



ECOSOL SYSTEM

WASTE MANAGEMENT



ECOSOL SYSTEM

TECHNOLOGY
INNOVATION
RSU MANAGEMENT

The Ecosol system is a project based on three pillars, **collection, compaction and pocketing**. It is an alternative to the traditional collection methods which brings significant benefits to the collection of urban solid wastes, especially for municipalities far from landfills.

COLLECTION

The Ecosol Solution designs to meet the most varied type of wastes, whether Class IIA - non-inert, as organic garbage and pet bottles, or the ones from Class IIB - inerts, as wood, polystyrene, rubbers, aluminum cans, and glass. Therefore, Ecosol also makes possible the collection of recyclable wastes together with the usual collection until being possible to implement the Selective Collection.

RECYCLING BANK

From the pocketing, it is possible to create Recycling banks which are transitory points where the collected waste is pocketed and stored temporarily without damaging the environment until the time to be transported to the final destination. The Recycling banks are strategically spread on the collection route to optimize it, rendering the collection more productive with low investments.

COMPACTION

With the high compaction provided by the equipment, the volume of the waste is highly reduced, and a high percentage of liquid can be extracted and stored in an appropriate place for later treatment or re-profiting in any process.

POCKETING


Pocketing is a more versatile option in the view of other ways of known storage because it allows the residue after being pocketed to minimize the environmental impacts, immediately eliminating the inadequate waste disposal.



Minimizes the existing environmental liabilities



Re-use of the areas for disposal


Temporary or definitive stock


Transfer optimization



Transport optimization



Prevents the increase of humidity in the waste



Reduces the fraction of liquids present in the solid wastes



Meets the national solid waste policy


Reduction and simplification of drainage


Maximization, cleanliness, and organization of the area


Traceability


Flow controller


Elimination of vectors and odors

DIFFERENTIALS:

Due to the importance of the correct residue packaging, Ecosol focused on creating an innovative management system, prioritizing:



CONTROL

Flow stabilization; Traceability; Monitoring; Autonomy.



PROTECTION

Safety; Insulation; Health.



ORGANIZATION

Cleanliness; Stock; Storage: Temporary or Definitive; Destination options.



The Ecosol system comprises an Ecotruck and some auxiliary equipment that allow the moving and optimization of the pocketing process.



Direct the camera of your mobile or the QR-Code reader for further information.

ECOTRUCK 4.0

The Ecotruck is a vehicular pocketeer which allows to collect and give a destination to the wastes. It has a high-compaction system that significantly reduces the volume, besides insulating the wastes from the environment by encapsulating them.



