



智能罐式发酵处理机

Intelligent Organic Fertilizer Composting Tank

The Composting Tank is an integrated system designed for high-temperature aerobic fermentation of organic waste (e.g., livestock farm waste and sludge). It efficiently breaks down organic materials into harmless, stable, and resource-rich organic fertilizer with a moisture content of around 30%, ready for direct packaging and transport.

罐式发酵处理机是一种一体化设备，用于处理畜禽粪污、污水厂污泥等有机废弃物。它通过高温好氧发酵技术，将有机物降解转化为无害、稳定且富含养分的优质有机肥，成品水分约30%，可直接包装运输。



浙江明佳环保科技股份有限公司
浙江省嘉兴市海盐县振兴路480号
Zhejiang Mingjia Environmental Protection Technology Co., Ltd
No.480 Zhenxing Rd., Haiyan County, Zhejiang Province, China
www.mingjiaeco.com | sales@mingjiahb.com
+86 13356097911 | +86 13356098911 | +86 19817068159



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Specification

产品规格

Model	11FFG-55	11FFG-80	11FFG-100	11FFG-120	11FFG-140	11FFG-160	11FFG-220	11FFG-280
Diameter	4.45m	5m	6m	6.4m	6.95m	7.6m	8.3m	9.6m
Volume	55m³	80m³	100m³	120m³	140m³	160m³	220m³	280m³
Total power	27.25kW	34.25kW	39.25kW	43.75kW	43.75kW	43.75kW	70.25kW	87kW
Operational power	15.95kW	20.5kW	23.75kW	26.5kW	26.5kW	26.5kW	40.8kW	51.2kW
Hydraulic power	5.5kW	7.5kW	7.5kW	11kW	11kW	11kW	15kW	18.5kW
Material	Stainless steel of inner and outer layer							
Insulation material	High-density polyurethane							
Material of hopper	Stainless steel							
Hopper capacity	1.0m³	1.5m³	1.5m³	1.5m³	1.5m³	1.5m³	1.5m³	1.5m³
Elevator power	Hydraulic power							
Outfeed drive	Hydraulic power							
Exhaust fan power	3kW	3kW	3kW	4kW	4kW	4kW	2×4kW	2×4kW
Number of blower	2	2	2	2	2	2	3	4
Blower power	2×7.5kW	7.5+12.5kW	2×12.5kW	2×12.5kW	2×12.5kW	2×12.5kW	3×12.5kW	4×12.5kW
Control cabinet	Double-door stainless steel electrical cabinet							
Electrical component parts	Schneider, Chint							
Deodorization device	Stainless Steel Spray Tower							
Productivity (m³/d)								
Chicken manure (65% moisture)	3-5m³	6-8m³	8-10m³	10-12m³	12-14m³	14-16m³	20-22m³	24-28m³
Pig manure (75% moisture)	4-6m³	5-7m³	8-10m³	10-12m³	12-14m³	14-16m³	18-20m³	24-28m³
Cow manure (70% moisture)	4-6m³	6-8m³	8-10m³	10-12m³	12-14m³	14-16m³	20-22m³	24-28m³
The data is for reference only, please refer to the actual situation.								

