

COMSPAIN

COMPANÍA DE MANUTENCIONES ESPECIALES ESPAÑA, S.A.



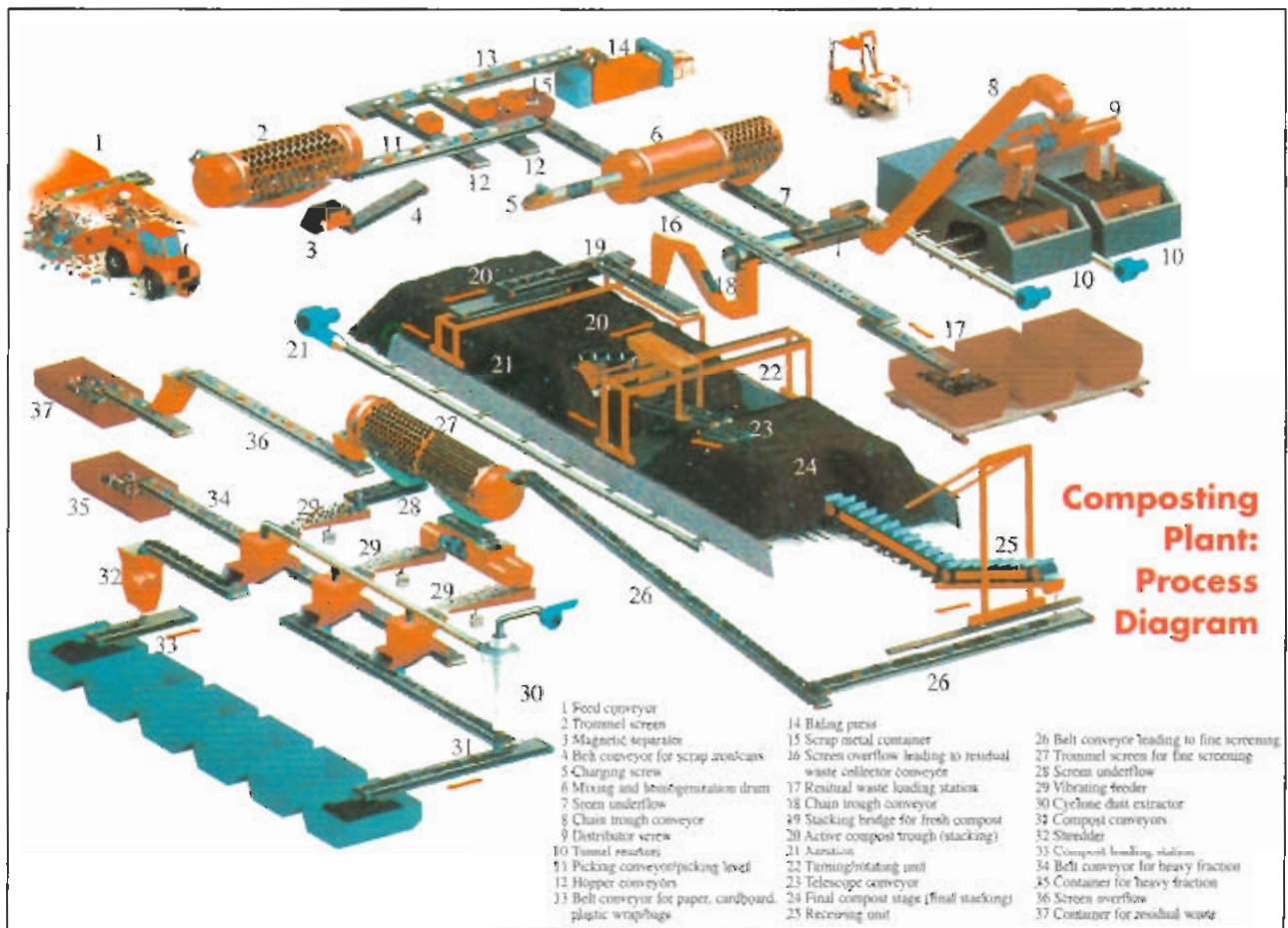
ECOLOGICAL
INDUSTRIAL EQUIPMENT

The Environment

The care of the environment is a current concern and industry must adapt itself to it.

