



**MODEL  
CAPACITA'  
VEICOLO**

Double Vasca, Press  
from 3 to 10 m<sup>3</sup>  
Porter Piaggio NP6 twin wheel  
Mitsubishi, Iveco, Isuzu  
(ed a richiesta del cliente, anche su altri veicoli  
ove possibile l'allestimento)



**Bi Vasca**, produced by *Officine Pilla*, has been designed and built for the collection and transport of waste in small municipalities and in areas that are difficult to access.

The **two symmetrical containers** have a total capacity from **3 to 10 m<sup>3</sup>** and have been designed to allow the collection of different types of waste at the same time.

The **two caissons** can be configured as two simple open-air caissons, one simple and one with a compacting pallet, or both with a compacting pallet; made entirely of **S255J** and / or **S355J** steel sheet (or on request in Aisi 304 stainless steel or Peralluman aluminum), completely **electro-welded** with **continuous wire**.

On the external side of both tanks there are **doors** equipped with hinges, locking hooks and rubber flaps.

The **front walls** of the tanks are raised above the side walls in order to protect the vehicle cabin.

Lifting of the tanks is given by a **double-acting** hydraulic cylinder which allows the body to **tilt by 90 °**; the vehicle's stability on the ground during unloading is ensured by **two double-acting hydraulic cylinders** that function as stabilizing feet.

In the **standard version**, the equipment is equipped with single split racks for 80/120/240/360 liters bins.

The device works by exploiting **four rotation points** which allows the container to be verticalized up to the top of the tank and then rotated.



**Officine Pilla**  
urban vehicles

The pipes used are of the **zero loss** type, placed in such a way as to be easily inspected, and replaceable with reduced wear.

The **distributors** and **valves** used are positioned in an easily accessible ergonomic area. The **hydraulic circuit** is protected by suitably calibrated maximum pressure valves.

**Implement controls** are located both in the **cab** and on both **rear sides**.



**On request it is possible to mount:**

the barrel vault model Bar-racuda 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 and left side, push-button panel with commands for hooking the bin and

**raising / lowering** the bins. Rear container applied to the bin votes, Automatic pre-clamping of containers, Fire extinguisher and fire extinguisher holder, Approved operator **platform**.

The **double tank** is returned after MCTC testing and guaranteed for **24 months** from the testing date. 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 **EN1501** and subsequent modifications 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 standards **ISO 14001: 2015**

## Optional:

**VASCA DOUBLE** 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).



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:**

Shovel opening, trolley retraction, shovel closing and trolley exit;  
Lowered tank, oversized bins vault, extended stabilizing feet;

### Alarms:

Emergency Stop;  
High temperature hydraulic circuit oil; pressure switch malfunction.

In addition, the data relating to the work cycles are stored:  
Number of shovel and compaction trolley cycles;  
Number of cycles per box;  
Number of unloading cycles.  
The cycles also store up to 20 times the use of the emergency stop buttons.



All the data that appear on the operator panel can be extrapolated from the **PLC** remotely through the Link:

IP 10.VPNINSTANCE: \*\*\*\*\* / WEBVISU.HTM

This is possible thanks to a **RUT240 4G** modem router 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 with the pressure switches or the oil temperature is not sufficiently adequate or an operator presses an emergency button (placed at each corner of the equipment) an email will arrive in the office which will have the vehicle plate as its subject and as noted the alarm found. On the web page, remotely, through the "emergency stop" command, it is possible to block the compaction cycles of the shovel. The operator, after unlocking, using the "start" button located in the plc box (located at the rear of the vehicle), will receive a note to the office (via e-mail) specifying the consent to restart the compaction cycles. (photo 3)



The whole device has been designed and observes the **MODBUS tcp-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



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. \*



The latest generation magnetic **GPS Tracker** (photo4) 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

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<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.

