

Municipal and Solid Waste Processing Systems

UNITEL is a leading manufacturer of Materials Handling Systems and various types of conveyors used in Municipal Solid Waste recycling installations. Conveyors and Sorting Stations are integrated with a range of specialized equipment and subsystems obtained from world leading manufacturers, based on customer requirements such as:

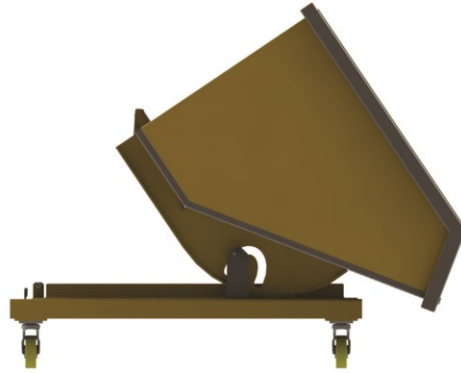
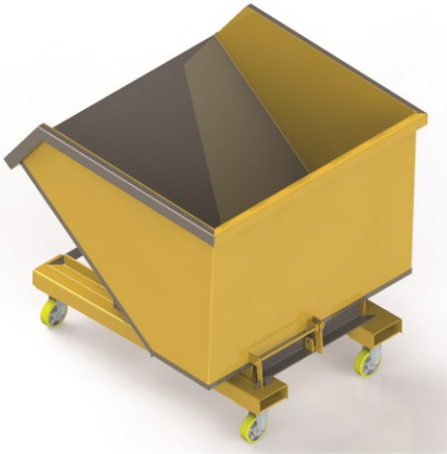
- Bag Breakers
- Shredders
- Magnetic Separators
- Eddie Current Separators for non-ferrous metals
- Trommels
- Rotating Inclined Disks and Screens
- Bale Presses
- Etc...

Our design team will work with you to build and supply your MSW processing system best suited to your particular mix of solid wastes.

Tipping Skips

Various sizes of tipping skips are also available from UNITEL for handling sorted items within the plant.

The dynamically balanced tips are designed for heavy duty service, with robust castors and wheels and the containers are dynamically balanced for ease of operation by one operator.



**MATERIAL
HANDLING SYSTEMS**

UNITEL
يونيتل

Municipal and Solid Waste Processing Systems منظومة تداول المخلفات البلدية والصلبة



مكتب القاهرة : برج القانونيين كورنيش المعادى
تليفون : ٠٢/٢٥٢٦٦٣٣٣
فاكس : ٠٢/٢٥٢٦٤٨٨٨

مدينة برج العرب الجديدة - المنطقة الصناعية الثانية
يونيتل/ مدخل ٢ شارع ٣- مدخل ٢ شارع ٥
تليفون : ٠٣/٤٦٢٦٣٩٢-٤٦٢٤٠٢٥-٤٦٢٤٤٢٤-٤٦٢٦٢٢٣
فاكس : ٠٣/٤٦٢٤٢٩١



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Block Diagram

A typical Single Stream Municipal Waste Management facility will typically consist of a receiving area where large items are separated.

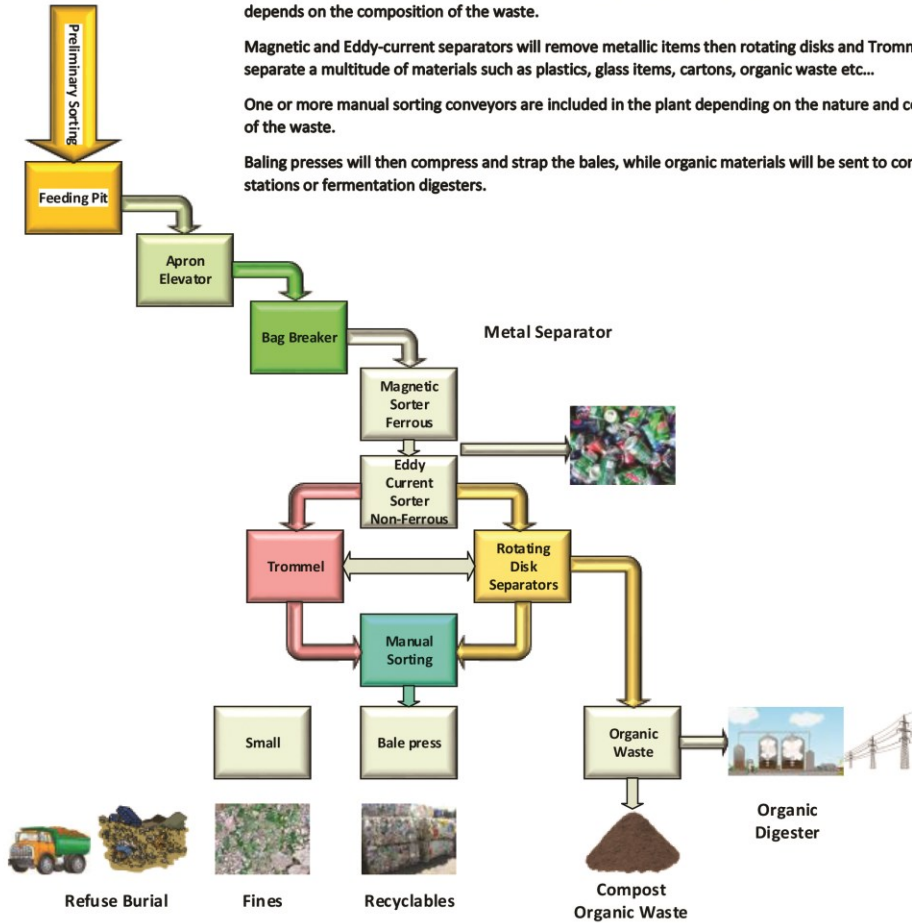
A bobcat or grabber crane will place large quantities of waste in a pit or bunker where it will be elevated to the processing plant while bag-breakers will release the items packed in plastic bags.

