



ZHEJIANG MINGJIA ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD.

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We focus on

disposing livestock and poultry waste

ZHEJIANG MINGJIA ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD.

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Partners & Certification





Company profile

Zhejiang Mingjia Environmental Protection Technology Co., Ltd is located in Jiaxing city, Zhejiang province, near Shanghai and Ningbo. Covering an area of more than sixty thousand square meters. By providing customers with one stop work plan of resource utilization- project planning guidance, equipment research and development, technical guidance and maintenance, to achieve green empowerment, promote industrial upgrading.

Our company constantly integrated related technical resources and experience from aquiculture industry, environment protection industry and fertilizer industry, bring in professional technicians, develop our own technology and products: screw press solid liquid separator, cow dung solid liquid separator, inclined sieve solid liquid separator, intelligent organic fertilizer fermentation tank, dead animal disposal system and other breeding environmental protection products. Our company pays more attention to internal management and marketing in parallel. At present, it has passed the ISO9001:2015 quality system, ISO14001: 2015 environmental management system certification, CE certificate. Company's installation projects have been all over China, won a good cooperative reputation in animal husbandry and environmental protection industry. Our solid liquid separator and organic fertilizer fermentation tank have been exported to Europe and America, Southeast Asia and other countries.

Mingjia is on the basis of mature market channels, good corporate reputation, scientific management mechanism, drive product development by market demands, promise to keep providing high value-added, high quality service, constantly committed to the mutual benefit and common development, try to make contribute to the development of aquaculture industry and make the world better!

Livestock waste organic fertilizer fermentation tank

Introduction

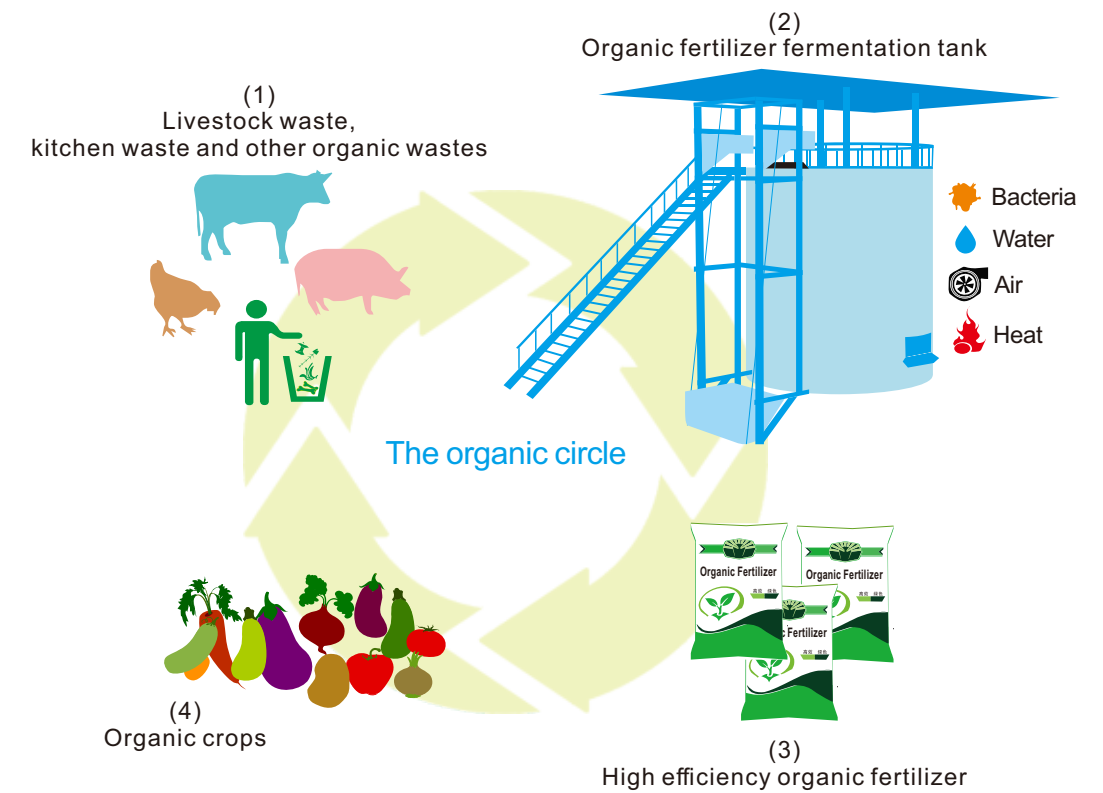
Organic fertilizer fermentation tank is mainly for disposing livestock and poultry manure, residual sludge of sewage treatment plants, adopt high temperature aerobic fermentation, to biodegrade the organic matter in the waste, so as to achieve harmless, stable, energy saving and resource utilization.

