

M MACHINEX

Experience Results

ORGANIC TREATMENT SCALING UP THE PROCESS



Extracting valuable materials while removing contaminants

At Machinex, we offer various turnkey treatment solutions to remove contaminants from organic material thus creating a high quality final product. Our equipment & knowledge enhance well-known organic processes such as anaerobic digestion, composting treatment, and fuel preparation from organic material.

COLLECTION MODE – INPUT MATERIAL

Source Separated Organics (SSO)



Municipal Solid Waste (MSW) MBT



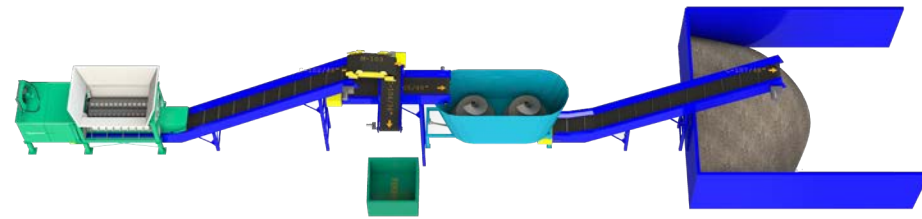
Co-Collection



STEP

1

ORGANIC EXTRACTION



Bag Opener



- Opens bags without reducing the size of contaminants
- Reduces size organic fraction

Organic Extrusion Press



- Extracts organics from dirty mixed waste stream
- Removes coarse fraction

Screen



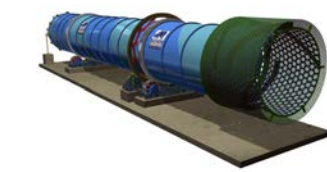
- Separates material according to size thus improving the efficiency for further cleaning
- Removes oversized items

Depackager



- Separates organic material from packaging
- Extracts package from organic stream

Organic extraction Drum



- Accelerates composting process
- Facilitates the segregation of organic from MSW

Optical Sorter for Co-Collection



- Removes colored bagged SSO in a Co-Collection stream
- High tonnage capacity

ADDITIONAL ORGANIC POLISHING BEFORE STEP 2

FOR WET ANAEROBIC DIGESTION (AD)

Grit Trap



- Extracts floating particles
- Extracts heavy particles

Others



- Hydrocyclones can be used to further clean the biopulpe
- Grit cleaner

FOR COMPOSTING

Mixer



- Mixes organics and/or digestate with bulky agent

STEP

2

ORGANIC TREATMENT PROCESS

ANAEROBIC DIGESTION (AD)

Dry AD



Wet AD



COMPOSTING

Conventional



- With ASP
- Without ASP

BioReactor



- Reduces footprint
- Adjusts temperature inside to control decomposition process
- Limits vermin attraction
- Facilitates odor control

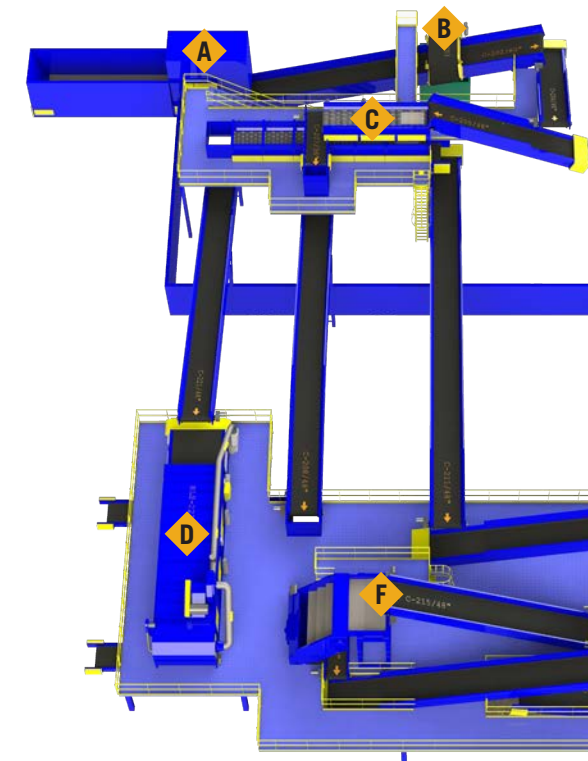
Automated



- Reduces footprint
- Reduces fuel consumption

COMPOST OR DIGESTATE

- A** Metering device
- B** Magnet
- C** Preliminary screen (trommel or discs)
- D** Bulky (structural agent) cleaning
- E** Secondary screen (trommel or mats)
- F** Hard particle separation



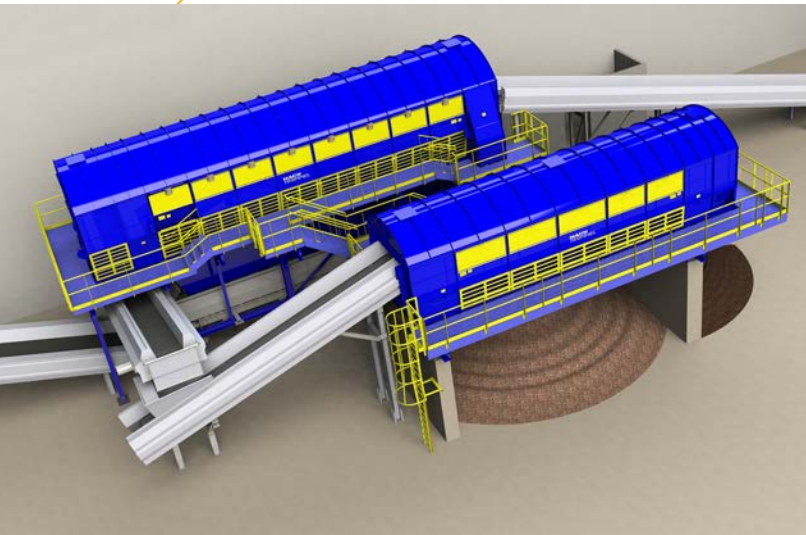
STEP

3

ORGANIC REFINEMENT

ORGANIC TREATMENT WITH STANDALONE EQUIPMENT

Machinex designs efficient and robust machinery that can be integrated as standalone equipment such as Trommels, Heavy-light Separators, Zig Zag Separators, Conveyors and more.



TROMMELS



HEAVY-LIGHT SEPARATORS

SORTING TECHNOLOGIES EXPERT

Machinex is an industry leader in engineering, manufacturing, and installing Material Recovery Facilities all around the world. As an expert in sorting technologies, Machinex provides turnkey systems, along with custom-built and flexible solutions, to help ensure our customers remain ahead of the competition.

Dedicated Service and Support

Service and support are paramount to overall operating success. In fact, having a single source just a phone call away is critical to ensure maximum plant uptime. Once your Machinex equipment is installed, our service & support team will be ready to assist you. They are 100% dedicated to the optimization of operations and are there to serve you!