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# **GDB Series Biomass Shredder**

ZL 2019 2 0154367.7 Patents ZL 2019 2 0154889.7 ZL 2017 2 1349588.7







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# GDB Series Biomass Shredder



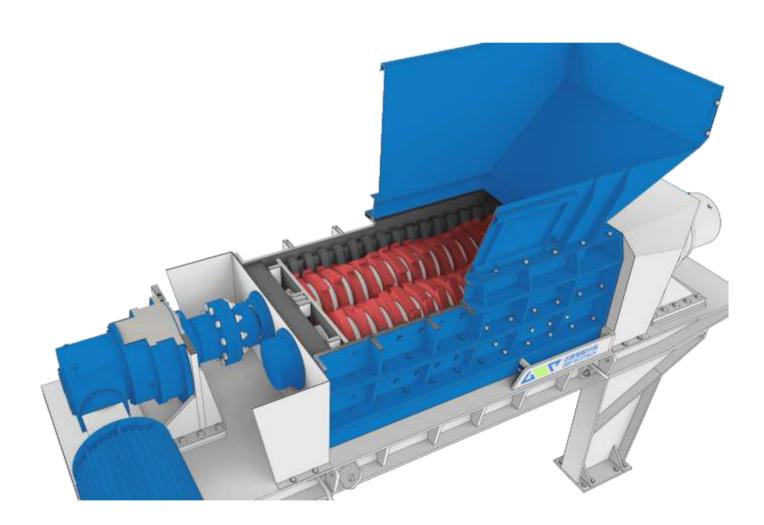
共享绿色科技 GEP ECOTECH CO.,LTD

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





### >> Integral cutter chamber



### >>>>> High quality cutters and spindles

- resistance and long service life.



• 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.

• 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





### >> 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.



### >> Intelligent monitoring system

- which saves time, energy and effort in on-site operation.





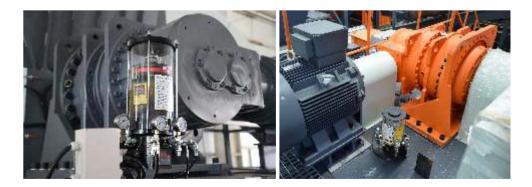
### >>> Large working area

- 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.



### >> Automatic lubrication system

- withstand long time continuous operation.



· 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,

• 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



# 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

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

## **NATIONAL PATENT**



Shredding machine and its chamber

- pusher device for shredder and shredder Cutter assembly and shaft top pressure structure for shredder
- A kind of shredder cutter chamber with split fixed cutter structure
- A shredder cutter chamber with fixed cutter structure
- A kind of shredder cutter chamber and cutter chamber assembly and
- A shredder chamber and a shredder having such a chamber

## **SOFTWARE COPYRIGHT**



Crusher Operation Self-Diagnosis System Crusher Operation and Maintenance Monitoring System Crusher Intelligent Monitoring System Intelligent Monitoring System for Crushing Production Line Shredder Monitoring System Automatic Shredder Spindle Cooling Control System Self-diagnostic analysis system for shredders

# 09/10

	Patent No.:ZL 2017 2 1351290.X
	Patent No.:ZL 2019 2 0154889.7
	Patent No.:ZL 2019 2 0454810.2
	Patent No.:ZL 2019 2 0154368.1
	Patent No.:ZL 2019 2 0154367.7
shredder	Patent No.:ZL 2017 2 1349588.7
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Registration number: 2019SR0067377













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# 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.



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.





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.



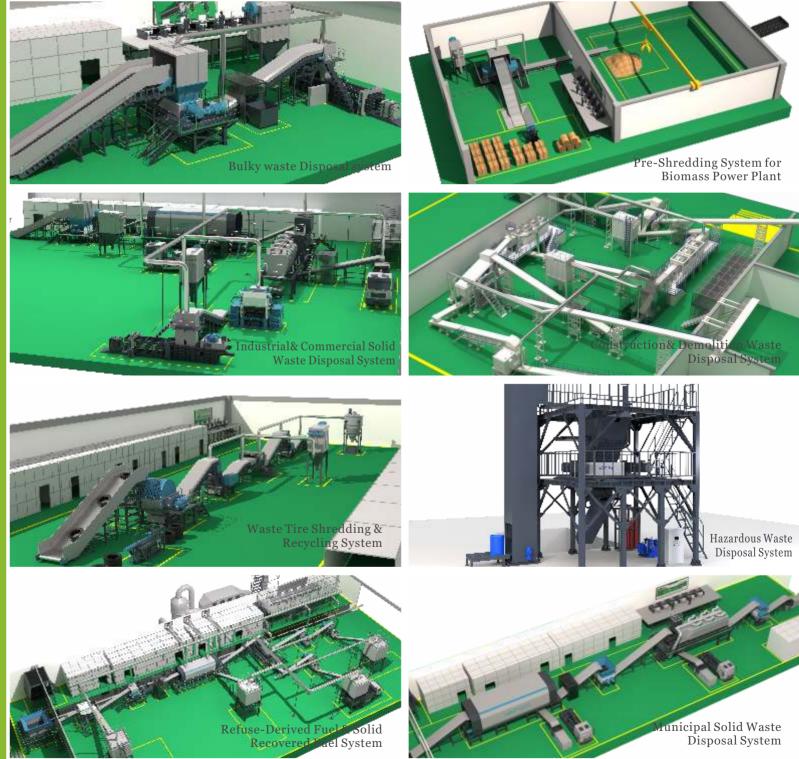
GEP ECOTECH is deeply committed to the 8 major fields of bulky waste disposal, biomass fuel pre-shredding, food waste comprehensive disposal, industrial waste comprehensive disposal, waste tire recycling disposal, hazardous waste shredding, domestic waste shredding and sorting, construction & decoration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

## **WORRY-FREE SERVICE Our commitment**

The service we supply is more than the products you buy



### **SERVICE SECTORS**



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GDL Bulky Waste Shredder

GDF Food Waste Shredder

GDI Industrial Waste Shredder

GDT Tyre Shredder



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

GDB Biomass 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