Suitable for various kinds of animal waste that from pig farm, cow farm and chicken farm. After fermentation, the moisture of organic fertilizer is about 20%-30%, which can be packed and transported directly.

Application

High efficiency organic fertilizer livestock and poultry breeding enterprises, zoo, Kitchen waste concentration treatment center, sewage treatment plant, organic fertilizer processing factory etc.

All steps to organic fertilizer



Our Technical Advantages

Double layer stainless steel tank body

We use double layer stainless steel wall plate for our fermentation tank. Compare to ordinary fermentation tank which use single layer stainless steel plate and small plate welding, our tank can effectively guarantee the facility's corrosion prevention and wear resistance. Between two layers is filled with high density thermal insulation polyurethane, which has reliable abilities on keeping the inner temperature and improving the general efficiency of fermentation.

Forged integral ratchet

The hydraulic transmission ratchet, popularly speaking, is the transmission gear. It is one of the most important components of the fermentation tank. It carries the whole operation of the mixing system and the oxygen supply system of the machine. Through the "milling and tempering" forging process, the overall ratchet material is tight and weld-free, which ensures the tightness of the ratchet material. Greatly reduce equipment failure rate and extend equipment service life.

Stainless steel hydraulic oil tank

The hydraulic system cabinet and anti-fouling cover adopt stainless steel material and tightly connected. Effectively prevents the disadvantage of traditional oil tank that after being used for a period of time, the rust, paint or other impurities are dropped into the fuel tank, which causes the entire hydraulic system to malfunction.

Intelligent operating system

The equipment control system adopts stainless steel double-door dust-proof electric cabinet and the internal electrical appliances adopts first-class brands such as Schneider and Chint. The microcomputer operating system monitors all relevant data in the whole process. And we can choose to use automatic, semi-automatic, manual and other operation modes. We also support that the remote monitoring and operating system, it can be easily access by any mobile devices which depends on the customer's requirements.

Deodorization system

The deodorization system is designed with a spray and deodorizing device and used in conjunction with the fermentation equipment. The spray method can remove the generated gas and 98% of the leachate, thereby eliminating more than 98% of the pollutants. The liquid organic fertilizer produced by the deodorization system can be used directly in the field.



Specification

Product Model	11FFG-55	11FFG-80	11FFG-100 Pig	11FFG-100 Chicken	11FFG-120 Pig	11FFG-120 Chicken	11FFG-140 Pig	11FFG-140 Chicken	11FFG-160
Body Diameter	4.2m	5.0m	5.6m	5.6m	6.4m	6.4m	6.95m	6.95m	6.95m
Body Volume	55m ³	80m ³	100m ³	100m ³	120m ³	120m ³	140m ³	140m ³	160m ³
Installation Power	29.25kW	34.25kW	34.25kW	34.25kW	37.75kW	50.25kW	42.75kW	55.25kW	45.25kW
Operation Power	29.25kW	34.25kW	34.25kW	34.25kW	37.75kW	50.25kW	42.75kW	55.25kW	45.25kW
Hydraulic Power	7.5kW	7.5kW	7.5kW	7.5kW	11kW	11kW	11kW	11kW	11kW
Body Material	Double SS layer	Double SS layer	Double SS layer	Double SS layer	Double SS layer	Double SS layer	Double SS layer	Double SS layer	Double SS layer
Insulating Material	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Hopper Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Hopper Volume	1.0m ³	1.5m ³	1.5m ³	1.5m ³	1.5m ³	1.5m ³	1.5m ³	1.5m ³	1.5m ³
Hopper Power	3kW	3kW	3kW	3kW	3kW	3kW	3kW	3kW	3kW
Discharge Drive	Hydraulic drive	Hydraulic drive	Hydraulic drive	Hydraulic drive	Hydraulic drive	Hydraulic drive	Hydraulic drive	Hydraulic drive	Hydraulic drive
Blower Power	2*7.5kW	7.5+12.5kW	7.5+12.5kW	7.5+12.5kW	7.5+12.5kW	2*12.5+7.5kW	2*12.5kW	3*12.5kW	2*12.5kW
Exhaust Fan	3kW	3kW	3kW	3kW	3kW	3kW	3kW	3kW	5.5kW
Deodorization System	SS spray tower	SS spray tower	SS spray tower	SS spray tower	SS spray tower	SS spray tower	SS spray tower	SS spray tower	SS spray tower
Control System	SS electric box	SS electric box	SS electric box	SS electric box	SS electric box	SS electric box	SS electric box	SS electric box	SS electric box
Electrical Component	Schneider, Chint	Schneider, Chint	Schneider, Chint	Schneider, Chint	Schneider, Chint	Schneider, Chint	Schneider, Chint	Schneider, Chint	Schneider, Chint
Pig manure(80%)	4-6m ³	8-10m ³	10-12m ³	10-12m ³	12-14m ³	12-14m ³	14-16m ³	14-16m ³	16-18m ³
Cattle manure(70%)	5-7m ³	8-10m ³	10-12m ³	10-12m ³	12-14m ³	12-14m ³	14-16m ³	14-16m ³	16-18m ³
Chicken manure(60%)	4-6m ³	6-8m ³	8-10m ³	8-10m ³	10-12m ³	10-12m ³	12-14m ³	12-14m ³	14-16m ³
Kitchen waste(75%)	2-4m ³	4-6m ³	6-8m ³	6-8m ³	8-10m ³	8-10m ³	10-12m ³	10-12m ³	12-14m ³



