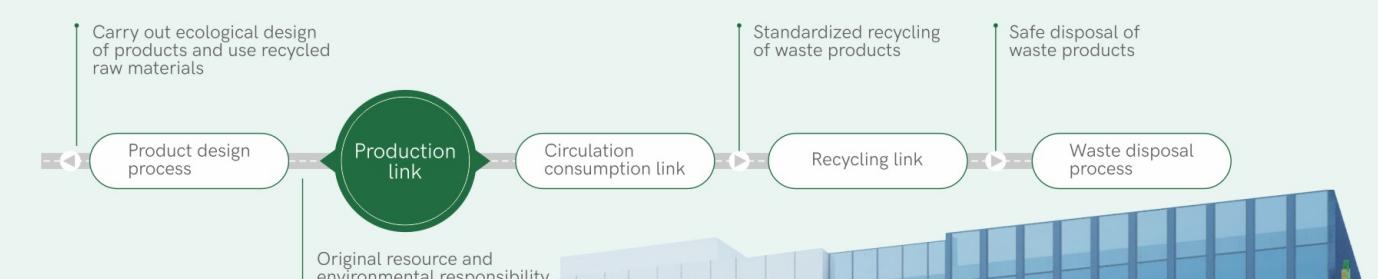


TIRE LIFE CYCLE



EXTENDED PRODUCER RESPONSIBILITY SYSTEM

The recycling, treatment and reuse of waste tires by tire production enterprises is a key part of improving the green supply chain of tire enterprises and building the whole life cycle industrial chain. At present, ZC Rubber CO.,Ltd, Guizhou Tire CO.,Ltd, DoubleStar CO.,Ltd, Linglong Tire CO.,Ltd, etc., have established their own waste tire green reuse production factories.



Devulcanization of Waste Tire Rubber by Multi-stage Screw Extruders

SYSTEM INTRODUCTION

This system uses waste tire as raw material, through physical or chemical methods to break the sulfur-sulfur crosslinking line bond in the three-dimensional cross-linked network structure of waste rubber, so that the vulcanized rubber can recover plasticity and realize high-value reuse. Green Gold Giant recycled rubber complete set of technical equipment is the first domestic, international leading, the most widely used, the longest running atmospheric pressure continuous recycled rubber technical equipment.

ADVANTAGE

 **Environmental protection**
The emission index is better than the Chinese and EU standards

 **Safety**
No high temperature, high pressure, and open-operation risk

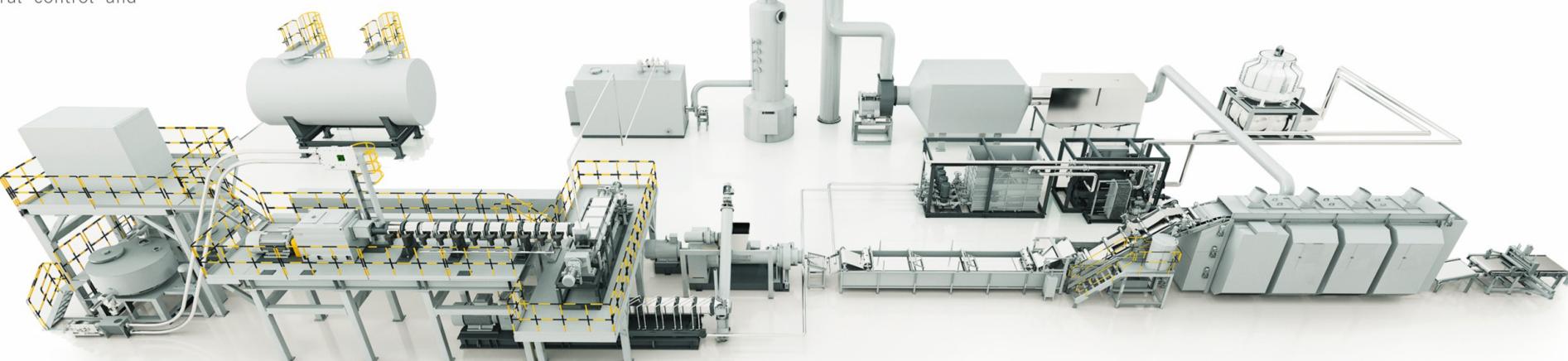
 **Continuous stability**
24 hours continuous mass production

