

ENSOL™ SEWER JETTING MACHINE

For Cleaning Sewer Line and Storm Water Drain

Capacity Range (In Ltrs.) 500, 2500, 3500, 4000 & 8500

**REUSE
REDUCE
RECYCLE**

- SALES
- HIRE
- LEASING
- RENTAL



Tractor Trailed

ENSOL, the renowned name in Sewer and Storm drainage cleaning and maintenance systems, now offers the all new, time and cost saving, maintenance free **Jetting Machine** mounted on **Tractor Trailer, 3 Wheeler (Rickshaw) & HCV/LCV**.

SYSTEM OPERATION & APPLICATION :

ENSOL Jet is specially designed to make the task of cleaning and maintaining the sewer lines, easy and effective. The water jet 'blast' their way through any blockages or settled debris within the pipe ensuring thorough cleaning, thereby avoiding emergency blockages and costs thereof. It is totally satisfied the underground sewer cleaning of municipalities and sewer authorities.

The Whole operation is carried out by a specially designed nozzle which delivers very high pressure water into the sewage line. The nozzle travels forward and cleans the choked sewage line automatically and the whole operation does not need any man to enter the sewage line.

Also Useful for :

- ◆ Cleaning Toilet Blocks,
- ◆ Cleaning of Foot Paths,
- ◆ Cleaning/Serviceing of Vehicles/Statues,
- ◆ To extinguish small fire.

Available in 4 Models :

- ◆ Walk behind Hand Cart Mounted
- ◆ 3-Wheeler Rickshaw Mounted
- ◆ Tractor Drawn Chassis Mounted
- ◆ LCV/HCV Chassis Mounted

SALIENT FEATURES :

Simplified control panel for easy operation, handgun for quick and easy cleanup and a large assortment of custom build accessories for added efficiency.

ADVANTAGES :

- ◆ Can clean sewer lines and storm drains, where normally manual cleaning is impossible due to inhuman conditions and poisonous gases.
- ◆ Much faster and thorough cleaning of sewers.
- ◆ Can pay for itself within months of efficient use.
- ◆ Clears blockages and settled debris from the most inaccessible points in sewer line and storm drain.
- ◆ Easy to operate as no special skill is required.
- ◆ Maintenance is virtually nil for the first few years.
- ◆ Elimination for all sizes of sewer lines and storm drains.
- ◆ Effective for all sizes of sewer lines and storm drains.
- ◆ Can be customised to suit any client's requirement.
- ◆ Very cost-effective owing to cheapest costs per km. of sewer line cleaned.
- ◆ Can earn immense revenue for the client, thereby offsetting the cost of the machine.

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.

HCV / LCV Mounted Combined Sewer Jetting Machine



Ensol Multiclean Equipments Pvt. Ltd.

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In the interest of technical development we reserve the right to alter equipment without prior notice.

TANK

Tank Shape : Elliptical, Square or Round
 Capacity : As mentioned
 Material : M.S. or PVC or equivalent

PUMP

Indian, Imported 'Moro' or equivalent
 Make : Indian or preferable Imported 'Moro' Brand
 Pump Rpm : 1800 (reduction gear ratio 2.417 :1)

CONSTRUCTION

- ◆ Triplex plunger pump
- ◆ Double pressure seal
- ◆ Vertical fitted valves
- ◆ Water spill venting
- ◆ Oil bath mechanical parts with splash lubrication.
- ◆ Drive System : by pulley or elastic coupling. Direct

MATERIAL QUALITY

- ◆ Engg. Cast-iron pump housing
- ◆ Nodular Cast-iron : fluid end
- ◆ Shaft self adjusting double now roller beams.
- ◆ Molded connecting rods with antifricition bearings.
- ◆ Hardened and tampered alloy steel crankshaft.
- ◆ Surface treated steel guide plunger.
- ◆ Stainless steel or bronze valves.

The pump will be driven from vehicle engine through full torque continuous type power take off system.

P.T.O. (For Commercial Vehicle) only for 5 & 6

Though : 300 kg. cm.
 Power take off gear ratio : 3:1
 Material : Grated Cast-iron P.T.O. Housing and heavy duty alloy steel Hardened spur gear.
 On main transmission shaft pump drive will be taken from vehicle engine through full torque, continuous type PT.O.

CONSTRUCTION

Core - Thermoplastic Techno polymer
 Pressure Reinforcement : Two braided high tensile synthetic
 Outer cover : Orange
 Temperature : (40o c to 120o c)
 Fitting : S.S. Fitting on both side of sewer jetting hose and fitted with high pressure self traveling heavy duty steel Jetting Nozzle.

AUXILIARY HOSE REEL

- ◆ Manually rotated and horizontally mounted small size hose reel for washing purpose.
- ◆ Capable of winding 12.5 mm. Dia and 10m. Long.
- ◆ Useful for washing of vehicle & accessories after operation.

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VALVES

- (A) Lever operated 3 way "L" port high pressure ball valve for main hose reel.
- (B) Lever operated 3 way "L" port high pressure ball valve for auxiliary hose reel.
- (C) Drain Valve : 50 mm. valve

HYDRAULIC SYSTEM

- (A) A simple robust construction gear pump of suitable capacity is fitted directly with the vehicle engine.
- (B) Spring centered, pilot operated direction control valve is provided at the rear control panel for hose reel rotation.
- (C) Excellent, low speed, reversible high starting torque hydraulic motor is provided on hose reel.
- (D) Hydraulic system provides oil storage tank with suction strainer and return line filter.
- (E) Hydraulic connections, M.S. Seamless pipe and flexible hoses to facilitate easy replacement / repairs.

INSTRUMENT & CONTROLS

Control panel will be provided with the following equipment.

- (A) Pressure gauge
- (B) Throttle for the engine
- (C) Operating control for Jetting Hose
- (D) Operating control for Washing Line
- (E) Operating control for hose reel rotation
- (F) Water level indicator

All indicators and control elements required for control and monitoring will be installed in a Control panel located at rear of the vehicle.

ACCESSORIES & SAFETY DEVICES

- (A) Heavy duty, glycerin filled 100 mm. Dia pressure gauge.
- (B) Flexible water level indicator.
- (C) Audio/Visual type water level alarm
- (D) Suction strainer to ensure supply of clean oil to the gear pump.
- (E) Spring type adjustable pressure relief valve.
- (F) Blinker, (Kiran Light)
- (G) Side signal light.
- (H) Brake light.
- (I) Reflectors - 2 Nos.
- (J) New number plate and stop plate.

PAINTING

- ◆ Two coats of anti-corrosive are applied inside the tank body.
- ◆ Two coats of Zinc based red oxide paint (Nerolac / Barger / Asian make only) are applied.
- ◆ Two coats of shade polyurethane paints as per choice (Nerolac / Barger / Asian make only) are applied.