Mini tilting tank of the *Officine Pilla* was designed and built for the collection and transport of waste in small municipalities and historic centers in areas that are difficult to access.

The container has a capacity from **3 to 4 m³** and has been designed to allow the transfer of waste into compactors or fixed stations; made entirely of **S255J** and / or **S355J** steel sheet (or on request in stainless steel Aisi304, Hardox 450, Strenx 700 or in Peralluman Aluminum).

The **structure** of the tank is completely **electro-welded** with **continuous wire**.

On the right side of the tank there is a door equipped with a hinge, locking hooks and rubber flaps; the tank is raised by two **double-acting hydraulic jacks** which allow the body to tilt by approximately **90 °**, in order to transfer the received goods into compactors with universal or free-dump type mouths.

The vehicle's stability on the ground during unloading is ensured by **two double-acting hydraulic cylinders** which act as stabilizers. They are *activated automatically* before the start of the lifting of the tank and retract during the descent of the same.

The **basic version** (steel tank) is supplied as standard with a new edition '19 rotating bin vault for 80/120/240/360 liter containers.

In the **Plus version** (aluminum tank) it is supplied with Barracuda vertical lift container vault for 80/120/240/360 Lt. containers.

Mini vasca ribaltabile

MODEL	Mini vasca tipping
CAPACITY	from 3 to 4 m³
VEHICLE	Porter Piaggio NP6 single wheel or twin wheel, Giotti Victoria

(in base of the request of a client, also can be built on other vehicles where it's possible making it)

On request it is possible to add:

the **barrel vault** model Barracuda 2 (with double rack) with completely vertical ascent, particularly suitable for emptying wet waste.

The **controls** of the equipment are located in the cabin and on the rear right side, push-button panel with commands for hooking the bin and **raising / lowering** the bins.

Rear container applied to the turn bins

Fire extinguisher and fire extinguisher **holder**.

Approved operator **platform**

The standard equipment is completed by a pair of rear mudguards, a pair of rear splash guards, a series of indelible pictograms relating to the operations of use, a use and maintenance manual with coding of spare parts.

On **request**, however, it is possible to make a door on the left side, mount a manual or automatic cover with the PVC sheet and a white rear light for night work, shovel and broom support, toolbox.

The **mini tilting tank** is returned after MCTC testing and is guaranteed for **24 months** from the date of delivery.

After the warranty period, *Officine Pilla* are able to supply spare parts and any other maintenance

The equipment complies with the **Machinery Directive** 2006/42 **CE** and **EN**1501 and subsequent amendments with relative marking.

Built with high quality materials according to production processes subjected to quality controls according to the standards: **UNI EN** ISO 9001: 2015 and the environmental management system is regulated according to the **ISO** 14001: 2015 standards.

Officine Pilla
urban vehicles

Optional:

Mini tilting tank equipment equipped with functions that make it **"MACHINE INDUSTRY 4.0"**
The equipment is equipped with an **M251 PLC** with double Ethernet port, one of which is connected to the modem router *(located in the right box)* for remote connection and the second to the operator panel *(located in the cabin)*. The **PLC** is installed in the control box on the rear right side of the vehicle *(see photo 1)*.

.1

This **PLC** is able to provide a multiplicity of information that can be displayed on the latest generation control panel mod. MAGELIS SCHNEIDER 7.5 "LCD touch screen, (see photo 2)
The data that can be displayed are:
-Tub Ascent / Tub Descent,
-Climb AVC,
- Ascent / descent Rack
- AVC descent,
- Basin in place / Basin raised,
- AVC inside / AVC outside;

ALARMS:
Emergency Stop;
In addition, the working hours of the equipment are counted.

.2
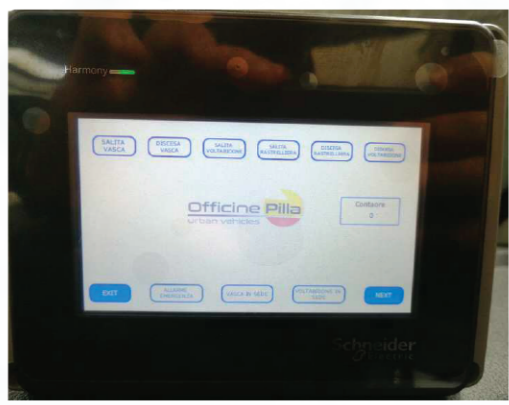
All the data that appear on the operator panel can be extrapolated from the PLC remotely through the Link: IP 10.VPNINSTANCE: ***** / (serial number) .HTM

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this is possible thanks to a RUT240 4G modem router (photo 4) which with a special dedicated SIM allows both the connection and the display of data and information necessary for both remote assistance and software modification.

One of the determining **factors for industry 4.0** is definitely bidirectionality. *Officine Pilla* offers a very clear and precise system. If there is a problem related to the oil temperature or an operator presses an emergency button (located in each corner of the equipment), an email will arrive in the office which will have as its subject the vehicle registration number and the alarm found. On the **web page**, remotely, through the **"emergency stop"** command, it is possible to block the power take-off of the vehicle. Once the operator has unlocked using the **"RESET"** button located in the vehicle cabin, a note (via email) will arrive at the office specifying the consent to restart the operations. *(photo 3)*

.3

The whole device has been designed and observes the MODBUS tpc-ip protocol on ETHERNET and unique IP address.
The router is equipped with WI-FI technology that can be used within the signal coverage range where from your smartphone and / or

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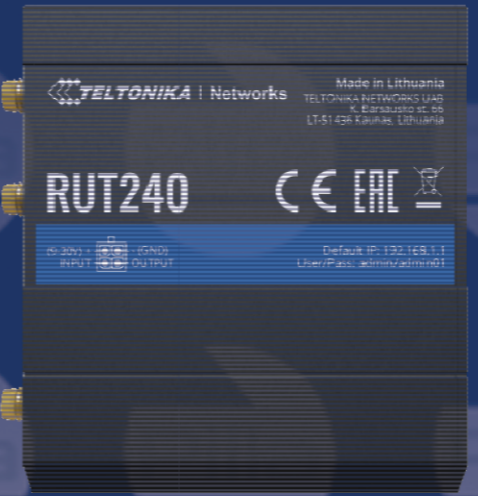
tablet via **IP address**, it is possible to connect and view all data.
It is possible to connect to the wi-fi router through the name **"Pilla ***"** at the following link: 11.11.148. *

5.

The latest generation **magnetic GPS Tracker** *(photo5)* allows not only to know where the vehicle is but also to have a track of the route it has traveled with excellent precision.
It is possible to monitor in real time via the website https://mytkstar.net where you can observe the movements of the GPS Tracker through a map, it is possible to enable some exclusive features such as the Geo-fence, an option that will allow you to track a radius in the map within which your tracker will have to remain, leaving the traced radius you will be notified through a text message or notification. It is possible to perform monitoring in real time through the application compatible with iOS and Android. In order to use the application from a smartphone you must enter some data such as the IMEI and the device password. The IMEI is located on an adhesive plate attached to the magnetic part of the GPS while the default password is 123456 which you can change via the APP or the website as soon as you log in.