 **Labor saving**
Only 5 people for central control and inspection

 **Data management**
Remote monitoring, fault warning, no manual involvement in the production process

 **Excellent and stable Product performance**
Mooney viscosity is stable and controllable, meeting or better than product standards

 **Tire crushing system**
Rubber Powder
24 mesh



PRODUCT APPLICATION



Tires



Conveyor belts



Rubber products



Animal Husbandry mats



Sporting goods



Shoes

PARAMETER LIST

Device function

Preparation of devulcanized rubber

Raw material

- Scrap truck tires

- Softener

The amount of waste tire is about 8.75%, mainly can use aromatic oil asphalt, tall oil asphalt, pine tar asphalt and so on

Equipment configuration

1 Tire Crushing System, 2 Devulcanization of Waste Tire Rubber by Multi-stage Screw Extruders

Yield

It can handle 20,000 tons of waste tires, produce about 10,000 ~ 12,000 tons of recycled rubber/year, 4,000 tons of waste steel wire/year, 3,000 tons of tire rings/year, and 2,000 tons of fine rubber powder/year

Equipment size

The crushing section is 38 meters long, 34 meters wide, a single recycled rubber line is about 52-60 meters long, 12 meters wide and 7.2 meters high, which can be arranged according to the site situation

OPTIONAL EQUIPMENT



Automatic packaging Robot



Automatic continuous Weighing and cutting machine



Rubber filter



Two-roll refiner

Complete set of technical equipment for preparing devulcanized rubber from waste EPDM/Butyl Rubber

LJR-REP series twin-screw extruder continuous extrusion green preparation of EPDM devulcanized rubber

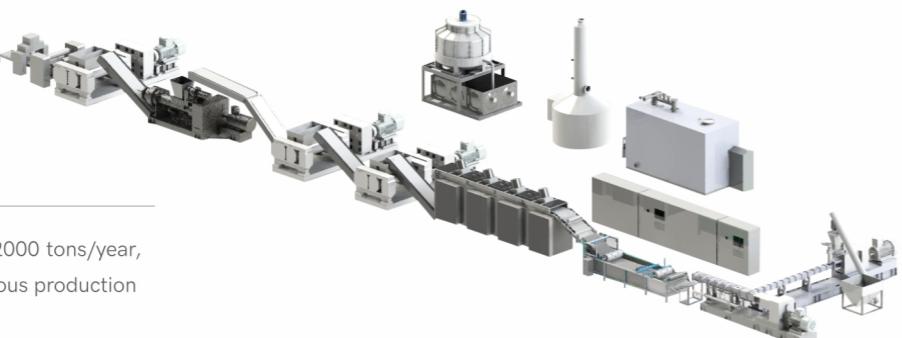
SYSTEM INTRODUCTION

With the increase of scrap car seals, wires and cables and other materials, the waste rubber recycling of EPDM rubber products has attracted more and more attention in the waste rubber recycling industry. The EPDM recycled rubber production equipment launched by Green Gold people has the characteristics of high degree of automation, centralized collection and treatment of exhaust gas, emission of other meet the standards of China and the European Union, and the produced EPDM recycled rubber has a small odor.