In the field of Urban Solid Waste treatment, COMSPAIN offers a wide range of solutions with the latest technology.

Urban Solid Waste treatment plants provide the best solutions to the environmental problems created by wastes, in addition to reducing the space taken up by the current waste dumps, and making the best recycled.

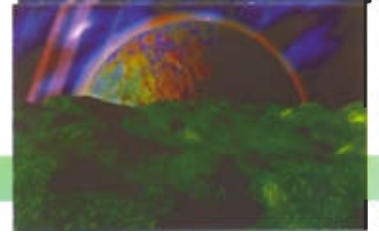


RANGE OF EQUIPMENT

- Trommels of separation and refinement
- Vibrating plates and screw feeders
- Dryers and pasteurizers
- Bucket-wheel scratchers and transfer decks

- Mills
- Crane for the Hall Reception
- Belts
- Magnetic Separators
- Densimetric tables
- Induction Separators
- Presses, compactors
- Packing systems





Automatic Fermentation - KOCH ESPAÑA Compost Plant
Valdemingómez Plant, Customer: Dragados Madrid, (SPAIN)

**ELEMENTAL AND DETOILED
ENGINEERING, MANUFACTURING
AND CONTROL,
MOUNTING, STARTING UP,
PROJECT MANAGEMENT,
CLIENT SERVICE,
FINANCING**

SPAIN

ROTARY TROMELS

Tromels which, in a Urban Solid Waste treatment plant, are used for:

- SEPARATION OF ORGANIC MATERIAL
- REFINING OF COMPOST
- SEPARATION OF METALS
- BREAKING OF BAGS
- SEPARATION OF "YELLOW BAGS" CONTENTS

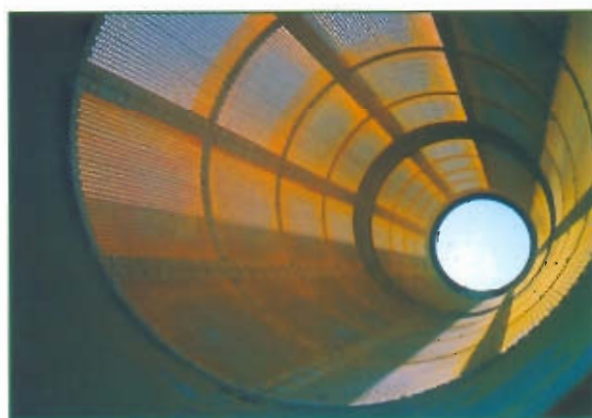


- Production: from 8 t/h to 40 t/h
- Material: antiwearing steel
- Cut: circular (15 mm - 250 mm) and rectangular
- Power: to 100 kw

Inlet shell

In this type of equipment, COMSPAIN'S technology has the following characteristics:

- ROLLING OVER REINFORCED BLIND SHELLS
- HEAVY WHEELS COVERED BY HIGH RESISTENT POLYURETHANE (PUSHES, TEMPERATURE, FICTIONS, CORROSION, ETC.)
- AXIAL CONTENTION SYSTEM WITH MECHANIZED RING
- EASILY REPLACEABLE ANTI WEARING STEEL PLATES
- ANTI OVERFLOW DIAPHRAGMS FOR THE PRODUCT
- HOPPERS OF PASSANT AND REJECTION EVACUATION
- LABERYNTH CLOSURES
- SUPPORT STRUCTURE AND WALKWAYS



Clasification tromel



Refining tromel



DRYING DRUMS

We analyze the drying process considering:

- The Reduction of the percentage of moisture in the waste prior to its incineration
- The Pasteurization treatment for the complete elimination of bacteria resulting in a sanitary/hygienic separation



Slurries dryer

Other components of the drying equipment are::

- Heating system by drying gases (fuel, natural gas, propane gas, motors, turbines, etc.)
- Closed or hermetic
- Heat-Linning
- Fans and extractors
- Cyclones for fines removing
- Ring gear-pinion drive



Organics dryer

FEEDING

COMSPAIN offers a wide range of equipment designed to assure the correct feeding of the product in the different treatment steps.

