



**MOBILE REFUSE COMPACTOR (MRC)**  
Body Volume ranging from 10 to 20 cubic meters



Zenith Mobile Refuse Compactor is designed for transport and handling by lorries equipped with a hook-lift (roll-on roll-off) equipment. The compacting unit and the refuse body are integrated into one structure. The compactor has its own electrically driven hydraulic power system and an operational control system.



Binlifter , custom made to suit a wide range of bins.



It is equipped with a quick-connect bin-lift on wheels that can be mounted on either side of the hopper. The compactor is designed for operation with wet waste and is designed sloping ~4 deg towards the discharge gate complete with drainage ball-valve at the side.

The compaction unit comprises a rectangular hopper and horizontally operating packer plate, equipped with telescoping follow-plates, preventing refuse emptied into the hopper to fall behind the packer plate. The packer plate slides on 2 guide rails on wear resistant steel and is operated by 2 double-acting cylinders, mounted diagonally behind the packer plate, below the follow-plates.

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The curved body side-walls offers the required strength without any rib-stiffeners enhancing the aesthetic and at the same time makes washing easier without too many difficult-to-reach corners. Body is tapered towards the compactor, having a bigger cross-section at tailgate-end, to make discharge easier especially so for paper waste.



The body tailgate can be either operated and locked mechanically or (as an option) hydraulically. For hydraulic operated tailgate, the cylinders are located on both sides of the body rear ends and is fitted with hose-burst valves and the hydraulic power is tapped from the hook-lift system (The tailgate cannot be operated from the compactor control panels). The hydraulically operated tailgate opens to 90 deg to facilitate discharge operation.

The tracks under the body conforms to DIN standards and would be compatible with all European hooklifts.



Note that the hydraulic-operated tailgate permits a 90 deg opening allowing efficient refuse discharge whereas the mechanical tailgate opens to the same tilting-angle of the MRC (typically 42 to 45 deg depending on the length of MRC and the hooklift configuration).



For hydraulically operated tailgate, the hydraulic supply is tapped from the hooklift system through the quick-couplings as shown. Option for mechanical tailgate locking.



The tailgate hydraulic system incorporated with a pilot operated check-valve to prevent the tailgate from accidental lowering.



Hydraulically locked tailgate, with a dual-latch linkage offers an almost perfect seal to prevent leakage of slurry water especially during transit.

The tailgate hydraulic system also incorporated a hose-burst valve to prevent tailgate from falling in event of leakage.

Another important safety feature is the flow-restriction valve to ensure lowering of tailgate at pre-set speed.



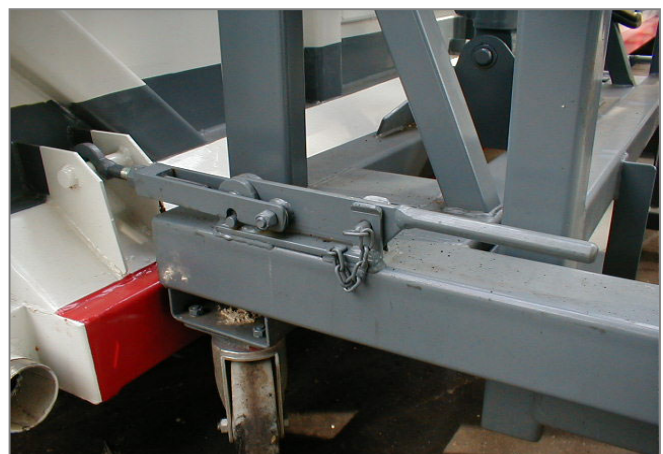
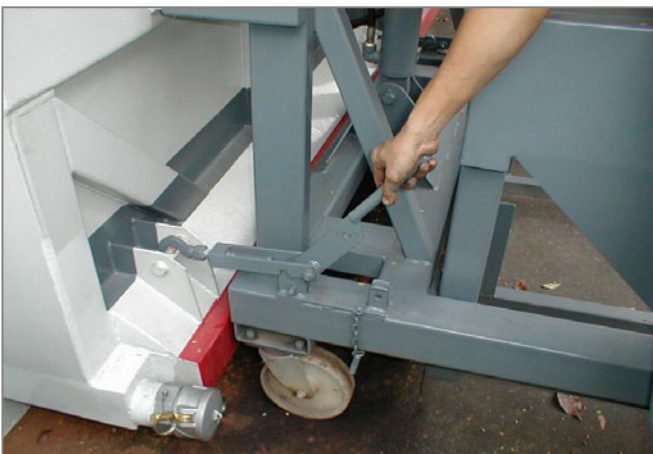


### Duplicated control panels on both sides of MRC

The alternate electrical power input comes with the standard safety feature of Auto-power selector whereby only the connected-side would have power supply . There are 2 alternative identical control panels, one on each side of the hopper front. The sequencing of the compaction cycle is controlled by timer to complete approx 3 cycles and finishes in the open position ready for the next load. Depressing the power "on" button starts the motor running, the packer "on" & "off" switch would start & stop the compaction cycle respectively. The Emergency-stop button will freeze the operation instantly.



The electrical and hydraulic systems are located in a recess under 2 cover plates at the front end of the refuse body. This compartment is completely separated from the refuse and easily accessible for maintenance.



The detachable Bin-lifter is mounted on 4 castor-wheels for easy mobility .

The latch design offers simple latch & lock operation that requires no special instructions and is compatible to all Zenith-built MRC irregardless of size (option for integrated front-binlifter is available upon request)

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