PARAMETER LIST

Product model LJR-REP-300H

Yield 300kg/h, about 2000 tons/year, 24 hours continuous production



LJR-RB series twin-screw extruder continuous extrusion green preparation of Butyl devulcanized rubber

SYSTEM INTRODUCTION

The complete set of technical equipment for waste butyl rubber materials such as tire inner tube, green preparation of recycled rubber. The principle is to use a screw extruder to apply a certain temperature and shear force to waste butyl rubber, so as to achieve the effect of sulfur removal and desulfurization. The produced regenerated butyl rubber sheet has reached and exceeded the domestic performance index, and is suitable for replacing the traditional tank type butyl rubber regeneration process.

PARAMETER LIST

Product model LJR-RB-450H

Yield 450kg/h, about 3000 tons/year, 24 hours continuous production



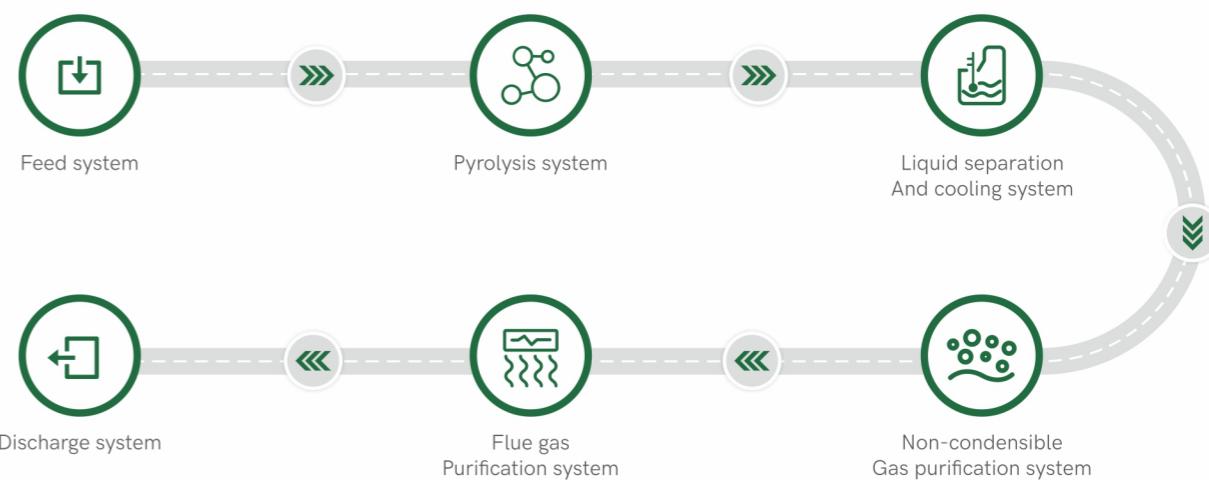
Development of continuous and efficient pyrolysis technology and pyrolysis carbon black modification technology

SYSTEM INTRODUCTION

The pyrolysis production line system launched by Green Gold Giant adopts low temperature anaerobic pyrolysis process for the resource utilization of waste tires. Through the thorough decomposition of the polymer in the waste tire, so that it returns to the small molecule or monomer state, the output of fuel oil, carbon black, steel wire, under the premise of safe, environmental protection, continuous and stable operation, the waste tire can be recycled, harmless and reduced.