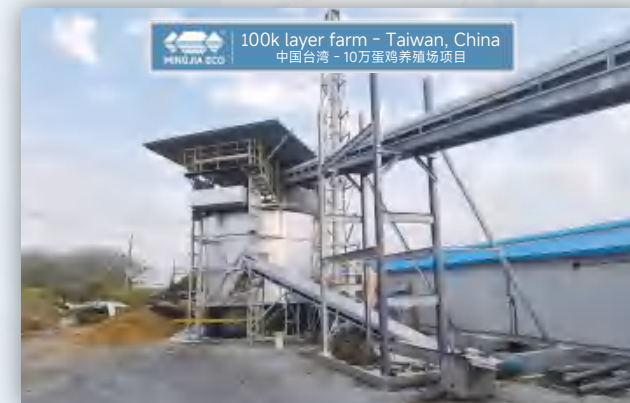
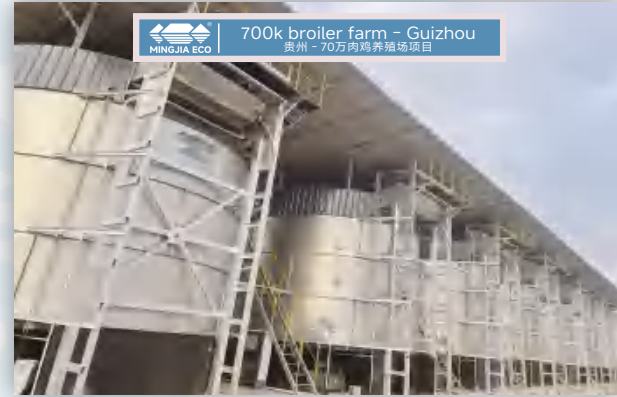
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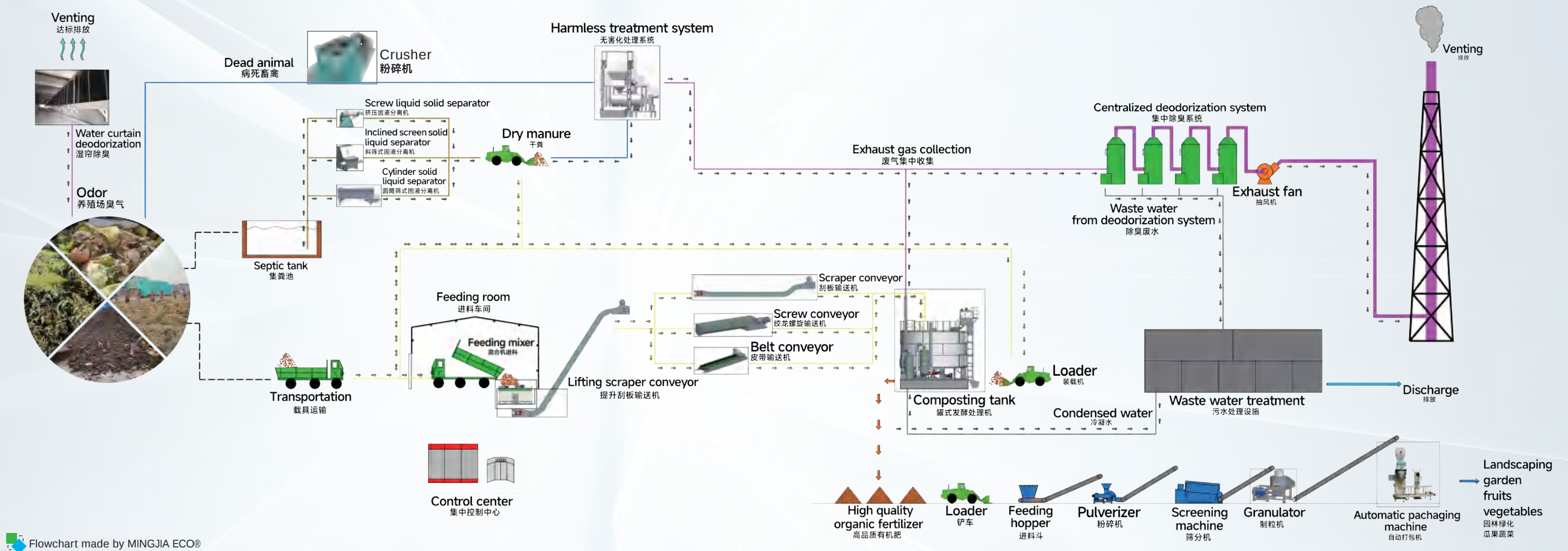
明佳环保自主研发制造的自动化有机肥发酵系统，配套除臭系统，对发酵废气进行集中收集与净化处理，确保厂区无异味、排放达标。光伏储能系统使得在电力短缺或电价高昂的地区，也能保障系统稳定、经济运行。

Mingjia ECO's self-developed automated organic fertilizer fermentation system is equipped with a deodorization system that centrally collects and purifies fermentation exhaust gases, ensuring an odor-free facility and compliant emissions. The photovoltaic energy storage system enables stable and economical operation even in regions with power shortages or high electricity prices.

