

SHARING THE GREEN TECHNOLOGY

National Patents: ZL 2020 1 1009400.0
ZL 2019 1 0272564.3
ZL 2017 2 1351102.3



Patented Products



International
Quality System
Certification



CE Certification



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GD Series Double Shaft Shredder



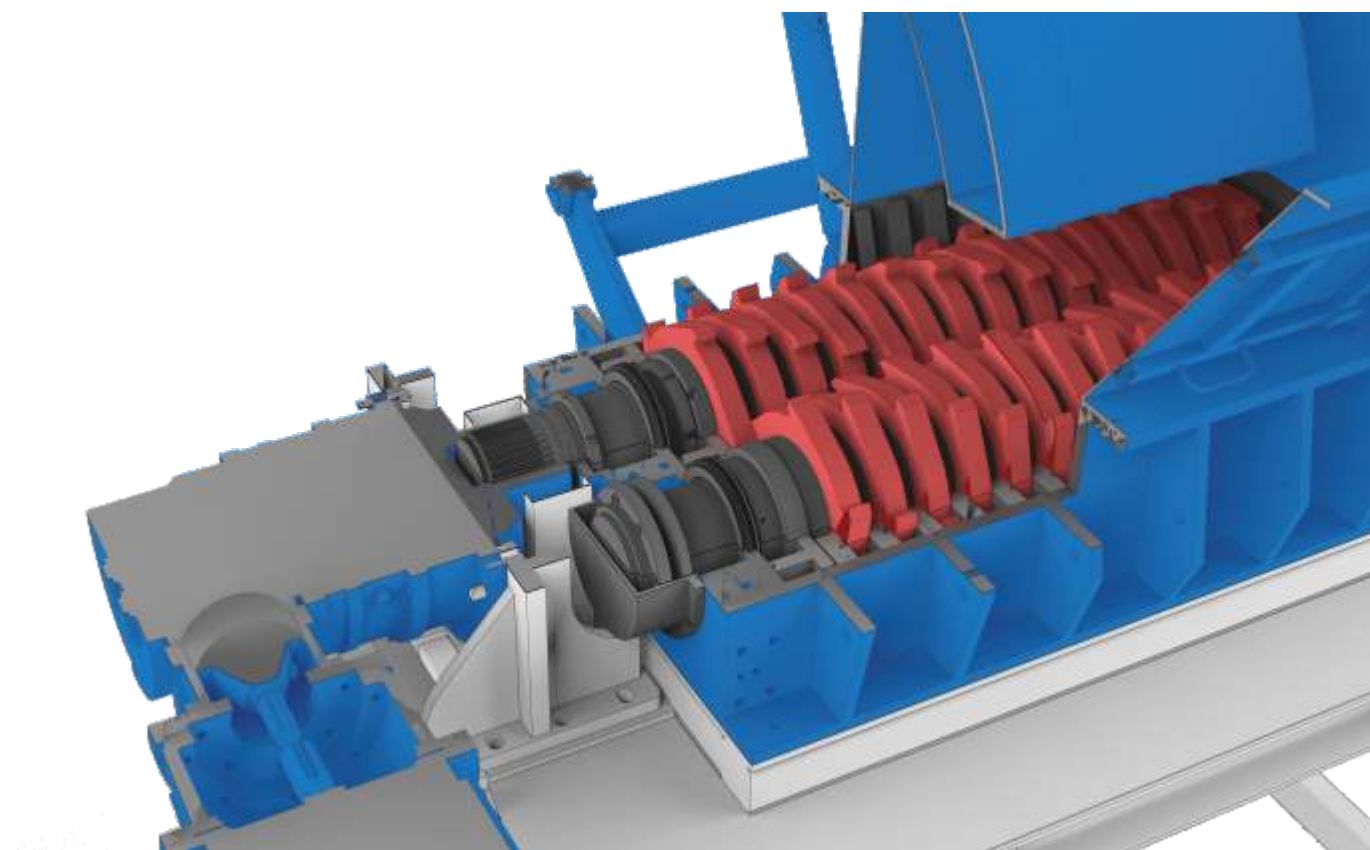
PRODUCT DESCRIPTION

Environment is the basic condition for human survival and development. Facing the expansion of city scale, population surge and rapid development of industry, solid waste emission is also increasing day by day, therefore, municipal solid waste treatment has become one of the hot issues of public concern. In order to overcome the hardness of concrete, bricks, asphalt blocks and other solid waste, people invented the crusher, but it is inefficient and ineffective in dealing with the toughness and ductility of waste plastics, broken glass, waste paper and waste fabrics. So GEP's R&D staff developed a twin-shaft shear shredder that is easy to crush tough solid waste, and according to market and customer demand, five special models were launched for different material characteristics: twin-shaft bulky waste shredder, twin-shaft food waste shredder, twin-shaft industrial waste shredder, twin-shaft tire shredder and twin-shaft biomass shredder.



» Working principle

Double shaft shredder adopts motor + planetary reducer (also can choose stepless speed hydraulic motor drive) to drive two knife shaft rotation, through the blade shear, extrusion, tearing and other effects to reduce the size of the material. The distance between the cutter teeth on the blade determines the length of the shredded material, and the thickness of the blade determines the width of the shredded material.



