

SHARING THE GREEN TECHNOLOGY

Patents ZL 2020 1 1009400.0
ZL 2019 1 0087219.2
ZL 2019 2 0154889.7



Patented Products



International
Quality System
Certification



CE Certification



郑州洁普智能环保技术有限公司
ZHENGZHOU GEP ECOTECH CO., LTD

T:+86-371-56177311 F:+86-371-56177322

Email: sales@gepecotech.com

中文官网: www.gephb.com
英文官网: www.gepecotech.com

中国-郑州-高新区长椿路23号
No.23 Changchun Road, High-tech zone, Zhengzhou, China

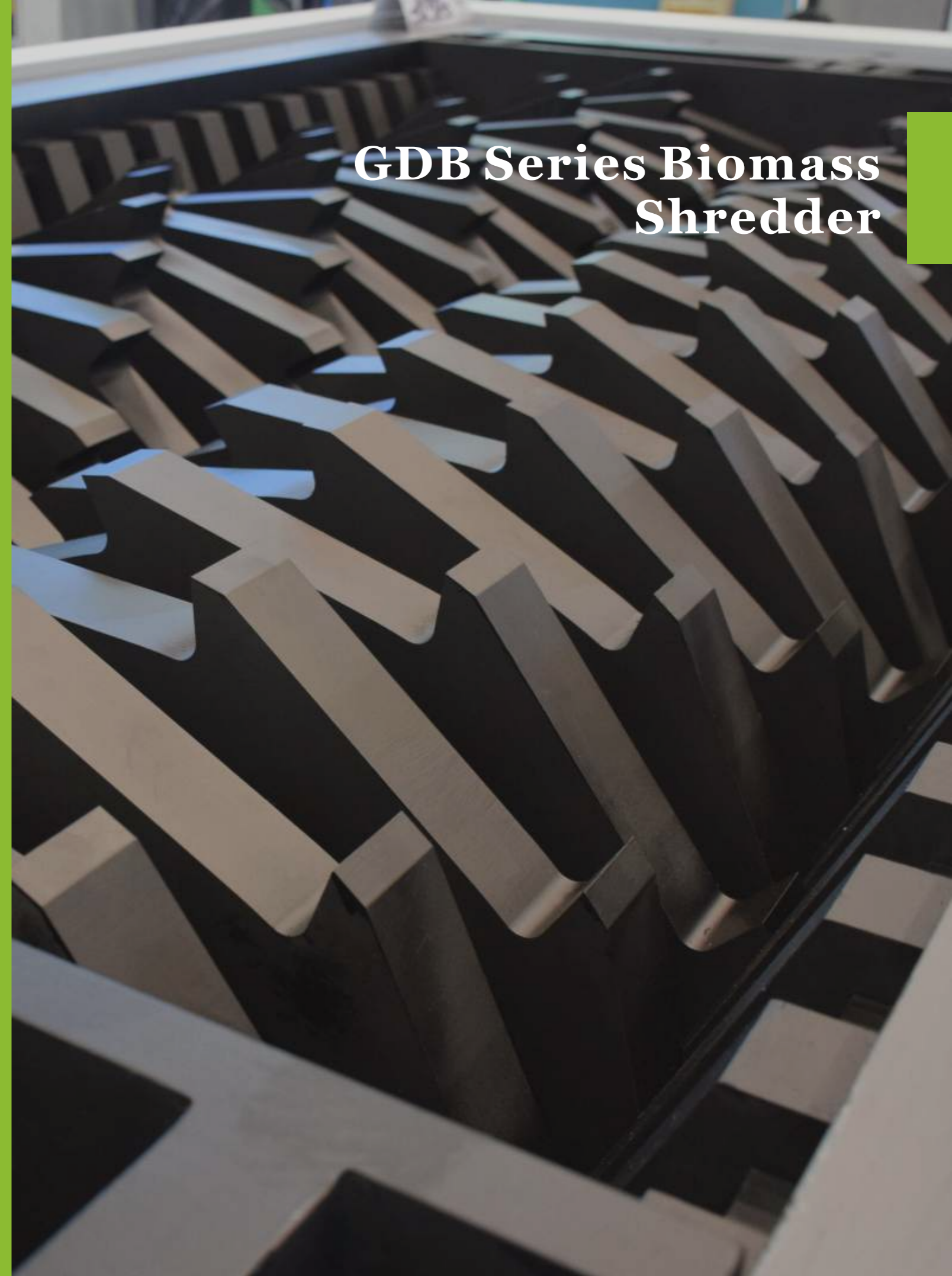
GDB Series Biomass Shredder



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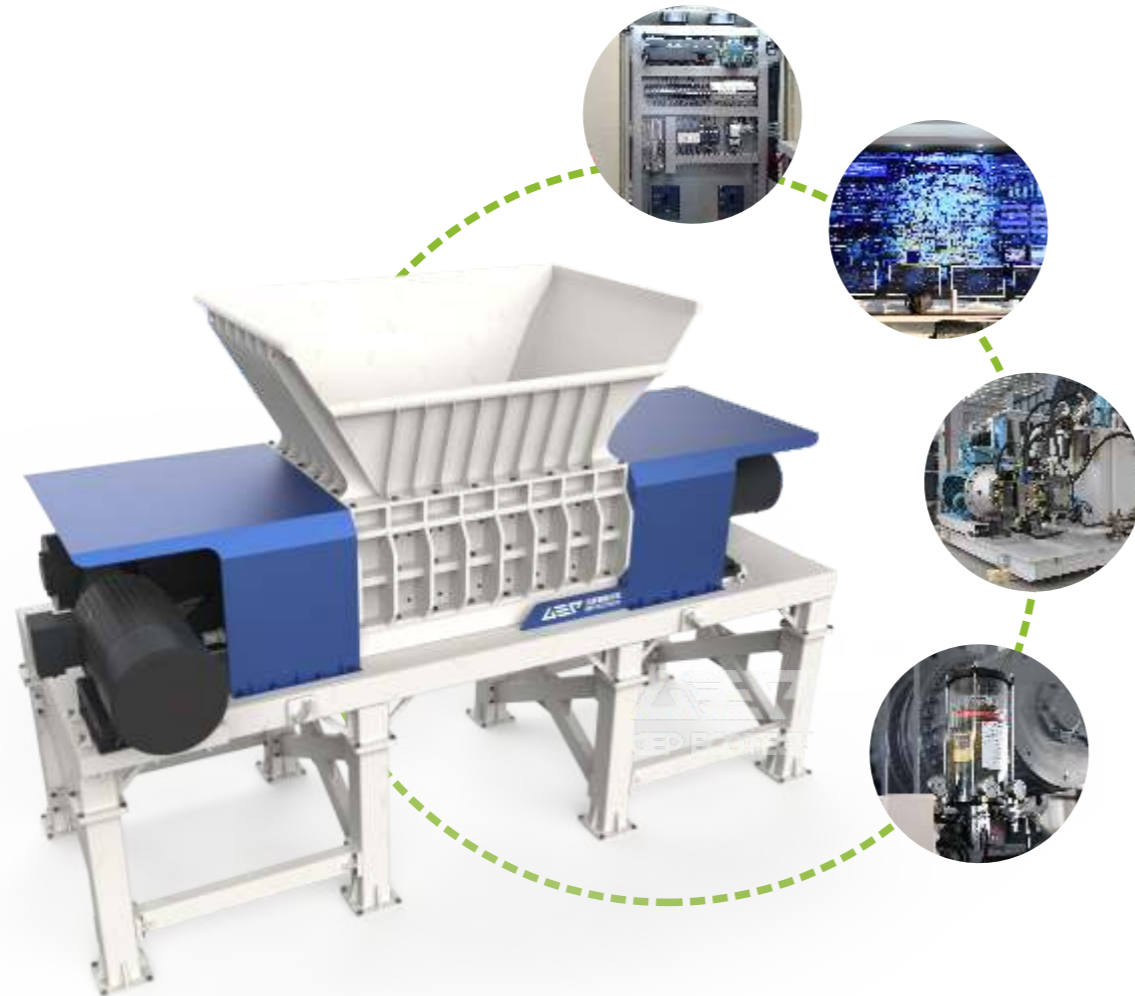
GDB Series Biomass Shredder

