



## Mobile Sewer Jetting Machine For Cleaning Sewer Line & Storm Water Drain



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IPWT, the renowned name in sewer and storm drainage cleaning and maintenance systems, now offers the time and cost-saving, maintenance-free, vehicle-mounted, PTO (power take-off) driven **RAMJET® Jetting Machines**.

**RAMJET®** is the product of IPWT's in-house development program that lets you use the truck engine for all the cleaning operations, adding to fuel economy.

**RAMJET®** is custom-made so as to snugly fit onto any commercial vehicle chassis.

**RAMJET®** is especially designed to make the task of cleaning and maintaining of sewer lines, easy and effective. The water jets 'blast' their way through any blockages or settled debris within the pipe ensuring thorough cleaning, thereby avoiding emergency blockages and costs thereof.

Features included in the **RAMJET® Jetting Machine** are : simplified control panel for easy operation ; reliable top-of-the-line hydraulics for driving the hose reel ; corrosion-resistant water tank of customer-specified sizes ; aesthetically built canopy for the machine's protection (optional) ; convenient storage compartment for tools and accessories (optional) ; high pressure hand gun for quick and easy clean-up (optional) ; and a large assortment of custom-built accessories for added efficiency.

**RAMJET®** machines are custom-made in capacities depending on gross vehicle weight (GVW) of truck chassis (suggested tank capacities : 3000 lts. on 10 ton GVW chassis ; 7000 lts. on 16 ton GVW chassis ; 12000 lts. on 25 ton GVW chassis). IPWT builds quality into all aspects of every **RAMJET® Jetting Machine** they manufacture, whatever the type, whatever the size.

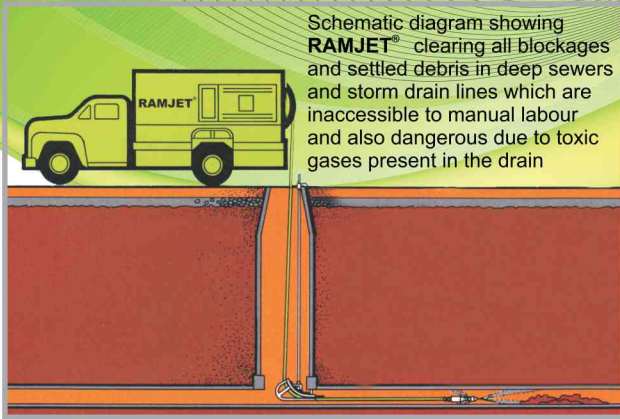
**RAMJET®** totally satisfies the underground cleaning needs of municipalities and sewer authorities, industrial plants, military and utility companies....all at once.

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!

1. Max-size **RAMJET®** High flow jetting machine (12000 lts.) ; 25 ton GVW chassis ; supplied to Ahmedabad Municipal Corporation in 2014.
2. Mid-size **RAMJET®** jetting machine (7000 lts.) ; 16 ton GVW Chassis ; supplied to PWD, Pondicherry in 2006
3. Mini-size **RAMJET®** jetting machine (8000 lts.) ; 16 ton GVW Chassis ; supplied to Municipal corporation of Greater Mumbai in 2013.



drainage MAINTENANCE EQUIPMENT



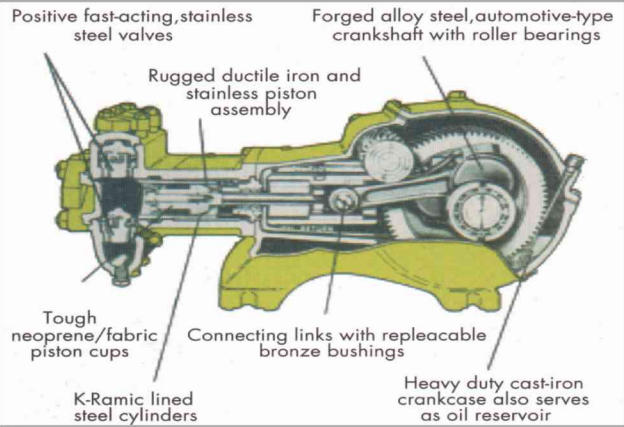
Schematic diagram showing **RAMJET**® clearing all blockages and settled debris in deep sewers and storm drain lines which are inaccessible to manual labour and also dangerous due to toxic gases present in the drain

#### A SIMPLE CLEANING PRINCIPLE :

The **RAMJET**® Jetting Machine is positioned directly over the manhole with hose reel above opening. A special high pressure hose, fitted with the hardened steel nozzle, is introduced directly into the sewer. The jet action of the water from rear jets propel the nozzle up the sewer, pulling the hose behind it. A center hole in the nozzle breaks-up the blockages and settled debris in front of the hose to allow for easy passage. Lighter materials are flushed down the line and heavy materials are deposited in the manhole for removal. A final jetting of the interior of the manhole with the high pressure gun completes the cleaning operation.



NOZZLES AND CUTTERS

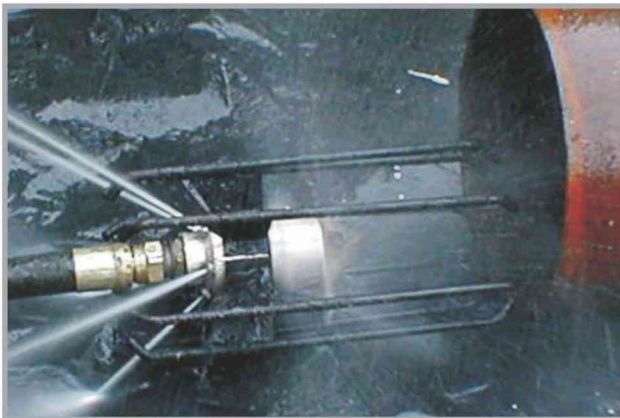


Positive fast-acting, stainless steel valves      Forged alloy steel, automotive-type crankshaft with roller bearings

Rugged ductile iron and stainless piston assembly

Tough neoprene/fabric piston cups      Connecting links with replaceable bronze bushings

K-Ramic lined steel cylinders      Heavy duty cast-iron crankcase also serves as oil reservoir



DRAIN CLEANING : A CLOSER LOOK

#### THE HEART OF EVERY RAMJET® JETTING MACHINE :

The pulse of every **RAMJET**® is provided by a quality **PRATISSOLI POMPE (Italy)** Jetting Pumps. Designed for utmost in capability and output, these pumps deliver greater amount of water flow at higher pressures (2000 PSI and above) for efficient sewer cleaning and require negligible maintenance.

We may point out here that our jetting system has imported triplex pumps from **PRATISSOLI POMPE (Italy)** known for over 60 years. This pumps have been offered in all Sewer Cleaning units supplied by us till date. In India, we have sold maximum number of units because of their silent and trouble-free performances at very high pressure. We supplied the first of this type in the year 1975 and still working with Municipal Corporation of Greater Mumbai to their entire satisfaction. Similarly the performance of **PRATISSOLI** pumps on other municipalities is equally commendable.

#### 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 of man-entry oriented method of cleaning, thus upgrading dignity of labour
- 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



Winner of the prestigious 'National Award for Import Substitution' in 1982 for Garbage Compactor



Dun & Bradstreet Rating : SE2A "High Performance Capability and High Financial Strength"



#### INDUSTRIAL PLANTS & WASTE TREATMENT CORPORATION

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