We analyze your problem considering flow requirements, dimensions, power, **particle size**, etc. Our department provides:

- **Plates feeders:** built in antiwearing steel with chain and slipping transport syste.
- **Vibrating feeders:** the vibration technique allows us to resolve difficult feedings, providing a orderly and homogeneous feeding of the product.



The suspension flexibility allows a minimal use of energy. Besides, the vibrating part is completely rigid.

M.S.W. Screen (Villafranca del Penedés)



Plates feeder

- **Vibrant screens:** with one several sifting surfaces, these vibrate acording to diagram multi plane whose form, direction and size are adopted to the treated products. **They are designed** for no vibration reaches the floor.
- **Endless screw feeders.**



Compost park



OTHER EQUIPMENT

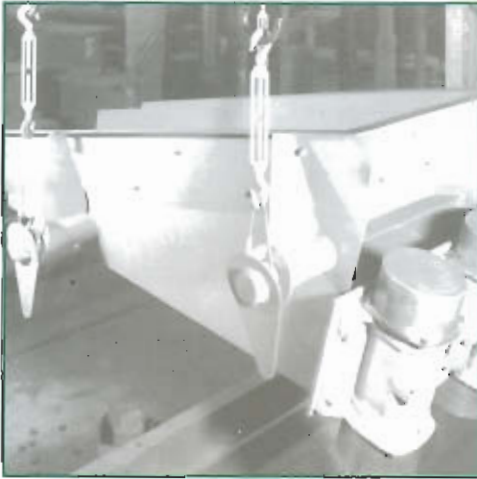
To complement the previous systems, COMSPAIN incorporates to its process a variety of auxiliary equipment such as:

- Densimetric tables
- Belt conveyors
- Endless screw feeders
- Ballistic separators
- Magnetic separators
- Induction separators
- Mills
- Crushers
- Compactors
- Presses
- Containers
- Packers
- Distributors

