

# SEWER EQUIPMENT CO. of AMERICA

SEWER EQUIPMENT  
CO. of AMERICA



FULL LINE CATALOG

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### Notes About Your Machine

Please use the following information when ordering parts and accessories:

WO# \_\_\_\_\_

Customer No. \_\_\_\_\_



## MONGOOSE JETTERS



Mongoose Jetters delivers industry leading, high pressure jetting equipment that is purposefully built for the plumbing contractor market. Quality, service and a wide variety of equipment and options keep our customers operational and profitable. Mongoose Jetters stands behind its promise to provide customers with "Serious Machines for a Serious Business".

## RAMVAC VACUUM EXCAVATORS



RAMVAC understands we do not live in a one-size- fits-all world. We also understand that value is what customers really want in a machine. That is why we offer such a wide variety of configurations and options. Product line-up includes truck and trailer hydro excavators, air excavators and catch basin cleaners.

## SEWER EQUIPMENT CO. OF AMERICA



Sewer Equipment Co. of America provides the highest quality and most innovative sewer cleaning products for the municipal and contractor market. With a wide array of product offerings from high pressure, high volume trailer and truck mounted sewer jetters, combination sewer cleaners, rodders, bucket machines and easement machines, we have the equipment to help you get the job done.



Sewer Equipment, formerly Sewer Equipment Co. of America, is the corporate home of RAMVAC Vacuum Excavators, Mongoose Jetters and Sewer Equipment Co. of America. With over 75 years of experience, Sewer Equipment brands represent the industry's highest quality sewer cleaning and vacuum excavation equipment. Serving the contractor and municipal markets, we stand behind our company commitment to providing the "Best Products. Best Local Support".

# BEST PRODUCTS, BEST LOCAL SUPPORT



## 545 & 747 Series

Sewer Equipment Company of America built its first 747 Trailer Jet with a rotating hose reel in 1993. Throughout its evolution, the 747 series of jetters has been the industry standard by which others are judged. Whether it is longevity, operator safety, overall value or available options that you are looking for, the current offering of 747 trailer and truck jets are without peer in the marketplace.



Longevity starts with choosing the proper components and continues with meticulous design and assembly. With gas engines and triplex plunger run-dry water pumps as standard equipment, users are assured of a vast support network and the utmost performance and reliability for the life of their system. Trailer frames made of fully welded 1/4" x 2" x 6" steel tubing, maximize strength. Additionally, they are corrosion resistant and every trailer is certified by the National Association of Trailer Manufacturers, assuring you of adherence to all Federal D.O.T regulations and safety standards.

While our stout frames limit flex and sway while towing, our available Duraprolene water tanks are fully baffled to eliminate surging while stopping and turning with a load of water. Once on the job, our standard rotating safety reel allows the operator to position the trailer in the safest possible manner while simply rotating the reel to conveniently face the access point. The NEMA 4 control panel swivels with the reel to allow safe access regardless of reel position.

Our unique ECO operating system allows the engine to run at a 20% lower RPM than traditional designs, creating a safer and more pleasant work environment for your operators. Long term value is also created with design features like a welded, one piece enclosure and components that are painted prior to assembly to eliminate points of corrosion.

Any machine requirements necessary to get your job done, a 747 can be built to meet it. If a truck is more suited to your application, the 747 is offered to mount on your chassis or a factory provided unit with up to 3,000 gallons of water capacity. When truck mounted, power can be delivered by an auxiliary engine or via PTO hydrostatic drive from the chassis' power plant. Budget minded customers can look to the 545 series, which has the same construction features of the 747, but is without an engine and pump enclosure, or with engine enclosure only. Additional machine options include various pump configurations, wireless and tethered remote controls, tool storage, dual reels, safety lighting, integral CCTV system and more.



# MODEL 545 & 747 SERIES

**ONE PIECE ENCLOSURE:** Our one piece enclosure is designed to maintain its cosmetic and functional integrity throughout the life of your equipment. While most manufacturers bolt individual panels together to achieve its purpose this practice leads to rusting panels, missing fasteners and overall degradation of the equipment. In addition to the structural and cosmetic integrity, these enclosures function to maintain temperatures above freezing in most conditions. With steel or aluminum available as materials of construction, our units are designed for the harshest weather and road conditions.

**DURAPROLENE WATER TANK:** Many manufactures choose to build using rotational molding. However at Sewer Equipment, we offer trademarked DURAPROLENE tanks. Unlike typical "poly" materials of construction that are rotational molded and non-repairable, our DURAPROLENE material can be repaired long after the warranty has expired. In addition, our design is fully baffled, yielding dramatically improved stopability. It is UV stabilized for protection from the sun and the surface is textured to provide a long lasting finish that will withstand the test of time and keep your unit looking first rate long into the future.



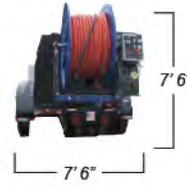
**BOX TUBE FRAME:** As we all know, a steel box tube cross section is stronger than a "C" channel cross section. However, tube construction also costs more money. While this is indeed true, it also leads to a stronger and longer lasting frame designed to withstand the strenuous rigors of any application you throw at it. It is for this reason we utilize this concept in all our products and provide our customers with the best value in the market.

**NEMA 4 WIRING:** Moisture can cause havoc on electrical systems which is why we choose to protect our electrical systems with NEMA rated enclosures. NEMA is an acronym for National Electrical Manufacturers Association and this organization specifies design criteria for electrical enclosures and their sealing abilities. Rather than just run wires to and from various devices, we choose to design our products to resist the rigors of your application by utilizing these enclosures on our products and eliminate the maintenance issues related to moisture intrusion in electrical systems which do not use these methods.

# BEST PRODUCTS, BEST LOCAL SUPPORT



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>545</b>	19'6"	7'6"	7'6"	700 Gallon	Tandem Axle	1000'	1/2" - 1"



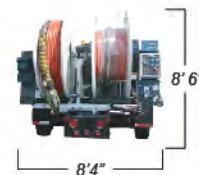
MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>747</b>	19'6"	7'6"	7'6"	700 Gallon	Tandem Axle	1000'	1/2" - 1"



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>747 TK</b>	26'2"	8'4"	8'6"	700 Gallon	Single or Tandem Axle	1000'	1/2" - 1"



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>747 TV</b>	20'	7'6"	8'	700 Gallon	Tandem Axle	1000'	1/2" - 1"



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>747 TK-TV</b>	26'8"	8'4"	8'6"	1500 Gallon	Single or Tandem Axle	1000'	1/2" - 1"

# MODEL 545 & 747 SERIES

747 CLASSIC  
747 CLASSIC TK  
747 ECO  
747 ECO TK  
747 ECO TV  
747 ECO TV TK  
545

### Engine & Pump

Ford 2.5L Gas Engine	S	S							
Ford 3.7L Gas Engine			S	S	S	S	S		
Triplex <b>Plunger</b> Water Pump w/ 30 Minute Run-Dry: 40gpm @ 2000psi	S	S	S	S	S	S	S	S	
Auto Shutdown <small>(high engine temp/low oil pressure)</small>	S	S	S	S	S	S	S	S	
40gpm @ 3000psi Pump & 3000psi hose				O	O	O			
114hp Tier IV Final Diesel				O	O	O			
114hp Diesel Engine w/ 65gpm @ 2000psi pump & 1" sewer hose				O	O	O			
Lighted NEMA 4 Control Panel	S	S	S	S	S	S	S	S	
Tachometer/Hour Meter	S	S	S	S	S	S	S	S	
Air Purge Valve	S	S	S	S	S	S	S	S	
Painted Steel Shroud Enclosure with Locking Doors	S	S	S	S	S	S	S		
Non-Shrouded Design									S
Recirculation System	S	S	S	S	S	S	S	S	
Electronic Clutch Engage		S	O	S	O	S			
Hydraulic Pressure Gauge	O	O	O	O	O	O	O	O	
Drain Valve for Water Pump	O	O	O	O	O	O	O	O	
Upgrade to Aluminum Shroud	O	O	O	O	O	O	O		
Upgrade to Aluminum Shroud (painted)	O	O	O	O	O	O	O		
Electronic Water On/Off Control	O	O	O	O	O	O	O	O	
Electronic Throttle Control	S	S	S	S	S	S	S	S	
Gauge Package (Hour Meter, Tach, Volt Oil Pressure Temp)	S	S	S	S	S	S	S	S	

### Tank & Fill

700gal black Super Poly Water Tank	S	S	S	S	S	S	S		
2.5" Fill System	S	S	S	S	S	S	S		
Fill Hose Storage Rack	O	O	O	O	O	O	O		
Winterization System	O	O	O	O	O	O	O		
700 Gallon Duraprolene® Water Tank	O	O	O	O	O	O			
1000 Gallon Duraprolene® Water Tank	O		O		O				
1500 Gallon Duraprolene® Water Tank	O		O		O				
2000 Gallon Duraprolene® Water Tank	O		O		O				
2500 Gallon Duraprolene® Water Tank	O		O		O				
3000 Gallon Duraprolene® Water Tank	O		O		O				
10'x6" Lower Profile	O		O		O				
1500 Gallon Water Tank (Truck Only)	O		O		O				
10 Year Warranty for Duraprolene® Water Tank	O	O	O	O	O	O	O		

### Truck

Mounting to approved Chassis		S		S		S			
Mud Flaps		S		S		S			
One Steel Under-body toolbox		S		S		S			
Auxiliary Fuel Tank		S		S		S			
Aluminum Under-body Toolbox 18"x18"x36"		O		O		O			
Additional Aluminum Under-body Toolbox		O		O		O			
Air Purge System		O		O		O			
Spray Bar for Front Bumper		O		O		O			
Hydrostatic Drive		O		O		O			
Rear Gauge Cluster		S		S		S			
Rear Back-Up Camera System		O		O		O			
Combination Heavy Duty Ball Hitch		O		O		O			
Reese Style Hitch		O		O		O			

### Trailer

Tandem Axles 14,000lbs. GVWR	S		S		S		S		
Electric brakes	S		S		S		S		
2-5/16" Ball Hitch	S		S		S		S		
Aluminum Toolbox	O		O		S		O		
One Steel toolbox Fender Mounted	S		S				S		
Spare Tire and Rim	O		O		O		O		
Hydraulic Brakes	O		O		O		O		
Power Jack	O		O		O		O		
Chip Guard Coating	O		O		O		O		

747 CLASSIC  
747 CLASSIC TK  
747 ECO  
747 ECO TK  
747 ECO TV  
747 ECO TV TK  
545

### Hose Reel & Hose

Rotating Safety Reel with 800' of 3/4" Hose	S	S	S	S						S
Dual Reel System										
Reel A- Rotating Safety Reel with 500' of Umbilical Cord @ 2500psi									S	S
Reel B- Rotating Safety Reel with 600' of 3/4" @ 2500psi Hose										
Dual Reel System										
Reel A- 3/4" or 1" 600' Capacity Reel	O	O	O	O						
Reel B- 1/2" 600' Capacity Reel										
Automatic Level Wind with Hydraulic Up/Down	O	O	O	O	O	O	O	O	O	O
Automatic Level Wind with Hydraulic Up/Down (for Dual Reel)	O	O	O	O						
Fixed Hose Reel	O	O	O	O						O
1000' x 3/4" Capacity Hose Reel	O	O	S	O						
5/8" @ 4000psi Sewer Hose (for Dual Reel)	O	O	O	O	O	S	S			
1/2" @ 4000psi Sewer Hose	O	O	O	O	O	O	S			
3/4" @ 2500psi Sewer Hose	O	O	O	O	O	O	O			
3/4" 3000psi Sewer Hose	O	O	O	O	O	O	O			
1" 2500psi Sewer Hose				O	O	O	O			
1" 3000psi Sewer Hose				O	O	O	O			
Smart Counter	O	O	O	O	O	O	O	O	O	
Smart Counter (for Dual Reel)	O	O	O	O	O	O	O			
Footage Meter (Mounted on the Hose Reel)	O	O	O	O	O	O	O	O	O	
Footage Meter (Mounted on the manual level wind)	O	O	O	O						O
Lateral Line Cleaning Kit	O	O	O	O	O	O	O	O	O	
Mini-Missile Nozzle	O	O	O	O	O	O	O	O	O	
Patriot II Root Cutter Kit	O	O	O	O	O	O	O	O	O	
25' x 3/4" Leader hose	O	O	O	O	O	O	O	O	O	
25' x 1" Leader Hose	O	O	O	O	O	O	O	O	O	
Washdown system with gun & 25' of Hose	S	S	S	S	S	S	S	S	S	O
Washdown system with retractable reel & 50' of hose	O	O	O	O	O	O	O	O	O	O

### TV System

Self-Leveling Color TV camera						S	S			
One 4" Jet Pod Skid						S	S			
Color Monitor						S	S			
DVR with Removable SD Card						S	S			
Additional Self Leveling Camera Head						O	O			
Additional 4" Jet Pod Skid						O	O			
6" Jet Pod Skid Extensions						O	O			
8" Jet Pod Skid Extensions						O	O			
10" Jet Pod Skid Extensions						O	O			
12" Jet Pod Skid Extensions						O	O			
15" Jet Pod Skid Extensions						O	O			
18" Jet Pod Skid Extensions						O	O			

### Tool Storage

Hose Guide/Wash-Down Gun, Upstream Pulley Guide Storage Tray	O	O	O	O	O	O				O
Additional	O		O		O					O
Top Opening Aluminum Toolbox										
Additional	O		O		O					O
Top Opening Steel Toolbox										
Long Handled Tool Storage Tube	O	O	O	O	O	O	O			
Root Cutter Maintenance Box	O	O	O	O	O	O	O			

### Lighting

LED D.O.T. Approved Lighting	S	S	S	S	S	S	S	S	S	
Compartment lighting	O	O	O	O	O	O	O			
LED Flood light	O	O	O	O	O	O	O	O	O	
LED rotating beacon	O	O	O	O	O	O	O	O	O	
LED Strobe Light	O	O	O	O	O	O	O	O	O	
LED Arrow Board	O	O	O	O	O	O	O	O	O	
Handheld Wireless Spotlight	O	O	O	O	O	O	O	O	O	

### Pendant Controls

Master Pendant	O	O	O	O	O	O	O			
Wireless Pendant	O	O	O	O	O	O	O			

Legend	
Standard	S
Optional	O

# BEST PRODUCTS, BEST LOCAL SUPPORT



## 800 TRUCK Series

The Model 800-HPR from Sewer Equipment CO. of America has been the gold standard truck jet by which all others in the industry are measured. The on-going innovation and evolution of this truck has forced others to imitate, but never duplicate the features that make the Model 800 truly superior.



The 800 truck jet series offers a number of different configurations based on the needs of each customer, with the most popular being the 800-HPR ECO. This configuration offers both triplex and single piston water pump options with a host of unique design features, making it the most productive, environmentally-friendly and safest truck-mounted jetter on the market. Additionally, we offer multitude of available options, making this truck a perfect fit for a wide range of customers and applications.

Maximizing run time is the best way to improve the performance of your cleaning crew, and the 800 ECO is designed with this in mind. A single axle package with 1500 gallons of standard water capacity provides operators with an easy-to-manuever footprint while maximizing cleaning footage between water refills. If more is better, our exclusive Duraprolene® water tanks allow capacities of 2000, 3000 and 4500 gallons. With water on board, our climate controlled environmental chamber with 80,000 BTU heater keeps the pump, rear hose reel and plumbing warm during cold weather applications.

The unique construction of the Duraprolene® tank includes a fully-baffled interior, eliminating dangerous surges of water when stopping or turning with thousands of pounds of water on board. Additionally, the fully-extendable rotating hose reel allows operators to position themselves with minimal exposure to traffic and other potential hazards. For additional safety, operators can option their truck with our wireless remote pendant which provides the operator full control of jetting operations from up to 1500 feet away.



The exclusive ECO operating system combines the simplicity and efficiency of a PTO hydrostatic pump drive with a power plant that operates at lower RPM than traditional designs. Trucks equipped with ECO options experience less engine wear and lower fuel consumption, saving operators time and money.

One of the greatest dangers facing cleaning crews today is the intrusion of utilities into sewers; particularly natural gas lines. The addition of televising capabilities allow operators to positively identify such obstructions before using aggressive cleaning nozzles or root cutters. Many other options, such as a rear backup camera, various pump configurations, safety lighting packages, wash down system and toolboxes can be chosen to maximize operator safety and productivity.

### *Model 800 Series IV*

The newest version of the 800 series is the Model 800 Series IV, offering the same all the same features as the 800-HPR ECO but with a host of new options to meet the growing needs of the market, which is an all-weather truck jet. The Series IV comes standard with a full closing rear door while the hose reel is extended, providing maximum heat retention inside the environmental enclosure where vital water components are stored. A retractable canopy protects the operator from sun and inclement weather. The hot water heater delivers hot water to the wash down reel, lateral reel and jetting circuits for cold weather applications. Additionally, this series offers the ability for winter-time recirculation of the water system at highway speeds.

The dual reel configuration touts two hose reels in one location with the secondary reel allowing for the addition of a televising jet pod or small line sewer hose, giving operators the ability to perform multiple applications using only one truck. The addition of multiple operator stations increases operator efficiency and safety, with one station located between the dual hose reels and a second at midship. While you may be able to find these features and options spread across offerings by various manufacturers, the 800 Series IV is the only truck jet that can deliver them all in a single truck. The 800 Series IV just raised the bar again.



# MODEL 800 SERIES

**ROTATING HOSE REEL:** This unique design allows for storage of the hose reel in the temperature controlled chamber when not in use. During operation, the rear roll-up door opens and the hose reel extends out and is now able to rotate a total of 190°. This allows maximum access to remote manholes, reduces operator fatigue, as well as minimizes operator exposure to "high traffic zones".

**CLIMATE CONTROLLED ENVIRONMENTAL ENCLOSURE:** Our unique, heated enclosure allows safe operation in temperatures well below freezing without worries of damaged pumps or plumbing. With a fully-welded one piece steel or all aluminum construction available, your truck will still look great inside and outside after years of exposure to the elements. Regardless of your climate, the locking roll up doors offer unequaled security for your truck and the equipment you carry to your job site.

**ECO OPERATING PLATFORM:** Operating lower RPM's than the competition, the 800 Series truck jet consumes considerably less fuel than traditional designs, adding to your bottom line each year. Perhaps more importantly, low RPM's equate to low noise emissions. Complaints from residents are minimized, and operators recognize a higher level of safety when they can hear each other and the traffic around them.

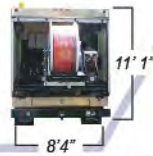
**OPERATOR CONTROL STATION:** After simply parking the truck in neutral and engaging the parking brake, all jet functions are controlled from the operator control station via four switches moving from left to right:

1. Work Mode - ON
2. Water Valve - ON
3. Jet - High/Low
4. Throttle - Up/Down

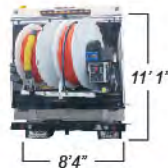
All controls are housed in a NEMA-4 box with washdown rated switches and gauges. All wiring is color coded and each manual contains a wiring diagram specific to your truck's serial number.

**DURAPROLENE® WATER TANKS:** Our exclusive Duraprolene® water tank design has a multitude of benefits. Unlike aluminum or steel, Duraprolene® is 100% immune to long term damage caused by water and deicers, such as magnesium chloride and common road salt. The square design holds more water per linear foot than round tanks, which is a major key to building a truck with a 1500 gallon standard water capacity that is under 23' in length. With driver safety in mind, each tank is fully baffled to eliminate water surge while turning and stopping.

