



### 24HourCompost v/s Other waste converters

- Complete body including **wet contact parts, structural steel and outer body in SS-304 in our FSS model**. This enables significantly longer lifecycle of the machine. Other manufacturers are providing MS structural steel body which starts rusting within one year due to the nature of wet waste.
- **Inbuilt shredder with 4140 alloy steel blades**. This reduces power consumption and manual labor requirement. Other manufacturers either do not offer inbuilt shredders and those who do offer use EN8 blades which corrode and wear out within 1 year. With other machines separate shredder has to be installed which increases cost, labor and mess leading to pests and odor. **Optional upgrade to Stainless Steel 440C shredder** also available.
- **Optional Auto Jam Clearance** feature in shredder in case any item is stuck between shredder blades.
- Touch screen PLC based automated **Feed & Forget control system** so that no process monitoring is required. Operational log storage feature for future reference. Optional Internet connectivity and monitoring feature for remote areas through Wi-fi/LAN/4G.
- **Dual Feed inlets** through shredder as well as direct feeding. This allows the user to feed items that do not require shredding and for process monitoring.
- **Auto power saving mode** on process completion upon reaching suitable moisture level. Without this feature the waste will burn and turn into an ash like grey powder with zero nutritional value. In house developed **moisture sensors** used to detect the moisture level and display on the HMI.
- **Unique shaft breakage protection feature in our inline gearboxes** instead of chain pulley system for the main agitator to minimize the risk of shaft damage in case hard items like metal stones etc. are fed by mistake. This will enable immediate rectification at site in case of any off chance where incorrect material is fed. Most other waste converters use a Chain pulley based system which are prone to agitator damage and mixing paddle breakage leading to days of repair delay and extremely high repair costs.
- We are using an **insulated jacket heating** system which enables even, safe and maintenance free heating. Most manufacturers are using oil or coil based heating. Oil jacket heating is prone to leakage and there is a significant fire hazard in case of sensor failure. Coil heating leads to spot heating which can cause burnt carbon instead of soil supplement.

	<i>24HourCompost Fully Auto</i>	<b>Other Automatic Recyclers</b>
<b>Size/Area</b>	Lowest footprint to capacity ratio	Larger due to longer process time
<b>Material of Construction</b>	Stainless Steel 304 grade used for entire machine including all wet contact parts, structures and outer shell. No rusting possible	Mild Steel prone to rust within 1 year
<b>In-Built Shredder</b>	Yes. 4140 Alloy/ SS 440C shredder. Optional Auto jam clearance feature. Secondary inlet for direct feeding.	No Shredder provided leading to larger particles. If shredder is provided, MS or EN8 blades are used leading to short term blade degradation.
<b>Power Consumption</b>	Low due to lower process time and shredded waste	Very High due to longer process time
<b>Odour</b>	Complete odour removed by connecting to closed sewer line. Optional Twin Stage deodorizer will remove 90% of the odour if sewage line is not available on site.	Highly Odorous and prone to odour leakage from machine
<b>Conversion Time</b>	Typically 18-24 hours	3-5 days
<b>Heating</b>	Multiple Insulated Jacket heaters envelope the entire base of the tank to provide even heating. Individual jackets can be easily replaced in case of heater failure.	Oil heaters used which are prone to fire hazard in case of temperature sensor failure. In case ceramic band heaters are used, the waste is prone to burning due to spot heating.
<b>End Product</b>	Dry, Earthy Brown, Powdery Ready to use Soil Supplement	Large particles due to lack of shredder.
<b>Volume Reduction</b>	80-90%	80-90%
<b>Maintenance</b>	Maintenance free with unique Shaft protection feature and inbuilt alarms. Easily openable housing for maintenance and cleaning.	Prone to high repair costs due to regular shaft bending/breakage do to chain pulley mechanism
<b>Internet Connectivity</b>	Optional online monitoring system with Web and App access	Not Available
<b>Customization</b>	All models can be customized to suit the customers' requirements	No customization provided
<b>Automatic Weighing System</b>	Optional	Not available with most manufacturers
<b>Rotation Technology</b>	Mechanical Speed reduction to 2 RPM for slow mixing and negligible risk of tank/shaft damage	Rotation at 10-14 RPM leading to regular shaft and tank damage