PYROLYSIS PRODUCTION LINE SYSTEMS

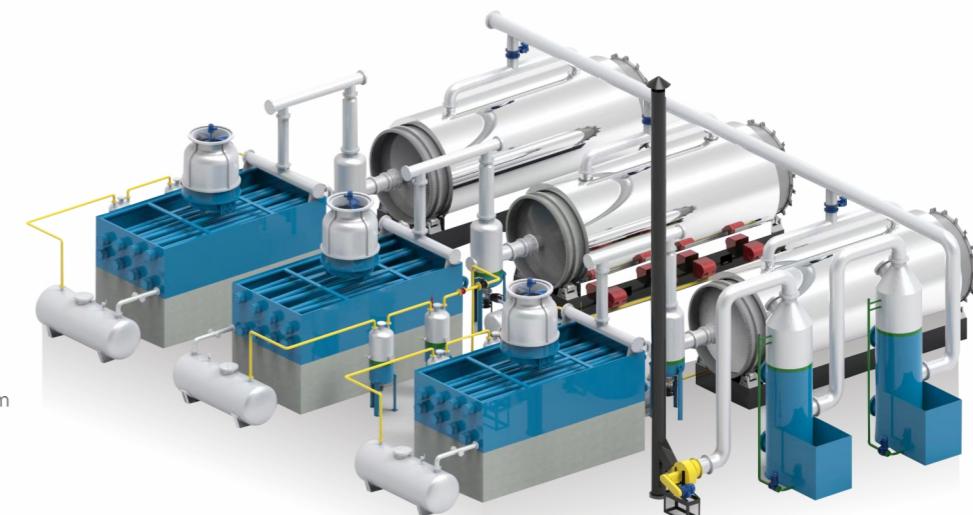
Production system



Auxiliary system

Circulating water cooling system

Electrical control system



Development of continuous and efficient pyrolysis technology and pyrolysis carbon black modification technology

ADVANTAGE



PARAMETER LIST

Name Intermittent pyrolysis equipment

Model number LJR-X 5000 SQ/PL/PT
LJR-X 8000 SQ/PL/PT
LJR-X 10000 SQ/PL/PT
LJR-X 15000 SO/PL/PT

Peculiarity Small investment, high income, good stability, high safety, environmental protection standard operation is simple and convenient.

Raw materials and product diagrams Scrap tires, engineering, tires and fuel oil (45%-55%), carbon black (30%-35%), wire (10%-15%), non-condensable gas (8%-10%) (for system)

Other parameters

Handling capacity Multiple devices can be matched in parallel according to requirements

Heating form Adjustable constant temperature heating

Service life of equipment No less than 5 years

Environmental protection emission The flue gas emission index meets the national emission requirements

product



Fuel oil



Carbon black



Steel wire



Non-condensable gas

High performance self-healing tire sealant technology equipment

SYSTEM INTRODUCTION

Self-repairing tire sealant can quickly wrap the nail to prevent air leakage when the tire is pierced by a nail, and fill the hole to achieve self-repair of the tire. Green Gold Giant have complete independent intellectual property rights from formula to equipment, efficient solid mixing master rubber and modifier, preparation of self-healing tire sealant. As the only fully domestic products, green gold self-healing adhesive technology and equipment to fill the domestic gap, is an excellent substitute for similar foreign products.



Self-healing adhesive product physical picture

PARAMETER LIST

Equipment type LJR-2000Y

Use Sealant for self-healing tires (can be customized according to customer requirements)

Raw material required Solid master glue, modifier (can be customized according to customer requirements)

Output 200kg/h-250kg/h, 24 hours continuous production, about 2000 tons/year

PRODUCT APPLICATION



Truck tire



Car tire



Tires for bicycle/motorcycle

ADVANTAGES AND MARKET

We emphasize that science and technology lead the development of technology and products, and constantly innovate and practice, and have won many qualifications and honors at home and abroad. We believe that creating value for customers is the ultimate goal, and we continue to provide high-quality solutions and services, which have won unanimous praise from customers around the world.