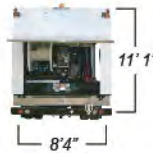
# BEST PRODUCTS, BEST LOCAL SUPPORT



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>800-HPR</b>	26'6"	8'4"	11'1"	1500 gallon	Single or Tandem Axle	1000'	1/2" - 1"



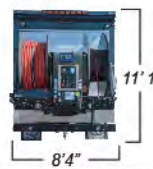
MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>800-HPRTV</b>	26'6"	8'4"	11'1"	1500 gallon	Single or Tandem Axle	1000'	1/2" - 1"



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>800-H</b>	22'6"	8'4"	11'1"	1500 gallon	Single or Tandem Axle	1000'	1/2" - 1"



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>800-HF</b>	28'8"	8'4"	11'1"	1500 gallon	Single or Tandem Axle	1000'	1/2" - 1"



MODEL	LENGTH	WIDTH	HEIGHT	STANDARD WATER CAPACITY	AXLE CONFIGURATIONS	MAX HOSE CAPACITY	HOSE SIZE
<b>800 Series IV</b>	28'1"	8'4"	11'1"	1500 gallon	Single or Tandem Axle	1000'	1/2" - 1"

# MODEL 800 SERIES

	800-HPR-ECO	800-HPRTY-ECO	800-H	800-HF	800-SERIES IV	800-SERIES IV TV
<b>Engine &amp; Pump</b>						
Triplex Plunger Water Pump w/ 30 Minue Run-Dry: 65gpm @ 2000psi	S	S	S	S	S	S
Hydrostatic Drive via World Trans	S	S	S	S	S	S
80gpm @ 2000psi	O	O	O	O	O	O
80gpm @ 2500psi	O	O	O	O	O	O
55gpm @ 3000psi	O	O	O	O	O	O
65gpm @ 2500psi - Single Piston Pump	O	O	O	O		
80gpm @ 2500psi - Single Piston Pump	O	O	O	O		
Accumulator for Single Piston Pump	O	O	O	O		
Environmental Friendly Hydraulic Fluid	O	O	O	O	O	O
<b>Hose Reel &amp; Hose</b>						
Rear-Mounted Safety Hose Reel 700' x 1" Hose capacity	S				S	
Front-Mounted Safety Hose Reel 700' x 1" Hose capacity				S	O	
Rear-Mounted Fixed Hose Reel 700' x 1" Hose capacity			S		O	
Hydraulically Powered Rotating Hose Reel	O	O				
Automatic Level Wind with Hydraulic Up/Down Action	O	O	O	O	O	O
Digital Smart Counter	O	O	O	O	O	O
Footage Meter (Mounted to Jet Hose Reel)	O	O	O	O	O	O
Footage Meter (Mounted on Manual Level Wind)	O	O	O	O	O	
Upgrade to 1000' Capacity Hose Reel	O	O	O	O	O	S
Sewer Hose 1" x 2500psi	O	O	O	O	O	O
Sewer Hose 1" x 3000psi	O	O	O	O	O	O
Sewer Hose 3/4" x 2500psi	O	O	O	O	O	O
Sewer Hose 3/4" x 3000psi	O	O	O	O	O	O
25'x1" Leader Hose	O	O	O	O	O	O
Hydraulic Manifold Reel Control	O	O	O	O	S	S
Manual Diverter Valve	O	O	O	O		
Hydraulic Tool Circuit	O	O	O	O	O	O
<b>Dual Reel Configurations</b>						
Automatic Level Wind with Hydraulic Up/Down Action	O				O	
Smart Counter (for Dual Reel)	O	O			O	S
Centralized Control Panel for Dual Reel					S	S
<b>Dual Telescoping Rotating Safety Reel:</b>						
<b>Standard Capacity</b>						
Main Reel: 600' x 1" OR 900' x 3/4"	O	O			O	
Aux Reel: 600' x 3/4" OR 1000' x 5/8" OR 1300' x 1/2"						
<b>High Capacity</b>						
Main Reel: 1000' x 1" OR 1500' x 3/4"	O	O			O	
Aux Reel: 1000' x 3/4" OR 1500' x 5/8" OR 1000' x 1/2"						
<b>TV System</b>						
Self-Leveling Color TV Camera		S				S
4" Jet Pod Skid		S				S
Color Monitor		S				S
DVR with Removable SD Card		S				S
Additional Self-Leveling Camera Head		O				O
Additional 4" Jet Pod for Camera		O				O
Jet Pod Skids from 6"-18"		O				O
<b>Dual Telescoping Rotating Safety Reel: TV Configurations</b>						
<b>TV Reel</b>						
Main Reel: 700' x 1" or 1000' x 3/4"	O	S				S
Aux Reel: 500' of Umbilical Hose						
<b>TV Crew Reel</b>						
Main Reel: 700' x 1" or 1000' x 3/4"	O	O			O	
Aux Reel: Platform for Aftermarket Camera System						

	800-HPR-ECO	800-HPRTY-ECO	800-H	800-HF	800-SERIES IV	800-SERIES IV TV
<b>Tank &amp; Fill System</b>						
1000 Gallon Water Tank	O	O	O	O	O	O
1500 Gallon Duraprolene® Water Tank	S	S	S	S	S	S
2000 Gallon Duraprolene® Water Tank	O	O	O	O	O	O
2500 Gallon Duraprolene® Water Tank	O	O	O	O	O	O
3000 Gallon Duraprolene® Water Tank	O	O	O	O	O	O
10'x6" Low Profile 1500 Gallon Water Tank	O	O	O	O	O	O
2.5" Fill System	S	S	S	S	S	S
Fill Hose Storage Rack	O	O	O	O	O	O
Tank Access Ladder	O	O	O	O	O	O
Duraprolene® Water Tank Warranty for 10 years	S	S	S	S	S	S
<b>Rear Compartment</b>						
Lighted NEMA 4 control panel	S	S	S	S	S	S
Tachometer & Hour Meter	S	S			S	S
Tachometer	S	S	S	S	S	S
Hour Meter	S	S	S	S	S	S
Air Purge Valve	S	S	S	S	S	S
Recirculation System	S	S	S	S	S	S
Painted Steel Shroud (3 Roll-Up Doors)	S	S			S	S
Painted Steel Shroud (2 Roll-Up Doors)			S	S		
Drain Valves for Water Pump	O	O	O	O	O	O
Lateral Line Cleaning Kit w/ Electrical Rewind	O	O	O	O	O	O
Lateral Line Cleaning Kit w/ Electrical Variable Rewind					O	O
Washdown System with Retractable Reel & 50ft of Hose	O	O	O	O	O	O
Upgrade to Aluminum Shroud	O	O	O	O	O	O
80,000 BTU Enclosure Heater	S	S	S	S	S	S
400,000 BTU Water Heater					O	O
800,000 BTU Water Heater					O	O
Winterization System					O	O
Midship Water Manifold					S	S
<b>Pendant Controls</b>						
Master Pendant	O	O	O	O	O	O
Wireless Pendant	O	O	O	O	O	O
<b>Lighting</b>						
D.O.T. Approved LED Lighting	S	S	S	S	S	S
Compartment Lighting	O	O	O	O	O	O
LED Flood Light	O	O	O	O	O	O
LED Rotating Beacon	O	O	O	O	O	O
LED Strobe Light	O	O	O	O	O	O
LED Arrow Stick	O	O	O	O	O	O
LED Arrow Board	O	O	O	O	O	O
Handheld Wireless Spotlight	O	O	O	O	O	O
<b>Truck Mounting and Tool Storage</b>						
Air Purge System	O	O	O	O	O	O
Hydrostatic Front Crankshaft	O	O	O		O	O
Rear Gauge Cluster	O	O	O	O	S	S
Spray Bar (Front Frame Mounted)	O	O	O	O	O	O
Fixed Overhead Canopy	O	O			O	O
Steel Skirting and Steel Toolboxes	O	O	O	O	O	O
Steel Skirting and Aluminum Toolboxes	O	O	O	O	S	S
Skirting Only	O	O	O	O	O	O
Long Handled Tool Storage	O	O	O	O	O	O
Long Handled Tool Storage Tray					O	O
Roll-Out Root Cutter Maintenance Box	O	O	O	O	O	O
Rear Back-Up Camera System	O	O	O	O	O	O
Reese Style Hitch	O	O	O	O	O	O
Combination Heavy Duty Ball Hitch	O	O	O	O	O	O
(6) 28" D.O.T. Safety Cones and Holder	O	O	O	O	O	O
Electric Awning					O	O
<b>Truck</b>						
Mounting to Approved Chassis	S	S	S	S	S	S
Mud Flaps	S	S	S	S	S	S
Bumper	S	S	S	S	S	S
Hitch Receiver	S	S	S	S	S	S

Legend	
Standard	S
Optional	O

# BEST PRODUCTS, BEST LOCAL SUPPORT



## 800 Series Hose Reel

Sewer Equipment has been a leading manufacturer in the sewer cleaning industry for many years and when it comes to new equipment technology, we are always developing innovative ways to address the concerns and needs of our customers. Sewer Equipment holds a patent for the extendable/retractable hose reel. This feature of our hose reel, paired with its ability to rotate 190 degrees and a number of other features, makes the Model 800-HPR the best jetting truck for your application.



**190 Degree Rotation:** The 800-HPR series offers a hose reel that rotates 190 degrees and locks at every two inch interval. This allows operators to set up the machine directly facing the manhole, while remaining out of the path of traffic, increasing safety for and effectiveness of the operator.

**Extension/Retraction:** The hose reel extends in and out of the shroud by means of a hydraulic cylinder, resulting in smooth and reliable movement of the hose reel.

**Strong Bearing:** Like a house, your hose reel needs a strong foundation. We mount our hose reel on an industrial bearing rated at 5,000 pounds for security and stability.

**Hose Reel Construction:** Sewer Equipment offers 1 1/2" rolled flanges as standard equipment on all hose reel assemblies in order to eliminate the possibility of the sewer hose being cut while interfacing with the hose reel. This design also increases the structural integrity of the hose reel side.

**Automatic Level Wind:** Exclusive to Sewer Equipment machines, the automatic level wind provides hydraulic up/down action which allows operators to access hard-to-reach manholes by raising and lowering the level wind to properly align the sewer hose with the manhole. This feature coupled with the rotating reel, will give any operator better alignment with the manhole.



HOSE REEL EXTENDED

# MODEL 800 SERIES

## WHY A JETTING TRUCK WITH TELEVISIONING CAPABILITIES?

### PRODUCTIVITY

A truck jet with televising capabilities is truly a multi-purpose piece of equipment. With a televising truck jet, there is no more waiting around for a camera truck and crew to arrive when you hit an obstruction during jetting operations. Your operator can utilize the truck's televising capabilities to diagnose the issue on the spot and even go so far as to document the obstruction or event.

### LESS CAPITAL INVESTMENT REQUIRED

It goes without saying, when you only buy one piece of equipment instead of two, you are saving money. However, savings are also recognized as less operators are needed to run one truck instead of two.

### ECO FRIENDLY FOOTPRINT

In a world where "eco-friendly" matters and communities care, decreasing your physical footprint is a point worth considering. By utilizing one truck to perform both televising and jetting functions, you eliminate the need for a camera truck entirely, therefore eliminating all emissions released by that truck.

## WHICH MODEL IS RIGHT FOR YOUR APPLICATION?



### Model 800-HPRTV

**System:** This system is powered by Cues® and comes complete with a self-leveling straight-view camera, color monitor, keyboard, footage counter and SD storage card. All components are housed in a temperature-controlled and weather-rated enclosure, located at the jetting operator station.

**Functionality** This platform allows the operator to evaluate a line for blockages and general pipe conditions. While this system will not replace a fully-equipped camera truck, it will improve your cleaning crew's productivity instantly.



### Model 800-HPRTV CREW

**System:** The "Crew" platform allows you to outfit your jetting truck with the camera system of your choice. There is a platform adjacent to the jet hose used to mount your preferred camera system. In addition, the truck can be configured to accommodate an extended cab chassis, which allows the space for your camera operator's mobile office.

**Functionality:** Depending on the type of camera system you choose, this platform allows your operator to not only evaluate line conditions, but also complete PACP documentation utilizing only this truck.

# BEST PRODUCTS, BEST LOCAL SUPPORT



## 900<sup>ECO</sup>

# Truck

Sewer Equipment Co. of America's Model 900 ECO Combination Sewer Cleaner utilizes proven technologies to deliver a machine with simplicity that is unequalled in the industry. As with our leading 747 ECO trailer jet and 800-HPR ECO truck jet, the Model 900 ECO operating platform offers the best in class fuel efficiency and noise reduction for operator safety. Sewer Equipment: Best Products, Best Local Support.



Life used to be so simple, and chances are, so was your combination truck. All indicators are that times have changed in the equipment market, and users are being forced to accept increased complexity when they purchase a new piece of equipment. Operators, mechanics and supervisors are left wondering what happened to their old truck that was so easy to operate and maintain.

At Sewer Equipment, we have been wondering the same thing. Does integrating CAN Bus communication systems, touch screen interfaces and computer controlled logic result in increased productivity, cost effectiveness, operator satisfaction, reliability, longevity or safety? In talking to most owners, the answer is an emphatic, "NO!"

Introducing the Sewer Equipment Co. of America Model 900 ECO, a machine that puts safety, simplicity and reliability back into your work day. How do we do it?

It starts with our patented "Hydro Drive" powertrain system, which powers the pump, the blower and the auxiliary hydraulic systems. When you are ready to work, simply put the truck in neutral, apply the parking brake and exit the cab. The truck remains in neutral and power is taken directly from the chassis engine, assuring operator safety during operation, as there is no transfer case to slip into gear.

We have made the operator interface as easy as 1-2-3-4. An operator must flip a switch to put the truck into "Work Mode" and from there you can engage switches for the water pump, blower and throttle. No special sequence, that's it!

The simplicity continues as our unit is also controlled via 12 volt switches, relays and solenoids, as well as manual hydraulic controls. Operators can be trained to safely operate the truck in minutes, not days or weeks. Mechanics can perform diagnostic analysis with a simple test light and a hydraulic pressure gauge, no laptop with special programs required.

The Model 900 ECO also operates at 35% lower RPM than the competition, consuming considerably less fuel than traditional designs, adding to your bottom line each year. Perhaps more importantly, lower RPM's equate to less noise emission. Complaints from residents are minimized, and operators enjoy a higher level of safety when they can hear each other and the traffic around them.

So, why has equipment become so complex? Most manufacturers in the sewer cleaning industry have chosen to use CAN Bus communication to control functions via ECU's (Electronic Control Units) on their units. In theory, this technology promises ease of operation and troubleshooting, as well as increased efficiency and productivity. However, in reality, operators are faced with a truck that requires navigation of control menus to perform simple functions, and a truck that mechanics cannot diagnose without specialized training and a laptop equipped with the proper diagnostics program. All things combined, the claim of increased efficiency and productivity quickly dissolves.

Whether you choose your next combination truck based on productivity, reliability, safety, overall value, ease of operation, ease of maintenance or any combination of these traits, the choice is simple: the Model 900 ECO.



# MODEL 900 SERIES



**WATER TANK PROFILE:** Exclusive Duraprolene® construction offers 100% immunity to corrosion and dents for unparalleled service life and eliminates the need for draining during storage. The fully baffled construction eliminates sloshing and allows safe travel while full, or partially full of water.



**POWERTRAIN:** The most advanced powertrain in the industry, our exclusive "Hydro Drive" powertrain system takes all required power directly from the chassis engine. There is no need for an auxiliary engine, and unlike most other designs, our truck remains in neutral while in work mode, increasing operator peace of mind and safety, as no transfer case is needed.



**START UP:** Operator simplicity begins in the cab. Simply put the truck in neutral and engage the parking brake. That's it! All other jetting and vacuum functions are controlled from the operator interface on the hose reel.



**CHASSIS INTEGRATION:** Sewer Equipment's only interface between our module and the chassis is via the OEM throttle control port. This intentional lack of integration eliminates problems caused by CAN Bus communication issues between the chassis and module, which are typical on competitor's designs. If this seems like an insignificant detail, please ask for your fleet manager's opinion.



**OPERATOR INTERFACE:** Going to work is as simple as 1-2-3-4. Simply engage the following switches:

1. Work Mode - ON
2. Water Pump - ON
3. Blower - ON
4. Throttle - ON

You are now jetting and vacuuming. Compare this to the "rocket ship" controls of other equipment that include touch screens and digital displays. Our easy-to-use and easy-to-understand controls enhance safety and long term reliability, while making an operator's job more pleasant.



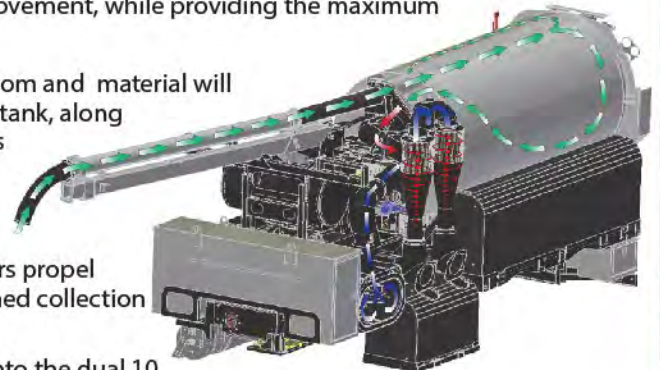
## Air Flow System

The air system is the secret behind our industry leading performance. Our air system is designed to deliver industry leading air movement, while providing the maximum protection for your blower.

The first stage in the air system is the debris tank. Air will enter through the boom and material will impact the deflector plate and start to drop into the tank. The air entering the tank, along with the material, is routed from the single 8" entry point to dual 10" exit points located at each side of the entry. Thus slowing down the air flow and improving material separation.

The second stage of the air system takes the air from the tank and routes it into our cyclone separators. At this point the cyclonic action of these separators propel any remaining material to the side walls and then down into an easily maintained collection box.

In the final stage of the air system, the air moves from the cyclone separators into the dual 10 micron final filters. These washable filters will capture any remaining fine particles still in the air stream before allowing the air to pass through the positive displacement blower.



# BEST PRODUCTS, BEST LOCAL SUPPORT



MODEL	DEBRIS CAPACITY	LENGTH	WIDTH	HEIGHT	MAX WATER CAPACITY	AXLE CONFIGURATION	MAX HOSE CAPACITY	HOSE SIZE	MIN HP	BOOM EXTENSION
<b>6 YRD</b>	6 YARD	33' 7"	8' 5"	11' 10"	800 Gallon	Single Axle	800'	3/4" - 1"	370 HP	10'



MODEL	DEBRIS CAPACITY	LENGTH	WIDTH	HEIGHT	MAX WATER CAPACITY	AXLE CONFIGURATION	MAX HOSE CAPACITY	HOSE SIZE	MIN HP	BOOM EXTENSION
<b>9 YRD</b>	9 YARD	35' 7"	8' 5"	11' 10"	1350 Gallon	Single Axle	800'	3/4" - 1"	370 HP	10'



MODEL	DEBRIS CAPACITY	LENGTH	WIDTH	HEIGHT	MAX WATER CAPACITY	AXLE CONFIGURATION	MAX HOSE CAPACITY	HOSE SIZE	MIN HP	BOOM EXTENSION
<b>12 YRD</b>	12 YARD	38' 7"	8' 5"	11' 10"	1700 Gallon	Tandem Axle	800'	3/4" - 1"	370 HP	10'



MODEL	DEBRIS CAPACITY	LENGTH	WIDTH	HEIGHT	MAX WATER CAPACITY	AXLE CONFIGURATION	MAX HOSE CAPACITY	HOSE SIZE	MIN HP	BOOM EXTENSION
<b>15 YRD</b>	15 YARD	41' 7"	8' 5"	11' 10"	1950 Gallon	Tridem or Tandem w/ Pusher Axle	800'	3/4" - 1"	370 HP	10'



# MODEL 900 SERIES

Water System		Truck		Hose Reel & Hose	
Cold Weather Recirculation System	S	Air Purge Winterization System	O	Front Mounted Telescoping & Rotating	S
2.5" Hydrant Fill System	S	Tow Hooks (2)	O	800' x 1" Capacity	S
Air Purge Valve	S	Combination Heavy Duty/Ball Pintle Hitch	O	10' Leader Hose	S
Variable Volume Delivery	S	Central Lubrication System	O	Single Side Controls	S
Low Water Warning Light	S	Hydraulic Tool Circuit via Hydraulic	O	Automatic Level Wind	O
Analog Pressure Display	S	Diverter Valve	O	with Hydraulic Up/Down Action Hitch	O
Front and Rear Hand Gun Ports	S	<b>Debris Tank &amp; Rear Door</b>		Digital "SMART COUNTER" Footage Meter	O
Fill Hose Storage Rack	O	6 Cubic Yard Capacity	S	Secondary Operators Station	O
Standard Hydro Excavation Cleaning Kit	O	9 Cubic Yard Capacity	S	Pinch Roller	O
Cold Weather Hydro Excavation Cleaning Kit	O	12 Cubic Yard Capacity	S	Sewer Hose (1" I.D., 2500 PSI Operating Pressure) Per Ft	O
2" Y-Strainer on Inlet Fill System	O	15 Cubic Yard Capacity	S	Sewer Hose (3/4" I.D., 3000 PSI Operating Pressure) Per Ft	O
Anti-Freeze System	O	Debris Level Indicator	S	25' x 1" Leader Hose	O
<b>Water Pumps</b>		Hydraulic Dump, 50 Degree Dump Angle	S	1000' x 1" Reel Capacity Upgrade	O
Triplex <b>Plunger</b> Water Pump w/ 30 Minute Run-Dry: 65 GPM @ 2000 PSI Performance	S	Dual Ported Rear Door w/ Knife Valve Dump Height 60"	S	<b>Electrical</b>	
Triplex <b>Plunger</b> Water Pump w/ 30 Minute Run-Dry: 80 GPM @ 2000 PSI	O	Hydraulic Open/Close/Lock Door	S	NEMA 4 Control Panel	S
Triplex <b>Plunger</b> Water Pump w/ 30 Minute Run-Dry: 55 GPM @ 3000 PSI	O	Debris Body Pump Off System	O	Hour Meter (Blower & Water Pump)	S
Single Piston 65 GPM @ 2500 PSI Water Pump	O	Debris Liquid Level Audible Alarm	O	Military Spec. Sealed Switches	S
Single Piston 80 GPM @ 2500 PSI Water Pump	O	Additional 6" Knife Valve on Rear Door	O	Wireless Remote Control Pendant	O
Accumulator for Single Piston Pump	O	Complete with Inlet Strainer	O	Wired Remote Control Pendant W/35' Cord	O
<b>Water Tanks</b>		Decant Screen on Rear Door	O	Enhanced Visibility Camera System	O
Black Duraprolene Water Tank Construction	S	Debris Inlet Water Misting System	O	LED Rotating Beacon	O
Base 600 Gallon Capacity Water Tank 6 Yard	S	Positive Pressure Decant System	O	LED Strobe Light	O
Base 900 Gallon Capacity Water Tank 9 Yard	S	<b>Boom</b>		LED Arrow Board	O
Base 1300 Gallon Black Duraprolene® Water Tank (debris box saddle) 12 Yard	S	Hydraulic Powered Boom	S	LED Arrow Stick	O
Base 1500 Gallon Black Duraprolene® Water Tank (debris box saddle) 15 Yard	S	180 Degree Working Radius	S	LED Panel Mounted Work Light	O
Additional 200 Gallon Duraprolene® Water Tank (driver side rail)	O	10' Extendable Design	O	LED Manhole Area Work Light	O
Additional 150 Gallons Duraprolene® Water Tank (between rails) 9 Yard	O	70 Degree Steel Elbow	S	LED Curbside Body Mounted Work Light	O
Additional 200 Gallons Duraprolene® Water Tank (between rails) 12 Yard	O	Telescoping Boom System	S	LED Boom Mounted Work Lights (2)	O
Additional 250 Gallons Duraprolene® Water Tank (between rails) 15 Yard	O	<b>Vacuum System</b>		LED Rear Mounted Work Lights (2)	O
Upgrade Duraprolene® Water Tank From 7yr to 10yr Warranty	O	4400 CFM Blower	S	LED Handheld Wireless 12v/110 Rechargeable	O
Water Tank Low Level Audible	O	8" Vacuum Hose System	S	<b>Accessories</b>	
<b>Manual &amp; Training</b>		18" Hg Vacuum Rating	S	(3) 8" X 6' Extension Tubes	S
(1) Paper Owner's Manual	S	Dual Cyclone Separator	S	(1) 8" X 4' Extension Tubes	S
Additional Paper Operators Manual	O	Dual Element 10 Micron Final Filter	S	(1) 6" X 10' Lay Flat Hose"	S
Cd-Rom Operator's Manual	O	Variable Volume Delivery	S	(1) 8" X 6' Crowned Suction Nozzle	S
On-site Factory Training (1 day)	O	Analog Vacuum Display	S	(5) Quick Clamps	S
On-site Factory Training (additional per/day)	O	Remote Vacuum Relief	S	BB Hose Guide	S
		5000 CFM Blower Upgrade	O	<b>Toolbox Configurations</b>	
		<b>Toolbox Configurations</b>		Tri-Star (chisel point) nozzle	S
		(1) Alum Toolbox 24" x 36 x 96" - Behind Cab	S	DD (high flow) nozzle	S
		(2) Alum Toolbox 18" x 18" x 30" - Passenger	S	Finned Nozzle Extension	S
		(1) Alum Long Handle Storage - Rear	S	Nozzle Rack	S
		Additional 18" x 18" x 30" Aluminum Toolbox	O	25' Fill Hose	S
		Bumper Mounted Aluminum Tool Box	O	Upstream Pulley Guide	S
		(1) 12" x 12" x 14"	O	Wash down gun w/ 25' ext. Hose	S
		<b>Paint (Module)</b>		(1) Fan Nozzle (for Wash down Gun)	S
		Debris Tank - Boom: Standard White	S	(1) Hydrant Wrench	S
		Hose Reel - Upright: Sewer Blue	S	LED D.O.T. Approved Lighting	S
		All Other Colors (all colors except metallics)	O	(6) 18" D.O.T. Safety Cones and Holder	S

Legend	
Standard	S
Optional	O

MODEL	DEBRIS CAPACITY	LENGTH	WIDTH	HEIGHT	MAX WATER CAPACITY	AXLE CONFIGURATION	MAX HOSE CAPACITY	HOSE SIZE	MIN HP	BOOM EXTENSION
900 ECO	6 YARD	33'7"	8'5"	11'10"	800 Gallon	Single Axle	800'	3/4" - 1"	370 HP	10'
	9 YARD	35'7"	8'5"	11'10"	1350 Gallon	Single Axle	800'	3/4" - 1"	370 HP	10'
	12 YARD	38'7"	8'5"	11'10"	1700 Gallon	Tandem Axle	800'	3/4" - 1"	370 HP	10'
	15 YARD	41'7"	8'5"	11'10"	1950 Gallon	Tridem or Tandem w/ Pusher Axle	800'	3/4" - 1"	370 HP	10'

# BEST PRODUCTS, BEST LOCAL SUPPORT



## JAJ-600 Series

Are certain sewer pipes in your community neglected due to hard to reach manholes? Do your maintenance crews have to manually drag hose across easements or do they cause damage to yards, golf courses or environmentally sensitive areas when trying to get their trucks close enough to service these remote

lines? If this is the case, a Sewer Equipment Company of America easement machine would be an invaluable asset to your fleet. Offered in two configurations, the JAJ-600WH (extendable track) and JAJ-600SK (skid mounted) units extend the reach of your sewer jetting truck or trailer by 500 feet or more and reduce sewer overflows by easing maintenance tasks.