项目展示 Our projects

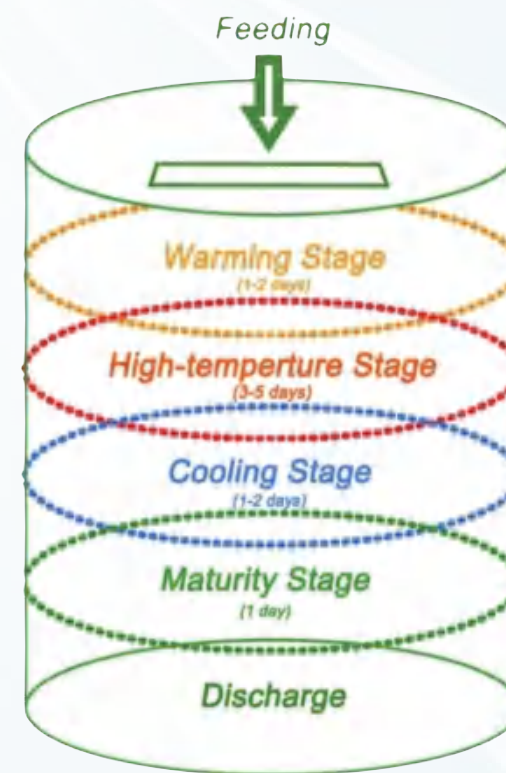


运行原理介绍 Principle Introduction



This premium organic fertilizer contains $\geq 85\%$ organic matter and $\sim 10\%$ NPK, is 100 % natural, free of harmful substances, well below national heavy-metal limits, and achieves 100 % kill of pest eggs. It loosens soil, conserves water, stimulates strong root growth, cuts chemical-fertilizer demand, and raises sugar content and flavor. Ideal for high-value fruit & vegetables, flowers, tea gardens, soil remediation and home gardening—one application gives long-lasting, safe, odor-free yield boosts.

最终发酵完成产生的高品质有机肥有机质 $\geq 85\%$ ，氮磷钾 $\sim 10\%$ ，纯天然无有害物，重金属远低于国标，虫卵杀灭率100%。它不仅能松土保水、促根壮苗，还能减少化肥用量，提升糖度与风味，适用于高端果蔬、花卉、茶园、土壤修复及家庭园艺，一次施用，长效增产，安全无臭。



Livestock manure is placed in a composting tank. Mesophilic microbes rapidly multiply and elevate the temperature to about $45\text{ }^{\circ}\text{C}$ within 1–3 days. Thermophilic fungi and actinomycetes then dominate, pushing the temperature to $65\text{--}70\text{ }^{\circ}\text{C}$ and vigorously decomposing cellulose, hemicellulose and proteins. As readily available substrates decline, heat output falls, the mass cools below $40\text{ }^{\circ}\text{C}$, dormant organisms re-activate to finish breaking down resistant residues, and the material matures into a stable, odor-free organic fertilizer ready for discharge.

7-10 days

畜禽粪污直入立式密封发酵罐，在 $45\text{--}70\text{ }^{\circ}\text{C}$ 好氧条件下经中温-高温-降温四段快速发酵：1-3天升至 $45\text{ }^{\circ}\text{C}$ 由中温菌启动；2-3天冲至 $65\text{--}70\text{ }^{\circ}\text{C}$ ，高温真菌、放线菌分解纤维素蛋白质；随后温度回落，休眠菌复活继续分解残难有机物；最终降至 $40\text{ }^{\circ}\text{C}$ 以下完成腐熟，出料即为稳定有机肥。