Green Gold Giant
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Process Flow of Core Products

Tire broken — Crushing waste TBR tires into 24 mesh rubber powder

Premix — Auto weigh and mixing system for raw materials

Desulfurization — First chemical step using twin screw extruders

Refining — Second mechanical step using twin screw extruders

Forming — Model process using single extruder

Cooling — Cooling process using water and air cooled conveyor system

Products in two different shapes

Piece Shaped

Block Shaped

Desulfurization of Waste Tire Rubber by Multi-stage Screw Extruders

Economic viability Take the processing of 20,000 tons of waste tires as an example

Tire broken

Waste TBR tires 20000 tons

Tire bead 3000 tons

Scrap steel wire 4000 tons

Tire powder 13000 tons

Additives 1750 tons

Desulfurization regeneration process (2 production lines)

Rubber powder above 60 mesh 2000 tons

Reclaimed rubber 12750 tons

*Aromatic oil, tall oil, pine tar, etc. can be used as additives

Equipment size reference

Tire broken
38m*34m*7.2m(L*W*H)
Reclaimed rubber production line (single)
65m*12m*7.2m(L*W*H)

Product Downstream Application

Tire
Reclaimed rubber can be used in tire sidewalls, treads, pads, etc.

Conveyor

Rubber products
Such as rubber sheets, waterstops, marine rubber guards, etc.

Livestock mat
Can be used on the floor of pig and cattle resting areas, passages and other areas in livestock farms

Sporting Goods
Reclaimed rubber can be used to produce various plastic tracks, sports toys, fitness equipment, water skiing suits, etc.

Rubber for shoes

Equipment Advantages

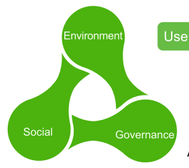
Environmental friendly
Exhaust gas emissions are better than Chinese and EU standards

Continuous and stable production
24-hour non-stop production, no batch differences when raw materials and processes are stable

Save labor and energy
Only 5 central control and inspection personnel are needed
Energy consumption per ton is less than 850 kWh

Data-based intelligentization
Remote monitoring, fault warning, no manual participation required in the production process

ESG

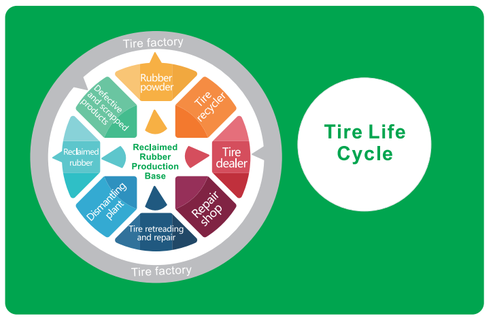


Use renewable resources

Reduce carbon emissions

Promote circular economy

Assist clients to achieve ESG goals



Market Outlook

Nearly 20 sets have been sold in the international community, including ZC Rubber, Guizhou Tire, Doublestar, Nanhui Rubber, Slovakia Resumo LLC. and other companies, with the longest stable operation for more than 6 years.

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Desulfurization of Waste Tire Rubber by Multi-stage Screw Extruders

http://ljr-greencarbon.com/

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Company Profile

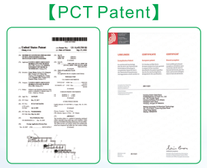
Nanjing Green Gold Giant Rubber & Plastic High-Tech Co., Ltd. is a solution provider specializing in green high-value recycling technology research and development, special equipment manufacturing and technical services for waste tires. It is based on the Beijing University of Chemical Technology. We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

The equipment launched by Green Gold Giant to the market can use waste tires as raw materials, C-S-C, C-S-S-C, or C-Sx-C bonds in the three-dimensional crosslinking network of waste rubber are cracked by physical or chemical methods, and waste rubber becomes re-processable. Enable high-value reuse of waste tires.

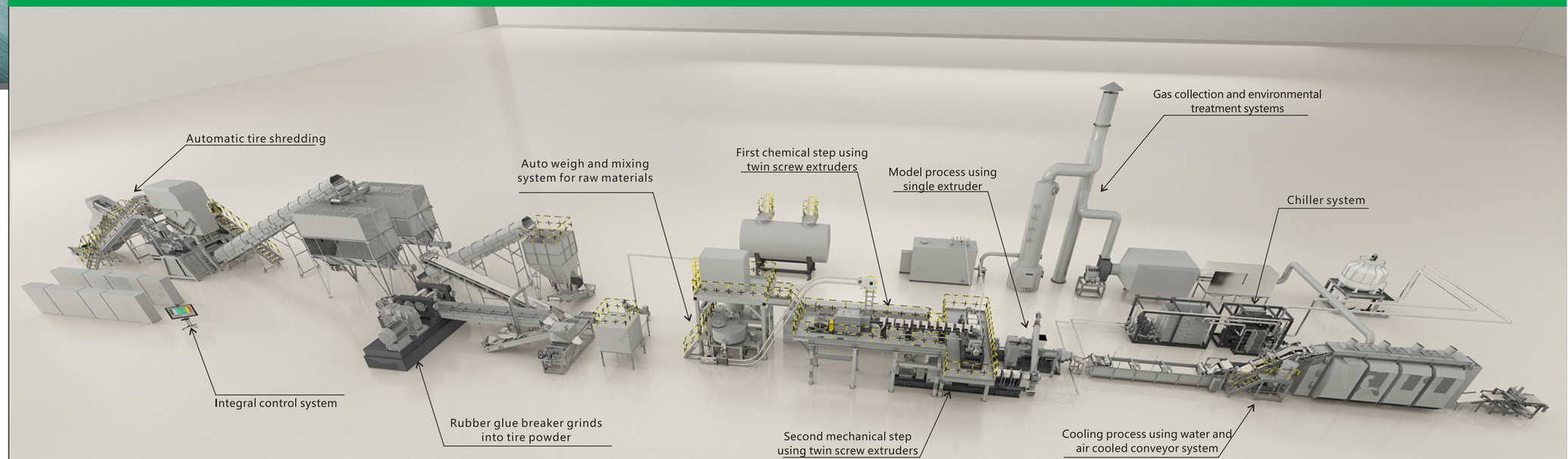
At present, the equipment has been promoted and used in Europe and Asia.

【Equipment Pictures】

【PCT Patent】

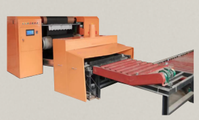


【CE Certificate】



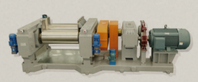
The following equipments can be add to production line according to usage needs

Automatic Palletizing Robot
Used for automatic handling of block shaped reclaimed rubber



Automatic Weighing Film Laminating Machine
Used in the production of block shaped reclaimed rubber

Filter Glue Extruder
Used when requiring high fineness reclaimed rubber



Refiner
Used when producing high strength (≧14MPa) reclaimed rubber

Selling Centre:
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