The JAJ-600WH is driven by a Honda V-twin engine on a hydro-statically powered tread drive platform. This simple design eliminates drive chains and sprockets and provides clean and quiet operation. Obstacles that leave wheel drive units spinning, such as small logs, rocks, creeks, hills, curbs, stairs, sand, mud and snow, are all easily traversed by the JAJ's tread drive system while pulling your jet hose to the manhole. While offering tremendous traction, rubber tracks distribute weight evenly and limit ground pressure to only four pounds per square inch; the same standard applied to golf course maintenance equipment.

Standard features for the tread drive unit includes skid steering with dual joystick controls, safety pressure relief valve, 180° rotating safety reel and a 5GPM/10GPM hydraulic tool circuit for powering bypass pumps and hydraulic saws. Available options include automatic level wind with hydraulic up/down action, safety lights, work lights, tandem transport trailer and more.

The JAJ-600WH has the ability to fit through standard 36" gates while offering superior lateral stability off road with tracks that hydraulically extend from 34" to 46" in seconds.



# EASEMENT MACHINES

**ROTATING HOSE REEL:** For safety and ease of use, our reel rotates 180 degrees and can lock every two inches allowing operators to position the machine directly facing the manhole. This is important because although the Work Horse is extremely maneuverable, there may be applications and environments where it is more difficult to position directly over the manhole.



**ALUMINUM CONSTRUCTIONS:**

Excessive weight is the enemy of all equipment. We go to great pains to make our easement machines as light as possible in order to offer some of the lowest ground pressure ratings in the industry. Whether it is our Workhorse or Skid model, no other manufacturer in the market offers the combination of stability and light weight.



**AUTOMATIC LEVEL WIND:** This unique option allows for "hands free" winding of the sewer hose onto the hose reel without the operator touching the sewer hose. This option will incorporate a drive system, which scrolls a pivoting four roller head back and forth across the hose reel for proper winding of sewer hose onto reel. The system is equipped with a hydraulic controlled elevation system, which incorporates dual cylinders and a pivot arm to raise and lower the level wind guide depending on the location of the manhole. Level Wind raises and lowers a minimum of 45 degrees.

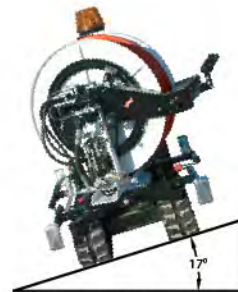


**TRACK DRIVE SYSTEM APPROACH:** All of our units utilize the "caterpillar type" independently suspended track system exclusively. Wheels with rubber tracks over the top may look similar but are anything but similar in practice. This system allows for superior weight distribution and thus minimal damage to the turf you are operating on. In addition we also offer a system in which these tracks expand outward in order to give you a more stable stance on all terrains while allowing for entrance into the narrowest of access points.

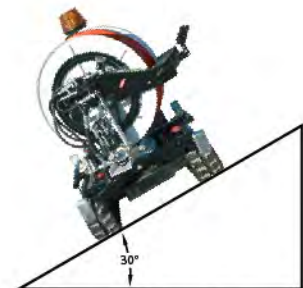


## Extendable Track System

The best part of the Work Horse track system is that it is extendable. The 9 inch wide tracks extend hydraulically from 34 inches to 46 inches and can be set at any distance in between. This allows the work horse to travel through a 36 inch gate - then extend the tracks out so stability is increased as it travels over inclines. When the tracks are extended to 46 inches, the Work Horse improves its approximate angle of balance from 17° to 30°.

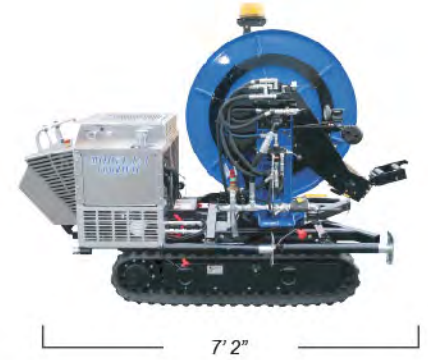
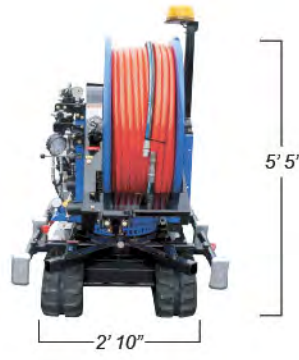


Retracted Position  
34" Width

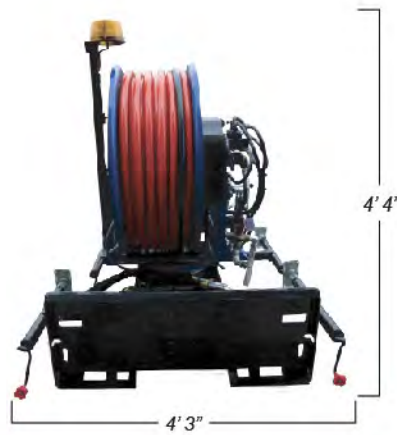


Track Extended  
46" Width

# BEST PRODUCTS, BEST LOCAL SUPPORT



MODEL	LENGTH	WIDTH	HEIGHT	MIN HP	HYDRAULIC REQUIREMENT	MAX HOSE CAPACITY	TRACK WEIGHT DISTRIBUTION
JAJ-600WH	7' 2"	2' 10"	5' 5"	24hp	10gpm @ 2000psi	1" x 600'	3.4 PER sq in



MODEL	LENGTH	WIDTH	HEIGHT	MOUNTING STANDARD	HYDRAULIC REQUIREMENT	MAX HOSE CAPACITY
JAJ-600SK	5' 6"	4' 3"	4' 4"	SAE-J2S13	10gpm @ 2000psi	1" x 600'

# EASEMENT MACHINES

JAJ-600WH  
JAJ-600SK

<b>Power System</b>		
Gas powered, Hydraulically Driven	S	
Dual Independent Extendable Tracks	S	
Skid Style Steering	S	
Dual Hydraulic Tool Circuit 5 or 10 GPM	S	
Universal Mounts to Skid Steer		S
Includes - Aux. Hydraulics circuit with 10 GPM @ 2,000 PSI	S	
Requires - Aux. Hydraulics circuit with minimum 10 GPM @ 2,500 PSI		S
<b>Hose Reel</b>		
Rotating Safety Hose Reel	S	S
600' x 1" Sewer Hose Capacity	S	S
Pressure Relief Valve	S	S
Hose Reel Variable Speed Control	S	S
Automatic Level Wind (Limit hose to 500' of 1")	O	O
Digital Smart Counter (Footage Counter)	O	O
Footage Meter (On Jet Hose Reel)	O	O
Footage Meter (On Manual level Wind)	O	O
Sewer Hose 1" 2,500 PSI	O	O
Sewer Hose 1" 3,000 PSI	O	O
Accumulator (for single piston pumps)	O	O
Pinch Roller	O	O
Outriggers (four)	O	O
<b>Lighting</b>		
LED Floodlight	O	
LED Rotating Beacon	O	
LED Strobe Light	O	
12 Volt Power Outlet	O	
Handheld Wireless Spotlight	O	O
<b>Features</b>		
10' Leader Hose	S	S
25' x 1" Leader Hose	O	O
Hydraulic Pressure Gauge	S	S
Water Pressure Gauge	S	S
Hour Meter	S	
Paper Operator Manual	S	S
USB Operator Manual	O	O
Patriot Root Cutter Kit	O	O
<b>Transport Trailer</b>		
8' x 10' Tandem Axle 5,200lbs. GVWR	O	
5' Fold Down Gate		
8' x 12' Tandem Axle 7,000lbs. GVWR	O	
5' Fold Down Gate	O	
Hydraulic Surge Brakes	O	
Aluminum Toolbox, tongue-mounted	O	

<b>Legend</b>	
Standard	<b>S</b>
Optional	<b>O</b>



## RODDER Series



Sewer Equipment Company of America rodders offer a fantastic sewer cleaning alternative to those communities looking to conserve water, fuel and budgetary resources. This machine allows you the ability to cut roots all day without using a drop of water and only a small fraction of the fuel consumed by a traditional jetter. Not to mention, the full cost of this machine is the same as a down payment on a typical combination sewer cleaner. Being a mechanical device, rodders excel at clearing roots and other obstructions, climbing long or extreme grades and cleaning in temperatures below freezing.

We offer a complete line of rodders, including continuous and sectional designs configured in truck or trailer packages. Trailers are light enough to be towed with a half-ton pickup and their 24 HP gas engines can run all day on several gallons of fuel. Truck-mounted units can be powered by an auxiliary 24 HP gas engine or hydro-statically via a truck's PTO.



# RODDER SERIES

**ONE PIECE ENCLOSURE:** Our one piece enclosure is designed to maintain its cosmetic and functional integrity throughout the life of your equipment. While most manufacturers bolt individual panels together to achieve its purpose this practice leads to rusting panels, missing fasteners and overall degradation of the equipment. In addition to the structural and cosmetic integrity, these enclosures function to maintain temperatures above freezing in most conditions. With steel or aluminum available as materials of construction, as well as the 80,000 BTU heater or various types of insulation packages, our units are designed for the harshest weather and road conditions.

**BALANCED YOKE:** We go to great lengths to provide our units with the most concentric, most balanced yoke in the industry. This means that long term, you have less wear and tear on your suspension, bearings and the entire unit in general. While this is not the most cost effective approach, it provides you the best value for your dollar and is what we strive for.



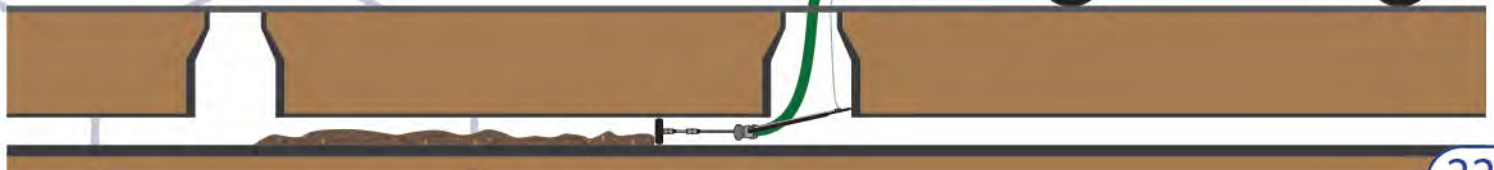
**NEMA 4 WIRING:** Moisture can cause havoc on electrical systems which is why we choose to protect our electrical systems with NEMA rated enclosures. NEMA is an acronym for National Electrical Manufacturers Association and this organization specifies design criteria for electrical enclosures and their sealing abilities. Rather than just run wires to and from various devices, we choose to design our products to resist the rigors of your application by utilizing these enclosures on our products and eliminate the maintenance issues related to moisture intrusion in electrical systems which do not use these methods.



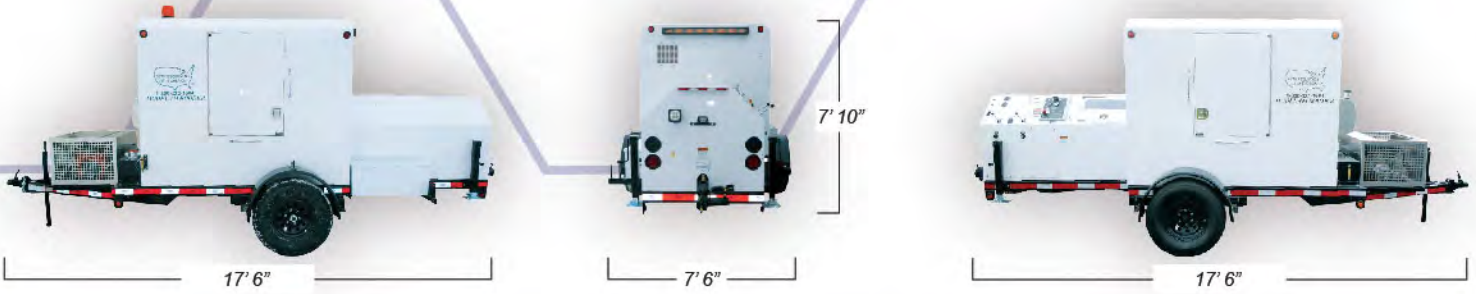
**LOCKING DOORS:** The doors utilized by the Rodder series have a safety feature build into them. If the machine is running and an operator opens the doors, the unit will automatically shut off. This will keep operators from being injured should they need to get inside the shroud.



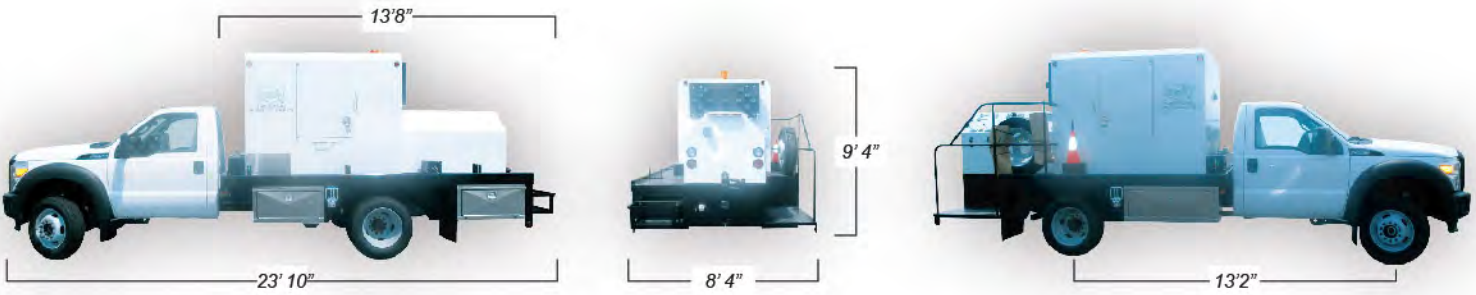
**HOW IT WORKS**  
**Rodder Series**



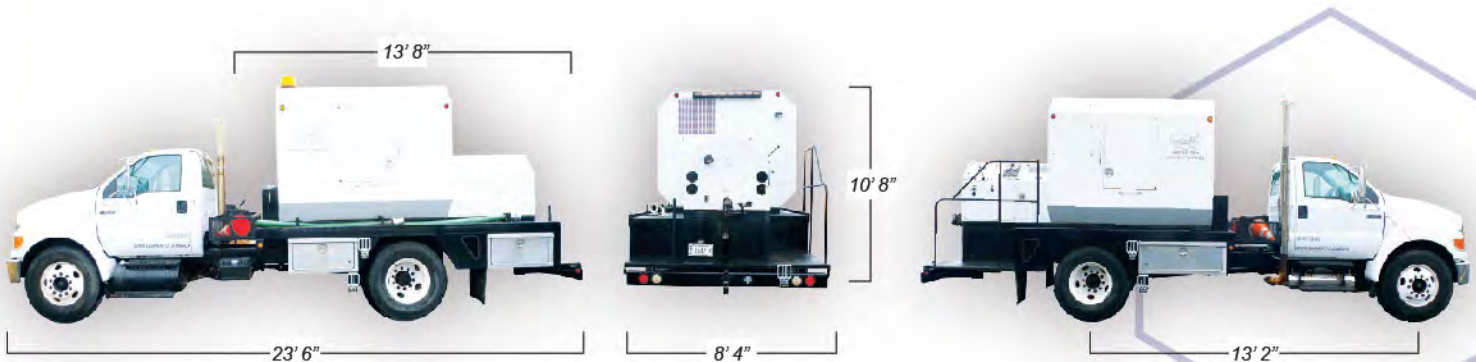
# BEST PRODUCTS, BEST LOCAL SUPPORT



MODEL	LENGTH	WIDTH	HEIGHT	MIN HP	AXLE CONFIGURATIONS	ROD TYPE
<b>MODEL 444</b>	17' 6"	7' 6"	7' 10"	24hp	Single	Sectional



MODEL	LENGTH	WIDTH	HEIGHT	MIN HP	AXLE CONFIGURATIONS	ROD TYPE
<b>MODEL 866</b>	23' 10"	8' 4"	9' 4"	24hp	Single	Continuous



MODEL	LENGTH	WIDTH	HEIGHT	MIN HP	AXLE CONFIGURATIONS	ROD TYPE
<b>MODEL 877</b>	23' 6"	8' 4"	10' 8"	40hp	Single	Continuous



# RODDER SERIES

	444	444 TK	866	866 TK	877
<b>Engine &amp; Drive System</b>					
Honda 24hp Gas Engine with Aluminum Shroud	S	O	S	O	
Upgrade to 25hp Diesel Engine	O	O	O	O	
Lighted NEMA 4 Control Panel	S	S	S	S	S
Friction Footage Meter	S	S	S	S	S
Cumulative Footage Meter	O	O	O	O	O
Voltage Meter	O	O	O	O	O
Hour Meter	O	O	O	O	O
<b>Rod Group</b>					
10 Dog Drive Head	S	S			
Chain Drive Rod Drive Roller System			S	S	
72" Rod Storage Reel					S
60" Rod Storage Reel	S	S	S	S	
Steel Shroud, Clear window for Drive Head	S	S	S	S	S
Auto Reflex Drive	O	O	O	O	O
5/16" x 39" Super Premium Sectional Rod (Max of 385 Rods)	O	O			
3/8" x 39" Super Premium Sectional Rod (Max of 280 Rods)	O	O			
800' of .461 Rod			O	O	O
1,100' of .393 Rod			O	O	O
1,100' of .415 Rod			O	O	O
1,200' of .375 Rod			S	S	S
1,200' of .393 Rod					O
1,200' of .415 Rod					O
1,200' of .461 Rod					O
Single Lever Hydraulic Control	O	O	O	O	S
Dual lever Hydraulic Controls	S	S	S	S	O
Independent Relief Valves and Gauges	O	O	O	O	O
Two Motors on Drive Head with Two Speed Hydraulic Control			O	O	S
Automatic Hydraulic Hold-Down for Drive Head			O	O	S
<b>Trailer</b>					
Torsion Axle 6,000lbs. GVWR	S		S		
Electric Brakes	S		S		
Hydraulic Brakes	O		O		
2-5/16" Ball Hitch	S		S		
Steel Toolbox (Street side)	S		S		
Frame-Mounted Tool Box	O		O		
Spare Tire and Rim	O		O		
Two Hydraulic Leveling Legs	O		O		
<b>Truck</b>					
Mount Unit on Cab/Chassis		S		S	S
Rear Back-Up Camera System		O		O	O
Reese Style Hitch 10,000lbs. Max Load		O		O	O
Heavy Duty Frame		S		S	S
Full Decking		S		S	S
Skirting		S		S	S
Handrail		S		S	S
Three Toolboxes		S		S	S
Mud Flaps		S		S	S

	444	444 TK	866	866 TK	877
<b>Accessories</b>					
25' Lightweight Hose Guide	S	S	S	S	S
Single Prong Brace	S	S	S	S	S
Nose Jack Wheel "Caster"	S		S		
Two Assembly Wrenches	S	S	S	S	S
Snap on Pliers with Cleaners			S	S	S
Paper Operator Manual	S	S	S	S	S
USB Operator Manual	O	O	O	O	O
Key Ignition Switch	S		S		
Six 28" D.O.T. Safety Cones and Holder	O	O	O	O	O
<b>Lighting</b>					
D.O.T. Approved Lighting	S	S	S	S	S
Compartment Lighting	O	O	O	O	O
LED Stop/Tail/Turn Lights	O	O	O	O	O
LED Floodlight	O	O	O	O	O
LED Rotating Beacon	O	O	O	O	O
LED Strobe Light	O	O	O	O	O
LED Arrow Stick	O	O	O	O	O
LED Arrow Board	O	O	O	O	O
Handheld Wireless Spotlight	O	O	O	O	O

<b>Legend</b>	
Standard	S
Optional	O



## BUCKET Machines



Most experts maintain that, while there are newer methods, a Sewer Equipment Company of America bucket machine is the preferred method for cleaning larger lines that are heavily laden with sediment. Our process allows for a clamshell bucket to be pulled into the pipe with the pull-in module until the bucket is full. Once full, the truck loader module pulls the bucket back out of the line by way of a cable, therefore closing the clamshell and the material can be deposited into a truck. This process is repeated until the line is clean.

