

MRB

REAR LOADER BIN WASHER MACHINE

GENERAL DESCRIPTION

- The MRB mobile washing unit for Municipal Solid Waste containers is the result of extensive specific industry experience, offering high versatility and low operating costs for the automated washing of bins.
- It is designed in a rear-loading configuration for mounting on 7.5 to 10 t chassis and stands out by providing a complete washing system that effectively covers both the internal and external washing of the bin.

TECHNICAL CHARACTERISTIC

- **Hydraulic system:** draws power from pumps installed on the vehicle's power take-off (PTO). It consists of a high-capacity tank, a heat exchanger, and filters, with safety valves throughout the entire circuit.
- **Electrical system:** managed by an electrical control unit with IP56 protection, which regulates the hydraulic movements. In the cab, a touchscreen panel allows the driver to set washing times and parameters, access configuration menus, and view alarms. A second control panel on the machine is dedicated to ground operators to manage the loading/unloading cycle and washing selection (light/heavy).
- **Water system:** the high-pressure system consists of stainless steel tanks, filters, and a high-pressure pump (48 L/min, 160 bar). Internal washing is managed by two robots equipped with self-rotating heads. External washing is available in 4 different variants with increasing cleaning performance levels.

KEY FEATURES

- The machine is designed in three separate modules (systems compartment, water tank, and washing chamber) to optimize weight distribution and allow for the protected positioning of large components (such as boilers and electrical panels) in the front compartment.
- The closure is achieved via the bin lifter and a short rear tailgate. This solution reduces the rear overhang, preventing water droplets falling from the tailgate from inconveniencing operators at the end of the cycle.
- Solid residue cleaning is facilitated by the full-opening bottom of the chamber (sludge discharge door), with a width equal to the internal width of the chamber itself.
- The manual washing lance, located at the rear of the washing chamber with a 10-meter hose reel, ensures ease of use and allows for machine cleaning at the end of the shift.
- The bin lifter is capable of picking up 2 bins of 120, 240, 360 liters, or 1 bin of 800 and 1100 liters.

