

GIGAPA

Waste Resource Recovery Solution Providers
Equipment Suppliers
Hydraulic cylinders, hydraulic power units
professional custom production manufacturers

GIGAPA



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南通吉帕科技有限公司

NANTONG GIGAPA TECHNOLOGY CO.,LTD

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COMPANY PROFILE

公司简介



NANTONG GIGAPA TECHNOLOGY CO.,LTD

GIGAPA

Specializing in the mechanical field, our company is primarily engaged in the R&D, production, and sales of hydraulic equipment, environmental protection equipment, renewable resource processing equipment, solid waste recycling equipment, custom hydraulic cylinders, and custom hydraulic power units. With over a decade of experience in R&D and manufacturing in related fields, our team is deeply rooted in Rugao, Jiangsu—a renowned "Longevity Town" in China. Our R&D and sales offices are located in the Rugao Smart Valley Science and Innovation Park, while our production facility is situated in Baipu Town, a hub of strong industrial manufacturing.

Drawing on more than ten years of communication and collaboration with numerous clients, we deeply understand their concerns and challenges when purchasing and operating equipment. Our mission is to address market gaps, simplify equipment selection, optimize usability, reduce operational burdens for enterprises, and alleviate the heavy workload for workers.

Driven by the pursuit of corporate social value and customer trust, we uphold the mission of "solving customer pain points and realizing their aspirations," striving to become a company renowned for integrity and responsibility. To achieve this, every member of GIPA is committed to embracing our core values: "Act with integrity, reliability, and accountability to create value for customers; Collaborate as a team, strive with dedication, and build a brighter future for ourselves."

Single Shaft Shredder



Equipment Introduction:

The motor drives a medium-ratio gear reducer through V-belts, which then rotates the cutter shaft. The rotating blades on the shaft tear materials and create shearing action against stationary blades. The shredded material is carried into the chamber - when particle size becomes smaller than the screen mesh, it falls through; otherwise, it gets recirculated for further shredding. The unique shredding mechanism enables the single shaft shredder to process large lump materials and even compressed material bales. Operating at medium-low speed provides high torque and efficiency. The equipped screen mesh effectively controls output particle size. These advantages give it wide applicability, making it a frequent choice in various solid waste recycling projects.

Application Range:

Plastic	plastic sheets, pipes, films, pallets, household appliance shells, beverage bottles, woven bags, and other plastic products.
Wood	waste wood, wood scraps, wooden molds, wooden pallets, wooden doors, wooden tables and chairs, etc.
Paper	office paper, wrapping paper, cardboard, books, paper trays, etc.
Fabric and leather	leather scraps, synthetic fiber cloth, cotton cloth, textile materials, carpets, clothes, curtains, etc.
Metals	aluminum scraps, aluminum cans, aluminum profiles, etc.
Others	colored steel tiles, sponge, foam, latex, fakes, substandard goods, expired items, etc.

Model parameters:

Model	GSS-F206	GSS-F308	GSS-F310	GSS-F312	GSS-F314	GSS-F415
Crushing chamber size(mm)	500×570	815×770	815×970	815×1170	815×1370	1100×1470
Swing diameter(mm)	φ224	φ392	φ392	φ392	φ392	φ480
Mesh aperture(mm)	φ40	φ40	φ40	φ40	φ40	φ40
Motor power(kW)	18.5	37	45	55	75	110
Dimensions(L×W×H)(mm)	1880×1300×1730	2810×1770×2120	2810×1970×2120	2810×2490×2120	2810×2710×2120	3700×2840×2530
Overall weight(kg)	Approx 1600	Approx 4000	Approx 4300	Approx 5300	Approx 5900	Approx 11400

The above models are standard universal models. If you require other models, please contact our staff, and we can also provide customized services according to your needs.

Technical Highlights:

01

High cost-effectiveness

High hardness, wear-resistant, can be reused multiple times by replacing the angle

02

Good stability

Unique liquid and debris channels, protecting the hydraulic system from interference

03

High safety

Fixed knives can not only be adjusted but also locked, effectively preventing collision with knives

Effect comparison:

BeforeAfter

BeforeAfter

BeforeAfter

BeforeAfter

胶头料 Plastic Lump

木材 Wood

木托盘 Wooden pallets

秸秆 Straw Bales

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Twin-Shaft Shredder



Equipment Introduction:

The twin-shaft shredder cuts and tears materials into smaller sizes through the shearing and tearing action of the blades during their relative rotation, which facilitates subsequent processing or achieves the purpose of volume reduction. Thanks to its structural form and low-speed rotation, the twin-shaft shredder is characterized by high torque, strong shearing force, high processing capacity, good stability, and low noise. Therefore, it is widely used in the field of solid waste treatment and can meet the recycling and reuse processing needs of various types of solid waste.