Bucket machines hold many advantages: no water is required for operation and only solids are hauled by the bucket, which allows for large lines to be cleaned more quickly and effectively than with a combination truck. Bucket machines are also an excellent clean up tool in the event of a petroleum or chemical spill, as no water is added to the material during cleaning, thus saving an disposal costs.



# BUCKET MACHINES

## ANTI-BACK LASH

**ROLLER:** This mechanism is to prevent cable from loosening and snarling. This roller is supported by a two inch shaft and is four inches wide with two individual guide rollers and pressure springs.



**SHAKER:** Bucket shakers on the discharge end of chutes are spring loaded to permit the operator to empty bucket. Spring Loaded shakers platform prevents buckets from falling into the truck.



## PULL - IN



## TRUCK LOADER



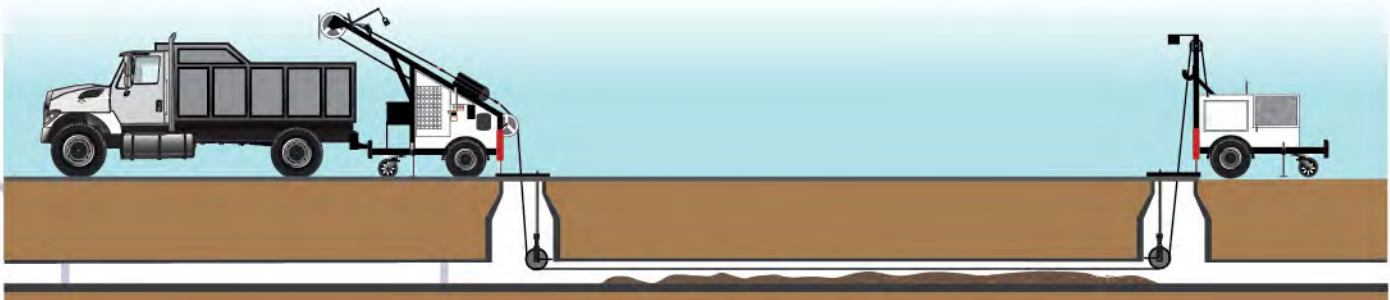
**BOX TUBE FRAME:** As we all know, a steel box tube cross section is stronger than a "C" channel cross section. However, tube construction also costs more money. While this is indeed true, it also leads to a stronger and longer lasting frame designed to withstand the strenuous rigors of any application you throw at it. It is for this reason we utilize this concept in all our products and provide our customers with the best value in the market.



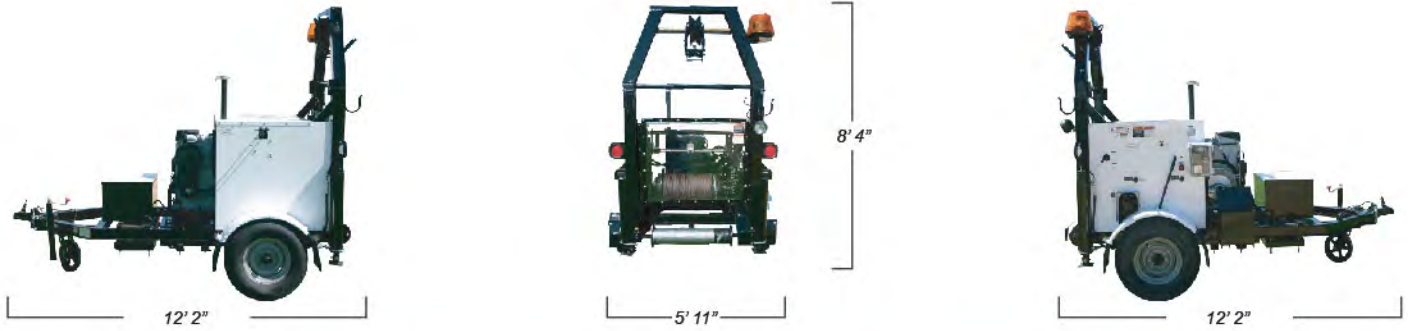
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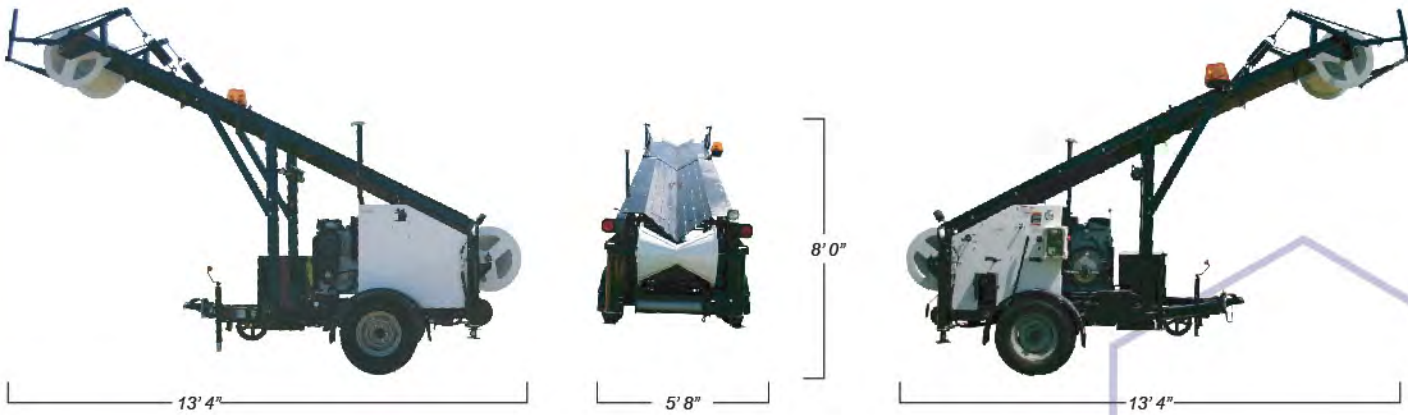
## HOW IT WORKS Bucket Machines



# BEST PRODUCTS, BEST LOCAL SUPPORT



MODEL	LENGTH	WIDTH	HEIGHT	MIN HP	AXLE CONFIGURATIONS	MAX BUCKET CAPACITY	MAX CABLE LENGTH
<b>PULL-IN</b>	12' 2"	5' 11"	8' 4"	25hp	SINGLE	36"	1500'



MODEL	LENGTH	WIDTH	HEIGHT	MIN HP	AXLE CONFIGURATIONS	MAX BUCKET CAPACITY	MAX CABLE LENGTH
<b>TRUCK LOADER</b>	13' 4"	5' 8"	8' 0"	25hp	SINGLE	36"	1500'

# BUCKET MACHINES

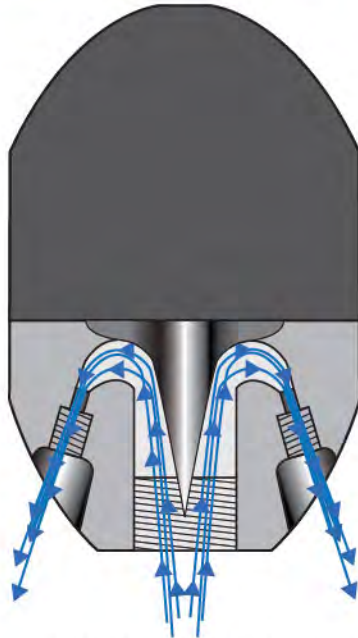
Drum/Ramp	PULL-IN	TRUCK LOADER
1,500' Capacity Main Cable Drum with Clutch	S	S
1,500' Capacity Overnight Cable Drum	O	O
1/2" Cable for Main Cable Drum	O	O
1/4" Cable for Overnight Cable Drum	O	O
Main Cable Drum Auto-Level Wind	S	S
Floating Scroll Auto-Level Wind	O	
Double Scroll Auto-Level Wind		O
Overnight Cable Drum Level Wind	O	O
Main Cable Drum Hand Brake	S	S
Drum Speed Control	S	S
Single Speed Hydraulic Control	S	S
Two Speed Hydraulic Control	O	O
Three Speed Hydraulic Control	O	O
Ramp capacity - 36" Bucket	S	S
Roller capacity - 36" Bucket	S	S
Footage Counter	O	O
Anti-Back Lash Upper Roller Assembly (Pull-In Only)	O	
Bucket Arm and Chain (Pull-In Only)	O	
Additional 1/2" Clevis Pin	O	O
Bucket Shaker		S
<b>Engine/Controls</b>		
Kubota 25hp Diesel Engine Pull Force - 4,000lbs. @ 150 ft/min recommended up to 18" buckets	S	S
Tier IV Final 49hp Kubota Engine	O	O
Key Ignition Switch	S	S
800 CCA Battery	S	S
Lighted NEMA 4 Control Panel	S	S
Painted Steel Shrouding	S	S
Voltage Meter	O	O
Hour Meter	O	O
<b>Safety Lighting</b>		
LED Rotating Beacon	O	O
LED Strobe Light	O	O
LED Flood Light	O	O
Handheld Wireless Spotlight	O	O

Trailer	PULL-IN	TRUCK LOADER
Two Manual Stabilizers in rear	S	
Four Manual Stabilizers	O	S
Two Adjustable Hydraulic Legs in rear	O	O
Four Adjustable Hydraulic Legs (two in rear, two in front)	O	O
Fenders	S	S
Electric Brakes	S	S
One Steel Toolbox - tongue-mounted	S	S
Retractable Swivel Wheel	S	S
2-5/16" Ball Hitch	S	S
D.O.T. Approved Lighting	S	S
GVWR - 7,000lbs	S	S
Locking Battery Box	O	O
Six 28" D.O.T. Safety Cones and Holder	O	O
<b>Accessories</b>		
One Cable Swivel	S	S
One 1/2" Clevis Pin	S	S
Start Up Kit for Yoke	S	S
Paper Operator's Manual	S	S
USB Operator's Manual	O	O

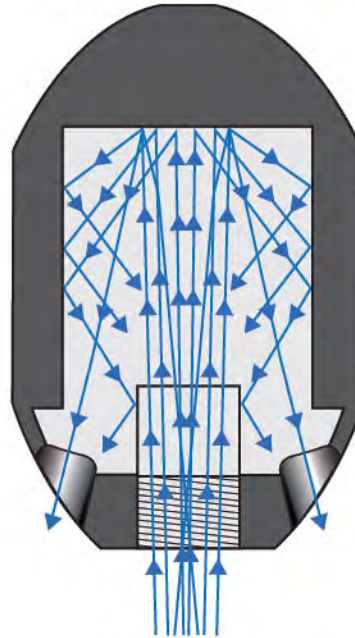
Legend	
Standard	S
Optional	O

# WHAT MAKES A NOZZLE HIGH EFFICIENCY?

## Flow Diversion Technology



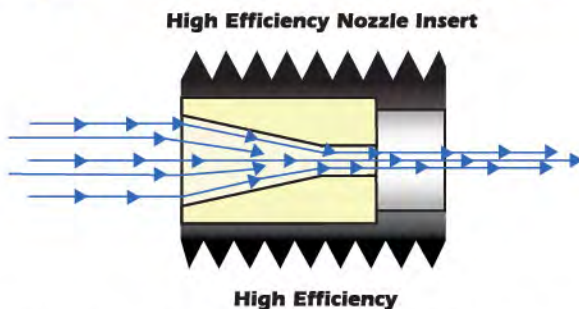
**HIGH EFFICIENCY NOZZLE**



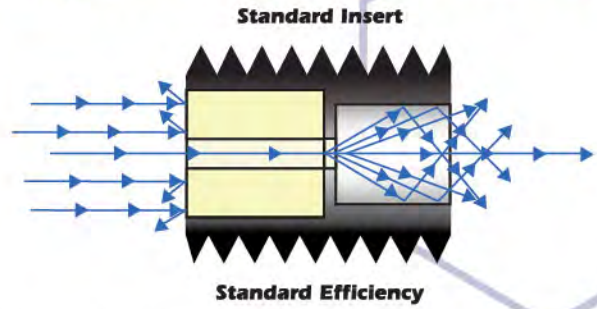
**STANDARD NOZZLE**

Flow Diversion Technology drastically reduces energy robbing turbulence by more effectively converting the flow and pressure of your water supply into thrust. All this results in your nozzle doing more work while using less energy.

## C3 (Ceramic, Conical, Cylindrical) Orifice



**High Efficiency**



**Standard Efficiency**

Water is channeled and shaped via the C3 orifice to create a powerful water core and reduce the inefficient turbulent mist that other orifices allow.

# PARTS & ACCESSORIES



## TRI-STAR PENETRATING NOZZLE

The **"Tri-Star"** is constructed with six rear thrust jets and four forward thrust jets. This design, combined with the heavy duty forged steel construction, makes this the best blockage penetrator on the market. You will break through blockages quickly to restore flow through the pipe.

**APPLICATIONS:** A great nozzle for common obstruction removal and blockage penetration, including ice.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
52405-01-F	6 x 30°	1 x 0°, 3 x 20°	1/2"	3" - 8"
52374-00-F	6 x 30°	1 x 0°, 3 x 20°	3/4"	4" - 15"
52375-00-F	6 x 30°	1 x 0°, 3 x 20°	1"	6" - 24"



## AVANTI PENETRATING NOZZLE

The **"Avanti"** is a high speed rotational nozzle designed with a hardened steel drilling fixture. The drilling action of this nozzle means it will bore through even the toughest obstructions. This nozzle has rear jets only (no front jets) which means it has a much stronger pull and thrust ability than standard penetrating nozzles.

**APPLICATIONS:** The ultimate obstruction removing nozzle for extreme blockages and long distance challenges.

Part No.	No. & Angle Rear Jets	No. & Angle Spinner Jets	Hose Size	Working Diameter
53246-00-F	3 x 15°	3	1/2"	3" - 8"
53247-00-F	6 x 15°	4	3/4"	4" - 15"
53248-00-F	6 x 15°	4	1"	6" - 24"



## WIESEL GENERAL CLEANING NOZZLE

The **"Wiesel"** is an affordable priced compact nozzle which is perfect for general pipe cleaning.

**APPLICATIONS:** General Pipe Cleaning. Optional front jet to help penetrate minor blockages.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
54045-00-F	6 x 30°	0	1/2"	3" - 6"
54046-00-F	6 x 30°	0	3/4"	4" - 10"
54047-00-F	8 x 30°	0	1"	4" - 15"
55838-00-F	6 x 30°	1	1/2"	3" - 6"
55839-00-F	6 x 30°	1	3/4"	4" - 10"
55840-08-F	8 x 30°	1	1"	4" - 15"



## ROTOJET ROTATIONAL NOZZLE

The **"RotoJet"** is a controlled rotational nozzle designed to provide 360 cleaning in large pipe lines up to 120". Extension wands allow for adjustment so that spray patterns stay focused and concise to provide maximum cleaning effect.

**APPLICATIONS:** General pipe cleaning of large diameter lines.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
53929-00-F	6 x 20°	6	1"	12" - 120"
53263-00-F	6 x 20°	6	1 1/4"	12" - 120"



## DUAL DEGREE GENERAL CLEANING NOZZLE

The **"Dual Degree"** nozzle has six jets (three 10 thrust jets and three 30 cleaning jets) which create pulling power and cleaning ability. The pull power allows this nozzle to travel far into the pipe - and the 30 jets ensure the sewer or storm pipe will be cleaned effectively.

**APPLICATIONS:** General pipe cleaning where longer pulls or an incline might be involved. Optional front jet available.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
54042-00-F	6: 3x10°, 3x30°	0	1/2"	4" - 8"
54043-00-F	8: 4x10°, 4x30°	0	3/4"	6" - 12"
54044-00-F	8: 4x10°, 4x30°	0	1"	8" - 18"



## RDS-V VIBRATING NOZZLE

The **"RDS-V"** nozzle utilizes an off set gyrator to create a vibrating effect. The vibration is effective at breaking up mineral deposits, small amounts of concrete slag and other comparable substances.

**APPLICATIONS:** Breaking loose mineral deposits and solidified solids. Not to be used on clay or stone pipe.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
52430-00-F	3 x 15°	2 x 90°	1/2"	4" - 8"
53294-00-F	6 x 15°	2 x 90°	3/4"	6" - 12"
52431-00-F	6 x 15°	2 x 90°	1"	6" - 12"

# BEST PRODUCTS, BEST LOCAL SUPPORT



## RUMAX VIBRATION NOZZLE

The "Rumax" is a heavy weight vibration nozzle capable of providing the maximum effectiveness for breaking loose mineral deposits and hard solids from pipe floors and walls in larger diameter lines.

**APPLICATIONS:** Large line deposit break up, pulverize, disintegrate, and flush. Not to be used in clay or stone pipe.

Part No.	No. & Angle Rear Jets	No. & Angle Spinner Jets	Hose Size	Working Diameter
52433-00-F	6 x 20°	Internal Turbine Rotor	3/4"	6" - 12"
52733-00-F	6 x 20°	Internal Turbine Rotor	1"	8" - 16"
52434-00-F	6 x 20°	Internal Turbine Rotor	1"	8" - 16"



## ROTOJIGGLER VIBRATION NOZZLE

The "Rotojiggler" is another option in the vibration nozzle series. This nozzle offers more aggressive edges when needed to break up mineral deposits, hard debris and calcium build up.

**APPLICATIONS:** Aggressive vibration nozzle. Not to be used on clay or stone pipe.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
54089-00-F	6 x 15°	1 x 90°	1"	6" - 14"



## MEGA 5 FLUSHING NOZZLE

The "Mega 5" produces extreme flushing capabilities for medium duty lines which makes this a favorite for cleaning storm drains and for culvert cleaning. The anti-tip heavy weight design makes the Mega 5 a virtual water shovel to flush back all debris.

**APPLICATIONS:** Storm lines, culverts, large diameter pipe lines where a strong flushing floor cleaning nozzle is needed.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
54615-00-F	11 x 0° - 30°	0	3/4"	12" - 48"



## MEGA 6 FLUSHING NOZZLE

The "Mega 6" produces extreme flushing capabilities for larger lines which makes this a favorite for cleaning storm drains and for culvert cleaning. The anti-tip heavy weighted design makes the Mega 6 a virtual water shovel to flush back all debris.

**APPLICATIONS:** Storm lines, culverts, large diameter pipe lines where a strong flushing floor cleaning nozzle is needed.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
52617-00-F	11 x 0°-30°	0	1"	15" - 120"
53641-00-X	11 x 0°-30°	0	1 1/4"	15" - 120"



## POWER JET FLUSHING NOZZLE

The "Power Jet" injector nozzle uses the water already in the pipe and accelerates it with a venturi pump effect to provide flushing and cleaning of large diameter high-flow lines. Large stones, mud, sand and litter can all be effectively flushed from the line using this powerful nozzle.

**APPLICATIONS:** Cleaning large diameter high-flow lines where it is difficult or impractical to plug or reroute the lines for cleaning. Also effective on older lines where pipe walls are delicate.

Part No.	Hose Size	Working Diameter
53262-00-F	1"	18" - 40"
52834-00-F	1"	20" - 80"
52708-00-F	1 1/4"	24" - 100"



# PARTS & ACCESSORIES



## RDS ROTATIONAL NOZZLE

The "RDS" is a high-speed rotational nozzle that cleans the entire inside of the pipe with spinning jets that scour the pipe walls. Offered with four different configurations to match specific cleaning challenges.

**APPLICATIONS:** Grease removal, de-scaling, crust elimination, and an excellent secondary blockage removal nozzle after penetration has been established.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
55828-00-F	3 x 15°	4 (A)	1/2"	3" - 8"
55829-00-F	3 x 15°	4 (B/C)	1/2"	3" - 8"
55830-00-F	6 x 15°	4 (E)	1/2"	3" - 8"
55831-00-F	6 x 15°	4 (B/C)	3/4"	4" - 12"
55832-00-F	6 x 15°	4 (A)	1"	6" - 15"
55833-00-F	6 x 15°	4 (B/C)	1"	6" - 15"
55834-00-F	6 x 15°	4 (E)	1"	6" - 15"
55835-00-F	6 x 15°	4 (A)	1 1/4"	10" - 28"
55836-00-F	6 x 15°	4 (B/C)	1 1/4"	10" - 28"



## HW FLUSHING NOZZLE

The low angle dual degree jets, make the "HW" the ultimate flushing nozzle, while using less water and performing the job faster than drilled nozzles.

**APPLICATIONS:** Excellent line flushing nozzle with great thrust, pull, and flushing ability to bring debris back to the manhole.

Part No.	Type	No. & Angle Rear Jets	Hose Size	Working Diameter
54003-00-F	HW 53	6 total: 6 x 10°	1/2"	4" - 8"
52732-00-F	HW 75	6 total: 6 x 8°	3/4"	6" - 15"
52414-00-F	HW 75	8 total: 4x6°, 4x12°	1"	6" - 15"
52385-00-F	HW 100	10 total: 5x6°, 5x12°	1"	12" - 24"
52780-00-F	BK 1	12 total: 6x20°, 6x30°	1"	12" - 36"



## RONDO GENERAL CLEANING NOZZLE

The "Rondo" produces an umbrella spray pattern, giving this nozzle a complete 360° cleaning pattern in the pipe. This is accomplished without moving parts or the maintenance commonly associated with a rotation nozzle.

