



Convert your
food waste in
FERTILE
COMPOST
in Just **24** Hrs.

- Fully automatic with HMI / PLC
- Compost in 24 hrs
- Hassle free operation
- 90% volume reduction
- Garbage to garden
- Noiseless & odorless
- Maintenance free.
- Low space and Electricity required
- Compost range starting from 25 Kg to 5 Ton per Day



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Alfa Engineering Solutions is a company based Mumbai, India to cater to the manufacturer of composting machines and equipments, we have different types of composting machines with different range of capacity.

- We are an Organic Waste Management & Environmental Solutions Company. With our tagline of “ Let’s Work for an Environment”, we are providing sustainable solutions for daily waste generated in organization.
- We have been dedicated to helping forward thinking organization reduce their environmental footprint, save money and produce high quality compost. We are committed to making composting an affordable and successful undertaking for any organizations of maximum size. We do this through innovative design informed by the coupling of industry experience and ongoing research and development. We are passionate about composting because it saves money and preserves the air, water and soil.
- We have started our organization with dream of social impact by providing sustainable solutions to environment. Our motto is “ I care for an Environment”. We have developed such solutions for organic & bio-degradable waste at affordable cost.
- **What is Composting?**
- Composting is nature's way of recycling. Composting biodegrades organic waste. i.e. food waste, manure, leaves, grass trimmings, paper, wood, feathers, crop residue etc., and turns it into a valuable organic fertilizer.
- Composting is a natural biological process, carried out under controlled aerobic conditions (requires oxygen). In this process, various microorganisms, including bacteria and fungi, break down organic matter into simpler substances. The effectiveness of the composting process is dependent upon the environmental conditions present within the composting system i.e. oxygen, temperature, moisture, material disturbance, organic matter and the size and activity of microbial populations.

Composting Basics:-

- Feedstock & Nutrient balance
- Particle Size
- Moisture Level
- Oxygen Flow
- Temperature

Services In:-

- Consultancy for Organic Waste Management
- Biological support for composting
- Micro-organisms fermentation
- Consultancy for “ZERO” Waste Management

Products –

- Fully Automatic Composting Machine
- Organic Waste Converter
- **Wastech** Automatic Composting Machine
- **Wastech (S)** – Heavy duty composting machine
- Organic Waste Shredders
- Micro-organisms & Bio-culture

We help you to manage your
food waste
into an efficient,
economical and eco-friendly
manner with a
**complete organic
waste management**





WASTECH
Composting Machine

alfa
Engineering Solutions

Alfa Engineering Solutions

COMPOSTING MACHINE

Alfa Engineering is a leading company in the field of Solid Waste Management with advanced technology of composting, SEC has been making great contribution in the development of decentralized solid waste management.

Our composting machine is a fully automatic and highly compact composting machine which processes all kinds of organic waste into compost within 24 hours. We thus endeavor to create social awareness and imbibe the benefits of rightly treating organic waste in the minds of our customers and people around the world at large.

Every composting machine purchased by our customers around the world, is a huge step towards contributing to a 'Clean & Green Planet'. Our efforts are just not complete without the co-operation of any of our valuable customers. By developing into a world leader in waste management industry, SEC aims at providing complete 'Environment and Waste management Solutions' to its customers with unparalleled standards under one roof. We are committed to offer our customers world class products and services with distinctive quality and innovation. With constant endeavor of realizing a beautiful green world, where nature and people exist in harmony, we will do our best in putting the interest of our CUSTOMERS FIRST.

WASTECH Composting Machine is a fully automatic composting machine, which converts all kinds of organic waste into compost within 24 hours in your own building/premises and solves your waste management problems completely. SEC satisfies the 3R Principle : Reduces garbage at source, Recycles organic waste into compost, Reuse compost for garden, plants.

