

SHARING THE GREEN TECHNOLOGY

Patents ZL 2019 2 0154367.7
ZL 2017 2 1351102.3
ZL 2017 2 1349588.7



Patented Products



International
Quality System
Certification



CE certification



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GDL Series Bulky Waste Shredder

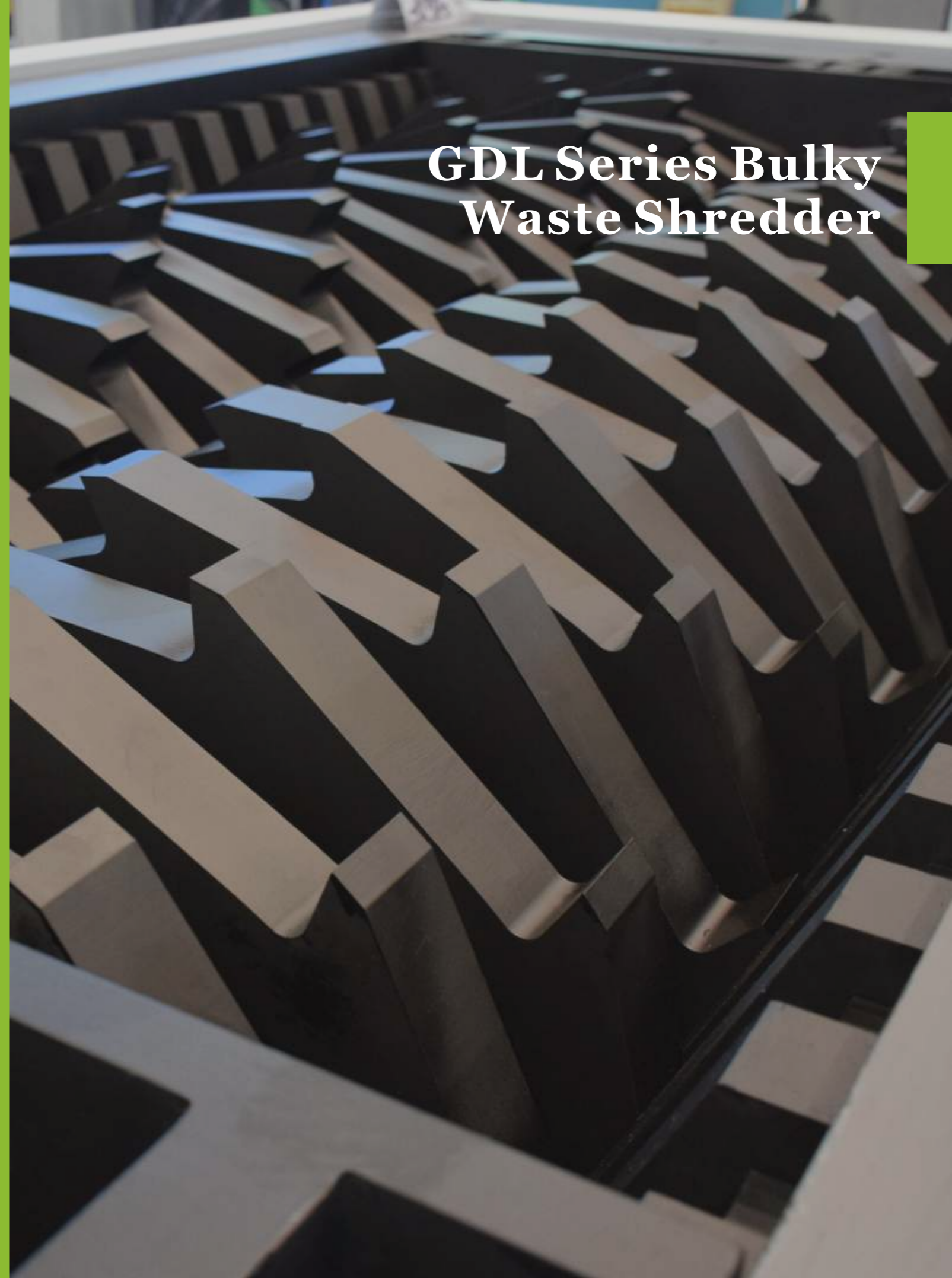


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R & D BACKGROUND

Bulky waste refers to waste furniture, waste household appliances and electronic products that weigh more than 5kg or have a volume of more than 0.2m³ 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.