**APPLICATIONS:** Use prior to video inspection yields a 360° completely clean line, free of grease, dirt, and debris.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
52397-00-F	3 x 15°	0	1/2"	3" - 8"
52398-00-F	3 x 15°	0	3/4"	6" - 12"
52378-00-F	3 x 15°	0	1"	6" - 18"
54320-00-F	3 x 15°	0	1"	6" - 24"
52400-00-F	3 x 15°	0	1 1/4"	6" - 24"



## ROTOMAX ROTATIONAL NOZZLE

The "Rotomax" nozzle uses a controlled rotational cleaning head which rotates at a lower rotational speed than traditional spinning nozzles. This reduced speed rotation means jetspray contact time is dramatically increased thus allowing for superior cleaning of pipe walls. The Rotomax also has a forward off-set jet that cuts and provides root maintenance.

**APPLICATIONS:** Heavy Grease removal and entire pipe cleaning along with excellent root maintenance capabilities.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
52423-00-F	6 x 15°	3+1 offset forward	1/2"	4" - 8"
52383-00-F	6 x 15°	3+1 offset forward	3/4"	4" - 12"
52526-00-F	6 x 15°	6+1 offset forward	1"	8" - 20"
52424-00-F	6 x 15°	6+1 offset forward	1"	10" - 32"
52425-00-F	6 x 15°	6+1 offset forward	1 1/4"	10" - 32"

\*Note Optional Centralizing Skids Available

# BEST PRODUCTS, BEST LOCAL SUPPORT



## EEL CUTTER CUTTING SYSTEM

The "EEL Cutter" is a high speed rotational chain cutter utilizing a bristled centering skid to allow it to maneuver through bends, over bad offsets and around elbows. This unique design allows access to normally impassable areas.

**APPLICATIONS:** Small line root cutting. Flexible skid allows for travel through bends and over off sets.

52650-00-X	6 x 15°	4 x 90°	1/2"	4" - 6"
52651-00-X	6 x 15°	4 x 90°	3/4"	4" - 6"
52652-00-X	6 x 15°	4 x 90°	1"	6" - 9"

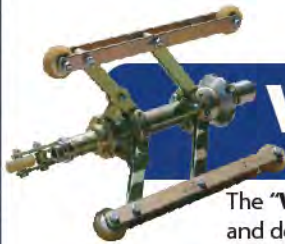


## K114 CUTTING SYSTEM

The "K114" Cutting System takes over where the Combi Cutter leaves off - handling root cutting and mineral deposit removal in larger diameter lines up to 40". This high speed rotational chain cutter is capable of cutting through the largest and toughest root masses.

**APPLICATIONS:** Large line root cutting and mineral deposit removal.

53765-00-F	6 x 15°	3 x R 1/2"	1 1/4"	20" - 40"
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## VARI-TURN ADJUSTABLE SKID

The "Vari-Turn" also adjusts to various size pipes and does so without any tools needed. A simple turn of the adjustment knob makes the skid larger or smaller. It can also be adjusted to fit those odd-sized or out-of-round lines.

**APPLICATIONS:** For use with nozzles where centering is required or performance is enhanced by centering the nozzle in the pipe.

Part No.	Size	Diameter
52389-00-F	3/4"	6" - 12"
52645-00-F	1"	8" - 18"
52669-00-F	1"	20" - 36"
54053-00-F	1 1/4"	20" - 48"



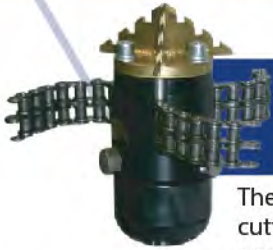
## WAMAX MILLING SYSTEM

The "Wamax" Milling System utilizes an exclusive turbine driven gearing system to generate cutting torque to turn the milling head. This combined with the hammer-drill effect of the cutting wheel makes the Wamax capable of cutting concrete, major mineral deposits and solid blockages. The internal gearing also allows the system to be used with lower GPM jetting machines when compared to other milling systems.

**APPLICATIONS:** Removal of concrete and major mineral deposits. Available in three sizes - Wamax 100, 200, 300.

Part No.	Type	No. & Angle Rear Jets	Hose Size	Working Diameter
52371-00-F	WAMAX 100 Kit	4 x 15°	1"	4" - 8"
54217-00-F	WAMAX 200 Kit	8 x 10°	1"	8" - 34"
54840-00-F	WAMAX 300 Kit	8 x 10°	1"	12" - 45"

# PARTS & ACCESSORIES



## COMBI CUTTING SYSTEMS

The "Combi" Cutting System is a versatile cutting nozzle that can be fitted with an aggressive drive chain cutter or a less aggressive link chain cutter. The drive chain design is best suited for the most difficult obstructions while the link chain is for older pipes. Each design is easily interchangeable and comes with various lengths for different pipe sizes.

### APPLICATIONS:

Aggressive root cutting and mineral deposit removal, and/or general pipe line root maintenance.



Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size	Working Diameter
52524-00-F	6 x 15°	3 x 90°	1/2"	4" - 8"
52372-00-F	6 x 15°	3 x 90°	3/4"	6" - 18"
52528-00-F	6 x 15°	3 x 90°	1"	6" - 18"
61735-00-Z	Pelican Carrying Case			



## Drive Chain Replacement Chain For Combi

Part No.	No. of Links	Quantity	Working Diameter
*22812-02-Z	2	3	4"
*22812-04-Z	4	3	6"
**22812-06-Z	6	3	8"
**22812-08-Z	8	3	10"
**22812-10-Z	10	3	12"
**22812-12-Z	12	3	14"
22812-14-Z	14	3	16"
22812-16-Z	16	3	18"



## Link Chain Replacement Chain For Combi

Part No.	No. of Links	Quantity	Working Diameter
*22811-07-Z	7	3	4"
*22811-09-Z	9	3	6"
**22811-11-Z	11	3	7"
**22811-13-Z	13	3	8"
**22811-15-Z	15	3	10"
**23292-17-Z	17	3	11"
23292-19-Z	19	3	12"
23292-21-Z	21	3	13"

Part numbers with \* will work for 1/2" and 3/4" Combi. Part numbers with \*\* will work for 1/2", 3/4", 1" and 1 1/4" Combi. All other part numbers will work with 1" and 1 1/4" Combi.

**BEST PRODUCTS, BEST LOCAL SUPPORT**



# **WARTHOG**<sup>®</sup>

SEWER NOZZLES BY **STONEAGE**

**AUTHORIZED REPAIR CENTER**



**WT 600 – SERVICE KIT**

**54680-00-F**

- 1 BC 410 Syringe Assembly
- 1 BJ 026 Port Plug
- 1 BJ 048-S Visc. Fluid Slow, 6oz.
- 1 BJ 062-S Antiseize, 2g
- 1 GP 025-P2 Hex Socket Plug
- 1 RJ 011-K Brass Seat
- 1 RJ 012-KTO HP Seal & O-Ring
- 1 WT 014 Wave Spring

**WT 602 – SEAL KIT**

**54689-00-F**

- 1 RJ 011-K Brass Seat
- 1 RJ 012-KTO HP Seal & O-Ring
- 1 WT 014 Wave Spring

**WT 610 – OVERHAUL KIT**

**54687-00-F**

- 1 BJ 026 Port Plug
- 1 BJ 048-S Visc. Fluid Slow, 6oz
- 1 RJ 011-K Brass Seat
- 1 RJ 012-KTO HP Seal & O-Ring
- 1 WT 006 Seal
- 2 WT 007 Bearing, Ball
- 1 WT 008 O-Ring
- 1 WT 010 Seal
- 1 WT 014 Wave Spring
- 1 WT 032 Retaining Ring
- 1 WT 030 O-Ring

**WT 612 – TOOL KIT**

**54688-00-F**

- 1 BA100 Retaining Ring Pliers
- 1 WT 105 Tool

**WS 600 – SERVICE KIT**

**53530-00-Z**

- 1 BC 410 Syringe Assembly
- 1 BJ 048-S Visc. Fluid, 6oz
- 1 BJ 062-S Antiseize, 2g
- 1 GP 025-P2 Hex Socket Plug
- 1 RJ 011 Brass Seat
- 1 RJ 012-TO HP Seal & O-Ring

**WS 602 – SEAL KIT**

**54690-00-F**

- 1 RJ 011 Brass Seat
- 1 RJ 012-TO HP Seal & O-Ring

**WS 610 – OVERHAUL KIT**

**54269-00-F**

- 1 BJ 026 Port Plug
- 1 BJ 048-S Visc. Fluid, 6oz
- 1 BJ 062-S Antiseize, 2g
- 1 RJ 008 O-Ring
- 1 RJ 011 Brass Seat
- 1 RJ 012-TO HP Seal & O-Ring
- 3 TJ 007 Ball Bearings
- 1 WS 010 Small Seal
- 1 WS 021-S Weep Seal
- 1 WS 029 Large Seal

**WH 600 – SERVICE KIT**

**54074-00-Z**

- 1 BJ 048-F Visc. Fluid, 6oz
- 1 BJ 062-S Antiseize, 2g
- 1 GP 025-P2 Hex Socket Plug
- 1 TJ 011 Brass Seat
- 1 WH 012-0 HP Seal & O-Ring

**WH 602 – SEAL KIT**

**54691-00-F**

- 1 TJ 011 Brass Seat
- 1 WH 012-0 HP Seal & O-Ring

**WH 610 – OVERHAUL KIT**

**54686-00-F**

- 1 BJ 048-F Visc. Fluid Fast, 6oz
- 1 BJ 062-S Antiseize, 2g
- 1 RJ 008 O-Ring
- 1 TJ 011 Brass Seat
- 1 WH 012-0 HP Seal & O-Ring
- 2 TJ 007 Ball Bearing
- 2 WH 010 Shaft Seal
- 1 RJ 021-S Weep Seal
- 1 RJ 014 Wave Spring

**WH 612 – TOOL KIT**

**54693-00-F**

- 1 TJ 064 Fill Tube
- 1 WH 105 Tool

**WG 600 – SERVICE KIT**

**53597-00-Z**

- 1 BJ 048-F Visc. Fluid Fast, 6oz
- 1 BJ 062-S Antiseize, 2g
- 1 GP 025-P2 Hex Socket Plug
- 1 MJ 011 Brass Seat
- 1 HC 012-TO HP Seal & O-Ring

**WG 602 – SEAL KIT**

**53722-00-Z**

- 1 MJ 011 Brass Seat
- 1 HC 012-TO HP Seal & O-Ring

**WG 610 – OVERHAUL KIT**

**52365-00-F**

- 2 BJ 010-D Shaft Seal
- 1 BJ 048-F Visc. Fluid Fast, 6oz
- 1 BJ 062-S Antiseize, 2g
- 1 MJ 011 Brass Seat
- 1 HC 012-TO HP Seal & O-Ring
- 2 WG 007 Ball Bearings
- 1 WG 008 O-Ring
- 1 WG 014 Wave Spring
- 1 MJ 021-S Weep Seal
- 1 WGP 032 Retaining Ring

**WG 612 – TOOL KIT**

**54694-00-F**

- 1 HC 064 Fill Tube
- 1 BJ 105 Tool

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**TOLL FREE 800.323.1604**

# PARTS & ACCESSORIES



## WV-1/4-LK

BY STONEAGE

The WV-1/4 uses new flow-through technology and features a revolutionary high-speed design with no pressure seals or bearing to service. It cleans lines as small as 2" with long sweeping elbows, featuring permanent, pre-drilled orifices. The nozzle operates from 2000 to 5000 PSI and 3 to 8 GPM. It has a 1/4" NPT thread inlet, and if a 1/4" NPT hose fitting is used, it can pass through long radius elbows in lines 2" and larger. Rated to 5000 PSI.



## WT-3/8 & 1/2

BY STONEAGE

Our smaller classic WARTHOG models have all the powerful features of larger tools, but can navigate elbows and clean-outs commonly found in laterals at homes and other light commercial facilities. The WT-3/8-C is designed specifically to handle 3" to 6" lines. This tool is most commonly used with small capacity pumps. We have added permanent carbide buttons, specifically designed to handle demanding applications. Rated to 5000 PSI.

Part No.	GPM@PSI	Rear Jets/ Front Jets	Description
54965-00-Z	7-8@4000	2x45°/1x15°	WV-1/4-LK-A
54967-00-Z	4-6@4000	2x45°/1x15°	WV-1/4-LK-B
54967-01-Z	4-4.5@4000	2x45°/1x15°	WV-1/4-LK-C
54967-02-Z	3-3.5@4000	2x45°/1x15°	WV-1/4-LK-D

Part No.	GPM@PSI	Rear Jets / Front Jets	Description
55078-00-Z	12@3000	2x150°/1x15°	WT-3/8-PKG
53751-00-F	12@3000	2x150°/1x15°	WT-3/8-R31-C
55922-00-Z	18@4000	2x150°/1x15°	WT-1/2-PKG Carbide



## WS-1/2

BY STONEAGE

The WS-1/2 is designed to handle 4" to 8" lines and is most commonly used with trailer jettors. Operators use this tool to clean lines in restaurants, hospitals, multi-story apartment buildings and other residential property applications. You can expect to remove grease, as well as cut through roots, ice and soil blockages with ease. "J" models come with a jointed inlet option, and descaling "DS" head models are available.



## WH-1/2

BY STONEAGE

The WH-1/2 is a powerful tool which features controlled rotation, allowing jets to penetrate deeper through deposits to clean and clear pipes. These tools are commonly used with small capacity combination trucks and larger jetter trailers. Descaling "DS" heads are available with this model.

Part No.	GPM@PSI	Rear Jets/ Front Jets	Description
53442-01-F	18@4000	2x150°/1x15°	WS-1/2-Mongoose
55079-D5-Z	18@4000	2x150°/1x15°	WS-1/2-PKG
55083-E5-Z	18@4000	2x150°/1x15°	WS-1/2-J-PKG
55084-E5-Z	18@4000	2x150°/1x15°	WS-1/2-J-DS-PKG
55080-D5-Z	18@4000	2x150°/1x15°	WS-1/2-DS-PKG

Part No.	GPM@PSI	Rear Jets/ Front Jets	Description
55280-D5-X	18@4000	2x150°/1x15°	WH-1/2-PKG
55280-E5-X	20@4000	2x150°/1x15°	WH-1/2-PKG
55279-D5-X	18@4000	2x150°/1x15°	WH-1/2-DS-PKG
55279-E5-X	20@4000	2x150°/1x15°	WH-1/2-DS-PKG



## WG-1

BY STONEAGE

The WG-1 CLASSIC is the proven choice for operators who are faced with cleaning pipes from 8" to 36" (203-914 mm). Large combination trucks with 1" hose use this tool predominately. Operators around the world rely on this tool to handle their biggest challenges.



## WPG-1

BY STONEAGE

The WPG-1 is designed to produce up to 40% more pulling power\* than our WG-1 classic. The rear facing jets are angled more sharply and the centralizer fins have been streamlined. We have also added two more centralizer fins. The result is more pulling power to navigate lines and moderate inclines, plus easier retrieval of the tool. It features five jet ports, with a boring jet offset at 15° and four jets at 155°. This tool will greatly benefit customers with operating pressures of 2,500 psi or less.

Part No.	Front Jet	Back Jet	Description
55276-00-X	1	2	WG-1
55275-00-X	1	2	WG-1 Descaler

Part No.	Front Jet	Back Jet	Description
55074-00-Z	1	2	WGP-1
55277-00-X	1	2	WGP-1 Descaler

# BEST PRODUCTS, BEST LOCAL SUPPORT



## RADIAL VORTEX GENERAL CLEANING NOZZLE

Combines 15° rearward orifices for thrust with either 35° or 45° rearward orifices for effective cleaning. Ideally suited for 8" to 12" lines on a maintenance program. Available with or without Forward Jet.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size
51494-00-F	6 x 15°-35°	1 x 0°	1"
50857-00-F	6 x 15°-45°	1 x 0°	1"
51496-00-F	6 x 15°-35°	1 x 0°	3/4"
50858-00-F	6 x 15°-45°	1 x 0°	3/4"
51498-00-F	6 x 15°-35°	1 x 0°	1/2"
51499-00-F	6 x 15°-45°	1 x 0°	1/2"



## TORPEDO GENERAL CLEANING NOZZLE

Heavy-action penetrating nozzle concentrates on the bottom of the pipe removing larger solids. Effective in 6" to 18" sewer lines. Utilize a nozzle extension for best results. Replaceable Orifices. Available with or without Forward Jet.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size
51668-00-F	5 x 15°	1 x 0°	1"
51669-00-F	5 x 15°	1 x 0°	3/4"



## MINI MISSILE GENERAL CLEANING NOZZLE

Solid one piece construction. The Mini Missile's aerodynamic design combined with 5° orifices creates optimum thrust. These large volume orifices also produce massive water output resulting in powerful flushing capabilities. Replaceable Orifices. Available with or without Forward Jet.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size
52127-00-F	3 x 5°	1 x 0°	1"
52118-00-F	3 x 5°	1 x 0°	3/4"
52134-00-F	3 x 5°	1 x 0°	1/2"



## WHIRLAWAY GENERAL CLEANING NOZZLE

This nozzle (2-1/2" diameter) is attached to a fire hydrant hose and is useful for cleaning lines up to 30" in diameter, when high volume and low pressure water get the job done. Available with Forward Jet only.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size
50921-00-F	6 x 45°	1 x 0°	2-1/2"
50922-00-F	6 x 45°	1 x 0°	2-1/2"
51737-00-F	6 x 45°	1 x 0°	1-1/2"
50923-00-F	6 x 45°	1 x 0°	1-1/2"



## MINI DUAL DEGREE GENERAL CLEANING NOZZLE

This nozzle has 12 rear jets, six at 15° and six at 35°, which provides twice the thrust and cleaning action of the radial vortex nozzle. This ultimately means a more thorough cleaning and better elimination of debris. Available with or without Forward Jet.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size
50847-00-F	12 x 15°-35°	1 x 0°	1"
50848-00-F	12 x 15°-35°	1 x 0°	3/4"



## ROTATING BLADE SPINNER CUTTING NOZZLE

Designed to penetrate and cut hard obstructions, especially grease and hairline roots. The seven forward jets strike the stainless steel blades causing them to rotate at high speeds. Forward Jet not available.

Part No.	No. & Angle Rear Jets	No. & Angle Front Jets	Hose Size
50515-00-F	6 x 30°	0	1"
50514-00-F	6 x 30°	0	3/4"
50911-00-F	6 x 30°	0	1/2"

# PARTS & ACCESSORIES



## FIN STYLE NOZZLE EXTENSIONS

Extensions minimize nozzle wear and eliminate the possibility of running up a lateral.

Part No.	Diameter	Length	Hose Size
72757-00-F	3.32"	14"	1"
71077-00-F	4.82"	14"	1"
72758-00-F	3.05"	13-1/2"	3/4"
71078-00-F	4.55"	13-1/2"	3/4"
72824-00-F	2.83"	13-1/2"	1/2"
72825-00-F	4.33"	13-1/2"	1/2"



## WIRE CAGE NOZZLE EXTENSIONS

A nozzle extension is used between the end of the jet hose and the nozzle. Extensions minimize nozzle wear and eliminate the possibility of running up a lateral.

*\*Please specify nozzle type when ordering\**

Part No.	Diameter	Length	Hose Size
74044-00-F	6"	16"	1"
74045-00-F	8"	17"	1"
74046-00-F	10"	18-1/2"	1"
74047-00-F	12"	25-1/2"	1"
74048-00-F	15"	33"	1"
74989-00-F	18"	33"	1"
74039-00-F	6"	16"	3/4"
74040-00-F	8"	17"	3/4"
74041-00-F	10"	18-1/2"	3/4"
74042-00-F	12"	25-1/2"	3/4"
74043-00-F	15"	33"	3/4"
74988-00-F	18"	33"	3/4"



## TUBULAR NOZZLE EXTENSIONS

Adds stability to the nozzle by keeping it in the center of the pipe, while at the same time holding the nozzle down in the line so the pipe is cleaned properly.

Part No.	Diameter	Length	Hose Size
72164-00-F	2-1/2"	14"	1" to 1-1/4"
71105-00-F	2-1/2"	14"	1" to 1"
71106-00-F	2"	14"	3/4" to 3/4"
72166-00-F	2"	14"	1/2" to 1/2"



## FOOTBALL NOZZLE EXTENSIONS

Ideally suited for use with nozzles when encountering offset joints in sewer pipes. The rounded spring configuration and its light weight steel will get through the pipe easier and more quickly.

Part No.	Diameter	Length	Hose Size
72131-00-F	4"	14"	1"
71108-00-F	4"	14"	3/4"
71435-00-F	4"	14"	1/2"

## PATRIOT 1 ROOT & GREASE CUTTER

The Patriot 1 Root and Grease Cutter Assembly is capable of developing pressure and torque to remove the most difficult stoppages from 4" to 20" pipe diameters. This patent pending unique design combines both roller and skids to stabilize and "Roll" the root cutter up the pipe with minimal friction. Less water is used, more roots are cut, and fewer trips are made to the fire hydrant which means more productive sewer cleaning. The rollers will guide the skid assembly over offsets and misaligned pipe, thus avoiding the possibility of getting hung up in the sewer line. The individual skids (sold separately) are adjustable which eliminates the need to change skids for each size pipe. 1" and 3/4" jet hose applications up to 3,000 PSI and 80 GPM available. 3-3/4" diameter, 10-1/2" long and 13 lbs. Available with flat or concave blades.

