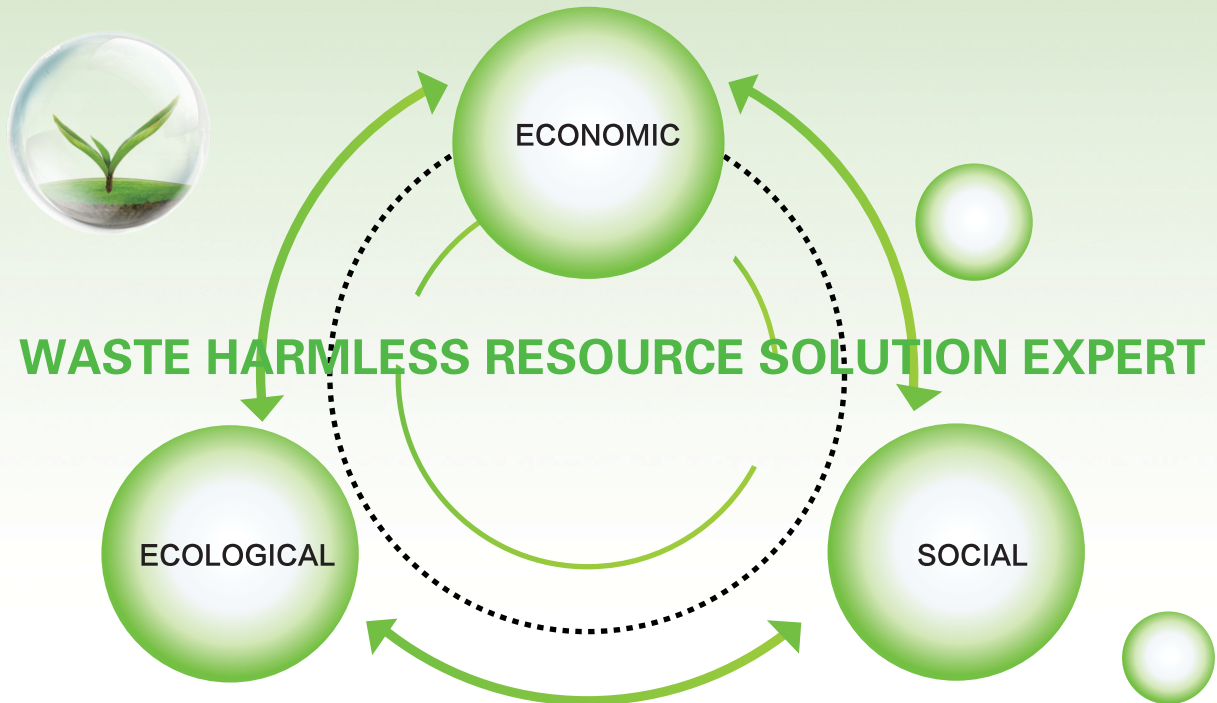




Transform the economic development pattern

Maintain the ecological balance

Realize sustainable development



ABOUT JERS

At JERS, we provide integrated waste management and environmental solutions, working in partnership with customers to help minimize the financial and environmental impacts of their waste. We provide a total waste management service and an affective disposal of waste. Our expertise lies in converting organic waste into quality compost, animal feed and fuel for use in agriculture, aquaculture, livestock farming and community growing needs. Our Municipal waste management service offers a real alternative to landfill, whereby we recover valuable energy from materials that cannot be recycled and is being wasted presently.

At JERS, we are committed to delivering our services responsibly and sustainably, ensuring that we meet the needs of our customers while managing the social, environmental and economic impacts of our operations and services. We recognize that by working with out customers, employees and the communities in which we serve, we can make a greater contribution to a more sustainable society.

HAZARDS OF ORGANIC WASTE

In recent years, food waste and leftover food have been increasing. In large cities, food waste has accounted for about 60% of the total domestic waste, and its daily output has reached several thousand tons. Due to improper disposal of garbage, resulting in air pollution, soil pollution, "garbage besieged."

! The risk of waste without disposal

- Perishable produce irritating gas, broken ring landscape, nourish mosquitoes, plague and so on direct discharge will pollute the water and river
- Breed pathogens, endanger human health, and cause infectious diseases
- Returning to the table, "pig swill" and "drainage oil"
- Traditional waste disposal methods



! Traditional waste disposal methods



Food waste

Easy to produce pathogens, pollute the environment, etc.



Community garbage can

Pollution of the residential environment caused two pollution, prone to pathogenic bacteria



Garbage truck

Waste of manpower, high transport costs, easily lead to transport leakage



Burn

Air pollution, Easy to produce dioxin and other carcinogenic gases



Land fill

Encroach on the land, pollute the soil, and Ground water. Garbage siege.



