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Drain and Pipe Cleaning

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Drain and Pipe Cleaning

Our range of Drain Rods, Jet machines and Bucket Winches effectively removes Sand, Rags, Roots and Solid Debris in pipes from 75mm to 2000mm.



High Velocity Jet

Effectively cleans and unblocks drains, pipes, sewers and culverts. Available in both trailer and truck mounted options. [More »](#)



Mid Block Jet

Clears pipe blockages in pipes from 30m - 300 mm diameter: including grease, oils fats, sand and fine roots. Petrol, diesel or electrically powered. [More »](#)



Winches

Ian Dickie & Co. Have been manufacturing Winching machines or Bucket Machines as they are more commonly known, for over 20 years. [More »](#)



Drain / Pipe Cleaning Tools

High quality flexi-steel rods and tool manufactured to din 17223 [More »](#)



Cable Drain Cleaner

General wire rotating blockage and root clearing machine. [More »](#)



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High Velocity Jet Cleaner

Consider just a few of the advantages of the Ian Dickie & Co Hydroblast Jet Cleaners:



• Effectiveness • Labour saving • Speed • Expert technical support • Full spares and after sales service • Versatility.

By using the wider range of accessories that we offer, you can effectively remove - Sand, sludge, roots and other pipe blockages.

There are numerous industrial applications including: Boiler & heat exchanger tube cleaning, tank cleaning, structure/machinery jetting and Ship Hull cleaning.

Features

Chassis

- Trailer mounted
- Robust mild steel channel with protective paintwork
- Single axle high speed trailer for manoeuvrability
- Leaf spring suspension
- Pneumatic tyres
- Adjustable stabiliser legs
- Retractable jockey wheel
- Pin type clevis hitch
- Standard features include overrun and park braking with optional pneumatic braking where required
- Manufactured fully to South African Road Ordinance Specifications, with chevron board and lights

Breaker Tank

- Corrosive resistant material either: Polyethylene, 3CR12 or stainless
- Standard size - 500Lt or to your requirements
- A heavy duty copper float with demand valve is incorporated
- Fire hydrant quick couplings are fitted either side of the tank
- Optional: a low - water cut out device (for pump protection).

Pump

- High quality robust triplex plunger pump (Either Pratissoli or Meyers)
- Fully adjustable automatic bypass and manual pressure relief valve.

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- Available with : Flows from 30L/min. to 395L/min.
- Pressures from 50 Bar to 1200 Bar.

Filtration

- In-line stainless steel mesh Y filter or a high volume disc filter if the supply water is contaminated.

Engine

- Air or water cooled multi-cylinder electric start diesel engine
- All popular manufactured engines are offered to suit your preference and requirements
- Optional: high engine temperature and low oil pressure protection.

Hose-Reel

- Fully hydraulically operated robust steel reel with a hose capacity of 180m
- Sprocket and chain reduction drive
- Stainless steel greased lubricated HP swivel joint.

Hydraulics

- Hydraulic pump and motor
- Large capacity hydraulic oil tank sealed against water contamination
- System complete with fine mesh filtration and pressure relief valve.

Hose

- Urethane covered fibre reinforced hose is recognised as being the most effective type of hose for sewer jetting applications. This is due to its light weight allowing the nozzle to retrojet up the pipe with the minimum of resistance. Where there is a lot of abrasion or the hose rollers cannot be used, a steelwire reinforced hose is recommended.
- The standard length of hose is 121m with longer lengths available on request.

Instrumentation

All instrumentation and control valves are positioned at the rear of the machine to allow ease of operation by one operator.

Instrumentation and controls include:

- High pressure water gauge
- Oil pressure warning light
- Battery condition light
- Hour/rev meter
- Stop/start switch and cut out
- Engine speed control
- Hose reel out/in lever
- Reel speed control with infinite adjustment
- 3 way change over valve for pressure to nozzle, manual by-pass of auxiliary take-off.
- Manufactured fully to South African Road Ordinance Specifications, with chevron board and lights

Operation

The Ian Dickie & Co Jet Cleaner may be parked adjacent to the manhole or more conveniently, a reasonable distance away.

An upper manhole hose guide both directs and protects the hose as it enters the manhole. A second lower hose guide at the junction of manhole and sewer, performs the same function.

The hose, with its chosen nozzle or chain flail, is lowered directly into the sewer, thereafter moving itself upstream by means of the high velocity water retrojetting off the pipe wall. At the same time its central water jet (if fitted), sprays forwards, breaking up deposits in front of the hose.

When the hose is withdrawn, the rear water jets scour the sewer walls washing the debris down the line. Heavier material is drawn back to the manhole, where it is easily removed with a Venturi Jet Pump. This process is repeated until the pipe is cleaned to its original condition.