Application Range:

Industrial waste	tires, ceramic or glass products, leather and textile scraps, defective plastic products, defective electronic products, waste wood, waste paper, waste slag, waste materials, and waste packaging, etc., non-metallic waste.
Domestic waste	large items such as computers, refrigerators, washing machines, sofas, mattresses; disposable food containers, chopsticks, waste paper, plastic, and other metal or non-metallic waste.
Bulk waste	disposable food containers, chopsticks, beverage bottles, waste paper, plastics, and other metallic or non-metallic waste materials.
Agricultural waste	straw, tree branches, bamboo, animal carcasses, plastic mulch, etc.
Construction waste	construction wood forms, old doors and windows, gypsum boards, drop ceilings, color steel tiles, etc.
Medical waste	syringe waste, pharmaceutical waste, small medical equipment, used masks, surgical gowns, bed linen, and other medical waste.


Model parameters:

Model	GTS-E103	GTS-E205	GTS-E208	GTS-E210	GTS-E310	GTS-E312
Crushing chamber size(mm)	300×300	520×500	810×500	980×516	1010×730	1170×730
Swing diameter(mm)	φ170	φ278	φ278	φ288	φ400	φ400
Blade thickness(mm)	20	30	30	30	40	40
Motor power(kW)	7.5	22	30	22×2	55×2	90×2
Dimensions(L×W×H)(mm)	1680×700×1790	2280×1540×2000	2580×1590×2000	3180×1820×2000	3760×2510×2910	4250×2910×2910
Overall weight(kg)	Approx 800	Approx 2300	Approx 2700	Approx 3300	Approx 10000	Approx 11800


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Technical Highlights:


01

 **Bearing life is long**
Multiple protective measures are taken to extend the service life of the bearings

02

 **Low crushing resistance**
Different blade profile designs are selected according to the requirements of the crushed materials to minimize crushing resistance as much as possible.

03

 **High crushing efficiency**
The specially designed fixed knife not only serves as a material rejection function but also forms additional shearing with the moving knife, enhancing the overall crushing efficiency.

Effect comparison:

▲ 医疗垃圾 Medical waste

▲ 轮胎 Tires

▲ 电子垃圾 E-waste

▲ 油桶 Oil drum

Single-Shaft Crusher



Equipment Introduction:

The high-speed rotating blades of the single-shaft crusher continuously cut against the stationary blades until the material size is reduced enough to pass through the smaller aperture of the screen mesh. Due to its high rotational speed and small screen mesh size, it is typically used as a secondary crushing method. The smaller and uniform granules are beneficial for the operation of subsequent equipment such as granulators. The use of an air discharge device can effectively solve the problem of large space occupied by conveyors, and the final discharge position is more flexible. Because of these advantages, the single-shaft crusher is widely used in the recycling industry of resources that require high particle quality.

Application Range:

Plastics	injection molding, extrusion, blow molding, and other general plastics; traffic cones, small appliance shells, beverage bottles, woven bags, and other plastic products.
Wood	waste wood, wood scraps, wood molds, wood pallets, wood doors, wood tables and chairs, etc.
Rubber	tire rubber, recycled rubber, sealing strips, etc.
Paper	document paper, wrapping paper, cardboard, books, etc.
Fabric and leather	leather scraps, synthetic fabrics, carpets, clothing, curtains, etc.
Others	circuit boards, wires, cables, sponge, foam, latex, fiberglass, etc.

Model parameters:

Model	GSG-M306	GSG-M308	GSG-M408	GSG-M508	GSG-M512	GSG-M612
Swing diameter(mm)	φ320	φ320	φ420	φ520	φ520	φ660
Roller length(mm)	600	800	800	800	1200	1200
Mesh aperture(mm)	φ12	φ12	φ12	φ12	φ12	φ12
Motor power(kW)	22	30	37	45	75	90
Dimensions(L×W×H)(mm)	1400×1180×2220	1400×1380×2220	1580×1450×2310	2170×1780×3100	2170×2180×3100	2490×2280×3350
Overall weight(kg)	Approx 1500	Approx 1800	Approx 3100	Approx 4300	Approx 5400	Approx 7200

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Technical Highlights:

01

High reliability

High safety factor high-speed bearings are used, making the bearings more stable and long-lasting.