- Patriot 1 KIT includes:**
- Motor & Thruster
  - 4" Skids (Ring Style)
  - 6" Fixed Skid (Non Rollers)
  - 8" to 10" Adjustable Roller Skid Assembly
  - 12" to 15" Adjustable Roller Skid Assembly
  - Turning Handle
  - Allen Wrench
  - Bottle of Water Soluble Oil
  - 4', 6", 8", 10", 12" and 15" Saws
  - Tool Box



*Pictured is a fully assembled Patriot 1 with adjustable skid and saw blade.*

- Patriot 1 Motor & Thruster includes:**
- Motor & Thruster
  - 4" Skids (Ring Style) not shown



Part No.	Hose Size	Description
90948-00-F	1"	Motor & Thruster
90949-00-F	3/4"	Motor & Thruster
91086-00-F	1"	Flat Blade Kit
91087-00-F	3/4"	Flat Blade Kit
92418-39-F	1"	Concave Blade Kit
92428-39-F	3/4"	Concave Blade Kit

## PATRIOT 2 ROOT & GREASE CUTTER

The Patriot 2 Root and Grease Cutter Assembly is capable of developing pressure and torque to remove the most difficult stoppages from pipe 4" to 20" in diameter. Less water is used, more roots are cut, and fewer trips are made to the fire hydrant which means more productive sewer cleaning. The Patriot 2 Root Cutter combines the advantages of both the standard Ring type and Skid type root cutter assemblies. The rollers will guide the skid assembly over offsets and misaligned pipe, thus avoiding the possibility of getting hung up in the sewer line. The individual skids are adjustable which eliminates the need to change skids for each size pipe. 1", 3/4" and 1/2" jet hose application up to 4,000 PSI and 80 GPM available. 2-3/8" diameter, 9-1/2" long and 5-1/2 lbs.

- Patriot 2 KIT includes:**
- Motor & Thruster
  - 4" Skids (Ring Style)
  - 6" to 8" Adjustable Roller Skid Assembly
  - 10" to 15" Adjustable Roller Skid Assembly
  - Turning Handle
  - Allen Wrench
  - Bottle of Water Soluble Oil
  - 4', 6", 8", 10", 12" and 15" Saws
  - Tool Box



*Pictured is a fully assembled Patriot 2 with adjustable skid and saw blade.*

- Patriot 2 Motor & Thruster includes:**
- Motor & Thruster
  - 4" Skids (Ring Style) not shown



Part No.	Hose Size	Description
90954-00-F	1"	Motor & Thruster
90955-00-F	3/4"	Motor & Thruster
90956-00-F	1/2"	Motor & Thruster
91083-00-F	1"	Kit
91084-00-F	3/4"	Kit
91085-00-F	1/2"	Kit



## SMART CUTTER ROOT & GREASE CUTTER

The Smart Cutter is the industry's only low maintenance, high torque root cutter. The Smart Cutter gives you the power of a high torque root cutter with the maintenance of a chain cutter. Simply shake out the water, spray in light weight oil, turn a couple of times, and throw it in your tool box for the next time roots become a problem.



*Pictured is a fully assembled Smart Cutter with adjustable skid and saw blade.*



### Smart Cutter KIT includes:

- Motor & Thruster
- 4" Skids (Ring Style)
- 6" Fixed Skid (Non Rollers)
- 8" to 10" Adjustable Roller Skid Assembly
- 12" to 15" Adjustable Roller Skid Assembly
- Turning Handle
- Allen Wrench
- Bottle of Water Soluble Oil
- 4', 6", 8", 10', 12" and 15" Saws
- Tool Box

Part No.	Hose Size	Description
74918-38-Z	1"	Motor & Thruster
74918-36-Z	3/4"	Motor & Thruster
91575-39-F	1"	Kit
91576-39-F	3/4"	Kit

### Smart Cutter Motor & Thruster includes:

- Motor & Thruster

## SKID STYLE ROOT & GREASE CUTTER

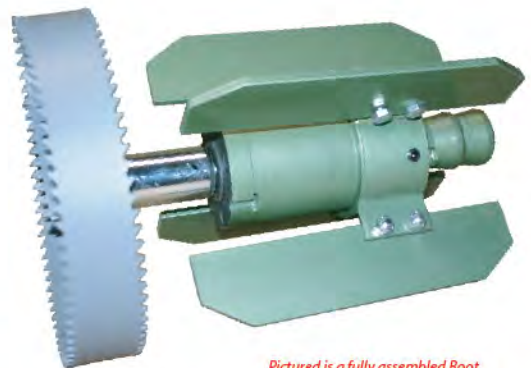
Skid Style Root and Grease Cutter designed to clean sewer from 6" to 20" in diameter. The skid assembly positions the root cutter in the middle of the sewer line, creating quick and efficient sewer cleaning. 4-1/8" diameter 10-1/2" long and 13lbs.

### Skid Style Root & Grease Cutter KIT includes:

- Motor & Thruster
- Mounting bracket
- 4', 6", 8", 10', 12" and 15" Skids
- Turning Handle
- Allen Wrench
- Bottle of Water Soluble Oil
- 4', 6", 8", 10', 12" and 15" Saws
- Tool Box

### Skid Style Root & Grease Cutter Motor & Thruster includes:

- Motor & Thruster
- 4" Skids (Ring Style) not shown



*Pictured is a fully assembled Root Cutter with skid and saw blade.*

Part No.	Hose Size	Description
90946-00-F	1"	Motor & Thruster
90947-00-F	3/4"	Motor & Thruster
91088-00-F	1"	Kit
91089-00-F	3/4"	Kit
91841-39-F	N/A	Concave Saw 1"

## RING STYLE

### ROOT & GREASE CUTTER

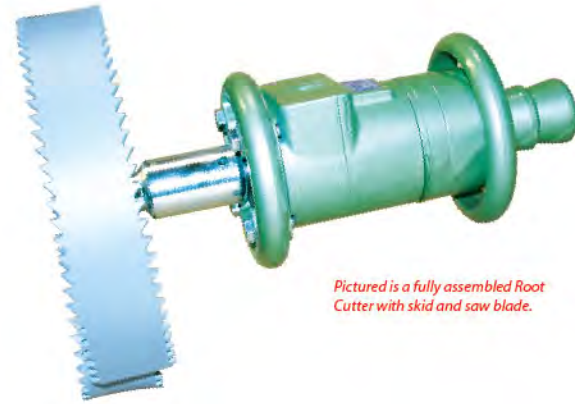
Designed to clean sewer from 6" to 20" in diameter. The ring assembly protects the motor and jet thruster. The saw makes contact with the pipe and pulls the Root and Grease Cutter down the pipe making short work of root and grease removal. Easy and efficient. 4-1/8" diameter 10-1/2" long and 16lbs.

**Ring Style KIT includes:**

- Motor & Thruster
- Ring Style skid
- Turning Handle
- Allen Wrench
- Bottle of Water Soluble Oil
- 4', 6', 8', 10', 12" and 15" Saws
- Tool Box

**Ring Style Motor & Thruster includes:**

- Motor & Thruster
- Skid Ring Style



*Pictured is a fully assembled Root Cutter with skid and saw blade.*

Part No.	Hose Size	Description
90944-00-F	1"	Motor & Thruster
90945-00-F	3/4"	Motor & Thruster
91090-00-F	1"	Kit
91091-00-F	3/4"	Kit

## MINI ROOT CUTTER

### ROOT & GREASE CUTTER

Mini Root and Grease Cutter is designed to clean pipe lines 3" in diameter and larger. 50% lighter in weight and 1/2 the size. Easier to use, travels farther and user friendly. 2-3/8" diameter 9-1/2" long and 5-1/2lbs.

**Mini Root Cutter KIT includes:**

- Motor & Thruster
- 4" Skids
- 6" Skids
- 8" Skids
- 10" Skids
- Turning Handle
- Allen Wrench
- Bottle of Water Soluble Oil
- 4', 6', 8" and 10" Saws
- Tool Box

**Mini Root Cutter Motor & Thruster includes:**

- Motor & Thruster



*Pictured is a fully assembled Mini Root Cutter with saw blade.*

Part No.	Hose Size	Description
90194-00-F	1"	Motor & Thruster
90402-00-F	3/4"	Motor & Thruster
90943-00-F	1/2"	Motor & Thruster
90571-00-F	1"	Kit
91092-00-F	3/4"	Kit
91093-57-F	1/2"	Kit

## DIAMOND TAP

### CUTTER & KITS

Ideal for cutting and removing concrete, clay, tilt, cast iron, PVC and polyethylene taps that impair normal sewage flow. The Heavy duty hydraulic motor combined with the adjustable roller assembly adds power, flexibility and quickness. The Diamond Tap Cutter is a must for any jobs enquiring television inspection.

#### 6" KIT includes:

- Motor & Thruster
- 6" Diamond Tap Cutter
- 6" Skid
- Turning Handle
- Allen Wrench
- Bottle of Water Soluble Oil
- Tool Box

#### 8" & up KIT includes:

- Motor & Thruster
- 8" (or Larger) Diamond Tap Cutter
- 8" to 10" Adjustable Roller Skid (or appropriate Skid size)
- Turning Handle
- Allen Wrench
- Bottle of Water Soluble Oil
- Tool Box



Part No.	Hose Size	Description
20588-00-Z	4"	Blades Only - Set of 3
20587-00-Z	6"	Blades Only - Set of 3
20586-00-Z	8"	Blades Only - Set of 3
20585-00-Z	10"	Blades Only - Set of 3
20584-00-Z	12"	Blades Only - Set of 3
20583-00-Z	15"	Blades Only - Set of 3
20582-00-Z	18"	Blades Only - Set of 3
70111-01-F	1" Shaft	Chuck Only
70111-03-F	5/8" Shaft	Chuck Only

## CURVED BLADE

### ROOT & GREASE CUTTER

This heavy duty cutter with replaceable steel blades (1/8" thick and 1-1/4" wide) does a good job on roots and an even better job on grease. This heavy duty cutter will scour the pipe for a razor clean finish.



Part No.	Size	Description
90958-39-F	6"	Kit
90963-39-F	8"	Kit
72796-01-F	6"	Saw Only
72797-01-F	8"	Saw Only
72798-01-F	10"	Saw Only
72799-01-F	12"	Saw Only
72800-01-F	15"	Saw Only

## FLAT ROOT SAW

### STANDARD ROOT SAW

Standard Root Saw has teeth on both sides of the cutter to provide maximum cutting efficiency in both directions. Constructed of 1040 spring steel which is heat treated to Rockwell 50 to 55 Hardness.



Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.

Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
30475-00-F	3"	Flat Root Saw
30219-00-F	4"	Flat Root Saw
30220-00-F	6"	Flat Root Saw
30221-00-F	8"	Flat Root Saw
30222-00-F	10"	Flat Root Saw
30223-00-F	12"	Flat Root Saw
30224-00-F	15"	Flat Root Saw

## CONCAVE ROOT SAW

### STANDARD ROOT SAW

The concave design of this saw keeps saw teeth off the side of the pipe, allows it to jump over offsets easier standard, and provides longer saw life. Hardened to a 50 to 55 Rockwell.



Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.

Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
30227-00-F	4"	Concave Root Saw
30228-00-F	6"	Concave Root Saw
30229-00-F	8"	Concave Root Saw
30230-00-F	10"	Concave Root Saw
30231-00-F	12"	Concave Root Saw
30232-00-F	15"	Concave Root Saw
30233-00-F	18"	Concave Root Saw
30324-00-F	20"	Concave Root Saw

## FLAT ROOT SAW

**SUPER 90**

Super 90 Flat Saw is the toughest and strongest Flat Saw being made today. This spring steel Root Saws is 2" wide and .149" thick. Heat treated to provide 50 to 55 Rockwell hardness. All saws are protected with a corrosion resistant treatment to prolong usefulness.

Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.



Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
30483-00-F	4"	Flat S90 Root Saw
30234-00-F	6"	Flat S90 Root Saw
30235-00-F	8"	Flat S90 Root Saw
30236-00-F	10"	Flat S90 Root Saw
30237-00-F	12"	Flat S90 Root Saw
30238-00-F	15"	Flat S90 Root Saw

## CONCAVE ROOT SAW

**SUPER 90**

Super 90 Concave Saw is designed to keep saw teeth off the sides of pipe offsets, providing longer saw life. It is 2" wide and thicker than any saw on the market. It is a brute. If there are tough sewers to clean, put this saw to work.

Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.



Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
30241-00-F	6"	Concave S90 Root Saw
30242-00-F	8"	Concave S90 Root Saw
30243-00-F	10"	Concave S90 Root Saw
30244-00-F	12"	Concave S90 Root Saw
30245-00-F	15"	Concave S90 Root Saw
30246-00-F	18"	Concave S90 Root Saw
30247-00-F	20"	Concave S90 Root Saw

## FLAT ROOT SAW

**CARBIDE SUPER 90**

The toughest and strongest Flat Saw being made today. This spring steel Root Saw is 2" wide and .149" thick. Heat treated to provide 50 to 55 Rockwell hardness. All saws are protected with corrosion resistance treatment to prolong usefulness.

Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.



Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
32368-00-F	6"	Carbide Flat S90 Root Saw
32287-00-F	8"	Carbide Flat S90 Root Saw
32288-00-F	10"	Carbide Flat S90 Root Saw
32329-00-F	12"	Carbide Flat S90 Root Saw
32330-00-F	15"	Carbide Flat S90 Root Saw

## CONCAVE ROOT SAW

**CARBIDE SUPER 90**

The Super 90 Concave Carbide Root Saw is considered the toughest root saw blade in the industry. First the saw blade is designed to keep the teeth off the sides of pipe offsets providing longer saw life. It is 2" wide and is thicker than any saw on the market. The Super 90s are heat treated to 50-55 Rockwell hardness. Then they are protected with a corrosion resistant treatment to prolong the blade life. Carbide teeth spaced evenly between the regular saw blade teeth and carbide buttons welded on the outer portion of the concave for maximum cutting and wear resistant capability.

Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.



Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
32369-00-F	6"	Carbide Concave S90 Root Saw
32289-00-F	8"	Carbide Concave S90 Root Saw
32290-00-F	10"	Carbide Concave S90 Root Saw
32331-00-F	12"	Carbide Concave S90 Root Saw
32332-00-F	15"	Carbide Concave S90 Root Saw
32333-00-F	18"	Carbide Concave S90 Root Saw

## TAPERED ROOT SAW

### STANDARD SAW



The tapered design of this saw allows the operator to take small bites at a time as he moves through a root or grease clogged line. The tapered design allows the user to ride over offsets much easier than the flat saw, which has a tendency to grab quicker. All saws are made of hardened 1040 spring steel.

Use the table below to assist you in creating the correct part number for your saw blade. Any part number listed with -00- will arrive with NO adapter. Each dashed number in the table below represents a specific adapter and size. When ordering, be sure to insert the correct dashed number needed, in place of the generic part number i.e. 12345-06-F.

Dash No.	Size	Description of Adapter
-00-	None	Saw Only
-01-	1" Shaft	Root & Grease Cutter
-03-	5/8" Shaft	Root & Grease Cutter
-06-	5/16"	Adapter Rod Coupling
-09-	3/8"	Adapter Rod Coupling
-11-	.375	Set Screw Coupling
-13-	.393	Set Screw Coupling
-15-	.415	Set Screw Coupling
-17-	.461	Set Screw Coupling

Part No.	Size	Description
30698-00-F	3"	Tapered Root Saw
30211-00-F	4"	Tapered Root Saw
30212-00-F	6"	Tapered Root Saw
30213-00-F	8"	Tapered Root Saw
30214-00-F	10"	Tapered Root Saw
30215-00-F	12"	Tapered Root Saw
30216-00-F	15"	Tapered Root Saw

## UDOR WATER PUMP

### WATER PUMP

The manufacturers of the UDOR Run Dry Water Pump have been leaders in the field of plunger pumps for over 75 years. UDOR water pumps are manufactured with brass manifolds, heat treated crankshafts, stainless steel check valves, industrial quality bearings, solid ceramic plungers and heavy duty high pressure seals. The ceramic plungers and improved machining technology means you can expect this pump to tolerate changes in temperature – even those caused by running it dry. The components of this pump mean you can expect top notch performance and a long life. In addition, the UDOR Water Pump is simple and affordable to service when the time comes.



Part No.	GPM / PSI	Description
41099-00-V	5 GPM / 3,000 PSI	Integral Mount Gear Reduction Pump
41143-00-V	10 GPM / 3,000 PSI	Hyd. Drive Mount Pump
41466-00-X	12 GPM / 3,000 PSI	Integral Mount Gear Reduction Pump
42398-00-V	18 GPM / 2,500 PSI	LH Drive Pump
41374-00-X	18 GPM / 4,000 PSI	RH Drive Pump



## UDOR WATER PUMP

### WATER PUMP REPAIR PARTS

Part No.	Description
23296-00-Z	Valve Kit 5 GPM / 2,500 PSI or 10 GPM / 2,500 PSI
41458-00-Z	Valve Kit 18 GPM / 2,500 PSI or 18 GPM / 4,000 PSI
23634-00-Z	Water End Seal Kit 5 GPM / 2,500 PSI
23298-00-Z	Water End Seal Kit 10 GPM / 2,500 PSI
24630-00-Z	Water End Seal Kit 18 GPM / 2,500 PSI
41459-00-Z	Water End Seal Kit 18 GPM / 4,000 PSI
92436-00-Z	Oil End Seal Kit 5 GPM / 2,500 PSI or 10 GPM / 2,500 PSI
92437-00-Z	Oil End Seal Kit 18 GPM / 2,500 PSI
23301-00-Z	Input Shaft Seal Kit 10 GPM / 2,500 PSI
24631-00-Z	Input Shaft Seal Kit 18 GPM / 2,500 PSI or 18 GPM / 4,000 PSI
92438-00-Z	Plunger Kit 5 GPM / 2,500 PSI
92439-00-Z	Plunger Kit 10 GPM / 2,500 PSI
92440-00-Z	Plunger Kit 18 GPM / 2,500 PSI
92442-00-Z	Plunger Kit 18 GPM / 4,000 PSI
41564-00-X	Shaft Coupling Kit 5 GPM / 2,500 PSI or 10 GPM / 2,500 PSI
42200-00-X	Shaft Coupling Kit 18 GPM / 2,500 PSI
25233-00-Z	Brass Kit 18 GPM / 2,500 PSI
41461-00-Z	Plunger Bolt Kit
23302-00-Z	Plunger 18 GPM / 2,500 PSI (requires 5 per pump)
41460-00-Z	Brass Kit 18 GPM / 4,000 PSI
41749-00-Z	Plunger 18 GPM / 4,000 PSI (requires 5 per pump)
53502-00-X	Pulsation Valve Assembly 18 GPM / 2,000 PSI
42830-00-Z	Complete Liquid End 18 GPM / 2,500 PSI
42061-00-Z	Complete Liquid End 18 GPM / 4,000 PSI





## GIANT WATER PUMP

### WATER PUMP

Giant Industries high pressure water pumps are built from superior materials. Engineered in Germany and machined to exacting specifications, Giant pumps stand up to the harshest conditions and jobs. The GP7600 Series pumps feature spheroidal cast iron crankcases with available gearboxes for SAE-C hydraulic mount with vented dipstick. Crankshafts are through-hardened, ground and polished creating a smoother surface. Bronze connecting rods provide better lubrication and strength. Stainless steel plunger bases are ground, burnished and polished for a longer life. Solid ceramic plungers, made to exact specifications, increase seal life and decrease wear. The stainless steel/duplex steel valves and nickel-plated spheroidal cast iron manifold allow the pump to stand up to the rigors of sewer cleaning. This attention to detail and compilation of the highest quality materials and components ensure your pump will last. The ease of valve removal and replacement allow for easy repairs in the field without removing the head of the pump.

**GIANT**  
Performance Under Pressure



Part No.	GPM / PSI	Description
43791-00-X	40 GPM / 2,000 PSI	Triplex Plunger Pump (Engine Drive)
43792-00-X	40 GPM / 3,000 PSI	Triplex Plunger Pump (Engine Drive)
43794-00-X	65 GPM / 2,000 PSI	Triplex Plunger Pump (Engine Drive)
43805-00-X	65 GPM / 2,000 PSI	Triplex Plunger Pump (PTO Drive)
43736-00-X	55 GPM / 3,000 PSI	Triplex Plunger Pump (PTO Drive)
43806-00-X	80 GPM / 2,000 PSI	Triplex Plunger Pump (PTO Drive)
43807-00-X	80 GPM / 2,500 PSI	Triplex Plunger Pump (PTO Drive)

## GIANT WATER PUMP

### WATER PUMP REPAIR PARTS

Part No.	Description
26041-00-Z	Inlet Valve Kit 40 GPM / 2,000 PSI or 40 GPM / 3,000 PSI
26042-00-Z	Discharge Valve Kit 40 GPM / 2,000 PSI or 40 GPM / 3,000 PSI
26043-00-Z	Oil Seal Kit 40 GPM / 2,000 PSI or 40 GPM / 3,000 PSI
26040-00-Z	Plunger Packing Kit 40 GPM / 2,000 PSI
26044-00-Z	Plunger Packing Kit 40 GPM / 3,000 PSI
25991-00-Z	Plunger Packing Kit 65 GPM / 2,000 PSI
*25902-00-Z	Plunger Packing Kit - Various Pump Sizes
*25904-00-Z	Inlet Valve Kit - Various Pump Sizes
*25905-00-Z	LG Discharge Valve Kit - Various Pump Sizes
*25906-00-Z	SM Discharge Kit - Various Pump Sizes
*25903-00-Z	Oil Seal Kit - Various Pump Sizes

## MYERS WATER PUMP RECIPROCATING WATER PUMP

Myers builds the most reliable medium to heavy-duty reciprocating pumps and offers the latest in sewer jet pump technology. Myers reciprocating pumps keep sewer jet trucks running with industry-leading serviceability.

