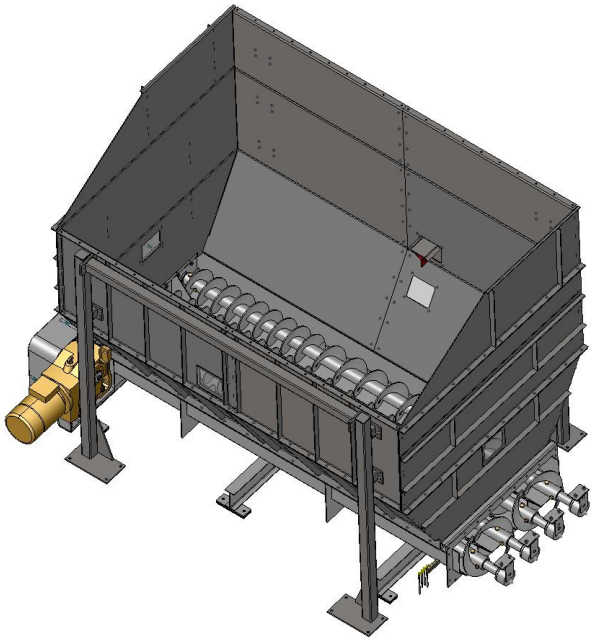
EcoBin



- **Feeding System for a wide range of alternative (secondary) fuel material**
- **Modular construction**
- **Ground level installation, no pits or extensive civil work required**
- **Symmetrical design for ease of assembly and setup**
- **16 cubic meter Stationary Bin capacity**
- **Rigid external support structure with vertical adjustment**
- **Viewing windows to observe operation**
- **Simple, Safe and environmentally friendly design**

Application

The EcoBin is designed to convey alternative (secondary) fuels such as wood chips, shredded tires and auto fluff. The live bottom discharges material from the hopper above using four 300mm (12") diameter progressive pitched screws. The system is designed to be used in conjunction with a conveyor that is coupled to the live bottom via a side bolt flange.

The robust structural design allows for use with almost all materials in most environments.

When used with variable frequency drives (recommended) the auger screws speed can be adjusted to accommodate different feed rates.

Equipment

The system is designed completely symmetrical to eliminate any right or left hand configurations. The system can be mounted on either side of the conveyor.

The four auger screws have a variable pitch design to achieve optimal mass flow from the hopper. The screws are chain driven, powered by two 10 H.P. gearmotors with a series of sprockets and pulleys.

The 16m³ meter bin is intended to be filled using a front end loader. Material is to be loaded into the bin until it is visible above the front edge. Once the bin is near empty, a low level switch will be triggered signalling a refill.

Functions

This design is intended to be cost effective with minimal maintenance required.

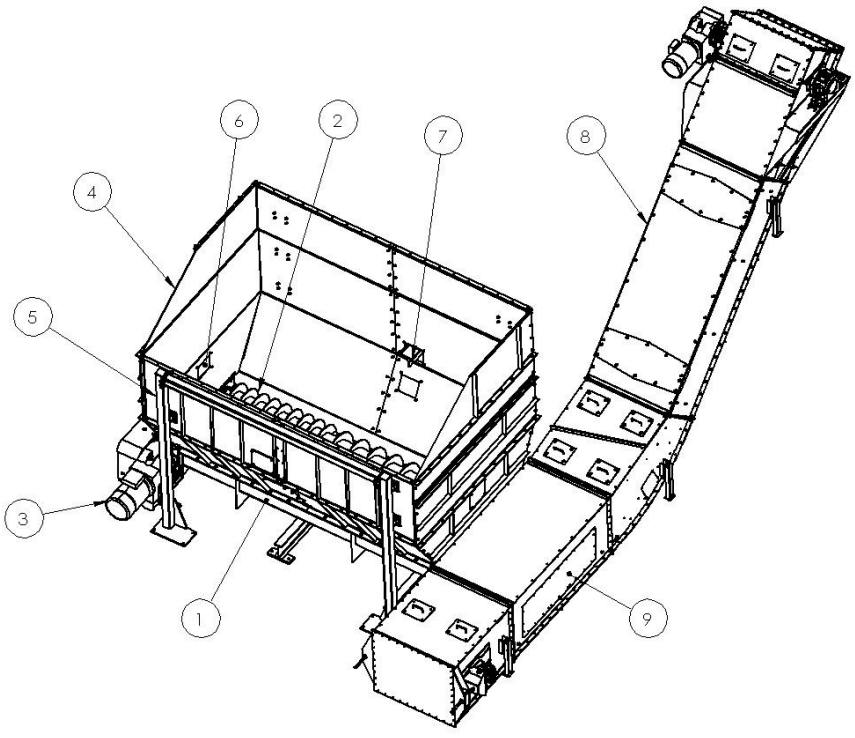
For potential future applications, the modular design allows for the stationary bin to be removed from the live bottom and replaced with a Schenck Process supplied docking station, converting it to an EcoDock.

Technical Data

EcoBin		
	Metric units	Imperial units
Material	Alternative (secondary) Fuel	Alternative (secondary) Fuel
Granularity Range	0-100mm	0-4"
Material Density Range	0.1 - 0.5 t/m³	6.2 – 31.2 lbs/ft³
Unloading Capacity	15 t/hour (per side)	33,000 lbs/hour (per side)
Stationary Bin Capacity	16 cubic meters	565 cubic feet
Material Moisture content	Max. 20%	Max. 20%
Auger Screw Drive (three-phase motor)	(2) 7.5 Kw.	(2) 10 H.P.
Temperature	Max. 80° C	Max. 176° F

System Components

1. Live Bottom weldment
2. Live Bottom auger screw (4 per system)
3. 10 H.P. gear motor (2 per system)
4. Stationary Bin – 16 cubic meter capacity
5. External support structure
6. Viewing window
7. Level indicator switch
8. Conveyor (not included with system)
9. Conveyor inlet opening (both sides)



Note: Conveyor shown as reference only – not included with system

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