02

Good economy

Both the moving and fixed blades can be ground multiple times, effectively reducing the cost of wearing parts.

03

Excellent maintainability

The split box design is equipped with an opening and closing mechanism, making maintenance simple, efficient, and safe.

Effect comparison:

Before

After

▲ 废轮胎 Waste tires

Before

After

▲ 废塑料 Waste plastic

Before

After

▲ 废纸 Waste paper

Before

After

▲ 海绵 Foam material

Wood Shaving Machine



Equipment Introduction:

The high-linear-speed blades of the flaker rapidly plane wood to produce thin wood flakes. As the wood in the flaker box moves reciprocally relative to the cutter shaft through chain-driven mechanism, the blades continuously plane all surfaces of the material, generating consistent wood flakes that are discharged via the under-mounted conveyor.

Application Range:

- Animal Breeding** Producing bedding materials for pets such as hamsters and laboratory animals like mice; producing absorbent and insulating materials for farms such as for chickens, horses, and rabbits.
- Packaging Materials** Producing wood shavings used as fillers for protecting fragile items during packaging.
- Paper Industry** Producing fine wood shavings used as pulp material in the papermaking process.
- Flower Breeding** Producing fine wood shavings used as organic fertilizer in horticulture.
- Bioenergy** Producing fine wood shavings used as biomass fuel.
- Furniture Manufacturing** Producing wood shavings used as raw material for making chipboards, fiberboards, and other types of boards.

Model parameters:

Model	GFW-C106	GFW-C109	GFW-C306
Planer box dimensions(mm)	1430×590	1430×890	2130×590
Swing diameter(mm)	φ160	φ160	φ300
Roller length(mm)	600	900	600
Motor power(kW)	7.5×4	11×4	11×4
Dimensions(L×W×H)(mm)	3780×1600×1500	3780×2000×1500	4880×1850×2080
Overall weight(kg)	Approx 2200	Approx 2500	Approx 5000

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Technical Highlights:

- 01**

 **Strong adaptability**

Can adjust the thickness of the wood chips and change the size of the chips according to needs
- 02**

 **High economy**

Blades are highly hard and wear-resistant, can be reused multiple times by grinding or changing angles
- 03**

 **Ease of operation**

High degree of automation, simple and easy to operate

Effect comparison:



Vertical Baler



Equipment Introduction:

The vertical baler is powered by a hydraulic pump to drive the movement of the hydraulic cylinder, thereby moving the compression head to execute the compression action, achieving the purpose of reducing the volume of materials and increasing the bulk density. After compression, these materials generally cannot maintain their shape through complete deformation, so they need to be assisted in maintaining the compression effect through binding methods. Due to its strong versatility, small footprint, and simple operation, the vertical baler is widely used in enterprises with small processing volumes, especially supermarkets and small recycling stations make extensive use of this type of vertical baler.

Application Range:

Paper	Newspapers, magazines, books, wrapping paper, corrugated cardboard, cardboard boxes, paper boxes, advertising paper, various paper mill scraps, etc.
Plastic	Plastic bags, plastic packaging, plastic bottles, beverage bottles, mulch film, plastic film, woven bags, etc.
Fabric and leather	Leather scraps, textile mill scraps, garment factory scraps, carpets, clothing, curtains, plush toys, etc.
Plants	Various straws, tree branches, rice husks, etc.
Metal	Aluminum cans, aluminum profiles, etc.
Others	Household garbage, sponge, rubber strips, color-coated steel tiles, etc.

Model parameters:

Model	GSB-V0604	GSB-V0806	GSB-V1107	GSB-V1208
Packaging size(L×W×H)(mm)	600×400×(400-640)	800×600×(300-800)	1100×700×(500-950)	1200×800×(500-950)
Number of binding passes(PCS)	4	4	4	4
Main cylinder pressure(T)	16	31.5	25×2	31.5×2
Hydraulic power(kW)	2.2	4	5.5	7.5
Dimensions(L×W×H)(mm)	950×760×2070	1150×960×2850	1580×1080×3140	1680×1160×3280
Overall weight(kg)	Approx 500	Approx 850	Approx 1500	Approx 1850

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Technical Highlights:

01

 Long service life of the machine

Made of high-quality steel and thickened steel plates, it remains fatigue-free and does not deform with long-term use.