We produce a range of composting solutions for on-site waste reduction in commercial applications. They offer many advantages over other traditional waste management:

Turns food waste to compost in just 24 hours

Reduce garbage volume and disposal costs

Odourless and pest deterrent

Sustainable and socially responsible



WHAT IS WASTECH COMPOSTING MACHINE ?





Applications



HOW SEC COMPOSTING MACHINE WORKS ?

WASTECH uses special microorganisms to decompose all kinds of organic waste into compost within 24 hrs with a volume reduction of 85-90%. The entire process is natural and biological.









WASTECH Composting Machine is a fully automatic and highly compact composting machine which uses special microorganisms to break down and decompose all kinds of organic waste into compost within 24 hrs with a volume reduction of 85-90%. The entire process is natural and biological. Our special microorganisms thrive in high temperature and are effective even in high acidic or salty conditions. The WASTECH Composting Machine has a U-shaped composting tank, with a humidity sensor, heater, mixing blades and an exhaust system.

When organic waste is added to it, moisture is sensed by the humidity sensor, due to which the heater turns ON and the composting tank gets heated. Due to this, the water content in the organic waste is evaporated and it goes out to the atmosphere as water vapor through the exhaust system. As any organic waste contains 70-80% water content, we achieve 70-80% volume reduction at this stage itself.









At the same time, our special microorganisms then decompose the organic waste into compost, and this happens within 24 hours. That's how we achieve 85-90% volume reduction. The process is completely noiseless as there is no crushing or grinding involved. The blades are just for evenly mixing the waste.

WHAT CAN BE COMPOSTED ?

Compostable Organic Waste

			
Fruits or Fruit peels	Fruits or Fruit peels	Poultry, Fish & Meat	Egg & Crab Shell
			
Bakery Food	Fast Food	Meal leftovers	Garden waste

Non-Compostable (prohibited) Waste Material

			
Rubber, Metal & Glass	Cigarettes & Batteries	Big bones	Plastic Bags, Cloth
			
Medicines / Chemical	Hard & Iron objects	Coconut shells & tree branches	Any Inorganic Material

FAQ's



What is WASTECH Composting Machine?

It is a fully automatic composting machine which converts all kinds of organic waste into compost within 24 hours using its special microbes.



Is there any smell?

There is no smell or odor of any sort as it is connected directly to sewage line/storm water drain



Are any harmful gases emitted?

No gases of any sort are emitted as there is aerobic digestion during the whole process i.e. continuous air intake and air outlet



Is any operator needed for machine?

The machine is fully automatic, the waste collector has to just open the waste input door, dump the waste and forget about it.



Do you have bacteria culture every time?

The this machine initially comes with sawdust mixed with special bacteria culture till half level of the composting tank in the machine. The bacteria reproduces continuously during the operation, so there is no need of new addition ever. Also during removal of compost, some portion of it is to be retained in the machine for future composting of waste



Are these bacteria harmful?

Not at all as they grow only in high temperature of 55°C to 85°C. So they do not pose any threat to humans and are free of any pathogens.



Can the compost be used directly in plants?

The compost can be used directly in garden or plants. However, as it is concentrated it should be mixed with soil and used in the proportion of 5:1 ratio (soil : compost).



What if any plastic bag or paper is put in by mistake?

Since there is no crushing or grinding taking place during the operation, no harm will be caused to the compost or the machine. While putting the waste the next day the waste collector can see the bag or paper and remove it easily. However, we recommend strict segregation of compostable & non-compostable items by the users to avoid such instances.



What will happen if any hard or metal object goes into the machine?

By chance if any hard or metal object goes into the machine, it can interfere with the rotating blades and cause them to break. By hard objects we mean coconut shells, big bones or branches of trees and metal objects like steel rods. Even then any inorganic or non-compostable items are strictly prohibited.



Does load shedding affect the operation of machine?

The operating time of Foodie is only 6-12 hrs. Thus, power cuts for few hours would not affect the composting process.





Apple Indore
Hospital & Research Centre



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