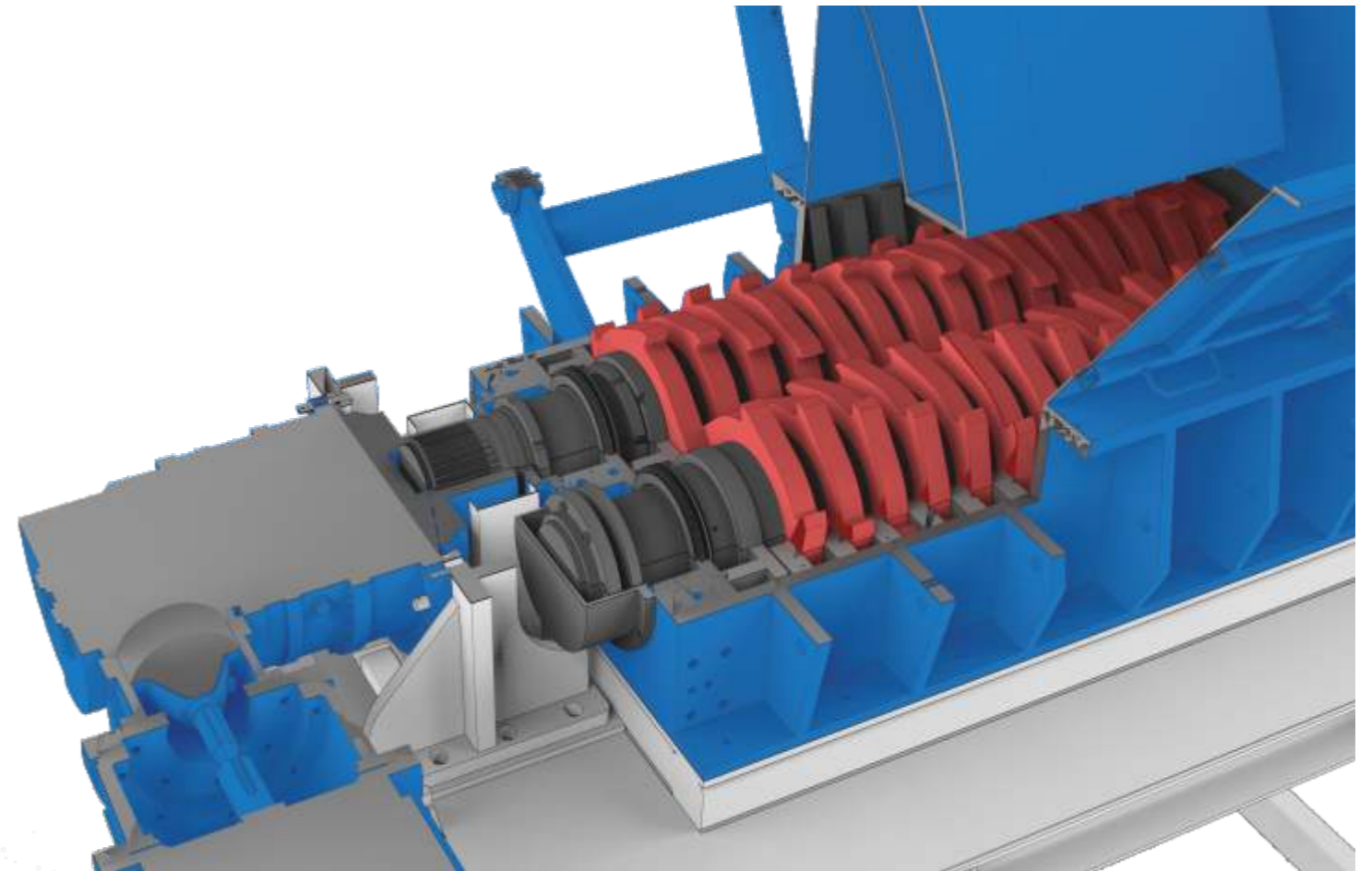


» Equipment composition

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)

» 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.



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.





Technical Parameters

Model	Capacity(t/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

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NATIONAL PATENT



Shredder and its chamber	Patent No.:ZL 2017 2 1351290.X
A kind of shredder cutter chamber with a split fixed knife structure	Patent No.:ZL 2019 2 0154368.1
A kind of shredder cutter chamber with fixed knife 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
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

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

Model Projects

MODEL PROJECTS





Equipment manufacturing base



DIGITAL GEP ECOTECH



2007

Founded in 2007, 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 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.



35000

Located in the Yuan Yang County Industrial Cluster, the high-efficiency intelligent environmental protection equipment manufacturing base has a total investment of 500 million yuan, covering a total area of 100 mu, with a total construction area of 35,000 square meters, an annual output of 400 sets of high-efficiency intelligent environmental protection equipment, and an annual output value of more than 500 million. With CNC wire-cut machine tools, CNC lathes, vertical machining centres, CNC gantry machining centres and more than 100 sets of precision processing equipment.