Note: The capacity is different according to the season, territory and moisture.





Cylinder solid liquid separator

Cylinder sieve solid liquid separator is the equipment aimed at separating sewage, liquid manure, biogas slurry that with high water content and low solid rate.

The product has a large capacity, especially for small impurities. The sieve size can be customized according to the customer's processing material.

It is suitable for manure cleaning by rising, manure cleaning by water submerging and sewage treatment, filtration of biogas slurry etc. It has a wide range of usage, with the feature of high efficiency, good treatment effect and solid removal rate is over 90%.



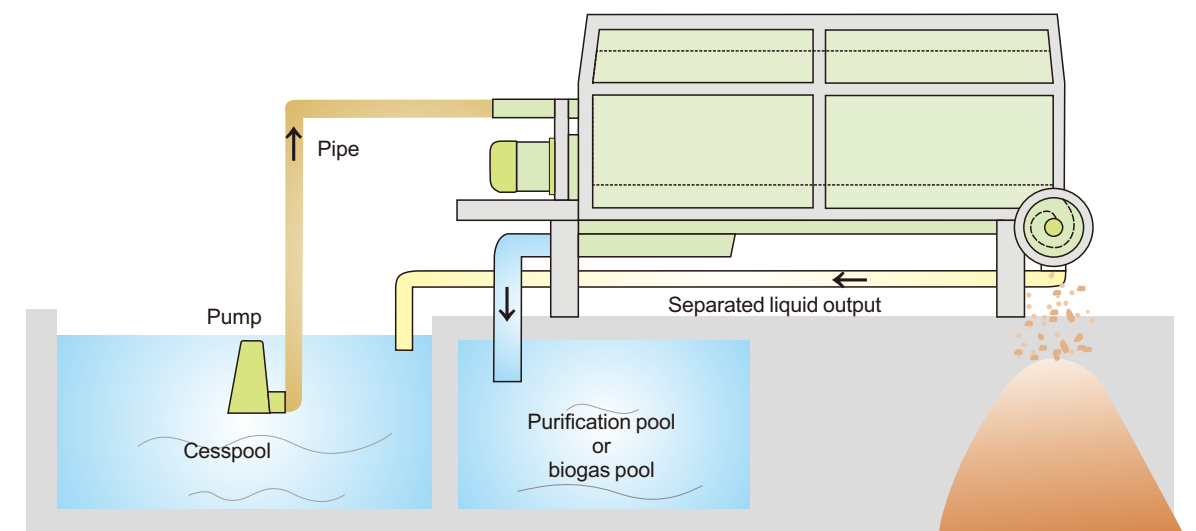
Use different size of screen to process multi-stage filtration



Specification

Production model	MJ-6400	MJ-6400S	MJ-7800S
Main power (kW)	3.75	4.5	5.5
Main material	Stainless steel	Stainless steel	Stainless steel
Sieve size (mm)	0.25	0.25	0.25
Weight (kg) Size	600	800	1000
(mm) Capacity	3800*930*1770	4500*930*1900	5300*1130*2000
(m ³ /h)	15~18	18~20	25~30

Process diagram



Screw press solid liquid separator

Screw press solid liquid separator means to separate the liquid from livestock manure through screw press and get the solid organic fertilizer and liquid organic fertilizer.

After separation, the rate of solid moisture content is low, so it can be transported in bags. The organic fertilizer can be used in the field and areas where fertilizer is needed to improve the soil quality. It also can be used as a fertilizer for planting and a good fodder for chicken, duck and fish.