Densimetric tables



Vibrating feeder



Magnetic separator



Belts conveyor



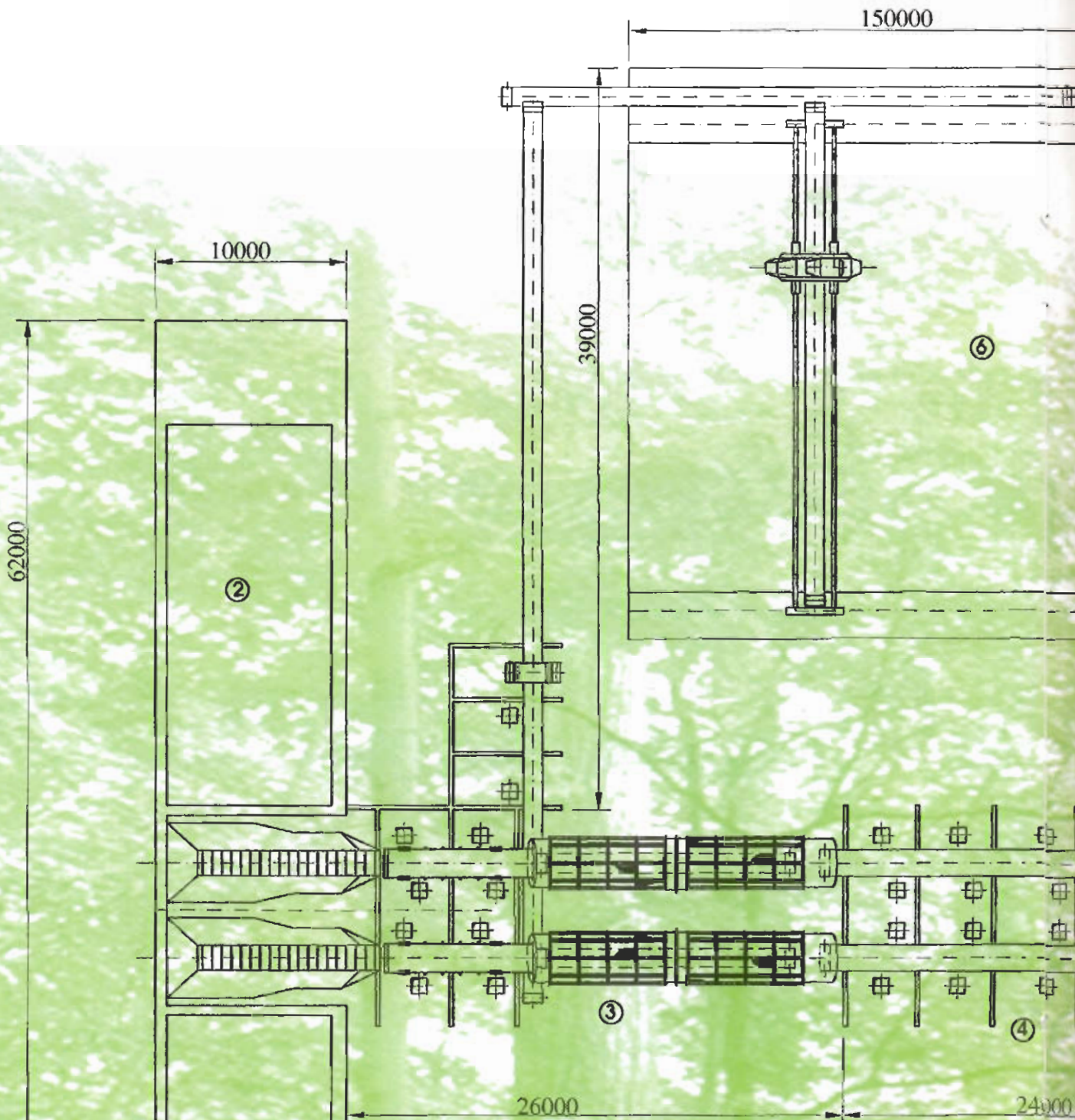
Selection



Final compost



Bales



①

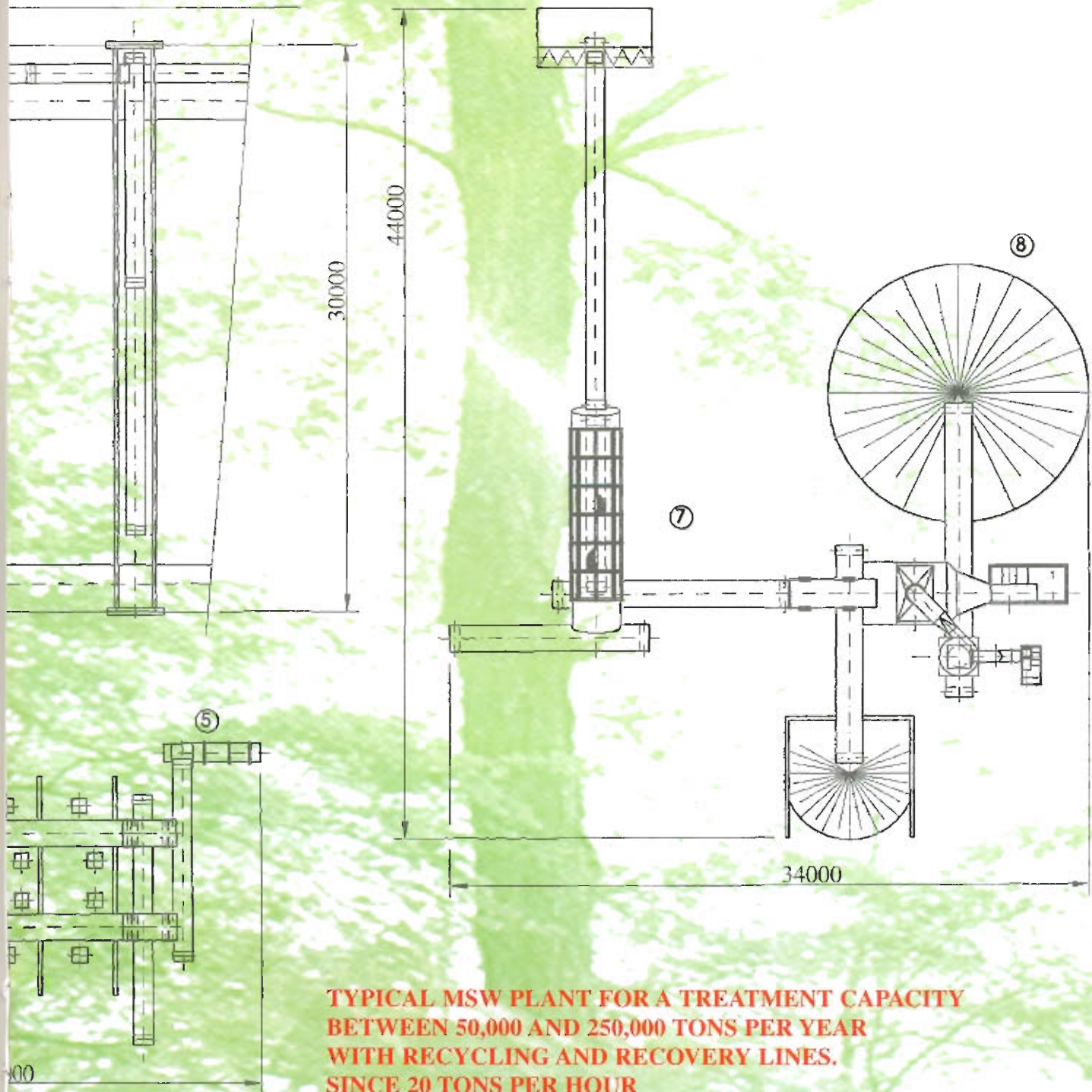
