

# UNDERGROUND CONTAINER SYSTEM

## HYDRAULIC REAR LOADING



Our underground container system involves locating urban waste containers under public streets with the aim of bringing innovation, variety and efficiency to the city environment and especially to urban waste collection technologies. Furthermore, this initiative helps create more space on public streets.

At Contenur we offer our clients a wide range of underground container systems which are suitable for use with the various lifting and emptying mechanisms on the market. Solutions designed to facilitate the efficient depositing, storage and emptying of all types of waste. Classic solutions applied to an innovative use

of plastic materials, bringing a fresh new design and approach to the urban environment, without compromising the inherent functionality and robustness of CONTENUR products.

CONTENUR has pioneered the use of plastic in underground container systems by incorporating polyethylene in the design of the openings and tanks, thus obtaining excellent results in resistance and durability, in addition to achieving a noticeable improvement in the product's appearance.

**CONTENUR**



# UNDERGROUND CONTAINER SYSTEM

## HYDRAULIC REAR LOADING



**Milenium**



**Europa**

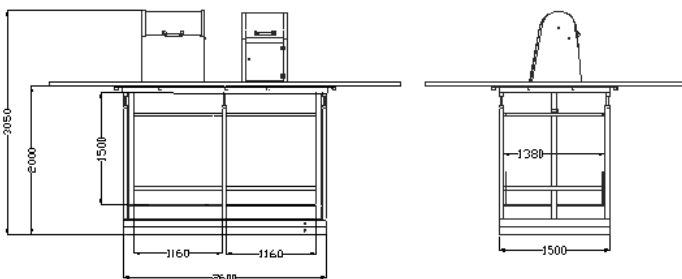


**Espamecat**

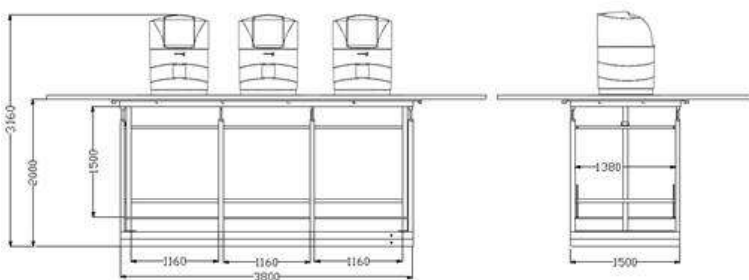
Disposal columns	Material	Drum capacity	Height	Type of waste
Milenium	polyethylene	80 litres	1110 mm	glass, paper, packaging, organic
Europa	polyethylene	80 litres	1043 mm	glass, paper, packaging, organic
Espamecat	metal	75 litres	870 mm	glass, paper, packaging, organic

### GENERAL SPECIFICATIONS

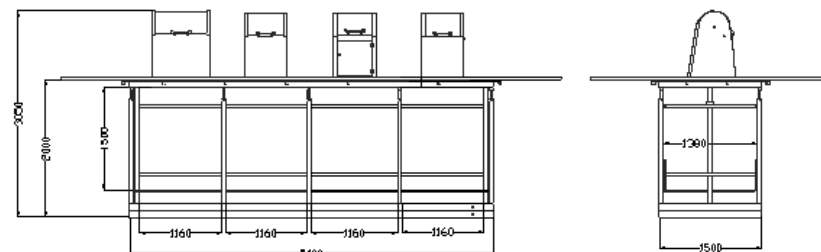
- Metal or high-density polyethylene disposal columns with plenty of space for customisation.
- Accessible to all.
- Optional access control and fill control systems.
- The pigments used to manufacture the components are free of heavy metals.
- 2, 3 or 4 column platforms.
- Upper platform with paved or checker plate finish.
- Lifting equipment:
  - remote controlled.
  - collection vehicle power take-off.
- Installation in prefabricated concrete pit.
- Equipped with rear loading containers.



**2 COLUMN HYDRAULIC PLATFORM**



**3 COLUMN HYDRAULIC PLATFORM**



**4 COLUMN HYDRAULIC PLATFORM**

## HYDRAULIC REAR LOADING

Container parts:

### DISPOSAL COLUMNS

#### **Polyethylene**

Manufactured in 10 mm thick LHDPE with matt textured finish.  
80 l drum, stainless steel fabrication.

Customisation:

- Millenium Disposal Column 175 x 175 mm
- Europa Disposal Column 175 x 175 mm

#### **Metal**

Made from 3mm thick steel plate, hot dip galvanised with anti-graffiti paint.  
Available in a wide range of colours.  
Designed with plenty of space for customisation.  
75 l drum, stainless steel fabrication.

**LIFTING ASSEMBLY** comprising:

**Walk-on upper platform** constructed in the form of a tray to enable the application of a rubber surface or a finish similar to the surrounding pavement. 4.5cm thick so 2.5 or 3 cm slabs can be used. It is advisable to finish the capping over the pavement with a 2% slope to prevent water ingress into the pit.  
It can be supplied in hot-dip galvanised designed to prevent ingress of rainwater once the column is fitted.

**Upper frame** finishing at the pavement comprising an assembly of 80 mm sections, 3 mm in thickness.

**Hydraulic and electrical assembly** comprising:

Hydraulic cylinders with an ultimate strength of 52 to 62 kg/mm<sup>2</sup> and an elastic limit of at least 34 kg/mm<sup>2</sup>.

Hydraulic centre designed to feed the hydraulic installation for which it has been designed.

It is made up of the tank, manufactured from sheet metal with a flat surface and a sight gauge to monitor the maximum and minimum levels of hydraulic oil - comes with drain plug on the underside.

