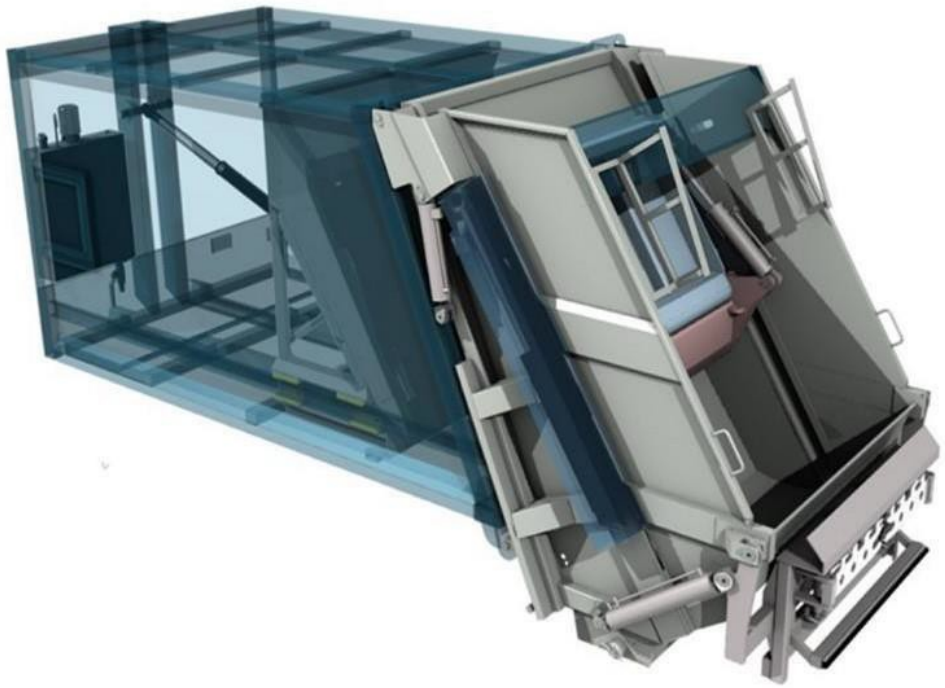
Dmix International

# TECHNICAL SPECIFICATIONS
## Dmix International Rear Compactor 10 $m^3$, mod. D-10

1. GENERAL

Hydraulic rear refuse packer consists of a body with a tailgate with compression mechanism, a push-out plate inside the body, hydraulic installation and control mechanism.



RUNNING TIME*: Compression Cycle: 20-25 sec.

Discharging Time: 25-30 sec.

Compression Ratio: Up to 1:5 depending on nature of garbage

*values are depending on rpm adjustment of truck

CAPACITIES & THICKNESSES

BODY

NET VOLUME: 10 $m^3$

BODY FLOOR: 4 MM. S355J0

BODY SIDE WALLS: 3 MM. S355J0

BODY TOP FLOOR: 4 MM. S355J0

TAILGATE

TAILGATE VOLUME: 1.1 $m^3$ (not WATER VOLUME)

HOPPER PLATE: 5 MM. S355J0

2. BODY

Smooth walls from 3 mm. thickness S355J0 or equivalent material with suitable reinforcements all around.

Front frame with strong beams to stand thrust of hydr.-cylinder for the push-out-plate.

Body will be design for easy removal of leachate generated due to refuse compaction and bottom of body will act like a dirty water tank with outlet equipped with ball valve.

3.EJECTION PLATE

Ejection plate , produced 4 mm. S355J0 main plate , moves in the rails which are welded above from the floor to the inner sides of the body. Ejection plate has easily replaceable poliamid shoes with bolted connection.

Ejection plate moves by means of a double acting telescopic cylinder.

It's kept at the rear of the body when it's empty, and moves automatically to the front by means of a counter pressure valve as the refuse is packed in the tailgate.

4.TAILGATE

Tailgate connected to body with top hinges. The tailgate structure is consist of 1 sledge, 1 shovel, hopper and their cylinders. When garbage is put inside the hopper, with the help of the sledge and shovel this garbage goes into body and compressed with push-out plate. Sledge moves linearly and shovel moves radially to sweep the garbage inside the body, the sledge runs on sliding rails with roller or shoes.

Tailgate Hopper plate produced from 6 mm; S355J0 material quality.

5.HYDRAULIC SYSTEM

Hydraulic power supplied by means of a 62 Lt/min-200 bar capacity (64 lpm at 1500 rpm) system will be adjusted 150-160 bars,hydraulic gear pump is mounted to the PTO on the gearbox of the truck. Capacity of the pump is so chosen that, 20-25 seconds of Compression Cycle is achieved in the tailgate. (depends on RPM adjustment of truck) Hydraulic Oil tank has min. 65 Lt. Capacity with a 125µ suction filter, a 25µ return filter, a venting cover, a level and temperature indicator, a ball valve at the suction line, and a discharge tap.

All piping is made with Cold Rolled, normalised and phosphate coated tubes according to DIN 2391 C Norms.

All the connection are of EO Type and the pressure hoses are according to SAE 100 R2 and suction hose is according to SAE 100 R4.

All the Hydraulic Cylinders are made from honed tubes according to DIN 2391 C Norms and Hard Chrome Plated Rods.

Opening and closing of the tailgate and forward-backward movement of the push-out plate are controlled manually by the two spool directional controlled valve mounted in the right of the body.

The movement of slide and shovel mechanism controlled automatically by a three spool electro hydraulically controlled directional control valve mounted on the tailgate. All the valves used in packer are first class.

6.CONTAINER LIFTING

There is a container lifting system powered two double acting cylinder for one 1.1 $m^3$ – 660lt. standard containers with dome lid opening and two units of plastic containers (2 x 120 lt. or 2 x 240 lt.)

7.OPERATION SYSTEM

PTO controls are located inside of the cab, when the refuse loaded into the hopper at the same time it's pressed into the Body by the slide-shovel mechanism working in sequence.

The operator just pushes a button, the engine is also accelerated automatically during compaction cycle for fast compacting ( depends on RPM adjustment & programming of truck). Working sequence is provided by a printed electronic card, limit and pressure switches and buttons.

The control-box is placed on one side of the tailgate and is completely hermetic.

It's protected by a cover for accidental use.

There're start, stop, emergency, driver signal, and engine accelerating buttons and a switch to choose continious and single cycle compression on the control-box.

When the emergency button is pressed the compression cycle movement reverses and stops at the beginning position.

Each of the movement can also be controlled by levers located on right-side of the tailgate manually in case of any defect in electricity or in special cases.

The refuse is discharged by means of the push-out plate after opening the tailgate.

8.ACCESSORIES

Waste water tank under hopper

Full cover of tailgate Rubber seal between tailgate and body to prevent dirty water leakage.

Security valves on tailgate to prevent sudden fall of tailgate during maintenance and discharging of refuse.

Two safety bars will be given to be put during maintenance.

Steps on both sides of tailgate with hand grips.

Red and White reflecting strips

Washing system with tank 250 litres and pump 150 bar, hose and gun for cleaning.

One Yellow rotating beacon

Lamp for night working

Reverse working buzzer

Side guards where place are suitable

Operating and Spare Parts Manual

9.PAINTING

The body and tailgate are cleaned from any residue, then sand blasting applied. Then primary and epoxy coating and final paint of two layers in White colour.

10.WARRANTY

Products will be under of warranty for one year consisting of bad workmanship and lack of material quality.