smart enviro systems

Advanced Cleaning Equipment Trading L.L.C.

Exclusive Channel Partner of Smart Enviro System in the Middle East.

IT'S TIME TO THINK ABOUT GIVING BACK MORE THAN WHAT WE TAKE FROM THE NATURE

BY DOING SO—WHATEVER YOU WILL SAVE IS YOUR PROFIT

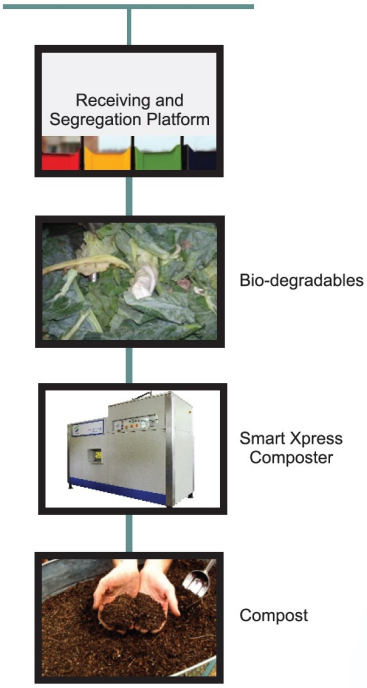
SAVE MONEY— SAVE ENVIRONMENT—SAVE LANDFILL—SAVE PLANET—SAVE RESOURSES

Smart Enviro System is an innovative concept which is designed and developed to effectively address the management of Solid Organic Waste. It has 2 different method with a range of 13 variant of KG/ Day Treatment capacities.

Smart Xpress Composter

A Mechanical Composting is the most efficient and effective mode of solid waste disposal, carried out through a built-in shredder & a cylindrical container. Xpress is developed with the principle of providing complete composting system in a single and compact machine for processing 50 KG up to 500 KG/Day , Xpress Composter has churning system working simultaneously to crush and mix the waste matter so as to cut down on the volume and to achieve faster de-composition. The Xpress composter is also equipped with thermic fluid heating mechanism to indirectly achieve required temperature of 50-55 degree which optimizes the performance on the microorganism and accelerates the composting process in just 24 hours & this compost can directly be used for field applications.

Process Flowchart



Model	Dimension (Meters)	Capacity KG/Day	Power (HP)	Unit Consumption / Day
Xpress-50	2.3 x 1.0 x 1.7	50	5	10
Xpress-100	2.6 x 1.0 x 1.8	100	6	15
Xpress-200	3.6 x 1.3 x 1.9	200	13	22
Xpress-300	3.9 x 1.3 x 2.1	300	18	38
Xpress-500	4.0 x 1.9 x 2.2	500	20	100

We can offer an END –TO—END solution of operating the machine , handling waste and managing compost

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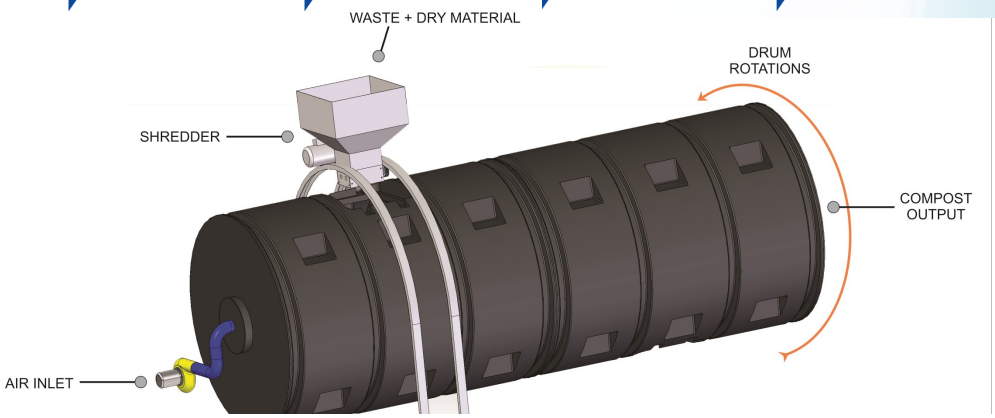
Smart Xpress Drum Composter

The Xpress Drum is designed to process large quantity of waste (up to 2 Ton / Day) by natural process along with economically efficient way of using very less energy to operate.

Only organic and biodegradable segregated waste along with a spoon full of Thermophilic Microorganism is first shredded to reduces volume of material size & maximize surface area available to contact with micro organisms for quick composting. & pushed through a screw conveyer into the drums for curing. Then it is mixed & aerated by air blower which exchanges air from the composting chamber to ensure adequate availability of air is maintained for aerobic composting. Aerobic composting being exothermic reaction generates heat which further helps in removing the moisture by evaporation and renders dry , ready to use organic compost in a few days. The first batch of compost is ready within 10 to 12 days and then on a daily bases as per input. The compost can be off loaded at uniform interval from the discharge end.

Process Flow:

Shredding & input of waste → Addition of dry material → Drum rotations → Air circulation → Compost output



Model	Dimension (Meters)	Capacity KG/Day	Power (HP)	Unit Consumption / Day
Xpress-Drum-250	4.3 x 2.7 x 2.9	250	4	5
Xpress-Drum-375	5.7 x 2.7 x 2.9	375	4	6
Xpress-Drum-500	9.5 x 5.0 x 4.0	500	6	8
Xpress-Drum-600	10.0 x 2.7 x 2.60	600	6	8
Xpress-Drum-750	11.0 x 3.0 x 3.00	750	10	10
Xpress-Drum-1000	12.0 x 5.0 x 4.0	1000	12.5	15
Xpress-Drum-1500	14.5 x 5.0 x 4.0	1500	15	20
Xpress-Drum-2000	17.0 x 5.0 x 4.0	2000	17.5	40

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Salient Features :

- There are various ways of composting but Mechanical Composting produces quality compost AND THIS IS IN JUST 24 HOURS
- A professional integrated Mechanical & Biological Treatment system to get waste converted into wealth (healthy compost)
- The Process : $C_6H_{12}O_2 + O_2 \Rightarrow CO_2 + H_2O$ + New Biomass (Compost)
- Compost can be used as soil conditioner OR organic fertilizer in place of chemical fertilizer
- No environmental impact—No harmful gas— No Leachate
- Save on waste collection and transportation fees, Save on waste storage space & handling equipment
- All the wetted parts are made of SS304 (Xpress Version) & HDPE (For Drum Version) to ensure maximum life
- Proven quality test report of the produced compost by professional lab
- Shredder is efficient to shred meat and chicken leftover including bones , whole coconut & garden waste with branches etc.
- Up to 5 % acceptance of non-organic / non-biodegradable waste
- Emergency shut down switch to avoid OR minimize accidental damages

Some of Esteem Clients out of 100 successful projects in past 2 years

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