02

 Comprehensive safety protection



Multiple safety measures are in place to prevent potential hazards.

03



 Easy operation for workers

A well-developed intelligent operation program ensures simple, worry-free operation and high efficiency.



Effect comparison:





▲ 废纸 Paper



▲ 塑料瓶 PET bottle



▲ 秸秆 Straw



▲ 铝型材 Aluminum profile

Semi-Automatic Vertical Baler



Equipment Introduction:

The semi-automatic vertical baling machine compresses materials by driving the pressing head with a hydraulic cylinder, reducing its volume and increasing its density. Compared to the ordinary vertical baling machine, it employs a welded frame and dual main cylinders for compression, and it also adds a door-opening hydraulic cylinder and a pushing hydraulic cylinder. This not only makes its compression force greater than that of the ordinary vertical packing machine but also results in better packing effects and denser blocks. The convenience of opening the door and discharging the blocks saves time and effort. Therefore, it can be used not only as a regular vertical baling machine but is also particularly suitable for packing metal waste.

Application Range:

Metals	Aluminum cans, tin buckets, aluminum profiles, lightweight stainless steel scraps, thin iron sheets, aluminum window frames, etc.
Paper	Newspapers, magazines, books, wrapping paper, corrugated cardboard, cardboard boxes, paper boxes, advertising paper, various paper mill scraps, etc.
Plastics	Plastic bags, plastic packaging, plastic bottles, beverage bottles, ground cover film, plastic film, woven bags, plastic buckets, etc.
Fabric and Leather	Leather scraps, textile factory scraps, garment factory scraps, carpets, clothing, curtains, plush toys, etc.
Plants	Various straws, tree branches, rice husks, etc.
Others	Household garbage, sponge, rubber strips, color steel tiles, etc.


Model parameters:

Model	GSB-S1111	GSB-S1311	GSB-S1511
Packaging size(L×W×H)(mm)	1100×1100×(600-1000)	1300×1100×(600-1000)	1500×1100×(600-100)
Number of binding passes(PCS)	4	5	6
Main cylinder pressure(T)	80×2	100×2	125×2
Hydraulic power(kW)	30	37	45
Host size(L×W×H)(mm)	1640×2430×4140	1860×2450×4160	2080×2480×4180
Overall weight(kg)	Approx 7500	Approx 8500	Approx 9800

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Technical Highlights:

01

**Durable and robust**


All structures are made of high-quality thick steel plates welded together, offering high strength, good rigidity, and a long service life.

02

**Stable and reliable**

Both the main cylinder and the door opening cylinder have guide structures, ensuring smooth operation and preventing off-center loading.

03

**Anti-misoperation design**

Interlocking movements of cylinders prevent equipment damage due to accidental misoperation.

Effect comparison:




▲ 塑料瓶 PET bottle



▲ 废纸 Paper



▲ 铝型材 Aluminum profile



▲ 纺织品 Textile

Full-Automatic Horizontal Baler



Equipment Introduction:

The fully automatic horizontal baler machine consists of a casing, a hydraulic station, hydraulic cylinders, a pressure head, a wire threading mechanism, a wire twisting mechanism, and a necking mechanism, among other components. The main cylinder drives the pressure head to compress the material, while the necking mechanism provides resistance for the package block to pass through. The wire threading mechanism and the wire twisting mechanism work together to tie up the package block. The entire compression and binding process of the package block is controlled by a PLC, eliminating the need for manual intervention, and the high level of automation means it is not only efficient but also saves on labor costs. Consequently, it is widely used in situations where a large volume of processing is required and processing speed needs to be fast.

Application Range:

Paper	cardboard boxes, paper boxes, advertising paper, various paper mill and printing factory scraps, etc.
Plastics	Plastic bags, plastic packaging, plastic bottles, beverage bottles, ground film, plastic film, woven bags, etc.
Fabric and leather	Leather scraps, textile factory scraps, garment factory scraps, carpets, clothing, curtains, plush toys, etc.
Plants	Various straws, tree branches, etc.
Metals	Aluminum cans, etc.
Others	Household garbage, sponges, rubber strips, industrial waste, etc.