Part No.	GPM / PSI	Description
40345-00-S	18 GPM / 4,000 PSI	LH Drive Plunger Pump (CPM 18-40L Steel)
40209-00-T	35 GPM / 2,000 PSI	LH Drive Plunger Pump (C35-20L)
40835-00-T	35 GPM / 2,000 PSI	RH Drive Plunger Pump (C35-20R)
41095-00-T	40 GPM / 2,000 PSI	LH Drive Plunger Pump (C40-20R)
42725-00-T	40 GPM / 2,000 PSI	RH Drive Plunger Pump (C40-20R)
40888-00-K	54 GPM / 3,000 PSI	LH Drive Plunger Pump (E54-30L)
40888-01-K	54 GPM / 3,000 PSI	LH Integral Mount Plunger Pump (E54-30L IM)
40021-00-X	65 GPM / 2,000 PSI	LH Drive Plunger Pump (D65-20L)
40133-00-X	65 GPM / 2,000 PSI	RH Drive Plunger Pump (D65-20R)
40021-00-X	70 GPM / 2,3000 PSI	LH Drive Plunger Pump (E70-22L)
41991-00-K	75-80 GPM / 2,500 PSI	Plunger Pump (E75-25 / E80-25)
41326-00-K	80 GPM / 2,000 PSI	LH Drive Plunger Pump (E80-20L)
41982-00-X	80 GPM / 2,000 PSI	RH Drive Plunger Pump (E80-20R)
42333-00-K	80 GPM / 2,000 PSI	LH Integral Mount Plunger Pump (DP80-20L IM)
40595-00-K	80 GPM / 2,000 PSI	RH Drive Plunger Pump (DP80-20R)

# Myers®



RIGHT HAND



LEFT HAND

## MYERS WATER PUMP WATER PUMP REPAIR PARTS

Part No.	Description
22167-00-S	Liquid End Kit (CPM 18-40L Steel)
21583-00-Z	Plungers (3 per kit) (CPM 18-40L Steel)
23173-00-Z	Studs (3 per kit) (CPM 18-40L Steel)
40800-00-F	Liquid End Repair Kit (Ceramic) (C35-20)
40506-00-F	Liquid End Repair Kit (Steel) (C35-20)
24073-00-X	Liquid End Repair Kit (C40-20)
42116-00-F	Liquid End Repair Kit (E54-30)
40504-00-F	Liquid End Repair Kit (D65-20)
42319-00-F	Liquid End Repair Kit (E70-23)
24473-00-Z	Plunger Packing Kit (E75-25 / E80-20)
42674-00-Z	Fluid End Kit (Old Style - Pre June 2008 E80-20)
42117-00-Z	Fluid End Kit (New Style - Post June 2008 E80-20V)
40898-00-F	Liquid End Repair Kit (DP80-20)

## FMC WATER PUMP

### RECIPROCATING WATER PUMP

FMC Technologies' reciprocating pumps have provided exceptional performance and value since their introduction in 1884. As a pioneer and global leader in providing high-pressure fluid pumping solutions within a variety of markets, FMC Technologies offers a broad array of high pressure piston and plunger reciprocation pumps within the industrial, oil and gas, core drilling and mining, sewer cleaning, horizontal and vertical drilling, reverse osmosis and agricultural markets.

**FMC** Technologies



Part No.	GPM / PSI	Description
41580-00-S	18 GPM / 4,000 PSI	RH Drive Pump (M-0610)
40824-00-S	18 GPM / 4,000 PSI	LH Drive Pump (M-0610)
40298-00-X	40 GPM / 2,000 PSI	RH Drive Pump (L-0610)
40349-00-T	40 GPM / 2,000 PSI	LH Drive Pump (L-0614)
40721-00-TX	40 GPM / 3,000 PSI	RH Drive Pump (L-0614)
40964-00-TX	40 GPM / 3,000 PSI	LH Drive Pump (L-1114)
40022-00-X	65 GPM / 2,000 PSI	RH Drive Pump (L-1114)
40709-00-X	65 GPM / 2,000 PSI	LH Drive Pump (L-1118)
41002-00-X	55 GPM / 3,000 PSI	RH Drive Pump (L-1118)
41027-01-X	55 GPM / 3,000 PSI	LH Drive Pump (L-1614)
41057-00-K	75 GPM / 2,500 PSI	RH Drive Pump (L-1616)
41105-00-K	75 GPM / 2,500 PSI	LH Drive Pump (L-1616)
41063-00-K	80 GPM / 2,000 PSI	RH Drive Pump (L-1618)

## FMC WATER PUMP

### WATER PUMP REPAIR PARTS

Part No.	Description
21942-00-Z	Packing Kit (M-0610 18 GPM / 4,000 PSI)
40521-00-F	Packing Kit (L-0614 40 GPM / 2,000 PSI)
21948-00-Z	Valve Kit (L-0614 40 GPM / 2,000 PSI)
40666-00-F	Cylinder (Ceramic - 3 required per pump, L-0614 40 GPM / 2,000 PSI)
22517-00-Z	Packing Kit (L-1114 40 GPM / 3,000 PSI)
22512-00-F	Valve Kit - Various Pump Sizes
	L-1114 40 GPM / 3,000 PSI
	L-1614 55 GPM / 3,000 PSI
	L-1118 65 GPM / 2,000 PSI
	L-1616 75 GPM / 2,500 PSI
	L-1618 80 GPM / 2,000 PSI
22307-00-Z	Cylinder (3 required per pump, L-0614 40 GPM / 2,000 PSI)
22517-00-Z	Packing Kit (L-1614 55 GPM / 3,000 PSI)
23109-00-Z	Packing Kit (L-1118 65 GPM / 2,000 PSI)
21799-00-Z	Cylinder (3 required per pump, L-1118 65 GPM / 2,000 PSI)
22742-00-Z	Packing Kit (L-1616 75 GPM / 2,000 PSI)
22742-01-Z	U.V. Packing Kit (L-1616 75 GPM / 2,500 PSI)
41370-01-Z	Cylinder (3 required per pump, L-1618 80 GPM / 2,000 PSI)

## KAISER WATER PUMP

### SINGLE PISTON WATER PUMP

In contrast to a high-pressure water pump based on the 3-piston plunger principle, the piston action of the KDU is very slow. The KDU can run dry safely and is impervious to soiled water. The few moving parts assure exceptionally quiet running and low-noise operation.

The valves on the water-side can be used repeatedly. Due to the hydraulic drive, maintenance on the mechanical drive is minimal. The water pressure is set and controlled on the hydraulic side. A pressure control bypass valve, which is susceptible to wear, can thus be dispensed with on the high-pressure water side.

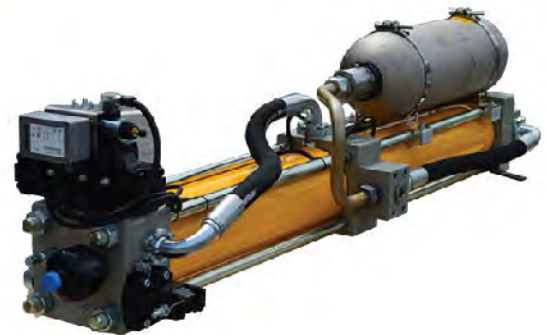


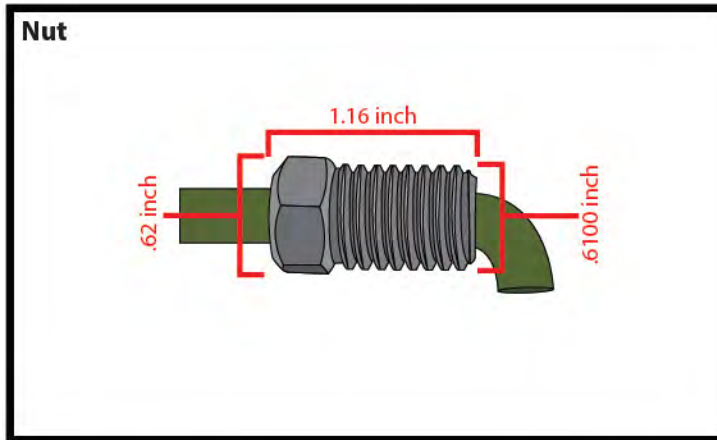
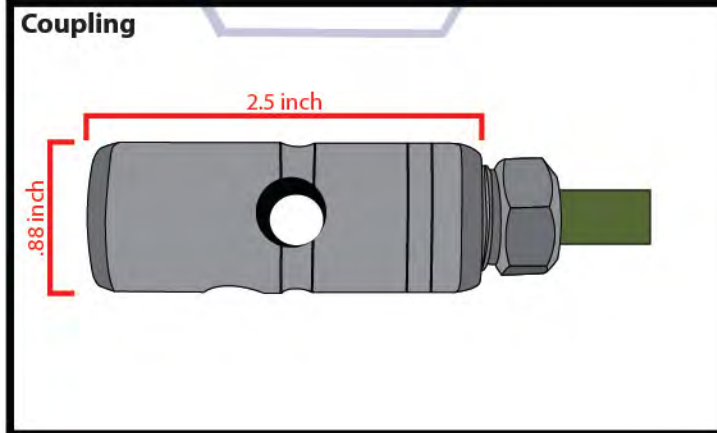
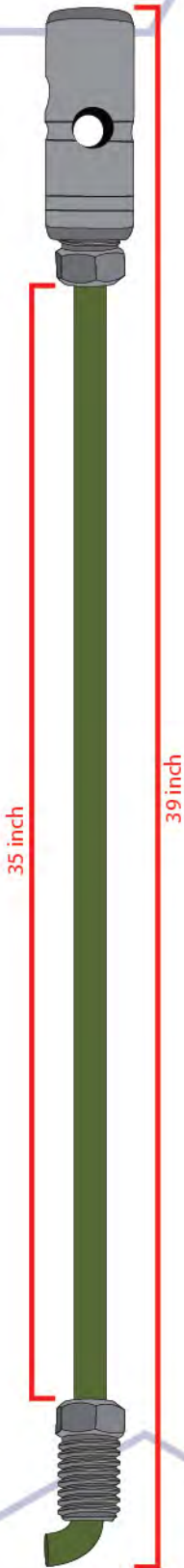
Part No.	GPM / PSI	Description
43342-00-X	66 GPM / 2,900 PSI	Single Piston Pump
42324-00-X	106 GPM / 2,500 PSI	Single Piston Pump (Complete Kit)
43598-00-X	106 GPM / 2,500 PSI	Single Piston Pump (does not include accumulator, 12VDC solenoid, 4/3 solenoid valve)

## KAISER WATER PUMP

### WATER PUMP REPAIR PARTS

Part No.	Description
42434-00-F	Reducing Valve
42435-00-F	Replaceable Valve Orifice
24787-00-X	Mounting Kit
26021-00-X	Complete Center Assembly





## Sewer Rod / Nut & Coupling System Material Properties

### Nut & Coupling

	SI	English
Hardness	170HV	84 HRB
Tensile Strength Ultimate	540MPa	78.3ksi
Tensile Strength Yield	415MPa	60.2ksi
Elongation	10%	10%
Modulus of Elasticity (steel typical)	200GPa	29,000ksi
Shear Modulus (steel typical)	80GPa	11,600ksi
Ultimate Load	25.3KN	5,700lbs

### Rod

	SI	English
Hardness	490HV	46 HRc
Tensile Strength Ultimate	1572MPa	244ksi
Tensile Strength Yield	1682MPa	228ksi
Elongation	N/A	N/A
Modulus of Elasticity (steel typical)	200GPa	29,000ksi
Shear Modulus (steel typical)	80GPa	11,600ksi

## MEAN GREEN

### SECTIONAL ROD

Quality, performance, reliability and value are just a few advantages an operator user will realize while using Mean Green Sewer Rods. Our quality control program selects only rods that will give the user added torque and toughness with the ability to open a sewer line where other rods fail. The initial cost may be more than our Super Premium Sewer Rods, but its superior performance obvious when Mean Green Sewer Rods are put to work.



Part No.	Size	Description
74161-00-Z	3/8"x36"	Mean Green Sewer Rod Complete with Coupling
74162-00-Z	3/8"x39"	Mean Green Sewer Rod Complete with Coupling
74163-00-Z	3/8"x48"	Mean Green Sewer Rod Complete with Coupling
74167-00-Z	5/16"x36"	Mean Green Sewer Rod Complete with Coupling
74168-00-Z	5/16"x39"	Mean Green Sewer Rod Complete with Coupling
74169-00-Z	5/16"x48"	Mean Green Sewer Rod Complete with Coupling

## SUPER PREMIUM

### SECTIONAL ROD

Quality assurance is verified through a continuous testing procedure while manufacturing Sewer Equipment Sectional Steel Rods. These rods are acid resistant and are equipped with hardened and plated nuts and couplings. Maximum torque, exceptional tensile strength and unequaled Rockwell hardness make our rod quality top in the industry.

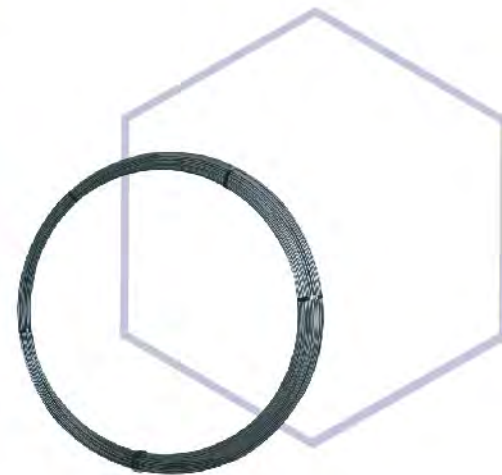


Part No.	Size	Description
72812-00-F	3/8"x36"	Super Premium Sewer Rod Complete with Coupling
72814-00-F	3/8"x39"	Super Premium Sewer Rod Complete with Coupling
72816-00-F	3/8"x48"	Super Premium Sewer Rod Complete with Coupling
72818-00-F	3/8"x72"	Super Premium Sewer Rod Complete with Coupling
72801-00-F	5/16"x36"	Super Premium Sewer Rod Complete with Coupling
72802-00-F	5/16"x39"	Super Premium Sewer Rod Complete with Coupling

## CONTINUOUS ROD

### 1,200' PER ROLL

Continuous Steel Replacement Rod is available in a variety of sizes. The oil tempered spring wire is made to your specifications.



Part No.	Size	Description
10233-00-F	.375	Continuous Rod
10234-00-F	.393	Continuous Rod
10235-00-F	.415	Continuous Rod
10236-00-F	.461	Continuous Rod

## PILOT BULLET TOOL

WITH PULLOUT SWIVEL

The Pilot Bullet Tool with Pullout Swivel acts as a boring Tool when being pushed, and will swivel when being pulled back. The mechanical clevis allows the ends of the swivel to rotate on hard pulls.



Part No.	Size	Description
----------	------	-------------

20564-06-F	5/16"	With Adapter Rod and Couplings
20564-09-F	3/8"	With Adapter Rod and Couplings

## SAND CORKSCREW

FOR COUPLINGS

The double corkscrew effect of the Sand Corkscrew makes it ideal for sand infested pipes. The leading corkscrew head bores through the sand stoppage and the second corkscrew head helps stir up the loose sand so it can be washed away with water. Very effective when manholes are far apart.



Part No.	Size	Description
----------	------	-------------

70457-06-F	3"	Used with 5/16" Rod
70457-09-F	3"	Used with 3/8" Rod

## PICK UP TOOL

FOR SECTIONAL ROD

The Pick Up Tool is used for retrieving sections of broken rod. The open end will snag the broken rod and when pulled back, the pigtail section will grasp the coupling and recover the broken rod sections back to the manhole.



Part No.	Size	Description
----------	------	-------------

20572-06-F	5/16"	Pick Up Tool for Sectional Rod
20572-09-F	3/8"	Pick Up Tool for Sectional Rod

## SPEAR HEAD

### FOR SECTIONAL ROD

A good tool for opening tightly plugged sewer line. The Spear Head will pierce the toughest articles clogging a line. Use this tool to get the water flowing and follow with Augers, Corkscrew or Root Saws to finish the cleaning process.

Part No.	Size	Description
71129-06-F	2"	With 5/16" Adapter Rod
71129-09-F	2"	With 3/8" Adapter Rod
71130-06-F	4"	With 5/16" Adapter Rod
71130-09-F	4"	With 3/8" Adapter Rod



## ASSEMBLY WRENCH

### FOR SECTIONAL ROD

Used for assembling and disassembling rod nuts into and out of the coupling. The wrench end of this tool will grip the nuts securely and the opposite end goes into the center hole of the coupling to aid in tightening and loosening the nuts.

Part No.	Size	Description
90252-06-F	5/16"	Assembly Wrench
90252-09-F	3/8"	Assembly Wrench



## TURNING HANDLE

### FOR ASSEMBLING SECTIONAL ROD

Spring loaded plunger in the Assembly Turning Handle locks into the center hole of coupling to aid in tightening and loosening the nuts.

Part No.	Size	Description
90098-00-C	5/16"	Assembly Turning Handle
90253-00-F	3/8"	Assembly Turning Handle





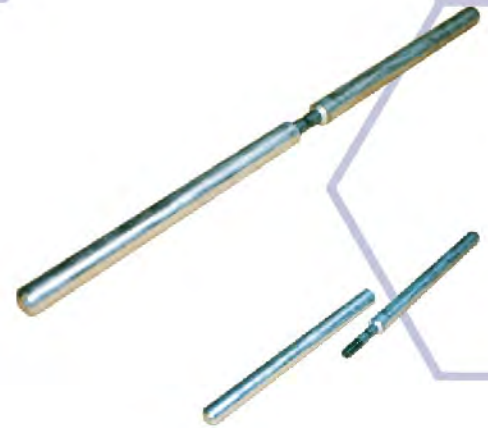
## BAR TURNING HANDLE

### FOR SECTIONAL ROD

Insert the threaded section of the Bar Turning Handle through the center hole in the coupling and screw the handle together. Rods can now rotate manually. One size fits all.

Part No.	Description
----------	-------------

90254-00-F	Bar Turning Handle
------------	--------------------



## TWISTING HANDLE

### PULL OUT TOOL

The handle along the locking pin of this tool, inserted in the coupling, allows the user to push, pull and rotate the rods manually.

Part No.	Size	Description
----------	------	-------------

20562-00-F	5/16"	Pull Out & Twisting Handle
20314-00-F	3/8"	Pull Out & Twisting Handle



## PULL OUT TOOL

### FOR SECTIONAL ROD

The slotted section of the Pull Out Tool fits over the rod and allows the operator to push or pull on a coupling in order to move the rod in or out of the sewer line.

Part No.	Size	Description
----------	------	-------------

20579-00-F	5/16"	Pull Out Tool
20580-00-F	3/8"	Pull Out Tool

## SAND LEADER

### FOR SECTIONAL ROD

The Sand leader is designed to have the ability to run and twist over sand deposits in sanitary and storm sewers. Also used very effectively for threading Bucket Machine cable.

Part No.	Size	Description
----------	------	-------------

71793-06-Z	5/16"	With Adapter Rod and Couplings
71793-09-Z	3/8"	With Adapter Rod and Couplings



## BULLET TOOL

### FOR SQUARE STOCK CORKSCREW

The Bullet Tool penetrate the toughest obstructions faster than any other plug buster. The rounded design minimizes resistance. A must for every sewer cleaning department.

Part No.	Size	Description
----------	------	-------------

20571-06-Z	5/16"	With Adapter Rod
20571-09-Z	3/8"	With Adapter Rod
20571-11-Z	.375	With Set Screw Coupling
20571-13-Z	.393	With Set Screw Coupling
20571-15-Z	.415	With Set Screw Coupling
20571-17-Z	.461	With Set Screw Coupling



## DRIVE CHAIN

### WITH CHROME VANADIUM DRIVE DOGS

Drive Chains with Chrome Vanadium Drive Dogs will require replacement periodically to insure positive rod drive. Chain assemblies fit both 5/16" and 3/8" sectional rods.

Part No.	Size	Description
----------	------	-------------

76489-00-Z	36"	Drive Chain with Dogs (10FD)
73703-00-Z	39"	Drive Chain with Dogs (10FD)
71421-00-Z	36"	Drive Chain with Dogs (5FD)
71422-00-Z	39"	Drive Chain with Dogs (5FD)



## RIGID ROD GUIDE

### LOWER MANHOLE

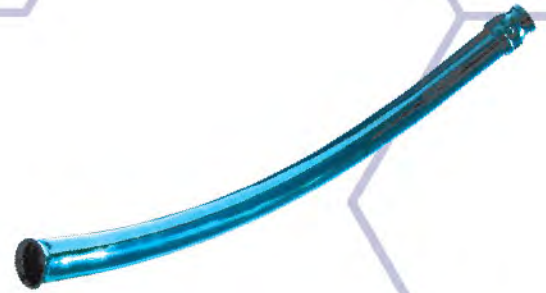
The Lower Manhole Rigid Rod Guide allows the sewer rods to be guided into the sewer pipe at the proper degree.

Part No.

Description

70768-00-F

Lower Manhole Rigid Rod Guide



## SINGLE PRONG BRACE

### FOR ROD GUIDE HOSE

The Single Prong Brace supports the hose guide inside the manhole. Fasten the chain around the bell and extend the Single Prong Brace to the back side of the manhole, thus preventing the bell from pushing out of the sewer line while rodding. These setups can be done from the topside by using a rope around the bell, as well as, through the loop on the Single Prong Brace.

Part No.

Description

70733-00-Z

Single Prong Brace



## ADAPTER RODS

### FOR SECTIONAL & CONTINUOUS ROD

Adapter Rods are used for fastening cutters and tools to the end of rods. This 7" Adapter Rod has a fine thread left hand nut on one end and right hand coarse nut on the opposite end.



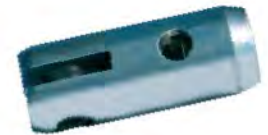
Part No.	Size	Description
----------	------	-------------

72822-00-Z	5/16"	Adapter Rod
72823-00-Z	3/8"	Adapter Rod
71782-00-Z	.461	Adapter Rod

## COUPLINGS

### FOR AUGERS - 3" & 4"

The slotted end of the coupling will fit all saw blades. The opposite end will fit the various rod connections listed here.



Part No.	Size	Description
----------	------	-------------

21260-00-X	5/16"	To be used with Adapter Rods
21259-00-X	3/8"	To be used with Adapter Rods
21367-00-X	.375	with Set Screw Connections
21368-00-X	.393	with Set Screw Connections
21369-00-X	.415	with Set Screw Connections
21388-00-X	.461	with Set Screw Connections

## COUPLINGS

### FOR AUGERS - 5" & 10"

The slotted end of the coupling will fit all saw blades. The opposite end will fit the various rod connections listed here.