Once the hose has been reeled in, all that is required is a final spraying down of the manhole with a hand-held pressure gun. All in all - a highly efficient, time and labour -saving operation.

Ian Dickie & Co also offer truck mounted Gully Sucker and Jet Cleaner combinations.

Incorporating:

- 1000 to 6000Lt vacuum tank with specially designed rear door and discharge assembly.
- High volume vacuum blower.
- Blower silencer.
- Filtration bank.
- Cyclone separator.
- Hydraulic suction hose boom.
- The Gully Sucker and Jet Cleaner is sized according to your specifications and requirements.

Specifications

Model	PX122/120	PX152/120	PX262/120
L/Min	122	152	262
Bar	120	120	120
(kW)	30	35	60
LxWxH (MTR's)	3.4x1.6x1.6	4.2x1.8x1.8	4.4x1.8x1.8
WGT (kg)	1200	1600	2000

Truck mounted jet cleaner / gully sucker



The Ian Dickie Gully Jet/Sucker is able to Jet the pipe clean, bringing the debris back to the manhole. The Gully Sucker then lifts (suction lifts of up to 15M) and stores the debris in the vacuum tank until full. On clearing the blockage the truck can then drive to the discharge site and deposit the load.



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Mid Block Jet

JETS (for 75mm-200mm pipes)

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- Robust all steel four semi-solid rubber wheels
- Manually operated hose reel with adjustable brake
- Standard with 76M lightweight reinforced sewer hose
- High quality triplex plunger pump with reduction gear box
- Fully adjustable pressure unloader valve
- In-line filtration
- Auxillary take off valve
- Large range of nozzles
- Offered either with petrol or diesel engines

Operation

The greatest benefit of our Mid-Block Jets is manoeuvrability. They can be easily loaded and off loaded from a light delivery vehicle or a trailer. They are very effective in clearing pipes from 50mm to 250mm. The "Midi" can operate straight from a household water supply. The larger capacity Mega and Giga Jets utilise a 300lt breaker tank and are mounted on high speed trailers.

Accessories

- Venturi jet pump
- Hand Gun with lance
- Rotating Nozzle
- High speed trailer with 500l or 1000l supply tank

Specifications

Model	Midi Jet	Maxi Jet	Mega Jet	Giga Jet
Flow	21L/Min	21L/Min	41L/Min	70L/Min
Pressure	130 Bar	180 Bar	150 Bar	130 Bar
Power	9kW	12kW	15kW	20kW

Offered with either Diesel or Petrol engines

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Winches

Ian Dickie & Co. Have been manufacturing Winching machines or Bucket Machines as they are more commonly known, for over 20 years.



Features

We redesigned the mechanical Belt and Pully mechanism and are now manufacturing a fully hydraulically driven and operated machine. The hydraulic system is simple, effective and easy to maintain. Incorporating;

- **Hydraulic pump and motor**
- **Cable drum bull gear and pinion reduction**
- **Hydraulic tank sealed against water contamination, fitted with fine mesh filtration.**
- **Easy access components and piping.**
- **Centrally mounted control valves.**
- **Heavy duty channel base frame and "I" beam construction.**
- **Roller, safety chain and bucket swing arm. (Double rollers in the case of truck loader).**
- **Single axle leaf spring with pneumatic tyres.**
- **Retractable jockey wheel.**
- **Pin type tow hitch.**
- **Tool box.**
- **Fully adjustable stabiliser legs with ratchet raising and lowering mechanisms.**
- **The base frame and uprights are of welded construction for added strength.**
- **Braking is as per the South African Road Ordinance Specification.**
- **A removable chevron board with stop/indication lights is supplied.**

Our machines are all manufactured to the highest standard and are designed with ease of maintenance and operation in mind.

Winches

The winches are driven by either petrol or diesel engines. All popular manufactured engines are offered to suit your preference and requirements. Hand crank or electric start is offered. The line pull is between 1500 & 3000kgs and is capable of a travel speed of up to 38 meters per minute. The main cable drum has a capacity of 300m x 13m. Supplied with 120m x 13mm galvanised steel rope as standard.

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Operation

The Drain and Culvert Winches provide a positive mechanical method of cleaning sewers from manhole to manhole. (Two men with one set of machines) are all that is required to perform an effective cleaning operation. A machine, cable rollers and manhole jacks are positioned at each manhole. Once the manhole set up is in place, the cable is floated down the pipe. The appropriate cleaning tool is fitted to the cable e.g. jawed bucket. The winch at the lower manhole draws the bucket in with a load. In the case of using one standard upright and one truck loader, the bucket moves over the top roller of the truck loader and dumps the deposit onto the truck. The truck loader relieves the operator from shovelling the deposit from street to truck.