Model parameters:

Model	GSB-F0707	GSB-F1107	GSB-F1111	GSB-F1112
Packaging size(W×H×L)(mm)	720×720×(500-1500)	1100×750×(500-1500)	1100×1100×(500-1800)	1100×1250×(500-1800)
Number of binding passes(PCS)	4	4	5	5
Main cylinder pressure(T)	63	63	100	112
Hydraulic power(kW)	22	22	45	55
Host size(L×W×H)(mm)	6780×3000×3600	6880×3800×3600	8560×3910×4500	9260×4120×4850
Overall weight(kg)	Approx 6800	Approx 9100	Approx 18600	Approx 21300

The above models are standard universal models. If you require other models, please contact our staff, and we can also provide customized services according to your needs.

Technical Highlights:

01

 **High intelligence**

The rigorous and reliable PLC control program, combined with sensors, improves the efficiency and effect of packaging, reducing operational difficulty.

02

 **Good stability**

The equipped material cutting device effectively reduces the risk of downtime caused by material jamming.

03

 **High reliability**

The overall structure adopts a design with a large safety factor, preventing permanent deformation or cracking.

Effect comparison:



▲ 塑料瓶 PET bottle



▲ 废纸 Paper



▲ 易拉罐 UBC



▲ 秸秆 Straw

Bagging Baler



Equipment Introduction:

The bagging and packing machine uses a hydraulic cylinder to compress the material in the compression chamber multiple times in various directions before pushing it into the bag. The bagging and packing machine is mainly used for materials that cannot be baled or for materials that have specific storage requirements. The packed material blocks form a standard rectangular shape, which is both aesthetically pleasing and convenient for stacking and boxing, and will not spill during transportation. If PE plastic bags are used in conjunction with vacuum packaging, it can effectively prevent the material from getting damp and moldy during transportation and storage. When used in conjunction with a weighing conveyor, it can accurately control the weight of each bag, and when combined with a chipper, a screener, etc., it can form a complete production and packing line for wood chips.

Application Range:

Wood	Wood shavings, sawdust, etc.
Fabric and leather	Clothing, rags, factory offcuts, textile scraps, leather scraps, etc.
Plants	Rice husks, alfalfa, silage feed, silage feed, cottonseed hulls, etc.
Paper	Shredded currency, paper scraps, etc.
Soil	Peat soil, coir soil, etc.
Others	Rubber granules, sponge, foam, latex, etc.

Model parameters:

Model	GBB-H2515	GBB-H3323	GBB-H4030	GBB-H5050
Packaging size(W×H×L)(mm)	250×150×(300-600)	330×230×(350-600)	400×300×(450-600)	500×500×(550-800)
Main cylinder pressure(T)	10	20	31.5	63
Sub-cylinder pressure(T)	10	16	20	50
Hydraulic power(kW)	5.5	7.5	11	30
Dimensions(L×W×H)(mm)	2510×2060×2100	2660×2360×2100	2810×2750×2350	3210×3210×2680
Overall weight(kg)	Approx 1300	Approx 1600	Approx 2100	Approx 3500

The above models are standard universal models. If you require other models, please contact our staff, and we can also provide customized services according to your needs.

Technical Highlights:

01

 **Simple operation**

Three-step boot-up, intelligent PLC program control designed by engineers to ensure automatic operation of the equipment.

02

 **Easy bagging**

Designed with ergonomic principles, making bagging operations easily and reducing fatigue.

03

 **Adjustable parameters**

Easy switching between single-time/continuous operation; freely adjusting between press-loose/press-tight settings.

Effect comparison:



▲ 刨花屑 Wood shavings



▲ 木屑 Wood shavings

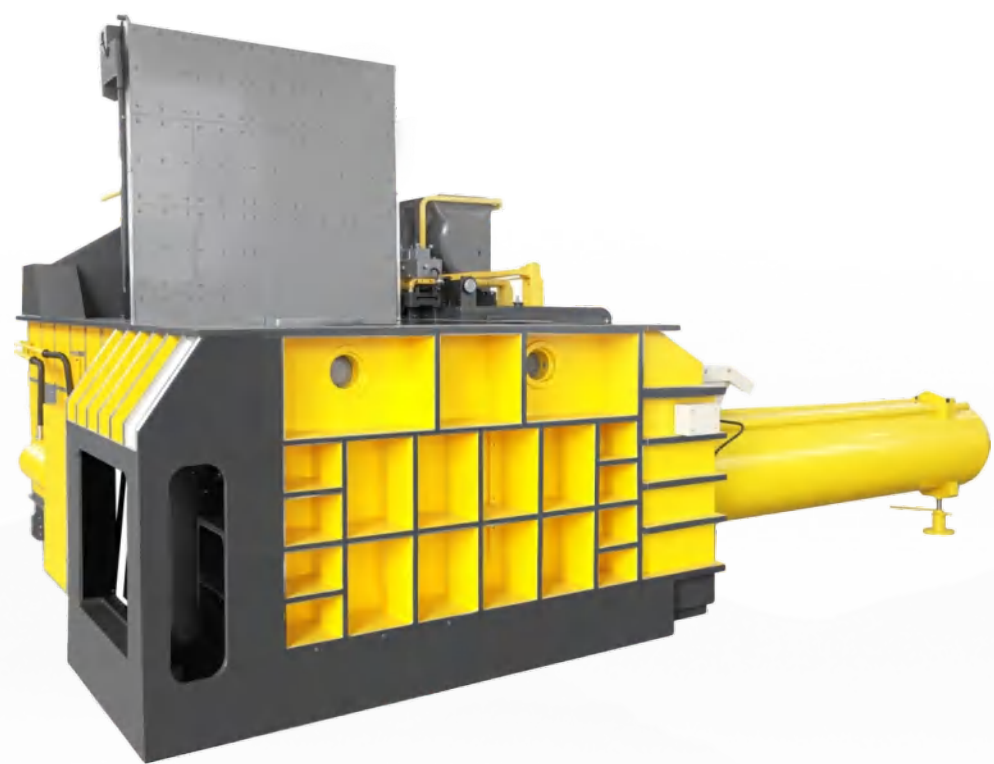


▲ 废旧泡沫 Waste foam



▲ 碎布 Rag pieces

Door-Cover Type Metal Baler



Equipment Introduction:

The door cover type metal baling machine, also known as the door cover type metal briquetting machine, consists of a frame, a door cover, a hydraulic cylinder, a pressing head, a package door, a hydraulic station, and other components. The door cover cylinder, side cylinder, and main cylinder compress the metal material in three directions, respectively, ultimately squeezing it into a compact rectangular prism. This achieves the purpose of reducing volume and increasing bulk density. The compressed blocks are convenient for loading and unloading, storage and transportation, and charging into furnaces, significantly reducing the costs throughout the entire metal recycling and regeneration industry chain, especially transportation and storage costs. Therefore, this equipment is particularly widely used in the field of metal recycling and regeneration.

Application Range:

Metal Recycling	Aluminum cans, scrap steel, scrap iron, waste aluminum, waste copper, waste colored steel tiles, construction waste rebars, waste aluminum profiles, etc.
Automobile Manufacturing	Granulated stainless steel chips, granulated steel chips, granulated iron chips, stamping scraps, etc.
Aerospace	Granulated aluminum chips, granulated titanium chips, etc.
Resource Regeneration	Disassembled car shells, household appliance shells, computer case shells; aluminum foil sorted out from lithium battery electrode sheets, etc.
Metal Smelting	Granulated chips produced during the manufacture of refined plates, etc.
Other Industries	Silicon steel sheet scraps, oil filters, oil drums, paint cans, aluminum foil product scraps, etc.


Model parameters:

Model	GFB-P2512	GFB-P3512	GFB-P4016	GFB-P5025
Material box size(W×H×L)(mm)	1200×700×600	1400×900×700	1600×1000×800	2000×1400×1000
Packaging size(W×H)(mm)	250×250	350×350	400×400	500×500
Main cylinder pressure(T)	125	125	160	250
Hydraulic power(kW)	11	15	22	45
Dimensions(L×W×H)(mm)	3200×2800×2000	3500×3200×2300	4100×3700×2600	4900×4650×3150
Overall weight(kg)	Approx 6000	Approx 8400	Approx 11300	Approx 21100


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Technical Highlights:


01

**Durable and reliable**
All surfaces in contact with materials are covered with wear-resistant plates, and key stress positions are designed with a large safety factor.