Refuse transfer station

The two transit was not only a waste of manpower and material resources, but also resulted in two pollution

JERS Solution

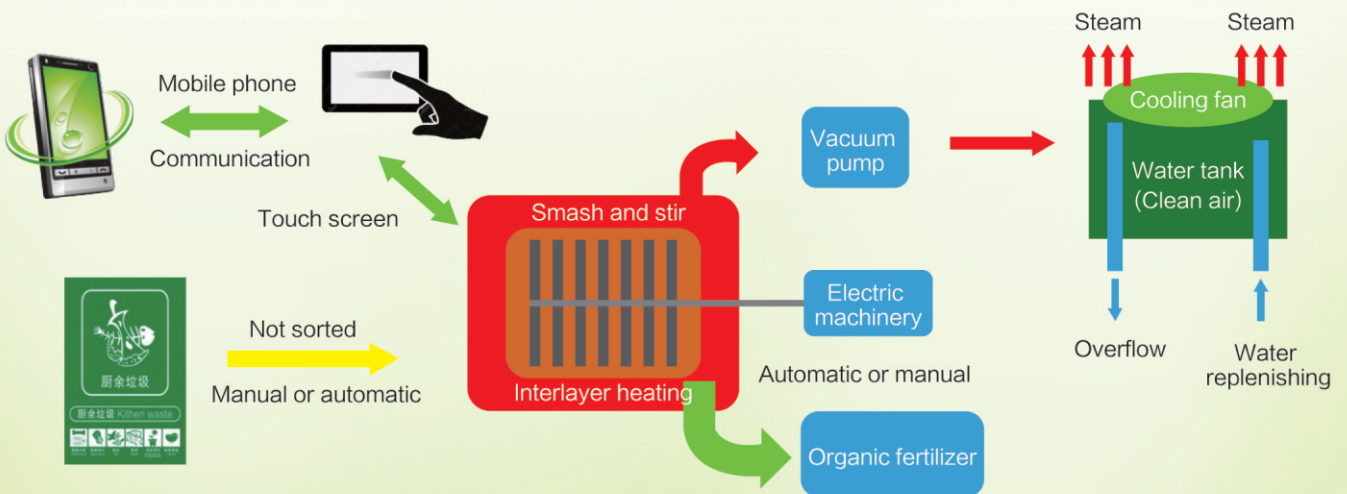
The garbage in the form of organic manure are applied to the soil by "energy saving, emission reduction, low-carbon, green, environmental protection, recycling" of the new biotechnology process, Realize the "carbon cycle" and improve the soil environment.



WORKING PRINCIPLE

Organic wastes without sorting are loaded into composting green machine by manual or automatic. the machine broke and stir waste as well as heat them to create the best microorganism activity environment (65 to 75 degrees) to active the microbes which fermentate organic waste at a rate of tens of times faster than traditional fermentation compost decomposition. At the same time, the air pump draws water vapor into the water tank for filtration. The cooling fan on the tank blows water vapor into the air.

The microbes is a group of aerobic bacteria that ferment, decompose organic waste and kill a lot of harmful bacteria when the temperature is higher than their active temperature (60 degrees Celsius). When the temperature is below 60 degrees, it is in a state of sleep and does not produce decomposition phenomenon when human and animals touch them .





OUR ADVANTAGES

✓ Harmlessness, Biological, High-efficiency

The environment from 65°C to 80°C degrees and fermentation bacteria can kill harmful bacteria, and maintain the maximal nutrition of organic.

Efficient aerobic fermentation bacteria can fermentate any organic waste generally within 12 hours, the fermentation of incomplete garbage can be sorted by physical screening and be added into machine again with the new waste.

Bacteria is cultured into the machine before leaving the factory and maintained for all life time.

Fermentation time:



✓ Localization, reduction, reuse and recycle

The waste is localized composted in time, and the output is fertilizer like grey brown powder, which is convenient for storage.

The reduction rate is 80%~90%, saving transportation cost.



