

SHARING THE GREEN TECHNOLOGY

Patents ZL 2020 1 1009400.0  
ZL 2022 2 0369576.5  
ZL 2022 3 0129242.6



Patented Products



International  
Quality System  
Certification



CE Certification



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# GDL Series Bulky Waste Shredder



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## GDL Series Bulky Waste Shredder

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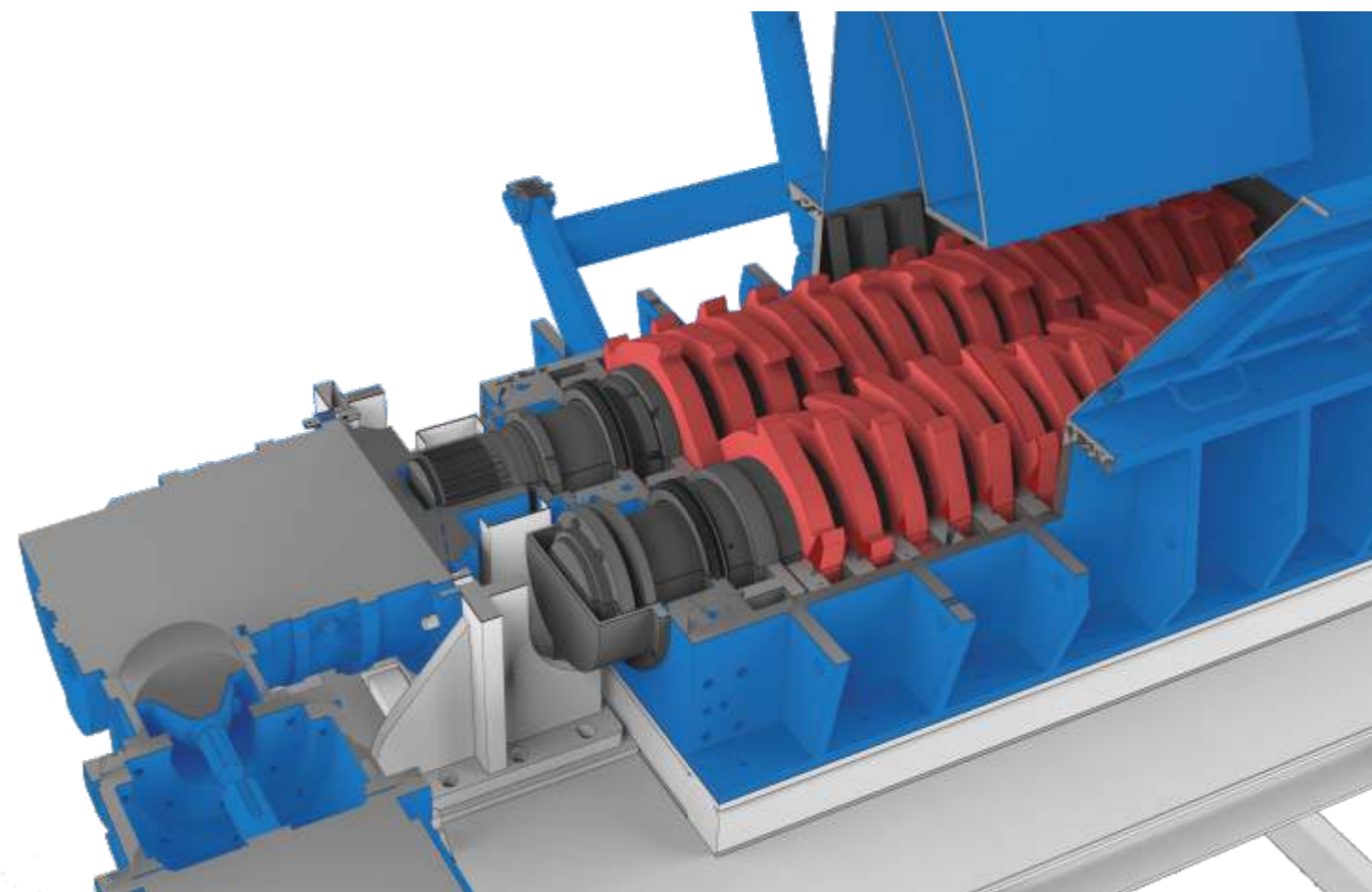
## PRODUCT DESCRIPTION