After separation, the liquid will into the round sieve and it will do further solid- liquid separation, then it enters the sewage treatment pipe network. It also can be converted into fuel after the anaerobic treatment. It also solves the problem of short service life due to the blockage of solid residue in the biogas pool.



Features

The difference of old type and new type is the motor location. The new type motor is under the machine, which reduced the occupancy area. At the same time, protecting the motor from water. Small-scale users can directly feed instead of using delivery pump, that reduced the space using of the cesspool and costs for customers.

Specification

Production model	MJ-180S	MJ-260S
Main power (kW)	4	7.5
Main material	Stainless steel	Stainless steel
Sieve size (mm)	1.0/0.7/0.5	1.0/0.7/0.5
Weight (kg) Size	400	600
(mm) Capacity	1500*1100*800	2100*1100*800
(m ³ /h)	5~7	7~13



Cow manure solid liquid separator

According to many years' experience of traditional solid liquid separator treatment of cow manure and the condition of large handling amount of the cow farm and thick cow dung fiber. After summarizing the shortcomings, we developed this solid liquid separator that specialized for cow dung.

The machine is made of stainless steel, it has big capacity, it can effectively solves the potential problems, such as fast wear, low efficiency, easy to spray water during its process. This machine can be used widely for middle or large cow farm. After separating, the solid moisture is about 50%-60%.



Specification

Production model	MJ-8000S
Main power (kW)	8.25
Main material	Stainless steel
Sieve size (mm)	0.7
Weight (kg) Size	1000
(mm) Capacity	3500*1300*2000
(m ³ /h)	25~30

Inclined sieve solid liquid separator

Inclined sieve solid-liquid separator is specially designed for disposing small- scale processing situation, like chicken manure, duck manure, biogas residues etc.

The machine is integrating inclined screen gravity separation, screw press separation technology together. It realized the resource utilization of livestock and poultry waste. The equipment is made of stainless steel, which make it has strong corrosion resistance and long working life.

The force part of the spiral shaft is treated with reinforcement and the tungsten steel is used for wear-resisting treatment. Keeping the screw longer life, reducing the maintenance time.



Specification

Production model	MJ-XBS1000	MJ-XBS1500
Main power (kW)	3	4
Main material	Stainless steel	Stainless steel
Sieve size (mm)	0.6	0.6
Weight (kg) Size	380	500
(mm) Capacity	2190*1300*1500	2690*1300*1500
(m ³ /h)	10~15	25~30

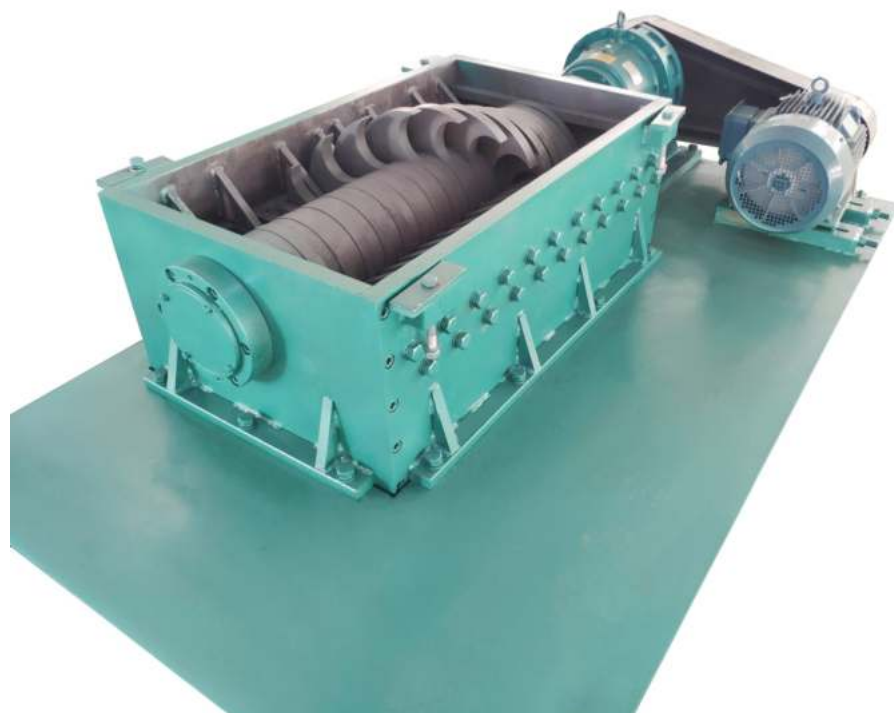


Crushing machine

The crusher is mainly imported from Europe crushing technology by our company. The crushing tool is made by special materials and processed by special technology. The crusher is composed of main shaft, blade, stationary knife, box, feeding hopper and power system. Using the interaction between the fixed knife and the blade, to make the diseased livestock and poultry shredded. The equipment adopts single-shaft design, it provides large shearing force to ensure the crushing output. The imported bearings and multiple combined airtight methods make the machine have the feature of high load resistance and long life, waterproof and anti-fouling. To ensure long-term stable operation of the machine. For example, 200kg of dead pigs can be completely broken in 4-5 minutes and the crushed solid size is 3*5CM.