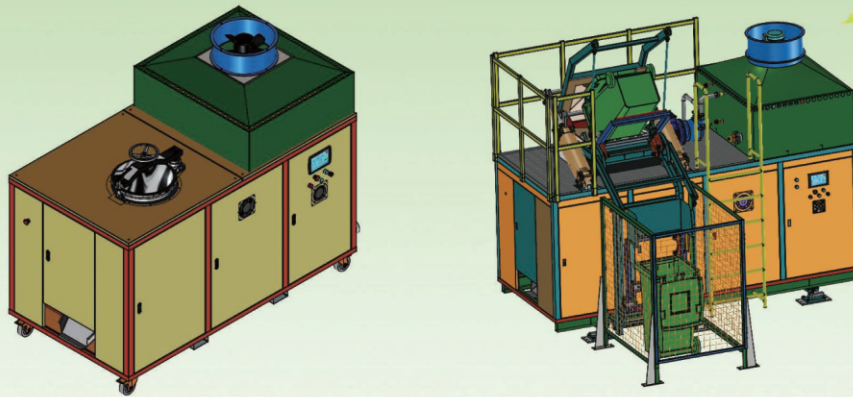
✓ Compost all organic waste with environmental protection

Compost all organic waste, e.g. food waste containing bones, feather and shells, Aquaculture waste, garden waste, sludge, agriculture waste and so on.

Vacuum sealing technology make sure not any waste gas, waste water nor other secondary pollution occurred during the whole process.



COMPOSTING GREEN MACHINE



No. of patents : ZL 2016 2 1152191.4; ZL 2016 2 1152199.0; ZL 2016 2 1152110.0; ZL 2016 2 1152171.7; ZL 2016 2 1152109.8;

Characteristics of machines:

- ▶ **Strong driving force** Suitable for various organic garbage without sorting
- ▶ **Breaking and stirring machine** The waste can be loaded totally one time or loaded during running
- ▶ **Safety** The waste can be loaded totally one time or loaded during running
- ▶ **Load and discharge automatically** With automatic weigh and report list
- ▶ **One button start** Run and stop automatically after fermentation
- ▶ **HMI** Different garbage can be set with different parameters
- ▶ **Communicate with mobile phone** Fully unattended
- ▶ **Integrated machine** All functions are integrated into a stainless steel enclosure, easy to install, small footprint, and easy to clean
- ▶ **Convenient and safe maintenance** There are maintenance doors all around and have manual control function
- ▶ **Vacuum technology** No smell. No additional auxiliary are added with the garbage

Note: ●standard ○option - None

SPECIFICATIONS

Type	CERS-200	CERS-300	CERS-500	CERS-1000	CERS-5000	CERS-10000
Capability to compost waste	200kg	300kg	500kg	1000kg	5000kg	10000kg
Outline size without waste lift system (L × W × H) (mm)	2170 × 1140 × 2050	2660 × 1189 × 2150	3154 × 1335 × 2528	3768 × 1627 × 2840	6200 × 2100 × 3600	8500 × 2100 × 2840
	The width shall add 1.3m if contain waste lift system					
Power3 phase 5 wires	220V 50HZ 13KW 380V 50HZ 13KW 420V 50HZ 13KW	220V 50HZ 20KW 380V 50HZ 20KW 420V 50HZ 20KW	220V 50HZ 32KW 380V 50HZ 32KW 420V 50HZ 32KW	220V 50HZ 55KW 380V 50HZ 55KW 420V 50HZ 55KW	220V 50HZ 250KW 380V 50HZ 250KW 420V 50HZ 250KW	220V 50HZ 480KW 380V 50HZ 480KW 420V 50HZ 480KW
Average cost	6KW	10KW	17KW	31KW	140KW	300KW
Waste cost	-	-	-	-	-	-
Waster drain	-	-	-	-	-	-
Waste	All organic wastes , e.g food waste containing bones, feather and shells, Aquaculture waste, garden waste, sludge, agriculture waste and so on.					
Sorted?	No need sorted					
bacteria	Bacteria is cultured into the machine before leaving the factory and maintained for all life time.					
Batch?	Can load waste during operation					
Automatic Weigh	○	○	●	●	●	●
Waste lift system	○	○	●	●	●	●
Mobile Communications	○	○	○	○	○	○

Note: bigger machine can be supplied based on the special requirements of customer.

Output conforms to the Ministry of agriculture organic fertilizer (NY525) standard.

Get the environmental management system certification, quality management system certification, machine patents and national testing institutions certification of the machine.



FERTILIZER BY FOOD WASTE ANALYZE REPORT		
Item	Value	NY525-2012
Appearance character	Grayish brown, powder, no odor	Grayish brown or brown, granular or powder, without odor
Organic matter	93.4%	≥45%
Water	11.46%	≤30%
N	2.93%	≥5%
P	0.90%	
K	1.30%	
Ca	1.85%	
PH	5.20	5.5-8.5
As	2.72mg/kg	≤15
Pb	0.04mg/kg	≤50
Cd	0.40mg/kg	≤3
Hg	0.02mg/kg	≤2
Cr	4.41mg/kg	≤150
Fecal coliform bacteria	<3MPN/g	≤100

Company honors



Planting contrast of organic manure



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