

## Sewer Line, Drain Cleaning/Desilting and Dredging Operations

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**ENSOL**, the renowned name in Waste Management System, now offers the all new, time and cost saving, low maintenance, **Power Bucket Machine**.

This machine is being used world over for years to clean the Sewer Lines, underground drainage through desilting operations.

**SALIENT FEATURES** :The equipment has a set of two mobile power driven machine for cleaning and de-silting of underground sewers of diameters 150 mm and above with different size buckets tools and devices attached .These are operated by means of wire rope winches suitable for operation in tropical conditions consisting of a maximum ambient temperature of 46 degrees centigrade in shade, relative humidity 100% at any equivalent international station. The machine is generally conforms to IS 10595:1983.

The whole unit is consist of a pair of machines each powered by air cooled diesel engine of 10 HP complete with clutch control for disengaging and engaging the drive to the winding drum with hand brakes etc. for instantaneously stopping the drum.

The Whole unit is mounted on trolley having two wheeled spring chassis and with one stabilizing wheel for facilitation for parking and maneuvering with lowering hooks etc. The unit is completed and conforming to IS 10595:1983

### **MAINTENANCE-NO PROBLEM!**

Maintenance is virtually nil for these rugged machines, and at the time when they need to be serviced, our after sales service is just a phone call away.

**Engine:** It is heavy duty to perform 8-12 hours continuous duty, air cooled diesel engine, with speed control through throttle arrangement on each machine of the set, developing at least 10HP at 1500 rpm Alternatively, equivalent at rated RPM and equipped with standard accessories and crank starting arrangement complete with clutch control for disengaging and engaging the drive to the winding drum .The engine is capable of being clutched /declutched from the winch drive hand drive arrangement shall be provided in case of engine failure..

**Mounting:**The drive assembly is mounted on a two wheeled suitable and sturdy chassis of standard M.S. Sections supported on leaf spring suspension of single axle two number pneumatic wheel trailers. A stabilizing solid cushion rubber tyre third wheel for parking. Swivel arrangement for maneuvering and locking for towing shall also be provided. The stabilizing wheel has swiveling caster arrangement. Easily operated jacks are builtin with the framework for stationing during operation. One unit of each set to have fixed jib for backhaul position and the other to have truck loading arrangement with M.S Sheet bonnet for safety



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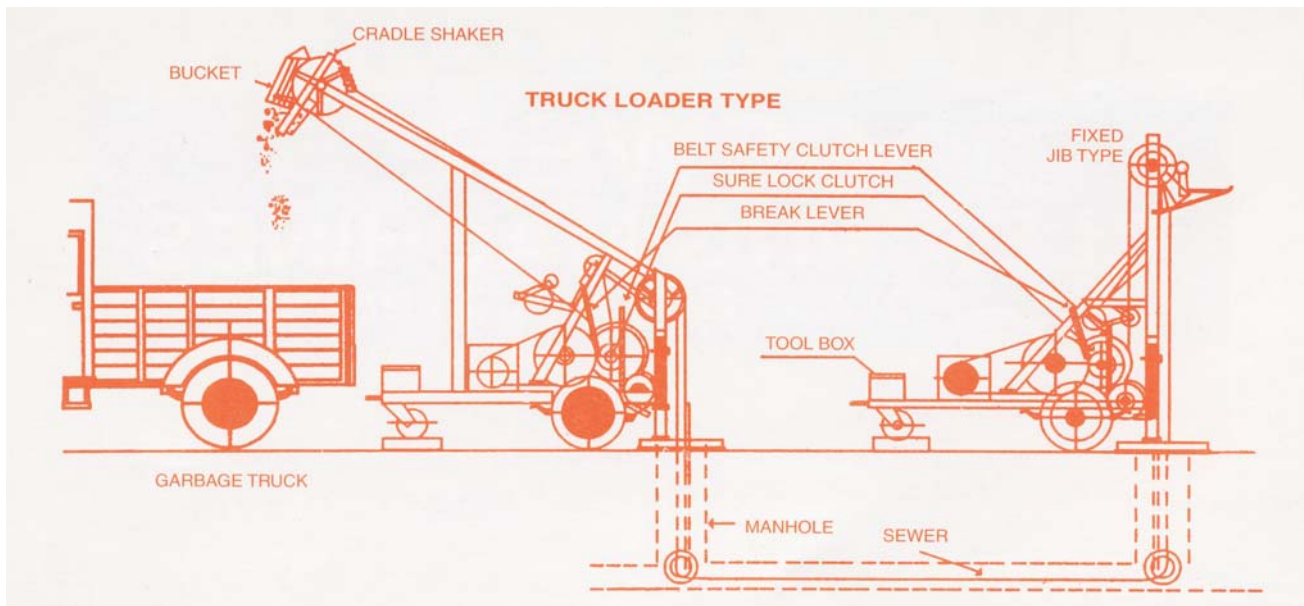


**Transmission:** It has clutch control for engaging and disengaging the drive from the winding drum. Hand brake for instantaneously stopping the drum.

**Winch:** Operated winding drum carrying 150 meters of 12mm dia. S.W.R conforming to IS 2266:1977 or equivalent international standard to a maximum five layers on each machine with safety arrangements, hand operated brakes, hand drive arrangement, and auxiliary winding drum for 600 dia for 150 meters long final core S.W.R for setting up & working the pair of machines. The wire rope for pulling the bucket provided with main winding drum of machines are galvanized round steel type 1008.

**Roller Pulleys:** Machine is provided with adequate number of deflection roller pulleys with yokes and suspension arrangements for fixing and rigging in position during operation, designed for smooth movements of different shapes of buckets over them.

## System Operation



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