Electrical enclosure manufactured from polyester to give it a high level of corrosion resistance.

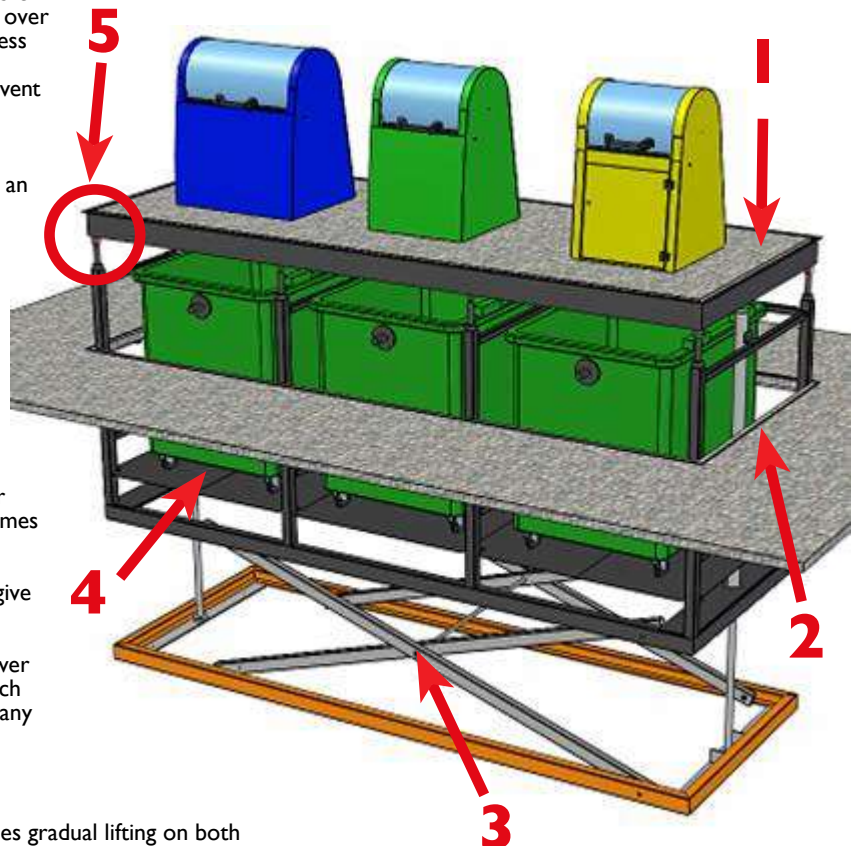
**Gradient compensators** - both the upper and lower platform are fitted with individual compensators which are capable of absorbing up to 6% street gradient in any direction.

**Lower platform** made of galvanised sheet steel

**Scissor lift** - the structural component which enables gradual lifting on both sides of the platform.

**The lower frame** fixes the container structure to the concrete prefabrication.

- 1 WALK-ON PLATFORM**
- 2 UPPER FRAME**
- 3 SCISSOR LIFT**
- 4 LOWER PLATFORM**
- 5 GRADIENT COMPENSATORS**



## HYDRAULIC REAR LOADING

### Civil work recommended for correct installation (\*)

- Pit excavation: The pit excavation must be larger than the dimensions of the concrete prefabrication.
- Concrete levelling base: a concrete base is laid in the bottom of the pit for level adjustment purposes, to a thickness of at least 100 mm.

The concrete used to manufacture the casing is to be treated with waterproof additives.

- Insertion of the concrete casing inside the pit and equipment installation.
- Peripheral capping: Once the equipment has been installed, the backfilling, compacting and finishing required for the surface of the pavement are to proceed.

Technical specifications of the concrete casing:

- Strength: 35N/mm<sup>2</sup>.
- Constructed from a single piece of HA350 reinforced concrete.
- Reinforced with B500S steel mesh.
- Central well for draining liquids.
- Fitted with unloading hooks for handling.
- Standards applied: UNE 83-313-90; UNE 83-301-91; UNE 83-303-84; UNE 83-304-84.

Concrete prefabrication	Side 1 mm	Side 2 mm	Height mm	Weight kg
2 container unit	2940	1840	1920	7000
3 container unit	4140	1840	1920	9000
4 container unit	5440	1840	1920	11000

### Recommended maintenance

- containers and disposal columns:
  - Cleaning with compressed air in the containers and columns.
  - Washing with detergent and water at high pressure in the containers and columns.
  - Disinfection in the containers and columns.
  - Extraction of water and leachates.
  - Checking disposal column for correct operation.
  - Replacement of defective parts.
  - For metal columns: checking columns for condition of paint and repainting any areas as necessary.
- mechanism:
  - Check guide system clearances.
  - Grease guide system rollers.
- hydraulic system:
  - Check oil levels, state of pistons, mounting, valves and adjustment.
- electrical system:
  - Check the electrical connection, circuit breaker, antenna signal, signalling system and safety sensors.

### Certificates and Declarations of Conformity

Certified Quality Management System in accordance with Standard UNE EN ISO 9001, for the design and manufacture of plastic containers and marketing of items of street furniture and urban waste units.

Certified Environmental Management System in accordance with Standard UNE EN ISO 14001, for the design and manufacture of plastic containers and marketing of items of street furniture and urban waste units.

All the equipment complies with the standards referred to in Directive 98/37/EC of the European Parliament and of the Council, on the construction and marketing of machinery, as well as the essential requirements for health and safety relative to the design and manufacture of machinery and safety components.

(\*) The recommendations in this document are non-binding. A team of qualified experts must carry out the necessary civil work to install the underground container equipment. Contenur S.L. cannot be held liable for any personal injury or material damage caused by incorrect installation or improper use of the materials installed.