02

**Stable and reliable**
Bearings are added at the hinge points to improve the stability and reliability of the equipment operation.

03

**Intelligent anti-tampering**
The intelligent PLC program meticulously crafted by engineers effectively prevents equipment damage caused by accidental operation.

Effect comparison:



▲ 废油漆桶 Waste Paint Cans



▲ 旧金属 Scrap metals



▲ 铁屑 Metal shavings



▲ 易拉罐 UBC

Continuous Metal Baler



Equipment Introduction:

Continuous metal baling machines are also known as hopper-type briquetting presses, primarily used for compressing metal scrap into blocks. They can expel some liquid, increase bulk density, facilitate stacking, and recycling. They are particularly suitable for materials with a high original bulk density. By using a hopper for material storage, they allow for continuous feeding and compression, reducing downtime for loading and enhancing production efficiency. When combined with conveyors, they can easily integrate with existing production equipment to form an automated processing line. Therefore, they are widely used in situations where materials are difficult to compress, where a high degree of automation is required, and where they need to form a production line with other equipment.

Application Range:

Metal Recycling	Aluminum cans, scrap steel, scrap iron, waste aluminum, waste copper, waste color-coated steel tiles, construction waste rebars, waste aluminum profiles, etc.
Automobile Manufacturing	Granulated stainless steel chips, granulated steel chips, granulated iron chips, stamping scraps, etc.
Aerospace	Granulated aluminum chips, granulated titanium chips, etc.
Resource Regeneration	Disassembled car bodies, household appliance shells, computer case shells; aluminum foil sorted out from lithium battery electrode pieces, etc.
Metal Smelting	Granulated chips produced during the production of refined plates, thick aluminum sheets or aluminum scraps produced during rough machining, etc.
Other Industries	Silicon steel sheet scraps, oil filters, oil drums, paint cans, aluminum foil product scraps, etc.

Model parameters:

Model	GFB-C2510	GFB-C3016	GFB-C3520	GFB-C4025
Packaging size(W×H)(mm)	250×250	300×300	350×350	400×400
Main cylinder pressure(T)	100	160	200	250
Sub-cylinder pressure(T)	50×2	80×2	100×2	125×2
Hydraulic power(kW)	22	45	30×2	45×2
Host size(L×W×H)(mm)	3150×3300×2150	3530×3700×2150	3950×4130×2450	4500×4600×2450
Overall weight(kg)	Approx 6300	Approx 7500	Approx 9000	Approx 11100

The above models are standard universal models. If you require other models, please contact our staff, and we can also provide customized services according to your needs.

Technical Highlights:

01

**Infinite Strength**

Utilizing dual-side cylinder compression to increase compression pressure and enhance the compression effect.

02

**Waste Liquid Channel**

Unique channels for liquids and debris ensure a clean and tidy ground surface.

03

**Intelligent Control**

Engineers have crafted a smart PLC program that easily achieves seamless integration with other equipment.

Effect comparison:



▲ 废铜线 Copper wire



▲ 废钢筋 Scrap Rebar



▲ 废铝屑 Aluminum Shavings



▲ 易拉罐 UBC

Briquetting Press



Equipment Introduction:

The briquette press, also known as a chip briquette press, consists of a hydraulic station, hydraulic cylinder, feeding module, mold cavity, and pressing head. The feeding module is responsible for adding material, while the hydraulic cylinder drives the pressing head to compress the material within the mold cavity to form it. The briquette press has high pressure and a small compression area, thus providing a significant compression pressure. The resulting briquette blocks are small in volume and high in density, which not only increases the value of the material but also reduces storage space, lowers transportation costs, and reduces smelting losses. Additionally, the briquetting process can extrude most of the cutting fluid, which can be centrally recycled and reused after treatment, reducing environmental pollution and saving costs. Therefore, it is widely used in the processing of metal chips in machine shops.

Application Range:

Metal Recycling	Recycled stainless steel chips, carbon steel chips, cast iron chips, aluminum chips, copper chips, etc.
Automobile Manufacturing	Stainless steel shavings, carbon steel shavings, iron shavings, etc.
Aerospace	Liquid aluminum shavings, aluminum chips, titanium chips, etc.
Resource Regeneration	Aluminum foil and copper foil sorted from lithium battery electrodes, aluminum lumps and copper tubes sorted from radiators, etc.
Part Manufacturing	Stainless steel chips, carbon steel chips, cast iron chips, aluminum chips, copper chips, etc., all containing cutting fluid or cutting oil.
Other Industries	Shredded currency, paper scraps, wood chips, coconut fiber, various liquid-containing scraps, etc.


