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5M3 MINIPACKER with SHOVEL

1.GENERAL INFORMATION

The Minipacker is a rapid and economic solution in collection garbage. İt Provides a modern, Clean and an innovative appearence for the environment. It has a 100% leakage-proof quality and it is much lighter than the other ones since, in this compactor there is no rear cover system present.

2.SUBFRAME CHASSIS

Steel Thickness	5 mm ST52

Made up of steel spars connected with intermediate crosspieces, it is welded to the body

with continuous wire welding.

It has been designed to withstand considerable loads in relation to the variability of the specific weight of the transported material subjected to compaction of the compression unit.

3. MAIN BODY

Body floor	4mm ST52
Side Walls	3mm ST52
Shovel plate	3 mm ST52

- The structure of the tank is suitably reinforced so as not to allow, over time, the misalignment of the sliding guides of the compacting trolley.

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The perfect watertight seal is guaranteed with totally penetration welds made the flush

continuous to allow the sealing of liquids. Sealing of liquids with front discharge through a valve. The width of the body is compatible for unloading in large capacity vehicles.

TECHNICAL DETAILS

Body Volume	5 m3
Floor	4 mm ST-52
Sides	3 mm ST-52
Chasis	5 mm ST-52
Loading Height	1800 mm (arranged according the chassis height)
Maual Loading Height	1420 mm
Hydraulic specification	
Operation Type	Via automatic button control system mounted side of the body.
Num. of Hydraulic Cylinders	11 units first quality hydraulic cylinder
Compaction Ratio	1:3
Operational Pressure	150-170 bar
Oil Tank	Speacial formed yellow polyuretenane 50-70 lt oil tank.%100 leakage proof, easy maintenance and spare parts changes system.
Operation cycle	24-34 sc.

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Hydraulic Components	Hydraulic components of the minipackers we use like that ***BREVINI*** brand valves Italıan made , ***HANFLEX*** , ***SES*** brand hydraulich hoses Italıan made,other parts of hydraulics are ***OMT and LUEN*** brands.

4.COMPACTION SYSTEM

- The equipment is made with an articulated single-blade compaction system and has 2 units double acting hydraulic cylinders consisting of an upper shovel, sliding bar which slides in a pair of rectilinear guides and a compacting blade hinged to the lower edge of the upper shovel. The compaction system is driven by two pairs of cylinders which is double acting First quality hydraulic cylinder 60 inç diameter. and 25 inç mile diameter precisely a pair that controls the movement of the upper shovel along the guides and the other which controls the rotation movement of the compacting blade around its hinging point. The entire support structure for the compaction system is made in such a way that the waste pressure does not create deformations on the body such as to cause the runners to come out of the guides.

5.LOADING SYSTEM

- The container-lifter system attachement galvanized coated not to getting rusty corrosion in the time. Suitable to longterm usage. Container lifting system is made in compliance with the UNI EN 1501-1 standard: and suitable to lift 120/240/360 lt bins. and bins from 600 to 1,100 lt., arms for boxes with DIN male pin connection.
- Lifting cylinders are equipped with balancing valves to prevent the device from falling if the hydraulic oil pipes break.

6. DISCHARGE SYSTEM

- In larger compactors, the waste discharge takes place by tilting at 90 degrees by means of a double acting hydraulic cylinder. In the evacuation phase, The elevation angle of the tank ensures that the wastes flow into the soil and fall into the soil, especially when the organic fraction collected in a different way is discharged perfectly and quickly.
- In order to achieve stability during the discharge phase and the lifting of the body prevent accidents for safety purposes,

two stabilization feet are activated in advance in a row according to the discharge position, and vice versa for the static position of the tank. the system doesn't allow the tilting of the body before outriggers are activated

The special structure of the tank allows the waste to be discharged directly in the case of direct connection with the compactors at the rear load by simply placing the tank side by side.

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6.HYDRAULIC SYSTEM

- The hydraulic system is actuated by a Power Take Off (PTO) applied to the vehicle gearbox connected to a pump for the operation of the compression circuit and the service circuit.
- Gear oil pump with a maximum pressure of 150-170 bar
- 
- the installation has a Hydraulic oil tank has with sufficient capacity of relative return filter and Visual oil level gauge and shut-off valve for maintenance operations.
- İn the hydraulic system ***Selonoid*** Valve ***Brevini*** brand made in Italy is used all hoses and fittings of oil, are specially protected. Maximum pressure valves that drain the oil when the preset limit pressure is reached. The pumps have flexible pipe sections capable of absorbing vibrations in the delivery line.
- All drainage pipe connections are directly connected to the tank and not connected to the return lines. Safety valves on hydraulic cylinders with lift movement control function.
- The valve on the bottom of the hydraulic oil reservoir, which is easily accessible in case of emergency, is on the ground and is suitable for closing the oil passage if any pipe breaks.
- The rigid and flexible pipes forming the system are accessible during repair operations
- Filtering system: All filters are easily accessible for maintenance.
- Return filter with the same task as cleaning the system

measured and equipped with obstruction indicators. Degree of filtration: 60 micrometer

- Suction filter (with low filtering power), Filtering degree: 100 micrometers.

7.CONTROLS

The internal and external control panels are made in accordance with standards and equipped with visual indication lights for operations in progress.

The main devices are the following:

- Engagement/disengagement of the power take-off
- The emergency stop command is located on both sides of the body and has priority over all other commands,
- Lifting the body is indicated by an indicator light in the cabin and an acoustic signal.
- Buttons and control devices that can be easily activated even with work gloves..In the control system selection switch for the following operations: compaction cycle,manual compaction, synchronized compaction with lifting device.

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8.ELECTRICAL SYSTEM

- Electric control system components brands are **SCHNEIDER** German made , **TELEMAKANIC** German made and **EATON** English made. The system is electric control via pushing button which is on the control boxes mounted on side of the body. manufactured in compliance with the CEI EN 60529 (CEI 70-1) standard on IP 67 protection degrees.The entire electrical system is designed taking into account the environments in which it is installed, the IP protection level is that provided against the entry of solid, liquid and dusty bodies.

9.PRIMING AND FINISHING

- Double epoxy paint of red or gray color without chrome
- Final Coating Acrylic treatments
- Bin lifting attachement and its accessories ai galvanized coated.

10.SAFETY DEVICE

The equipment complies with the UNI EN 1501-1 standard: currently in force and equipped with the CE mark, and a declaration of EC conformity issued in compliance with current regulations.

The various safety devices mounted on the equipment include the following:

1. push buttons and control levers placed in positions that cannot be operated accidentally;
2. control levers in the presence of an operator and appropriately arranged and repaired;
3. instructions for operation and accident prevention regulations placed on the control panel;
4. rotating beacon with a yellow light on the top that is located on the visible and realized position easily.
5. reflective panels on the appropriate points.
6. safety valves on the tank lifting cylinders to prevent the accidental descent in case of pipe breakage;
7. greasing points in correspondence with the hinging points of the body and of the arms of the container, the cylinders, and compression blade;
8. protections for all controls against the operation and accidental damage
9. protections in case of pipe breakage or functional fluid leakage;
10. protection is not allowed the tilting of the body before outriggers are activated.

11.ACCESSORIES

- Reversing buzzer.
- Signaling buzzer for upward and downward movement of the body.
- 1 pcs. work light for illuminating the operating area.
- reflecting highlighters for signaling
- safety devices, stickers, signage and signaling devices