» Equipment composition

Main machine (including drive part), frame platform, feed hopper part, presser part (optional), electrical control cabinet, automatic lubrication part, GI intelligent monitoring system (optional), intelligent dust reduction system (optional)

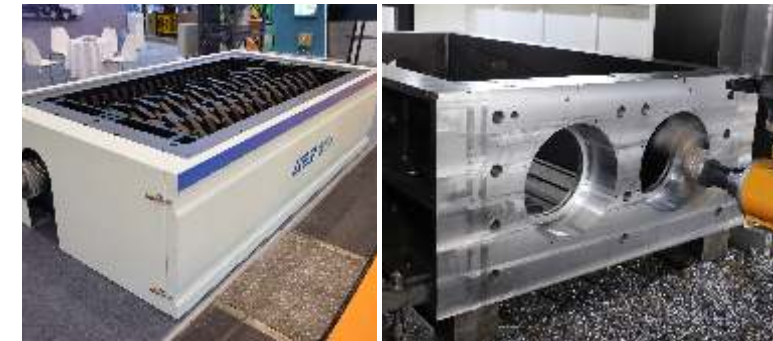
Product Highlights



01/

» Integrated shredding chamber

- Integrated shredding chamber design, integrated processing, high mechanical strength, high stability and reliability; shredding chamber is divided into two bodies, easy to repair and maintenance, shorten the downtime.
- The overall annealing treatment eliminates the prestress caused by welding, is not easy to be deformed after long-term use, has better overall performance and longer service life.



02/

» Imported alloy tools

- The cutters are made of imported alloy steel material with high wear resistance and moderate toughness. They are processed by high-precision machine tools. The mechanical properties are significantly improved and the service life is greatly extended.
- The tool can be repaired by multiple overlays, saving the cost of use and extending the service life.



03/

» GI intelligent monitoring system

- It has a "smart brain"-GI intelligent monitoring system, with multiple functions such as information transmission, report summary, data analysis, real-time monitoring, abnormal alarms, etc., to help scientific decision-making management, more optimized resource allocation, and high growth in comprehensive income.
- Equipped with PLC touch screen, visualized operation, and remote monitoring by mobile APP.



05/

» Dual drive option available

- Dual three-phase asynchronous motor + dual planetary reducer drive and hydraulic motor drive are available.
- Motor + reducer, connected by German standard spline, transmitting torque smoothly, high precision, good guiding, giving strong power to the equipment; hydraulic drive, stepless variable speed, strong adaptability to materials.



04/

» Centralized intelligent lubrication system

- The centralized intelligent lubrication system ensures that the bearings are always filled with oil to avoid damage to the bearings, which can affect the operation of the equipment.
- Multi-combination seal protects imported bearings from complex materials, with good waterproof, dustproof and anti-fouling effect and long service life.



06/

» National patent certification

- From the shredding chamber to the cutters, from the pressure material device to the lubrication system and intelligent system, all have national patent certification (Patent No.: ZL 2017 2 1351102.3, ZL 2017 2 1351290.X, ZL 2019 2 0154368.1 etc.)
- Products continue to innovate and upgrade, only for better user experience and higher use value.





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Technical Parameters

Model	Power (kW)	Weight (t)	Dimension (mm)
GD3	11	0.8	1600×800×1500
GD5	22	1.85	2400×900×1420
GD6	2×37	8.6	4000×2268×2685
GD8	2×45	11.5	4300×2304×3050
GD9	2×75	15.8	5100×2684×3120
GD10	2×90	18.5	5800×2784×3260
GD12	2×132	23.5	6250×3350×4125
GD13	2×132	27	6350×3490×4225
GD15	2×200	40	6650×3650×4375



INTELLIGENT SOLID WASTE DISPOSAL SOLUTION PROVIDER AND EQUIPMENT MANUFACTURER

NATIONAL PATENT



Double Shaft Shredder	Patent No.:ZL 2020 1 1009400.0
Cutter Assembly and Axial Top Pressure Junction for Shredder	Patent No.:ZL 2019 2 0454810.2
A Kind of Cutter Assembly and Axial Top Pressure Structure for Shredder	Patent No.:ZL 2019 1 0272564.3
A Kind of Split-type Fixed Cutters Structure for Shredder Cutting Chamber	Patent No.:ZL 2019 2 0154368.1
A Kind of Shredder Shredding Chamber with Fixed Cutter Structure	Patent No.:ZL 2019 2 0154367.7
A Kind of Shredder Shredding Chamber and Shredding Chamber Assembly and Shredder	Patent No.:ZL 2017 2 1349588.7

SOFTWARE COPYRIGHT



Shredder Monitoring System	Registration number: 2019SR0071791
Shredder Spindle Automatic Cooling Control System	Registration number: 2019SR0072440
Shredder Self-diagnostic Analysis System	Registration number: 2019SR0067377
Crusher Operation Self-diagnostic System	Registration number: 2019SR0071856
Crusher Operation and Maintenance Monitoring System	Registration number: 2019SR0067379
Crusher Intelligent Monitoring System	Registration number: 2019SR0072287
Intelligent Monitoring System for Garbage Crushing Production Line	Registration number: 2019SR0072410

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.