Model parameters:

Model	GFB-B0910	GFB-B1116	GFB-B1320
Packaging size(mm)	φ90	φ110	φ130
Main cylinder pressure(T)	100	160	200
Gate cylinder pressure(T)	12.5×2	16×2	20×2
Hydraulic power(kW)	11	18.5	22
Host size(L×W×H)(mm)	2080×1100×1900	2530×1300×2150	2650×1400×2300
Overall weight(kg)	Approx 2600	Approx 3800	Approx 4500

The above models are standard universal models. If you require other models, please contact our staff, and we can also provide customized services according to your needs.


Technical Highlights:

01

 **Intelligent Program**


An intelligent PLC program meticulously crafted by engineers, which allows for setting a variety of process parameters, with idiot-proof operation, extremely easy to use.

02

 **Modular Structure**



The machine adopts a modular design, with a compact structure and small footprint.

03



 **Standardized Molds**

Molds are manufactured according to standards, with strict tolerance control, ensuring interchangeability.



Effect comparison:



▲ 钢铁屑 Iron and steel filings

▲ 铁刨花 Iron shavings

▲ 铝屑 Aluminum shavings

▲ 不锈钢屑 Stainless steel filings

Hydraulic Component — Hydraulic Cylinder



Equipment Introduction:

A hydraulic cylinder is a device that converts hydraulic energy into mechanical energy, primarily used to generate linear motion and force. It is widely used in hydraulic equipment, construction machinery, metallurgical equipment, ships, aerospace, and other fields. Our company is an original factory with Gantry CNC milling machines and multiple large lathes, possessing extensive experience in the production and manufacturing of large-scale oil cylinders. We also have the capability for technical communication and design, enabling us to deeply customize various non-standard hydraulic cylinders for you.

Application Range:

Environmental protection equipment	car balers, metal balers, vertical balers, horizontal balers, gantry shears, box shears, alligator shears, etc.
Construction machinery	excavators, bulldozers, loaders, etc.
Metallurgical equipment	rolling mills, continuous casting machines, forging presses, etc.
Processing equipment	shearing machines, punching machines, injection molding machines, etc.
Aerospace	landing gear, rudder control, etc.
Other fields	presses, lifting platforms, etc.

Technical Highlights:

- Integral Forging Cylinder Barrel:** The barrel of large oil cylinders is made of integral forging, which is strong, free of oil leakage risk, and safe and reliable.
- Copper-based Alloy Cladding:** The piston position of the integrated piston rod adopts the welding copper process, which can not only ensure the strength of the piston rod itself but also obtain a working surface with good sliding performance, improving the service life of the hydraulic cylinder.
- Professional Customization Services:** Quick response, provide professional technical consultation, personalized design and customization services according to needs, to meet special application scenarios.

Hydraulic Component — Hydraulic Power Unit



Equipment Introduction:

The hydraulic station is the "heart" of the hydraulic system, mainly used to provide the required hydraulic energy for hydraulic equipment. It draws hydraulic oil from the oil tank by driving the oil pump with an electric motor or internal combustion engine. The oil pump converts the mechanical energy of the electric motor or internal combustion engine into hydraulic energy, which is then delivered to the hydraulic cylinders, hydraulic motors, and other actuators through components such as pressure control valves, directional control valves, and piping to drive them to perform various mechanical actions.

Application Range:

Environmental protection equipment	car balers, metal balers, vertical balers, horizontal balers, gantry shears, box shears, crocodile shears, hydraulic crushers, etc.
Forging equipment	forging machines, die casting machines, etc.
Woodworking machinery	planers, sawing machines, milling machines, etc.
Processing equipment	shearing machines, punching machines, etc.
Plastic machines	injection molding machines, etc.
Other fields	presses, lifting platforms, etc.

Technical Highlights:

- Customized Design:** Professional customized design is provided based on application scenarios, load requirements, control schemes, and work.
- Technical Support:** Comprehensive technical support and training are offered to help users become familiar with the use and maintenance of hydraulic stations.
- After-sales Support:** Long-term after-sales service is provided to ensure the stable operation of hydraulic stations.



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