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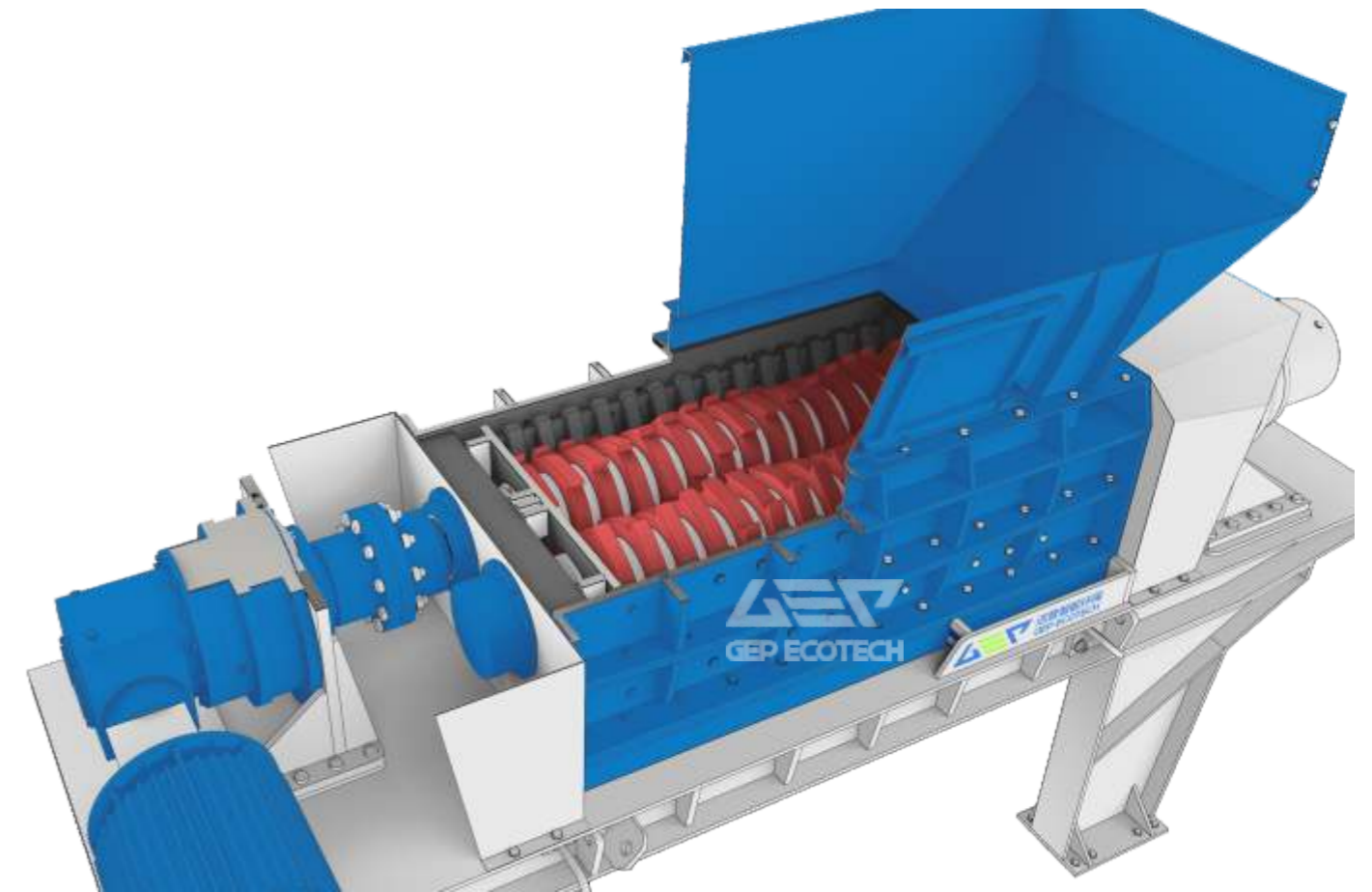
PRODUCT DESCRIPTION

Biomass power generation is the use of biomass for electricity generation, a renewable energy generation, which is divided into agricultural and forestry biomass power generation, waste incineration power generation and biogas power generation. Before the biomass can be turned into electricity, it needs to be shredded so that it can be fully burned for its effectiveness. However, the traditional biomass shredder has the defects of high dust, high noise, low output, high energy consumption, frequent maintenance and high failure rate. The GDB series of biomass shredders developed over the years have circumvented these shortcomings and are particularly outstanding in terms of long continuous and stable operation.