Guizhou Waste Tire Recycling System



Inner Mongolia Pyrolysis Production System



Inner Mongolia



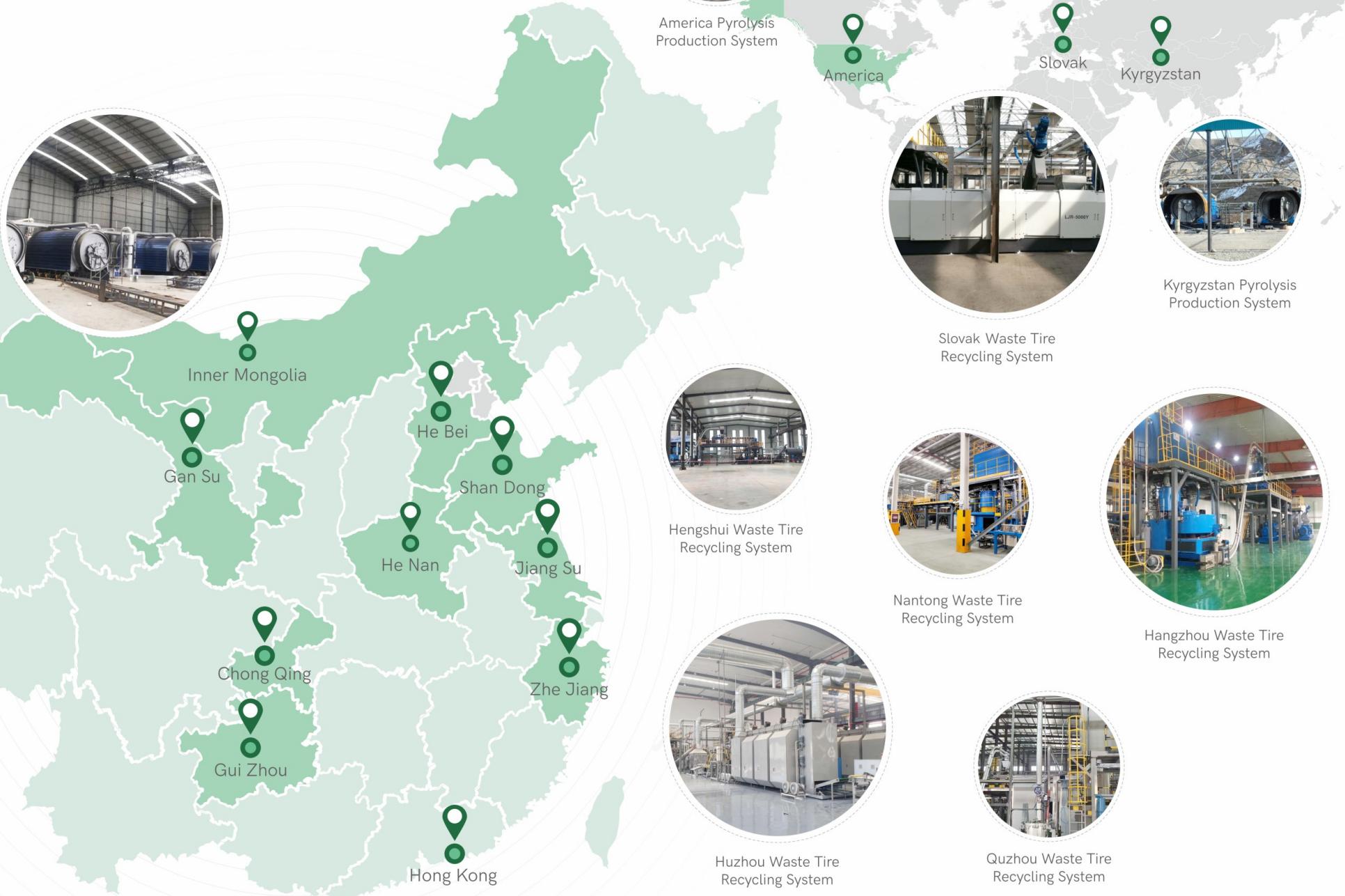
Yantai Waste Tire Recycling System



Anshun Waste Tire Recycling System

Henan Pyrolysis Production System

Qingdao Waste Tire Recycling System



America Pyrolysis Production System



America



Slovak Waste Tire Recycling System



Kyrgyzstan Pyrolysis Production System



Hengshui Waste Tire Recycling System



Nantong Waste Tire Recycling System



Hangzhou Waste Tire Recycling System



Huzhou Waste Tire Recycling System



Quzhou Waste Tire Recycling System



In no particular order