

BI Vasca



**MODEL
CAPACITY
VEHICLE**

Bi Vasca
from 3 to 8 m³

Porter maxx Piaggio, Isuzu, Mitsubishi, Iveco
(in base of the request of a client, also can be built on other vehicles where it's possible making it)

Officine
urban vehicles





The rear tipping **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 container boxes have a total capacity of 3 to 8 m³ and have been designed to allow the collection of different types of waste at the same time.

The two boxes can be configured as two simple open boxes, one simple and one with a constipation scoop; or both with a constipation scoop; entirely made of S255J and / or S355J Steel sheet (or on request in Aisi 304 stainless steel or Peralluman Aluminum), completely electrowelded with continuous wire.

In the external lateral part of both tanks there are doors equipped with hinges, locking hooks and rubber impact protections. The front walls of the tanks are raised above the side walls in order to protect the vehicle cabin.

Lifting of the tanks by a double-acting hydraulic cylinder which allows the box to overturn by about 90 ° and the stability of the vehicle on the ground when unloading is guaranteed by two double-acting hydraulic cylinders that function as stabilizers.

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

The device works by exploiting four rotation points that allow the container to be verticalized up to the end of its stroke.

The pipes used are of the zero-loss type, placed so as to be easily inspectable, and replaceable with a reduced degree of wear.

The distributors and valves used, are positioned at human height.

Each circuit is protected by an appropriately calibrated overpressure valve.

The equipment controls are located in the cabin, on the rear right side.



Rear Bi-Vasca with footboard



Rised tank of 45° and 90°



The **Bi Vasca** is made after **MCTC** testing and guaranteed for 24 months from the testing date. After the warranty period, the *Officine Pilla*, can be 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** the environmental management system is regulated according to the **ISO 14001: 2015** standards.

OPTIONAL:

Bi Vasca equipment equipped with functions that make it "**INDUSTRIAL MACHINE 4.0**"

The equipment is equipped with an **M251 PLC** with double Ethernet port, one of which is connected to the modem router for remote connection and the second to the operator panel (both located in the cabin). The **PLC** is installed in the compacting control panel located on the right side rear of the vehicle (see photo 1);



photo 2

The **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:

- Blade opening;
- trolley return;
- Blade closing and trolley exit;
- Raised/ Lowered tank;
- Vault bins for out of shape;
- Extended stabilizing feet/ re-entering;
- Oil temperature;
- Hour counter.



photo 1

ALLARMI:

- Emergency Stop;
- High temperature hydraulic circuit oil;
- pressure switches malfunction.

Also, the data relating to the work cycles are stored:

- Number of cycles of shovel and constipation trolley;
- Number of bins turn cycles;
- Number of discharge cycles
- The cycles also store up to 20 times the uses of the Emergency Stop buttons. (see photo 2)



All the data appearing on the operator panel can be extrapolated from the **PLC** remotely by username and password, this is possible thanks to a modem router **RUT230 3G** which with a special dedicated **SIM** it allows both the connection, the visualization of the data and the necessary information and for the remote assistance that modification of the software.

In addition the router is equipped with **W1-F1** technology that can be used within the range of signal coverage where from your smartphone and / or tablet via **IP** address it is possible to connect and display all data. (photo 3)

photo 3

All the equipment has been designed and observes the **MODBUS tpc-ip** protocol on **ETHERNET** and a unique **IP** address.