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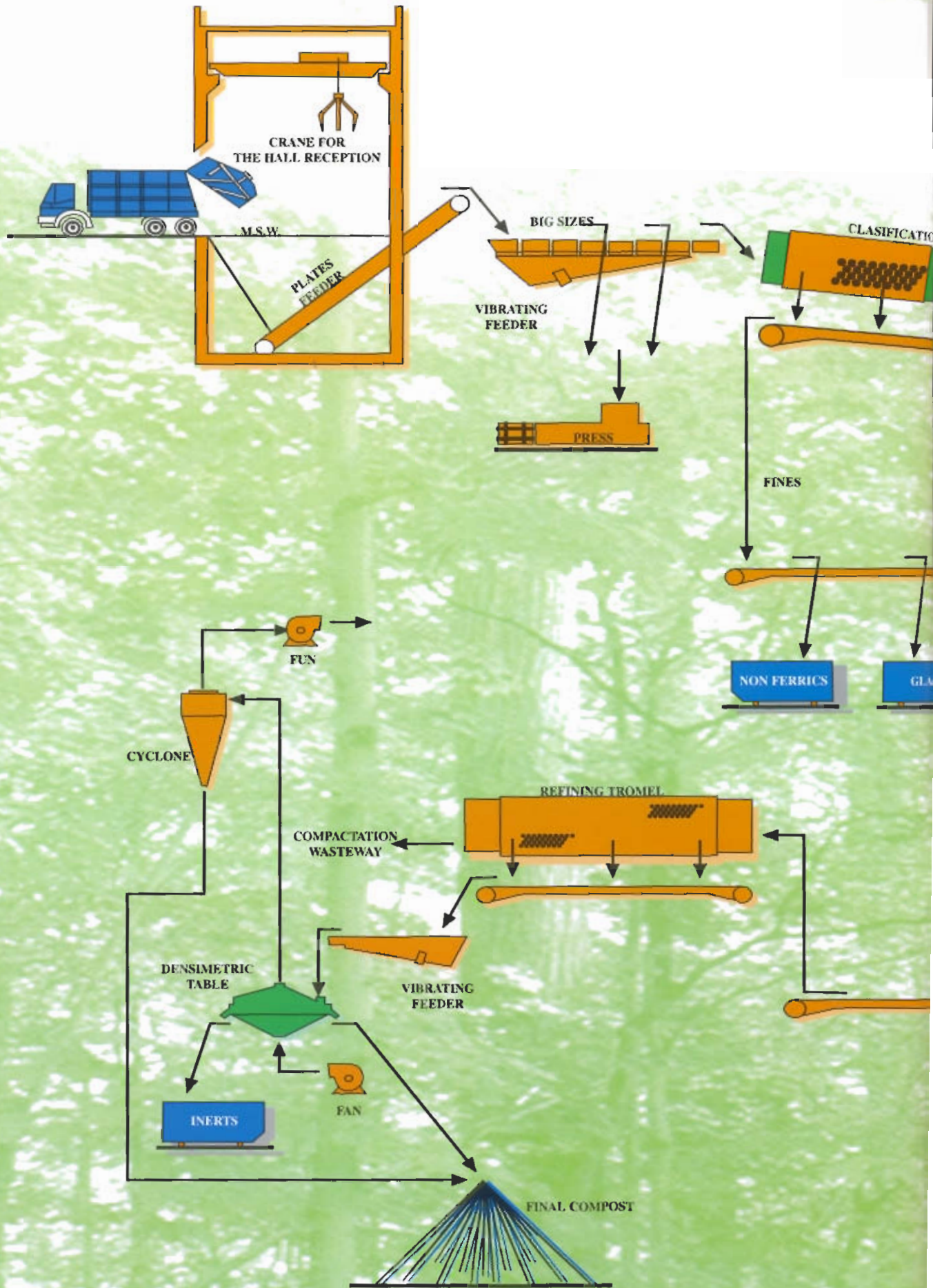
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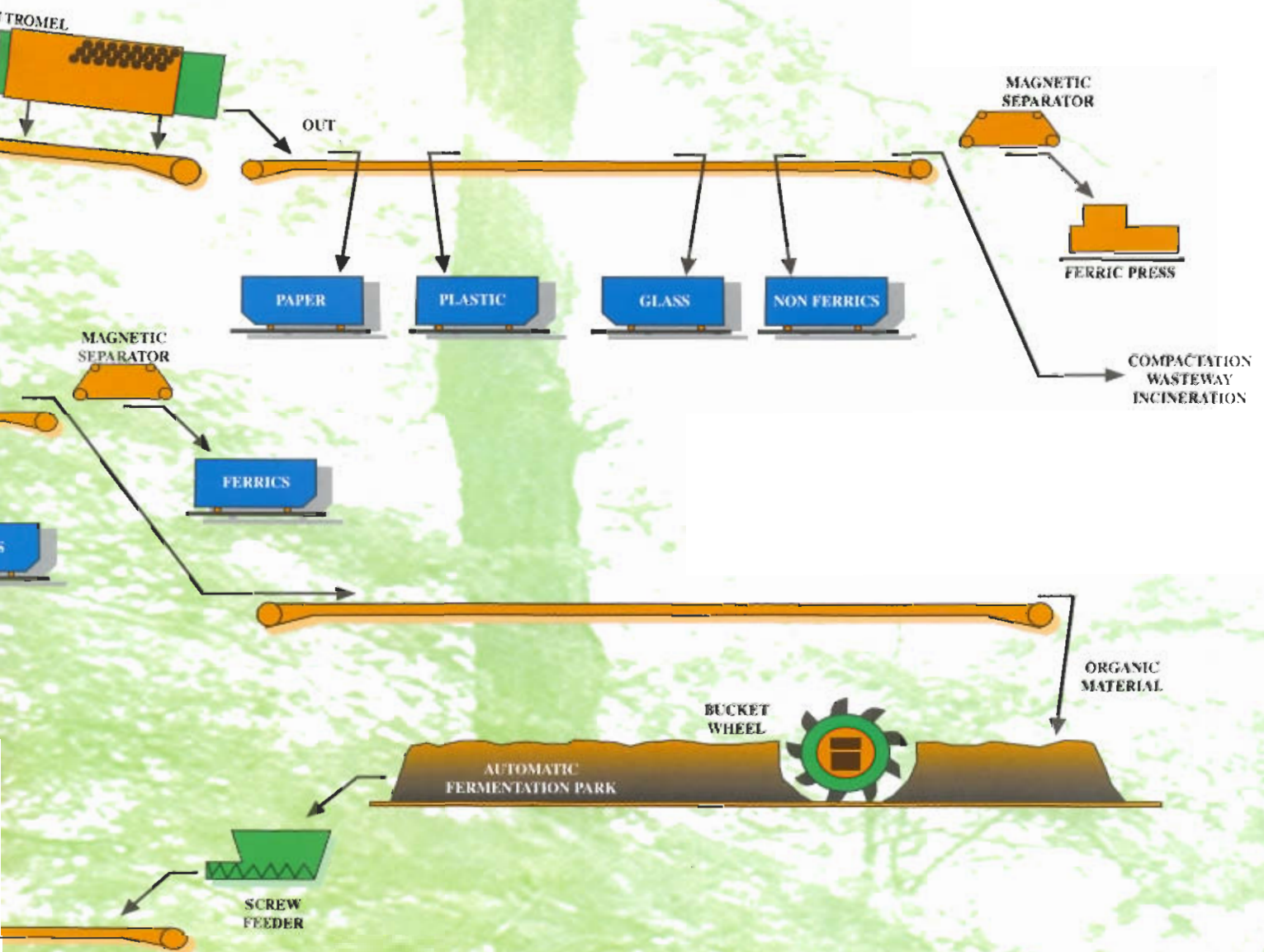
- ① TRUCKS AREA
- ② MSW FEEDING HOPPERS
- ③ RECYCLING AREA
- ④ HAND SELECTION AREA
- ⑤ METALS PRESSES
- ⑥ AUTOMATIC FERMENTATION PARK
- ⑦ REFINING AREA
- ⑧ FINAL REFINED COMPOST