100+

The company has now been awarded as a high-tech enterprise, AAA grade credit rating enterprise, provincial and municipal solid waste resource recycling equipment engineering technology research centre and other corporate awards, has obtained 75 national patents and 15 software copyrights, and has successfully passed the ISO three system certification (quality, environment and occupational health) and the CE certification.



8

GEP ECOTECH is deeply committed to the 8 major fields of bulky waste disposal, biomass fuel pre-shredding, food waste comprehensive disposal, industrial waste comprehensive disposal, waste tire recycling disposal, hazardous waste shredding, domestic waste shredding and sorting, construction & decoration waste disposal, with rich experience, excellent equipment and services.



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

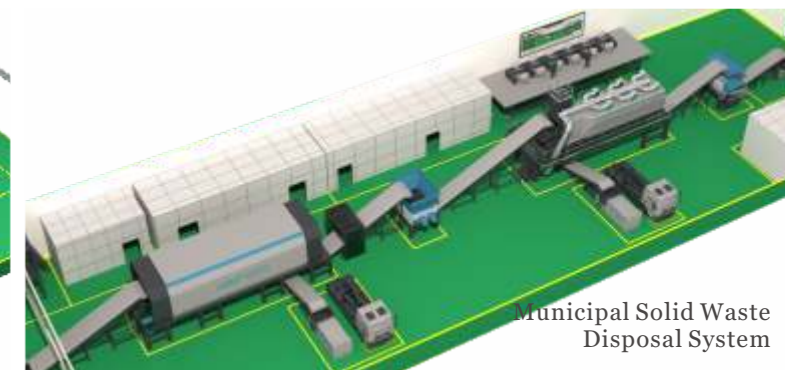
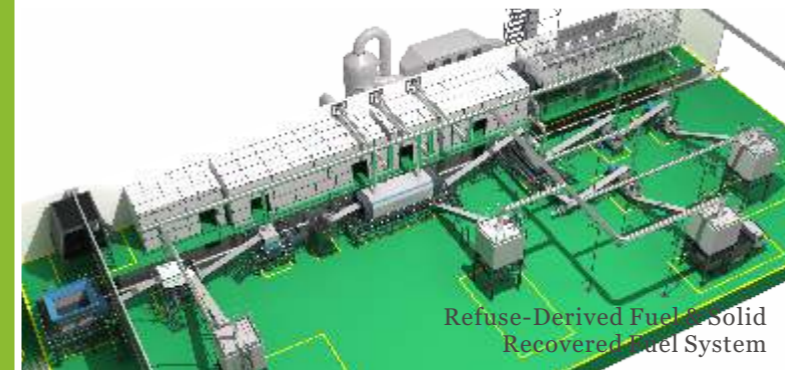
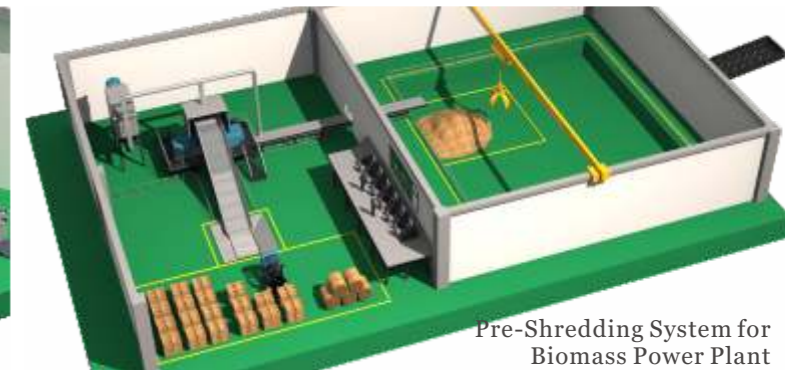
12

Free repair within 12 months
of delivery

365

365 days a year for
service requests

SERVICE SECTORS





GDL Bulky Waste Shredder



GDF Food Waste Shredder



GDI Industrial Waste Shredder



GDT Tyre Shredder



GC Pre-shredder



GF Four Shaft Shredder



GSX Flat Push Single Shaft Fine Shredder



GSS European Single Shaft Fine Shredder



GDB Biomass Shredder

INTELLIGENT SOLID WASTE DISPOSAL SOLUTION
PROVIDER AND EQUIPMENT MANUFACTURER



GSD Double Shaft Fine Shredder



GEC Jaw Crusher



GEF Impact Crusher



GEV Vertical Shaft Impact Crusher



GPW Tyre Solid Waste Mobile Shredding Plant



GPC Crawler Solid Waste Mobile Shredding Plant



Flip-flow Screen Gesc Series



Rotary Drum Screen Gts Series



Wind Sifter Gfx Series