There the waste materials will undergo several sorting and processing steps. The sequence of processes depends on the composition of the waste.

Magnetic and Eddy-current separators will remove metallic items then rotating disks and Trommels will separate a multitude of materials such as plastics, glass items, cartons, organic waste etc...

One or more manual sorting conveyors are included in the plant depending on the nature and composition of the waste.

Baling presses will then compress and strap the bales, while organic materials will be sent to composting stations or fermentation digesters.

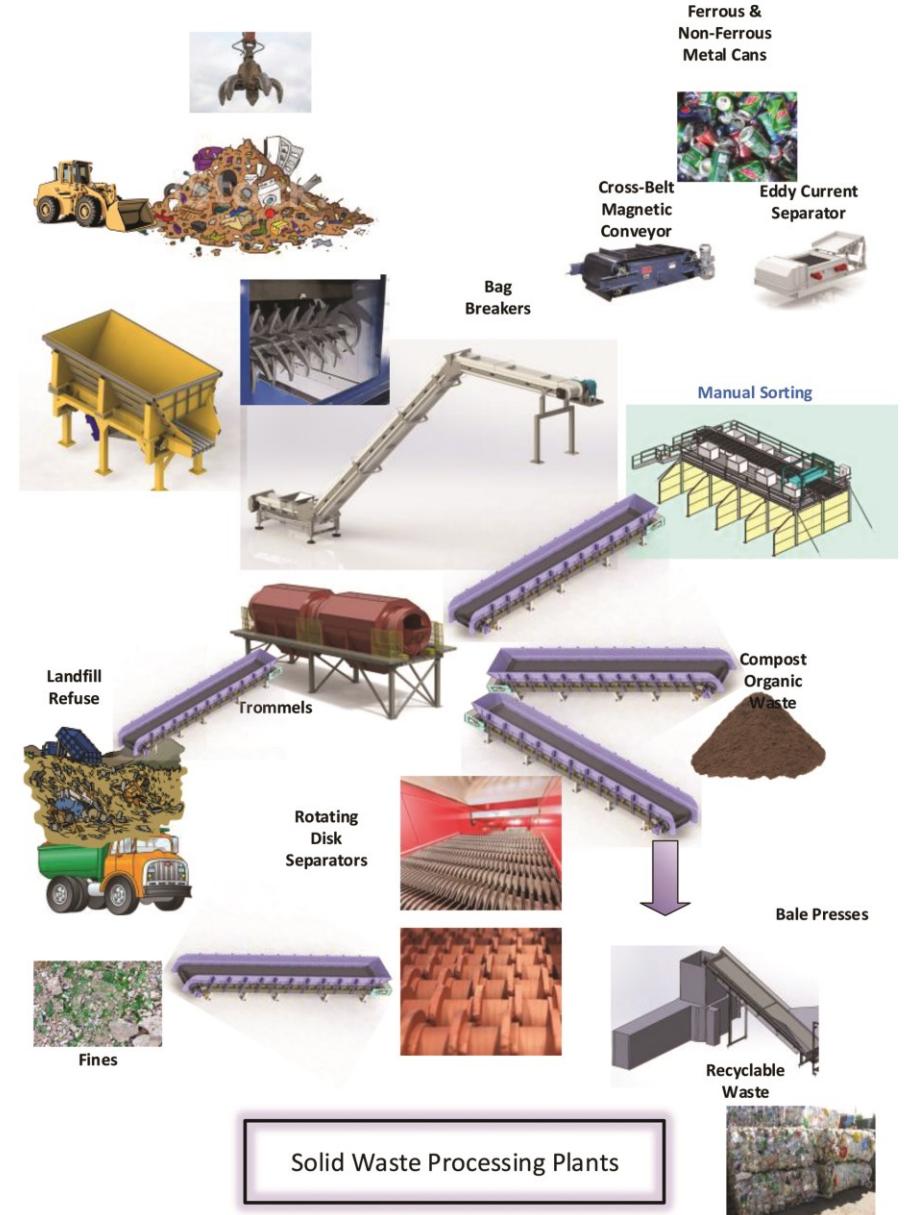


Solid Waste Single Stream Waste Processing Systems

Schematic of Solid Waste management Plant

The schematic is a graphical representation of a typical solid waste management system.

UNITEL will design complete systems for waste management by customizing system components and integrating them with our specially designed conveyors and sorting stations.



Solid Waste Processing Plants