Bulky waste refers to waste furniture, waste household appliances and electronic products that weigh more than 5kg or have a volume of more than 0.2m<sup>3</sup> or a length of more than 1m, and are highly integrated and require separate collection and treatment. The large volume makes in-situ dismantling difficult, transfer difficult, landfills take up a lot of space, direct incineration is difficult to burn adequately, manual dismantling is inefficient and the operating environment is difficult to guarantee. Many of the above factors have accelerated the development of automated, intelligent and mechanized bulky waste shredding equipment. The GDL series of bulky waste shredders, with their low speed, high torque, large shear force and high throughput, have quickly taken over the bulky waste disposal market since their launch.



### » Working principle

The double shafts are equipped with staggered blades, and the double shafts realize the shredding of large materials through the cutting of the cutters and the tearing of the teeth in the process of rotating oppositely. The main shearing method is the shearing action of the adjacent moving cutters and the secondary shearing method is the tearing action of the moving cutter teeth.



### » Equipment composition

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

# Product Highlights



01/

## » High performance spindles and cutters

- The shafts and cutters are made of high-strength alloy steel and are refined through multiple processes for high wear resistance and long life.
- The shaft is linked with German standard splines for high transmission torque, high load capacity, high positioning accuracy and even force during connection.



02/

## » Anti-winding fixed cutter

- The anti-winding fixed cutter design can easily cope with the disposal of large pieces of flexible textile materials and improve the shredding efficiency.
- The fixed cutter is made of high-strength wear-resistant steel plate, which is resistant to wear and tear and has a long service life; single installation, group fixing, strong interchangeability and easy maintenance.



03/

### » Hydraulic pusher device

- The hydraulic auxiliary pusher device is tailored for large volume and bulky waste, making operation and maintenance more convenient and efficient.
- The press frequency and movement of the pusher can be adjusted according to the actual working conditions.



05/

### » Intelligent monitoring system

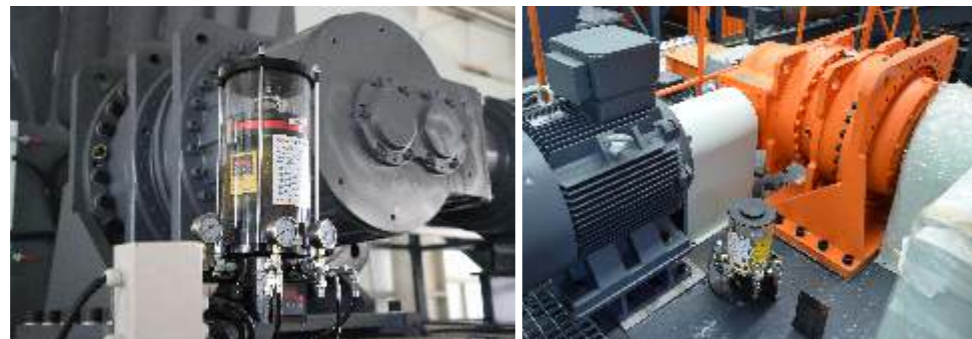
- The GI intelligent system provides real-time feedback on equipment operation data and automatic alarm shutdown for faults to avoid accidents.
- Intelligent centralized control system with advanced man-machine interface, on-site operation is more time-saving, energy-saving and mind-saving.