Specifications Standard Models:

GHW (Manual)

3 Ratio geared hand winch 1:1 - 4:1 - 25:1 reductions Adjustable legs with trolley wheels

PMW

Powered mini - winches Scaled down version of the PSW uprights 9kw diesel or petrol engine

PSW

Powered standard uprights 12kw to 15kw diesel or petrol engines

TLW

Truck loaders 15kw - 40kw diesel engines Loads direct onto truck in 60 seconds Standard with wide flared rollers

XTL

Truck loader - High capacity machines 40kw to 75kw diesel engines. Recommended for sewers and storm drains from 760mm upwards Large diameter top roller

The truck loaders come standard with a "Cradle and bucket shaker". A simple operation which ensures that the Bucket is completely emptied of its contents.

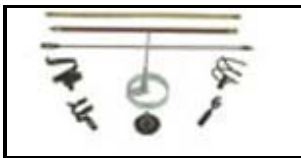


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RODDING AND PIPE CLEANING



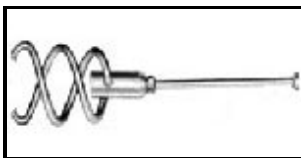
RODDING AND PIPE CLEANING

Also available: High pressure trigger operated gun with lance and nozzle Full technical and operation training for crews.



FC SEWER RODS

Manufactured from high tensile spring steel, complete with male and female couplings. Sizes: 1m & 2m



DOUBLE CORK SCREW

Designed for removal of soft items such as rags and paper. Sizes: 63mm 189mm



DS DROP SCRAPER

Designed to remain flat when pushed in and to open up when pulled back. Used for the removal of sand and silt. Sizes: 89mm 140mm



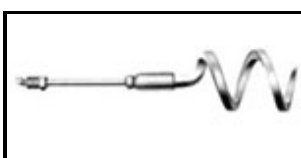
GP GULLEY PLUNGER

Designed specifically for clearing gulleys using a pumping action. Sizes: 100mm 150mm



RP RUBBER PLUNGER

Used for final cleaning of pipes after the blockage has been removed and brushing has been completed. Sizes: 100mm 300mm



SB SQUARE BAR CORKSCREW

Designed for removal of heavy items and hard blockages. Sizes: 64mm 189 mm



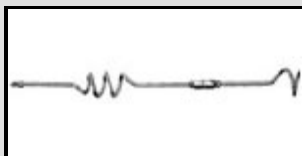
PP DRAIN TESTING PLUGS

Used for low pressure testing, for blocking of lines and diverting the flow. Sizes: 40mm to 1200mm. Popular sizes ex stock



DH DRILLING HEAD

Designed to drill through hard blockage to restore the flow.



SC SAND CORKSCREW

Designed to break up compacted sand and silt to restore the flow in the pipe.



WB WIRE BRUSH SPIRAL

Used for light cleaning and maintenance brushing as an alternative to the flat wire brush. Sizes: 100mm 300mm



AS ASSEMBLY SPANNERS

These special spanners prevent damage to the couplings when joining a string of rods. Normally used in pairs.



RA ROOT AUGER

Used for clearing fine root hairs. This tool has sharp cutting edges on both sides. Sizes: 63mm 189mm



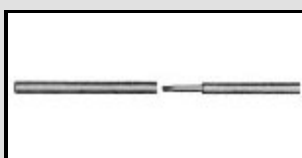
BTH TOMMY BAR

Designed to be inserted through the centre hole of the female coupling to push, pull or rotate the rods



PT-2 ROD GRIPPER

Used to grip the rods between couplings when awkward working conditions do not allow for the conventional method to be used.



PT PULL OUT TURNING HANDLE

Locks to rods, and when alternatively turned sharply right and left, is often useful in getting through stubborn stoppages



Sealing Bags

Pipe Sealing Bags for fast, portable temporary sealing of leaks in pipes and cylindrical containers. Chemical and temperature resistant, ideal for use in factories and refineries..

LL LATERAL LOCATOR



Designed to locate unmapped junctions by splitting and jamming in the junction.



PPR POLYPROPYLENE RODS AND FITTINGS

More flexible than steel rods but not as strong. Have brass lockfast couplings which permit the rods to be rotated in either direction without unscrewing.

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Cable Drain Cleaner

Metro Rooter

The Metro Rooter is a tough root cutting machine in a compact lightweight package, that is ideal for plumbers and contractors.



Features & Benefits

- Manual or Electric machines available
- Heavy duty , powder-coated steel drum holds 100ft of half inch cable for inside lines or 75ft of five eighth inch cable for roots.
- Self aligning flexitube distributor tube reduces cable tangling.
- Heavy duty reinforced frame and drum support shaft takes rough handling in the field.
- Motor has plenty of power to handle up to 100ft of cable.
- Passive break system holds machine in place while operating or transporting.
- Ten inch wheels and truck loading wheel for easy transport
- Cutter holder on frame.

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