



**Deep suction truck with optional jetting system or Mechanical cable  
For sewer cleaning system operated from the Truck powerful engine.**

## **Boom:**

- Boom extends to 6 meters
- Boom Diameter 6" or 8"
- Boom rotates + 90o by swash motor.
- Boom tilted + 45o – 15o
- Boom rests at front Bumper
- Boom is separate from debris tank.

## **Blower:**

- Protection valve to stop vacuum.
- Blower 15 inch, 3500 CFM 2500 RPM.
- Blower operated from truck engine.
- Signs vacuum relief valve.
- Stainless steel Strainer to protect the Blower.
- Heavy duty Exhaust silencer.
- Steel pipes & rubber hose.

## **Water System:**

- Capacity 200, 500, 1000, 1500 gallon water tanks.
- 2 cylindrical tanks on the sides.
- Galvanized or stainless steel.
- Baffles inside to reduce the water inertia
- Water tanks are very low to reduce the height of the CG.
- Fitting for filling, vents drain & level indicators.
- Cleaning pump 2 gallon 100 bar (other types available).
- Stainless steel strainer at pump inlet.
- Cleaning hand gun with shut off valve.

## **Debris Tank:**

- Galvanized steel or stainless steel (optional)
- Sizes 3, 4, 6, 8, & 10m<sup>3</sup>
- Single Hydraulic cylinder to tilt the tank 50o
- Full Diameter size rear door hinged at the top.
- Float ball safety & dismount box.
- Cylindrical shape.
- Hydraulic door locking with manual lock in case of Hydraulic failure.
- Lay flat hose attached to the valve and secured at the rear door.
- Heavy duty Rubber seals could be easily replaced
- Rear valve 4" for sludge discharge filter.
- Cleaning hand gun with shut off valve.
- Automatic shut off engine when water level is zero. (optional)
- Mounted on a sub frame.

## **Electric System:**

- Color Coded wires.
- Lighting around the truck according international standards.
- Water sealed connections

## Paints

- The tank is sanded.
- 3 layers of paints
- The system components are treated to withstand rust, corrosion in sewage.

## Hose Reel:

- Articulated hose reel located in the front bumper.
- ¾" Sewer cleaning hose up to 152m.
- Hydraulically driven front & rear.
- Directly coupled Hydraulic Motor.
- Hose guide.
- Hose metering range or footing system (optional).
- Complete selection of Nozzles.

## Frame

- No Drills or welds of any kind to the truck chassis.
- The system is built on a sub frame fastened to the truck chassis by suitable amount of fasteners.

## Controls & Indicators

Fixed control and optional Remote 10 meters.

- Start & stop vacuum pump or Blower.
  - Debris tank tilting.
  - Open & close rear door & locking.
  - Vacuum Pressure.
  - Level indicator for debris tank.
  - Boom tilting, extension & rotation.
  - Oil temperature, level & Pressure.
  - Oil Pressure relief valve.
  - Alarm for oil max pressure.
  - Accelerator for Engine RPM.
  - Engine RPM indicator at Driver site.
  - Engage & disengage power split unit.
  - Alarm light for power split unit operation.
  - Jetting pump start/Stop
  - Jetting water pressure
  - Hose reel wind, rewind
  - Jetting water pressure relief valve adjustment.
- Level indicator
- Automatic shut off vacuum when tank is full.

## Vacuum Nozzles:

- Deep vacuum nozzles.
- Suitable for deep suction 10 & 12 & 15 and more.
- Heavy duty to withstands shocks from the sewage wells

## Oil Cooling:

- Heavy duty oil cooler.

## Servicing:

- Easy to reach any component
- Spare parts available in many lower.
- Does not need highly skilled personal.

## Suction Hose:

- 6" or 8" inner diameter heavy duty rubber lose capable to withstand the max vacuum pressure.
- 15 meters of suction tubes suitable for quick coupling made of aluminum or stainless steel.

## Jetting Pumps

- Hydraulically operated Myers piston Triplex or Quintuple jetting pumps. 10 to 80 Gallon/M & 1000 to 5000 PSI.
- Strainer at the inlet of the pump.
- Located at low level.
- Withstands to work dry for short time.
- Relief valve to protect pump system.

## Power transmission:

- Power split unit is built in the main cardan shaft.
- Power split unit has 2 – 3 O/PS to drive 2 to 3 to hydraulic pumps to drive the Blower & jetting pump and others
- Power take off is in the Gear box of the truck to drive hydraulic pump to operate all the pistons.
- Power transmission is clean and easy to maintain and avoids any misalignment.
- Sufficient cooling for oil even in tropical conditions.

## Sewer cleaning cable system (option)

- 2 meter Mechanical cable sections can reach up to 60m.
- Different types of saws in the cable front tip.
- To ensure cleaning of the sewage pipe.
- The cable is rotated by Hydraulic motor.
- The control valve would rotate the Motor clock wise & anti clockwise.
- The Hydraulic motor torque is adjusted by the relief valve to protect the operator in case the cable would be stuck with a heavy obstacle.
- The caret is powered by the hydraulic system of the truck via a 20m long Hydraulic Hose reel with automatic retract.
- The caret has a handle so the operator could push it to the front & rear like a baby wagon to push the sewer cable into the sewage pipe.

## Tool Box:

- Mud guards on back wheels
- Reasonable size heavy duty water resistant tool box.
- Open hose box at the sides of tank.

## Jetting Nozzles:

- Many types of nozzles.
- Revolving nozzles.
- 15° sanitary nozzle.
- 15° sand nozzle
- Penetrated Nozzle
- Strict jetting 10 & 20 & 30 & 45°.
- Replaceable Nozzle holes

## Chassis:

- 4 x 2 & 6 x 4 or 8 x 4 chassis depending on tank sizes.
  - 250 to 420 HP depending on chassis used.
- Wheel base dependant or tank sizes type of chassis.

## Sewer Hose:

- ¾" inner diameter
- length 120 m
- Operating pressure 3000 psi
- Burst pressure 7000 psi

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