

The Hybag System Tutto:

Hybag Tutto is the world's leading and patented processing system for organic recyclable materials, such as kitchen waste, raw organic residues, defective batches from industry, goods from major distributors with expired expiration dates, open and raw, in plastic packaging, tubes or cans, packaged or unpackaged. We supply tailor-made systems with tipping bodies, bunkers, conveyor systems and the globally patented Separations hammer mill.

Description of the process flow

Types of waste



Leftovers



Setup waste



Layered food

Collection systems



Press containers



Container 120 / 240 Lt.

Hybag Processing Plant



Processed material



Impurities



High-quality substrate

Description of the individual components:

Collection of recyclable materials:

The organic recyclables are delivered and collected in a hydraulic tipping body or in a bunker and conveyed for further processing by means of built-in screw conveyors.

Hydraulic tipping trough, Lifting and lowering is done by means of a hydraulic unit.

Connected loads: Hydraulic unit 5.5 kW / Conveyor element 1.5 kW

Skip and screw conveyor painted in stainless steel

V2A frame RAL

Capacity 16 - 35 m³



Hydraulic tipping trough



Hydraulic unit



Recyclables in the skip

Custom-made bunkers, made of stainless steel V2A

Conveying of recyclable materials with integrated screw conveyors / 4 kW



Bunker with 1 auger

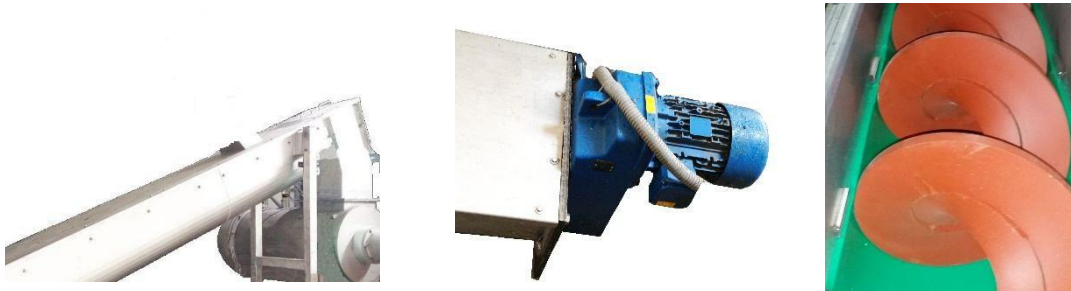


Mixing bunker with 2 screws

Conveying recyclable materials by means of screw conveyors:

The conveyor element transports the organic recyclables into the patented Hybag Separations hammer mill. On the conveyor channel there is a centrifugal blower with a capacity of 4,000 cm³/h, which helps to increase the selectivity. The screw conveyor is driven by a geared motor with frequency converter, and is speed-controlled, depending on the current consumption of the hammer mill motor. Conveyor element made of stainless steel V2A with sealed transitions, wear inserts made of Robalon **RCH 1000** to reduce wear of the screw conveyor and safety transition piece on the hammer mill.

Connected loads: Geared motor 2.2 kW



Processing recyclable materials with the patented NW500 / NW600 / NW800 hammer mills:

For the processing of organic recyclable materials such as kitchen waste, raw or cooked, market waste and stored food in plastic packaging, nets, tubes or cans, etc. The recyclable materials are smashed in the patented Separations hammer mill and separated as biomass and foreign materials.

With the patented 6.5 mm hole double screen basket, the substrate meets the compost standard with less than 1% foreign matter and a particle size of 3 -6 mm.

Hammer mill housing in V2A stainless steel. Service opening with quick release.

Double strainer basket: Material Hardox hole size standard 6.5 mm.

Other sizes available on request.

Motors: NW500/30kW NW600/37 or NW800/55kW

Throughput capacity: Depending on the input material with **perforated basket**

ø6.5 mm: Packaged recyclables up to 8 t/h, unpackaged recyclables up to 12 t/h

Motors: NW500/30kW NW600/37 or NW800/55kW

Throughput: Depending on the input material with **perforated basket ø6.5 mm:**

Packaged recyclables up to 8 t/h, Unpackaged recyclables up to 12 t/h



Conveying of the substrate (biomass):

With the conveyor system, the homogeneous substrate is conveyed by means of a conveyor pump or compressed air system in intermediate tanks for further processing.

In the **compressed air system**, the substrate is collected in a pressure vessel, controlled by sliders when the maximum level is reached and conveyed by compressed air. Pressure vessel in stainless steel V2A, pressure certified. Working pressure 6 bar. (Slider)



The **throat auger pump** is connected to the hammer mill with a transition hopper. A level probe monitors the fill level and controls the pump when the maximum fill level is reached.

Available in stainless steel V2A or painted steel.

Available in stainless steel V2A or painted steel.

Back pressure 3-6 bar and flow rates 15-25m³/h.



Conveyor element for contaminant discharge:

Impurities such as cutlery, plastic, sheet metal, and other impurities are separated and conveyed into a separate container.

The screw conveyor is driven by a geared motor.

Conveyor element with sealed transition to the Hammer mill.

Conveyor channel made of stainless steel V2A, with wear inserts Robalon **RCH 1000** to reduce wear of the screw conveyor.

Connected loads: Geared motor 1.5 kW



Control and control unit:

The control unit is used to monitor and operate the entire system in automatic or manual mode.

Housing painted in V2A stainless steel or steel.

Manufactured and programmed, ready to plug in according to the applicable country-specific legal requirements.

Manufactured and programmed, ready to plug in according to the applicable country-specific legal requirements.