Specification

Motor power	15kW
Cutter shaft size(mm)	Square hexagon with 80mm sides
Cutter material	Alloy steel
Size (mm)	2300*1300*1000
Weight (kg)	2500
Crusher output (T/h)	5
Discharging size (mm)	30*50



Delivery pump

The specialized delivery pump can extract the pig hair and chicken hair in the waste and the front-end blade can cut off the weeds, strings and other things of the waste, which has the feature of anti-winding and anti-blocking. Double waterproof design has been used on the oil sealing of the pump to prevent water seepage, then prolong the service life. It's an ideal pump for extracting chicken manure, pig manure and other livestock manure and biogas slurry.

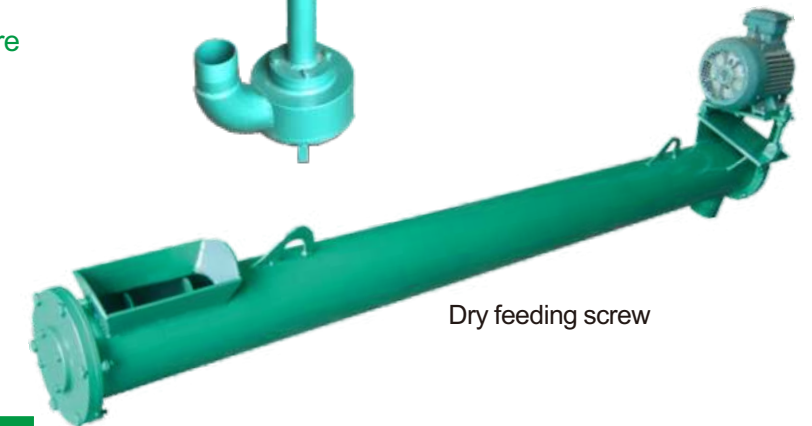


Spiral delivery pump

Suitable for pig manure and chicken manure



Cow dung pump



Dry feeding screw

Parts



Filter



Spiral screw

Organic fertilizer production line

Compost turner

The self-propelled compost turner is mainly used for helping turning during the fermentation process of livestock manure, domestic waste, sludge, crop straw, it not only can promote the fermentation and but also can be used for fodder fermentation.

It doesn't need the track. It's easy to operate and has high mobility, low space usage and saved investment.

Power: 7.5kW
Processing height: 0.8m
Processing width: 2.7m
Traveling speed: 50m/h



Grinder

Organic fertilizer pellet grinding machine, specially developed for livestock manure organic fertilizer, can crush the fermented manure, has the characteristics of small size, convenient movement and other features. With its unique anti-blockage design, the efficiency is greatly improved.

Main power: 15kW
Outline dimension 1250mm*800mm*1650mm



Packager

The organic fertilizer after grinding, sieving and mixing, will be finally delivered to the packager. This packager adopts the way of double helix feeding, which improved the feeding efficiency. The dual packing lines can package and weigh simultaneously. Equipped with infrared induction device, when the requested weight is archived, the helix will stop feeding. The machine uses hydraulic pressure and four-wheel device, which provided the convenience of movement.



Sieving machine

In the process of organic fertilizer production, continuously sieving the grinding material that after fermentation, make the organic fertilizer evenly refined and impurities separated. By using combined modularized sieve, that allows customers change sieve with different size according to their needs.



Mixer

To make organic compound fertilizer, Nitrogen, Phosphorus, Kalium and other inorganic fertilizer elements can be added and mixed in the process of organic fertilizer manufacturing. It can improve the efficiency of organic fertilizer and reduce the pollution of soil caused by common fertilizer.

The equipment mixing speed is fast, the uniformity is high and it doesn't produce segregation, the material residue rate is low.



Conveyor

Conveyor is the connection between different equipment in the organic fertilizer production line, unique skirt design, widening design, large throughput.

Length: 4m/6m/8m... Width: 0.6m/0.8m