» Working principle

The motor drives the two cutter shafts to rotate the movable cutters and the spacer at low speed. The cutting edges of the adjacent cutter surfaces on the cutter shafts form shearing, the tips of the movable cutters form shear with the cylindrical surfaces of the spacer, and the torque and speed difference of the cutter shafts form tearing, thus achieving a shredding effect.



» Equipment composition

Main machine (including motor and reducer), feed hopper section, pusher section (optional), electrical control cabinet, automatic lubrication section, GI intelligent monitoring system (optional), intelligent dust reduction monitoring system (optional)

Product Highlights



01/

» Integral cutter chamber

- The integral shredding chamber is welded and annealed to ensure good mechanical strength; at the same time, the CNC machining centre ensures high machining accuracy and prolongs the service life of the equipment.
- The shredding chamber is divided into two bodies, easy to access, short maintenance time, to ensure the continuity of the equipment work.



02/

» High quality cutters and spindles

- The raw material of the cutter is made of imported alloy steel, which has a long service life and good interchangeability, making it easy to replace and maintain.
- The shaft is made of high-strength alloy steel, which has been heat-treated and machined with high precision for good mechanical strength, fatigue and impact resistance and long service life.



03/

» Anti-winding fixed cutter

- The unique anti-winding fixed cutter design effectively solves the problem of wrapping material entanglement and improves shredding efficiency.
- Each cutter can be dismantled and installed independently, allowing for quick dismantling in a short time, reducing worker workload and increasing production continuity.



05/

» Intelligent monitoring system

- GI intelligent monitoring system for real-time monitoring of operating conditions; fault warning alerts for long continuous working hours.
- Intelligent centralized control system with advanced human-machine interface, which saves time, energy and effort in on-site operation.



04/

» Large working area

- The large capacity working area is designed to cope with different forms of bales and different forms of loading, resulting in higher efficiency.
- The hydraulically assisted pusher device is tailored for large biomass bales, making operation and maintenance easier and increasing efficiency.



06/

» Automatic lubrication system

- Automatic bearing lubrication system ensures that the oil in the bearings is always sufficient, ensuring the continuous work of the equipment due to oil filling.
- International famous brand bearings quality assurance, high load resistance, can withstand long time continuous operation.





SHARING THE
| GREEN TECHNOLOGY |
共享绿色科技

Technical Parameters

| Model | Capacity(t/h) | Discharge size(mm) | Dimension(mm) |
|--------|---------------|--------------------|----------------|
| GDB115 | 10-25 | 50-200 | 6000×3300×4000 |
| GDB215 | 15-35 | 50-200 | 6500×3500×4300 |
| GDB315 | 30-50 | 50-200 | 6900×4000×4700 |
| GDB415 | 40-60 | 50-200 | 7000×4300×4800 |



NATIONAL PATENT



| | |
|--|--------------------------------|
| Double Shaft Shredder | Patent No.:ZL 2020 1 1009400.0 |
| A Material Pushing Device for Shredder and Shredder | Patent No.:ZL 2019 1 0087219.2 |
| Material Pushing Device for Shredder and Shredder | Patent No.:ZL 2019 2 0154889.7 |
| A Kind of Shredder Cutter Chamber with Split Fixed Cutter Structure | Patent No.:ZL 2019 2 0154368.1 |
| A Shredder Cutter Chamber with Fixed Cutter Structure | Patent No.:ZL 2019 2 0154367.7 |
| A Kind of Shredder Cutter Chamber and Cutter Chamber Assembly and Shredder | Patent No.:ZL 2017 2 1349588.7 |
| A Shredder Chamber and a Shredder Having Such a Chamber | Patent No.:ZL 2017 2 1351102.3 |

SOFTWARE COPYRIGHT



| | |
|--|------------------------------------|
| Crusher Operation Self-Diagnosis System | Registration number: 2019SR0071856 |
| Crusher Operation and Maintenance Monitoring System | Registration number: 2019SR0067379 |
| Crusher Intelligent Monitoring System | Registration number: 2019SR0072287 |
| Intelligent Monitoring System for Crushing Production Line | Registration number: 2019SR0053414 |
| Shredder Monitoring System | Registration number: 2019SR0071791 |
| Automatic Shredder Spindle Cooling Control System | Registration number: 2019SR0072440 |
| Self-diagnostic Analysis System for Shredders | Registration number: 2019SR0067377 |

**INTELLIGENT SOLID WASTE DISPOSAL SOLUTION
PROVIDER AND EQUIPMENT MANUFACTURER**

Model Projects

MODEL PROJECTS





DIGITAL GEP ECOTECH

2012

Founded in 2012, GEP Group has taken resource recycling as our mission and is committed to the research and development, production, sales and service of intelligent solid waste shredding equipment and its supplementary equipment, as well as providing professional and customized system solutions for solid waste disposal production lines. With more than ten years of experience, GEP has covered dozens of countries and regions around the world, and has become a major force in the solid waste field.