INNOVATION



POCKETING

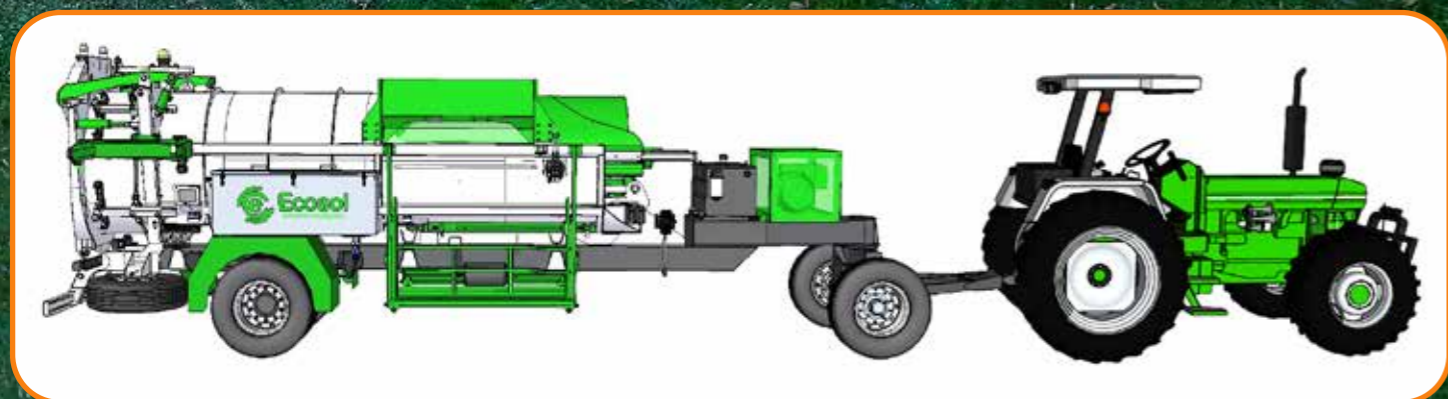


SUSTAINABILITY



ECOTRAC 4.0

A version of the "Ecotruck" trailered by a tractor for works in local stations or hard-access places (off-road).

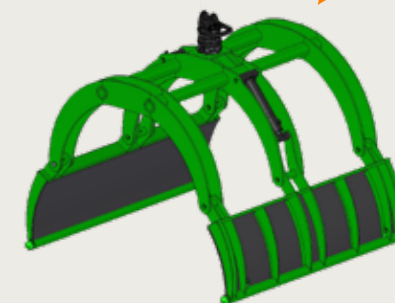


AUXILIARY EQUIPMENT



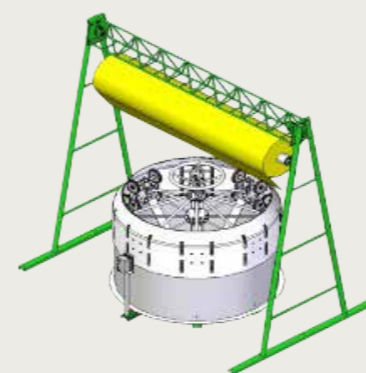
ECOCRANE 47.0 5H0M ADAPTIVE CRANE FOR HYDRAULIC CLAW

Versatile equipment for works of bags moving. It is manufactured with high-strength material and state-of-art technology, providing more safety and productivity.



ECOHAND 4.0 HYDRAULIC CLAW

Equipment destined to ensure the moving and organization of the bags according to need and area of the project.



ECOFOLD 2.0 AND ECORING SYSTEM FOR QUICK REFILL REPLACEMENT WITH REFILL HOLDER

It is a mechanism to accommodate and allow a faster replacement of the bags. It accommodates the plastic refill in a receptacle for refilling in the compactor, becoming a fast-replacement system ideal for a county with a high generation of solid wastes.

OPTIONAL

CIRCULAR ECONOMY



For other scenarios, consult ECOSOL.



For implementing any system, solid residue management must share between managers and society as a whole.

1 SEPARATION

Conscientious industries, commerce, and homes separate dry and wet waste.

2 PROGRAM

Voluntary delivery points (VDP) in schools, whereabouts students, from Environmental Education onwards, start delivering recyclable waste to the school, becoming agents of cultural change.

3 COLLECTION WITH A POKETER

Specialized collection of wet waste and mixed with an innovative equipment.

4 RECYCLING BANKS

It allows creating Recycling banks that are transfer stations strategically spread in the collection route.

5 STORAGE

With the storage, it is possible to give a temporary or definitive destination for the pocketing waste.

6 RELATED TECHNOLOGY

Intended to close the economy cycle, it arises transformation alternatives of wastes to energy.

7 GRINDING / DRYING

With the grinder and dryer unit, it is possible to transform the wastes to Refused Derived Fuel - RDF.

8 RDF

It applies by industry in ovens in place of non-renewable energy and can be stored for future processes.

9 POKETING

It acts as a flow stabilizer in the different stages of the process.

10 GASIFICATION

It is an alternative that generates syngas for electrical power production.

11 PYROLYSIS

It is an alternative of fuel generation, as the Biooil and the Biochar.

12 POWER MARKET

The waste transformed through Grinding/ Drying, Gasification, Pyrolysis, among other technologies, can be returned to the industry, commerce, and homes, thus serving the cycle of the circular economy.

3' SELECTIVE COLLECTION

Collection of recyclable materials.

4' SORTING

Allows the separation of value-added materials.

5' RECYCLABLE MATERIALS MARKET

It allows the materials to return to the production chain.



Direct the camera of your mobile or the QR-Code reader for further information.



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