04/

### » Automatic lubrication system

- The automatic oil filling method (patented) can ensure that the oil in the bearings is always sufficient to avoid damage to the bearings and affect the normal operation of the equipment.
- Multi-combination seal protects the imported bearings from complex materials, waterproof, dustproof, dirt-proof and long service life.



06/

### » Motor and hydraulic drive dual options

- Option one: Double three-phase asynchronous motors + double planetary reducer drive, strong power, high torque and reliable operation.
- Option two: the whole set of hydraulic drive adopts closed system constant power asynchronous control, the drive source is a special hydraulic motor, the hydraulic system is equipped with imported hydraulic pumps and valve sets, the speed is adjustable and controllable, and can withstand heavy.





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# Technical Parameters

Model	Capacity(m³ /h)	Discharge size(mm)	Dimension(mm)
GDL450	10-20	100~300	4000×1750×3000
GDL550	15-30	100~300	5000×2650×3300
GDL750	20-40	100~300	5500×2750×3500
GDL950	30-50	100~300	5500×2850×3600
GDL1150	40-70	100~300	6000×3150×3800



## INTELLIGENT SOLID WASTE DISPOSAL SOLUTION PROVIDER AND EQUIPMENT MANUFACTURER

## NATIONAL PATENT



Double Shaft Shredder	Patent No.:ZL 2020 1 1009400.0
Material Retaining Structure of Bulky Waste Shredder	Patent No.:ZI 2022 2 0369576.5
Shredder(II)	Patent No.:ZL 2022 3 0129242.6
A kind of Shredder Cutter Chamber and Cutter Chamber Assembly and Shredder	Patent No.:ZL 2017 2 1349588.7
Cutter Assembly for Shredder and Axial Top Pressure Structure	Patent No.:ZL 2019 2 0454810.2
A Shredder Chamber and a Shredder with Such a Chamber	Patent No.:ZL 2017 2 1351102.3

## SOFTWARE COPYRIGHT



Large Waste Shredding and Production Line Control System	Registration number: 2019SR0072377
Intelligent Dust Reduction System for Waste Shredding	Registration number: 2019SR0053423
Crusher Operation Self-Diagnosis System	Registration number: 2019SR0071856
Crusher Operation and Maintenance Monitoring System	Registration number: 2019SR0067379
Crusher Intelligent Monitoring System	Registration number: 2019SR0072287
Shredder Monitoring System	Registration number: 2019SR0071791
Automatic Shredder Spindle Cooling Control System	Registration number: 2019SR0072440
Shredder Self-Diagnostic Analysis System	Registration number: 2019SR0067377

# 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

12

Free repair within 12 months  
 of delivery

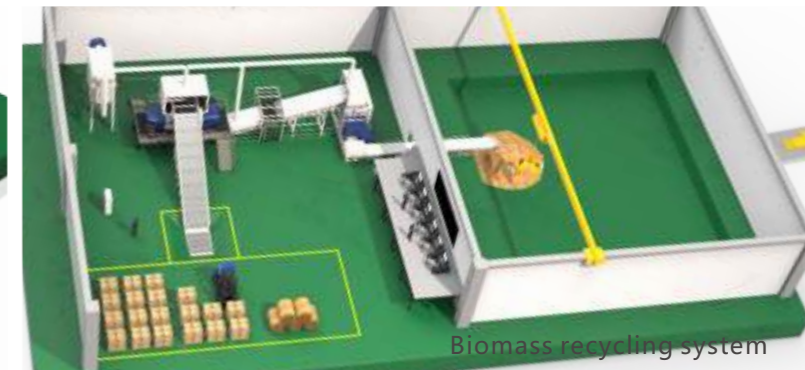
365

365 days a year for  
 service requests

## SERVICE SECTORS



Bulky waste recycling system



Biomass recycling system



Industrial waste recycling system



Construction and demolition waste recycling system



Waste tire recycling system



Tower-type hazardous waste recycling system



Food waste recycling system



Domestic waste recycling system



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 Pelletizing Mill



Wind Sifter