66000

Our company have an efficient intelligent equipment manufacturing base with a total area of 66,000 square meters, equipped with complete high-precision equipment processing systems such as CNC vertical machining centers, CNC gantry machining centers, CNC lathes, CNC grinders, CNC wire cutting, and an experienced professional technical team. It can achieve the efficient production demand of 400 sets of intelligent environmental protection equipment per year, ensuring timely delivery of various customer orders.

150+

Our company has been awarded National High-Tech Enterprise, Henan Solid Waste Resource Recycling Equipment Engineering Technology Research Center, Henan Province "Professionalization, Refinement, Specialization, Novelty" Small and Medium Enterprise, Henan Province Science and Technology Small and Medium Enterprise, Zhengzhou City Science and Technology Little Giant and other enterprise awards. It has obtained 128 national patents and 39 software copyrights, and has successfully passed the ISO "three systems" certification for quality management, environment management, and occupational health and safety management, as well as the Europe Union CE certification.

70+

Our company has made achievements in eight fields, namely, bulky waste recycling, biomass recycling, industrial waste recycling, construction and demolition waste recycling, waste tires recycling, hazardous waste recycling, food waste recycling and MSW recycling, winning the favor of more than 70 overseas clients and successfully helped customers achieve the recycling of solid waste, showcasing the intelligent manufacturing capability of Chinese environmental protection equipment manufacturing enterprise to the world.

WORRY-FREE SERVICE

Our commitment

The service we supply is more than the products you buy
When you buy a product, you are buying a service that covers the entire life cycle of the product.

30

A response to technical enquiries
within 30 minutes

24

Engineer dispatch
within 24 hours

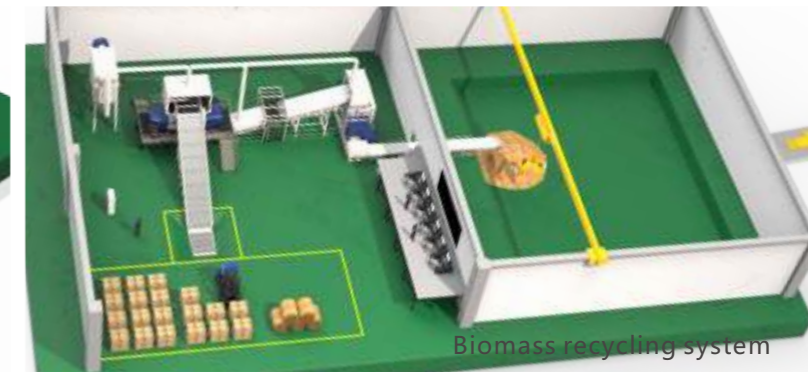
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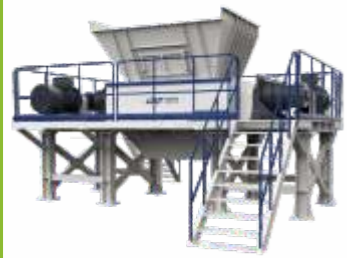
Free repair within 12 months
of delivery

365

365 days a year for
service requests

SERVICE SECTORS





Double-Shaft Bulky Waste Shredder



Double-Shaft Food Waste Shredder



Double-Shaft Industrial Waste Shredder



Double-Shaft Waste Tire Shredder



Pre-Shredder



Four-Shaft Shredder



Third Generation Europe Type Fine Shredder



Single Rotor Fine Shredder



Double-Shaft Biomass Shredder

PRODUCT FAMILY



Double Rotor Fine Shredder



Jaw Crusher



Impact Crusher



Cone Crusher



Vertical Shaft Impact Crusher



Mobile Crusher Plant



Mobile Shredder Plant



RDF Pelleting Mill



Wind Sifter