SMART UNDERGROUND WASTE SYSTEM

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YAAS
Smart Underground Waste System

SMART UNDERGROUND WASTE SYSTEM

Our Side-Loading Smart Underground Waste System consists of two concrete chambers: one large and one small.

The smaller chamber (Power Chamber) houses the hydraulic and electronic power units and remote-control receiver that operate the system. One Power Chamber can be configured to operate up to four adjacent systems.

The larger chamber contains a 3.2 m3 plastic waste container and a vertically moving mechanical platform anchored to the concrete structure. When required, the system can also be adapted for rear-loading collection.

INNOVATIONS BUILT INTO THE SYSTEM

NEW-GENERATION SIDE-LOADING SYSTEM

Our system can be opened, emptied and returned to its closed, ready-to-use position in 80-90 seconds by remote control, without the driver leaving the cab.

Unlike conventional rear-loading systems, no two operators need to ride on the back of the vehicle, reducing stop time to as little as one-fifth.

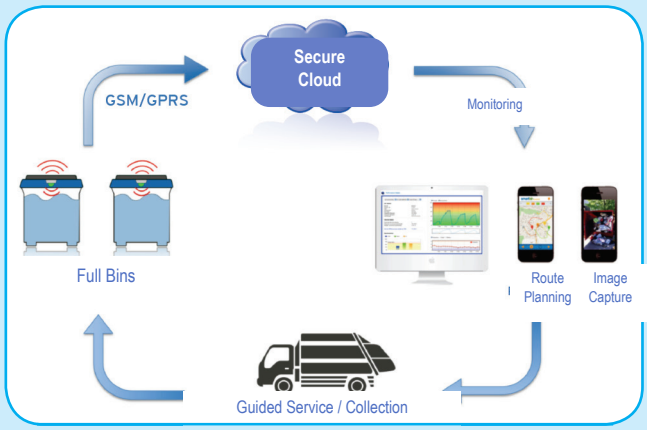
Unlike crane-based systems, the collection vehicle requires no stabilizers and no overhead clearance for a boom. It avoids telephone and power lines, and prevents contaminated leachate from spilling while the container is pulled into the truck.

SMART WASTE SYSTEM

Smart sensors installed in each unit send daily reports to the control center on fill levels, last collection time and ambient temperature. The software identifies which containers should be emptied and plots the shortest route on a digital map, including estimated fuel use, collected weight and labor cost. Reports are available by SMS, email or the system website.

This enables one employee to manage the entire collection network, visit only full containers, and save both time and fuel.







ACCESSIBILITY SYSTEMS

For users with visual impairments, an audible alert sounds from the moment the lid begins moving until it is fully closed and ready for use.

For users with hearing impairments, a warning light remains on throughout the same cycle.

SAFETY

Potentially explosive materials are isolated in thick-walled underground concrete chambers, making the system a safer choice for busy public areas.

Because stray animals cannot enter the system, both the environment and animal health are protected.

ECO-FRIENDLY

By placing all waste below ground and isolating it, the system keeps odors, bacteria, disease and other unwanted effects away from neighborhoods.

The street-furniture-style inlets are made from stainless steel and HDPE. They are completely safe for people and animals and pose no short- or long-term health risk.

TRAFFIC-FRIENDLY

By cutting collection time to seconds and preventing queues behind the truck, the system reduces traffic disruption and makes a meaningful improvement to daily life.



PROMOTES RECYCLING

The specially designed rotary waste inlet prevents valuable recyclable materials from being removed from the container, helping them reach the recycling stream.

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