Municipal solid waste treatment plant

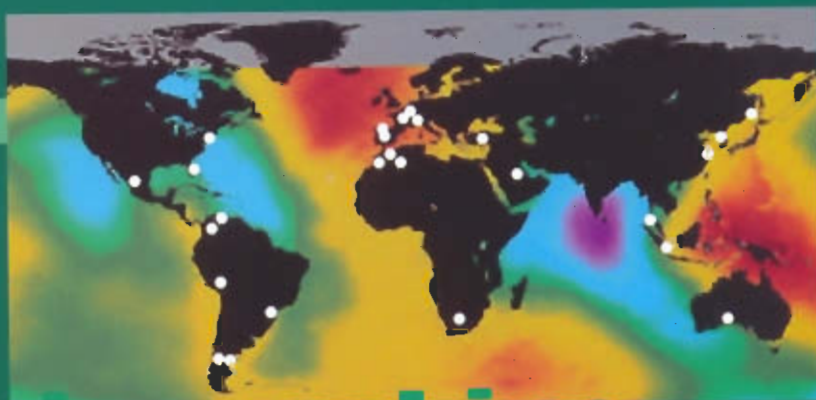
Main lay-out





Municipal Solid Waste Treatment Plant *Flow Diagram*

COMSPAIN



COMSPAIN is working all over the world

(Affiliates, Representatives and Associated Companies)



COMPañIA DE MANUTENCIONES
ESPECIALES ESPAÑA, S.A.
COMSPAIN

HEAD OFFICE

Bravo Murillo, 23
28015 MADRID (España)
Tel: + (34) 91 448 99 55*
Fax: + (34) 91 447 54 77 / 91 447 31 39

MANUFACTURING DEPARTMENT

Polígono Lezama-Leguzamón
C/Araba • Echevarri VIZCAYA (España)
Tel: + (34) 94 440 44 50
Fax: + (34) 94 440 09 50

E-mail: comspain@comspain.com
Web adress: <http://www.comspain.com>