Part No.	Size	Description
----------	------	-------------

21262-00-X	5/16"	To be used with Adapter Rods
21258-00-X	3/8"	To be used with Adapter Rods
21420-00-Z	.375	with Set Screw Connections
21422-00-Z	.393	with Set Screw Connections
21424-00-Z	.415	with Set Screw Connections
21426-00-Z	.461	with Set Screw Connections

## COUPLINGS

### FOR SECTIONAL & CONTINUOUS ROD

Couplings for sectional and continuous rod.  
5/16" and 3/8" couplings are for use with sectional steel rod.  
.375, .393, .415 and .461 couplings are for continuous rod applications.



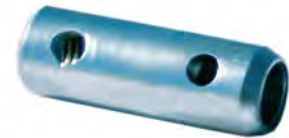
Part No.	Size	Description
----------	------	-------------

20760-00-Z	5/16"	Coupling
20981-00-Z	3/8"	Coupling

## COUPLINGS

### FOR SQUARE STOCK CORKSCREW

The threaded end of all square stock corkscrews are the same.  
Select the particular rod fitting from this chart.



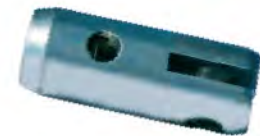
Part No.	Size	Description
----------	------	-------------

70770-00-Z	5/16"	To be used with Adapter Rods
21256-00-X	3/8"	To be used with Adapter Rods
21264-00-X	.375	with Set Screw Connections
21363-00-X	.393	with Set Screw Connections
21364-00-X	.415	with Set Screw Connections
21366-00-X	.461	with Set Screw Connections

## COUPLINGS

### FOR ROOT SAW

The slotted end of the coupling will fit all saw blades. The opposite end will fit the various rod connections listed here.



Part No.	Size	Description
----------	------	-------------

21260-00-X	5/16"	To be used with Adapter Rods
21259-00-X	3/8"	To be used with Adapter Rods
21367-00-X	.375	with Set Screw Connections
21368-00-X	.393	with Set Screw Connections
21369-00-X	.415	with Set Screw Connections
21388-00-X	.461	with Set Screw Connections

## ADAPTER COUPLINGS

### COUPLINGS

A variety of tools are used with different size rods. It is important that the proper coupling is used to join the tool to the rod. The adapter couplings available are listed below.

Part No.	Size	Description
20839-00-Z	.375	Hooked End Type, to 5/16" Adapter Rod
20840-00-Z	.375	Hooked End Type, to 3/8" Adapter Rod
20841-00-Z	.393	Hooked End Type, to 5/16" Adapter Rod
20842-00-Z	.393	Hooked End Type, to 3/8" Adapter Rod
20843-00-Z	.415	Hooked End Type, to 5/16" Adapter Rod
20844-00-Z	.415	Hooked End Type, to 3/8" Adapter Rod
20845-00-Z	.461	Hooked End Type, to 5/16" Adapter Rod
20846-00-Z	.461	Hooked End Type, to 3/8" Adapter Rod
20839-00-Z	3/8"	Hooked End Type, to 3/8" Adapter Rod
21084-00-Z	5/16"	Hooked End Type, to 3/8" Adapter Rod
20831-00-Z	.375	Set Screw Type, to 5/16" Adapter Rod
20832-00-Z	.375	Set Screw Type, to 3/8" Adapter Rod
20833-00-Z	.393	Set Screw Type, to 5/16" Adapter Rod
20834-00-Z	.393	Set Screw Type, to 3/8" Adapter Rod
20835-00-Z	.415	Set Screw Type, to 5/16" Adapter Rod
20836-00-Z	.415	Set Screw Type, to 3/8" Adapter Rod
20837-00-Z	.461	Set Screw Type, to 5/16" Adapter Rod
20838-00-Z	.461	Set Screw Type, to 3/8" Adapter Rod



## NUTS

### FOR COUPLINGS

5/16" and 3/8" nuts are for use with sectional steel rod. .375, .393, .415 and .461 nuts are for continuous rod applications. The nuts available are listed below.

Part No.	Size	Description
20759-00-Z	5/16"	Coarse Thread Right Hand Nut
20852-00-Z	3/8"	Coarse Thread Right Hand Nut
20823-00-Z	.375	Coarse Thread Right Hand Nut
20825-00-Z	.393	Coarse Thread Right Hand Nut
20827-00-Z	.415	Coarse Thread Right Hand Nut
20829-00-Z	.461	Coarse Thread Right Hand Nut
20758-00-Z	5/16"	Fine Thread Left Hand Nut
20850-00-Z	3/8"	Fine Thread Left Hand Nut
20824-00-Z	.375	Fine Thread Left Hand Nut
20826-00-Z	.393	Fine Thread Left Hand Nut
20828-00-Z	.415	Fine Thread Left Hand Nut
20830-00-Z	.461	Fine Thread Left Hand Nut



## CORKSCREW

### SQUARE STOCK FOR SECTIONAL & CONTINUOUS ROD

Square stock corkscrew design for both hand operated and power equipment. The cutting edges on both sides of this tool make it ideally suited for emergency stoppages and preventative maintenance programs.



Part No.	Pipe Size	Size	Description
----------	-----------	------	-------------

72760-06-F	2"	5/16"	Adapter Rod & Coupling
72760-09-F	2"	3/8"	Adapter Rod & Coupling
72760-11-F	2"	.375	Set Screw Coupling
71692-06-F	3"	5/16"	Adapter Rod & Coupling
71692-09-F	3"	3/8"	Adapter Rod & Coupling
71692-11-F	3"	.375	Set Screw Coupling
71693-06-F	4"	5/16"	Adapter Rod & Coupling
71693-09-F	4"	3/8"	Adapter Rod & Coupling
71693-11-F	4"	.375	Set Screw Coupling
71694-06-F	5"	5/16"	Adapter Rod & Coupling
71694-09-F	5"	3/8"	Adapter Rod & Coupling
71694-11-F	5"	.375	Set Screw Coupling
71695-06-F	6"	5/16"	Adapter Rod & Coupling
71695-09-F	6"	3/8"	Adapter Rod & Coupling
71695-11-F	6"	.375	Set Screw Coupling
71696-06-F	8" STD.	5/16"	Adapter Rod & Coupling
71696-09-F	8" STD.	3/8"	Adapter Rod & Coupling
71696-11-F	8" STD.	.375	Set Screw Coupling
72826-06-F	8" H.D.	5/16"	Adapter Rod & Coupling
72826-09-F	8" H.D.	3/8"	Adapter Rod & Coupling
72826-11-F	8" H.D.	.375	Set Screw Coupling
71697-06-F	10"	5/16"	Adapter Rod & Coupling
71697-09-F	10"	3/8"	Adapter Rod & Coupling
71697-11-F	10"	.375	Set Screw Coupling
71698-06-F	12"	5/16"	Adapter Rod & Coupling
71698-09-F	12"	3/8"	Adapter Rod & Coupling
71698-11-F	12"	.375	Set Screw Coupling

## PICK UP TOOL

### FOR CONTINUOUS ROD

The Pick Up Tool is used for retrieving sections of broken rod. The open end will snag the broken rod and when pulled back, the pigtail section will grasp the coupling and recover the broken rod sections back to the manhole.

Part No.	Size	Description
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21703-11-F	.375	Pick Up Tool with Set Screw Coupling
21703-21-F	3/8"	Pick Up Tool for Continuous Rod



## ROUND STOCK

### CORKSCREW FOR SECTIONAL & CONTINUOUS ROD

Smooth configuration and small diameter make the corkscrew useful in retrieving rags and opening small pipe blockages. Used primarily with hand operated equipment.



Part No.	Size	Description
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72761-06-Z	1-1/2"	Use with 5/16" Rod
72761-09-Z	1-1/2"	Use with 3/8" Rod
72190-06-Z	2"	Use with 5/16" Rod
72190-09-Z	2"	Use with 3/8" Rod
72827-06-Z	2-1/2"	Use with 5/16" Rod
72827-09-Z	2-1/2"	Use with 3/8" Rod
72191-06-Z	3"	Use with 5/16" Rod
72191-09-Z	3"	Use with 3/8" Rod
72762-06-Z	3-1/2"	Use with 5/16" Rod
72762-09-Z	3-1/2"	Use with 3/8" Rod
72192-06-Z	4"	Use with 5/16" Rod
72192-09-Z	4"	Use with 3/8" Rod
72828-06-Z	5"	Use with 5/16" Rod
72828-09-Z	5"	Use with 3/8" Rod

## CURVED BLADE CUTTER

### FOR SECTIONAL & CONTINUOUS ROD

This heavy duty cutter with replaceable steel blades (1/8" thick and 1-1/4" wide) does a good job on roots and an even better job on grease. This heavy duty cutter will scour the pipe razor clean.



Part No.	Size	Description
----------	------	-------------

20588-00-Z	4"	Blades only - 3 per set
20587-00-Z	6"	Blades only - 3 per set
20586-00-Z	8"	Blades only - 3 per set
20585-00-Z	10"	Blades only - 3 per set
20584-00-Z	12"	Blades only - 3 per set
20583-00-Z	15"	Blades only - 3 per set
20582-00-Z	18"	Blades only - 3 per set



## AUGERS

### FOR SECTIONAL & CONTINUOUS ROD

The cutting edges on both sides of the Auger blades are ideal for ripping obstructions out of the pipe. The sharp pointed tip of the Auger fights through the blockage and the angular design pulls roots, rags and other miscellaneous sewer debris out of the sewer pipe.



Part No.	Pipe Size	Size	Description
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72759-06-Z	2"	5/16"	Adapter Rod & Coupling
72759-09-Z	2"	3/8"	Adapter Rod & Coupling
72759-11-Z	2"	.375	Set Screw Coupling
71672-06-Z	3"	5/16"	Adapter Rod & Coupling
71672-09-Z	3"	3/8"	Adapter Rod & Coupling
71672-11-Z	3"	.375	Set Screw Coupling
71673-06-Z	4"	5/16"	Adapter Rod & Coupling
71673-09-Z	4"	3/8"	Adapter Rod & Coupling
71673-11-Z	4"	.375	Set Screw Coupling
71674-06-Z	5"	5/16"	Adapter Rod & Coupling
71674-09-Z	5"	3/8"	Adapter Rod & Coupling
71674-11-Z	5"	.375	Set Screw Coupling
71675-06-Z	6"	5/16"	Adapter Rod & Coupling
71675-09-Z	6"	3/8"	Adapter Rod & Coupling
71675-11-Z	6"	.375	Set Screw Coupling
71676-06-Z	8"	5/16"	Adapter Rod & Coupling
71676-09-Z	8"	3/8"	Adapter Rod & Coupling
71676-11-Z	8"	.375	Set Screw Coupling
71677-06-Z	10"	5/16"	Adapter Rod & Coupling
71677-09-Z	10"	3/8"	Adapter Rod & Coupling
71677-11-Z	10"	.375	Set Screw Coupling

## DOUBLE CORKSCREW

### ROUND STOCK FOR SECTIONAL & CONTINUOUS ROD

Penetrates and grabs roots and miscellaneous sewer debris, so any obstruction can actually be pulled out of the sewer line and backed into the manhole. Most effective when rotated very slowly.



Part No.	Size	Description
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71699-06-F	3"	Use with 5/16" Rod
71699-09-F	3"	Use with 3/8" Rod
71700-06-F	4"	Use with 5/16" Rod
71700-09-F	4"	Use with 3/8" Rod
71702-06-F	6"	Use with 5/16" Rod
71702-09-F	6"	Use with 3/8" Rod

## TURN TYPE BRUSH

### FOR SECTIONAL ROD

Designed to be used as a finishing tool in sanitary sewer lines. Its lightweight design allows the operator to rotate this tool at higher RPMs.

Part No.	Pipe Size	Size	Description
91095-06-F	4"	5/16"	Adapter Rod & Coupling
91095-09-F	4"	3/8"	Adapter Rod & Coupling
91096-06-F	6"	5/16"	Adapter Rod & Coupling
91096-09-F	6"	3/8"	Adapter Rod & Coupling
91097-06-F	8"	5/16"	Adapter Rod & Coupling
91097-09-F	8"	3/8"	Adapter Rod & Coupling
91098-06-F	10"	5/16"	Adapter Rod & Coupling
91098-09-F	10"	3/8"	Adapter Rod & Coupling
91099-06-F	12"	5/16"	Adapter Rod & Coupling
91099-09-F	12"	3/8"	Adapter Rod & Coupling



## TURN TYPE PORCUPINE

### FOR SECTIONAL ROD

Designed as a finishing tool to loosen remaining grease and fine hair roots. The Turn Type Porcupine is most effective while being pulled back and rotated in a line that is being flushed with water at the same time.

Part No.	Pipe Size	Size	Description
72193-06-Z	4"	5/16"	Adapter Rod & Coupling
72193-09-Z	4"	3/8"	Adapter Rod & Coupling
72194-06-Z	6"	5/16"	Adapter Rod & Coupling
72194-09-Z	6"	3/8"	Adapter Rod & Coupling
72195-06-Z	8"	5/16"	Adapter Rod & Coupling
72195-09-Z	8"	3/8"	Adapter Rod & Coupling
72196-06-Z	10"	5/16"	Adapter Rod & Coupling
72196-09-Z	10"	3/8"	Adapter Rod & Coupling
72197-06-Z	12"	5/16"	Adapter Rod & Coupling
72197-09-Z	12"	3/8"	Adapter Rod & Coupling
72764-06-Z	15"	5/16"	Adapter Rod & Coupling
72764-09-Z	15"	3/8"	Adapter Rod & Coupling



## PULL TYPE DUCT BRUSH

### FOR SECTIONAL ROD

Designed for removing mud and obstructions from various sized ducts. Stiff and closely knit bristles will provide the most aggressive cleaning possible.

Part No.	Size	Description
72830-00-F	3"	Pull Type Duct Brush
72831-00-F	3 1/2"	Pull Type Duct Brush
72832-00-F	4"	Pull Type Duct Brush
72833-00-F	5"	Pull Type Duct Brush



## MANHOLE JACK FOR RODDING MACHINES

The Manhole Jack is to be used for securing the top section of 1-1/2" guide pipe against the manhole lid.



Part No.	Description
----------	-------------

70659-00-Z	Manhole Jack
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## BACK JACK ADJUSTABLE

The Adjustable Back Jack fastens to the Lower Manhole Rigid Rod Guide to provide rigidity to the guide pipe section.



Part No.	Description
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70592-00-Z	Adjustable Back Jack
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## FOOT JACK ADJUSTABLE

The adjustable Foot Jack keeps the Lower Manhole Rigid Rod Guide stabilized. This tool enables the user to remove the entire guide assembly with greater ease.



Part No.	Description
----------	-------------

90067-00-F	Adjustable Foot Jack
------------	----------------------

## SNAP ON PLIERS WITH CLEANER

This tool cleans and lubricates continuous rod. While in use, be sure to oil the cleaning pads of the Snap On Pliers before pulling the continuous rod out of the sewer line. Lubrication guarantees a smooth machine performance and minimizes rust.



Part No.	Size	Description
----------	------	-------------

20563-00-F	All Rod	Snap on Pliers with Cleaners
21698-00-F	N/A	Extra Cleaning Pads

## POWER ROD DRIVE

### SECTIONAL RODDING UNIT

This unit, equipped with sectional steel rods, will allow the user to access those difficult to reach manholes. Three solid pneumatic tiers make the unit highly maneuverable. A transmission with forward/reverse and a convenient throttle control provides variable rod speed and rotation. Rapid chuck is optional.



Part No.	Size	Description
----------	------	-------------

90278-01-P	6.5 hp	Power Rod Drive
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## RAPID CHUCK

### RODDING ACCESSORIES

The Rapid Chuck is a useful accessory item for a power Rod Drive. This tool allows the user to securely grab the coupling properly with a spring loaded ball bearing. To release the chuck, simply push the locking collar rearward. Which is a much safer way to operate the Power Rod Drive unit.



Part No.	Size	Description
----------	------	-------------

71242-01-F	5/16"	Rapid Chuck for Rod
71241-00-F	3/8"	Rapid Chuck for Rod

## ROD STAND

### RODDING ACCESSORIES

The Rod Reel Stand is fabricated from heavy duty steel and 1" pipe.

Part No.	Description
----------	-------------

71262-00-F	Rod Reel Stand
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## HOSE GUIDE

### LIGHTWEIGHT GUIDE FOR RODDING MACHINE

This Lightweight Hose Guide with flexible metallic liner and aluminum fitting combines flexibility safety and ease of use. The outer cover is an abrasion PVC with a PVC helix, the metallic liner is zinc plated, and fittings are cast aluminum. The most popular guide on the market.



Part No.	Size	Description
----------	------	-------------

51698-00-F	10'	Lightweight Hose Guide
51699-00-F	15'	Lightweight Hose Guide
50953-00-F	20'	Lightweight Hose Guide
50954-00-F	25'	Lightweight Hose Guide

## HOSE GUIDE

### HEAVY DUTY GUIDE FOR RODDING MACHINE

The Heavy Duty Hose Guide with flexible metallic liner has a combination of a chemical resistant rubber hose outer cover and a zinc plated flexible metallic liner, providing a safe and easy set up of automatic rodding machines. The material makeup of this hose guide is lighter than the spring-lined hose guide, giving a single operator the ability to maneuver it on his own.



Part No.	Size	Description
----------	------	-------------

51702-00-F	10'	Heavy Duty Hose Guide with Metallic Liner
51703-00-F	15'	Heavy Duty Hose Guide with Metallic Liner
51704-00-F	20'	Heavy Duty Hose Guide with Metallic Liner
50949-00-F	25'	Heavy Duty Hose Guide with Metallic Liner

## HOSE GUIDE BELL

### FOR HOSE GUIDE

The Hose Guide Bell is designed to guide the rods in and out of the hose guide smoothly. Cast steel construction. Only used with hose guides with steel fittings.



Part No.	Description
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71791-00-F	Hose Guide Bell
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## LATERAL ROD KITS

### ROUND COUPLINGS

Lateral Rod Kit, consisting of seventeen 1/4" x 6' rods and accessories, is used for cleaning small diameter lines (6" and up). 1/4" rods will make 90° bends in 6" sewer lines and will not make bends in the trap. Comes complete with entire set of accessories or items may be purchased



Part No.	Part	Description
----------	------	-------------

90374-70-F	Lateral Rod Kit (Round)	Includes seventeen 1/4" x 6' rods and all tools shown.
71785-70-F	1/4"x6' Rods with Round Coupling	Spring steel 1/4" rods with round couplings. Designed to work in small sewer lines. <i>Nuts and couplings are plated.</i>

Part No.	Part	Description
----------	------	-------------

71070-70-F	2" Cork Screw	For plugged lines
71067-70-F	4" Cork Screw	Helps remove large grease deposit



Part No.	Part	Description
----------	------	-------------

71673-70-F	4" Root Cutter	Roots
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Part No.	Part	Description
----------	------	-------------

20263-70-F	Pick Up Tool	Retrieve broken rods and tools
------------	--------------	--------------------------------



Part No.	Part	Description
----------	------	-------------

71797-70-F	Spear Head	Good tool for removing grease and lime deposits
------------	------------	---



Part No.	Part	Description
----------	------	-------------

90252-06-F	Assembly Wrench	Use for assembling and disassembling nuts and couplings
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Part No.	Part	Description
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20562-00-F	Pull Out and Twisting Handle	Rods can now be rotated manually
21437-00-F	Electric Drill Adapter	Makes rod turning easier than turning by hand



## LATERAL ROD KITS HEX COUPLINGS

Lateral Rod Kit, consisting of seventeen 1/4" x 6' rods and accessories is used for cleaning small diameter lines (6" and up). 1/4" rods will make 90° bends in 6" sewer lines and will not make bends in the trap. Comes complete with entire set of accessories or items may be purchased individually.



Part No.	Part	Description
----------	------	-------------

90374-71-F	Lateral Rod Kit (Hex)	Includes seventeen 1/4" x 6' rods and all tools shown.
71785-71-F	1/4"x6' Rods with Hex Coupling	Spring steel 1/4" rods with hex couplings. Designed to work in small sewer lines. <i>Nuts and couplings are plated.</i>

Part No.	Part	Description
----------	------	-------------

71070-71-F	2" Cork Screw	For plugged lines
71067-71-F	4" Cork Screw	Helps remove large grease deposits



Part No.	Part	Description
----------	------	-------------

71797-70-F	Spear Head	Good tool for removing grease and lime deposits
------------	------------	---



Part No.	Part	Description
----------	------	-------------

20263-71-F	Pick Up Tool	To be used for picking up broken rod in pipe
------------	--------------	--

Part No.	Part	Description
----------	------	-------------

90252-06-F	Assembly Wrench	Use for assembling and disassembling nuts and couplings
------------	-----------------	---



Part No.	Part	Description
----------	------	-------------

70500-71-Z	Turning & Twist Handle	Provides leverage for pulling and pushing rod
21437-00-F	Electric Drill Adapter	Makes rod turning easier than turning by hand



## VACUUM TUBE

### EXTENSIONS

Vacuum Tubes are made of aluminum with flanged ends.

Part No.	Diameter	Length
51540-02-V	4"	48"
51541-02-V	4"	72"
51542-02-V	4"	96"
51945-00-V	6"	48"
51545-02-V	6"	72"
51546-02-V	6"	96"
51936-00-V	8"	48"
52807-00-V	8"	72"
51938-00-V	8"	96"



## VACUUM TUBE

### WITH RUBBER CUFF

Vacuum Excavator Nozzles with Rubber Cuff. The Rubber Cuff allows the end of the Excavator Tube to conform to the bottom of the working area. This ensures your machine is working to its maximum efficiency.

Part No.	Diameter	Length
91991-00-V	4"	72"
91942-00-V	6"	72"
92005-00-V	8"	72"
54069-00-V	6"	Cuff End Only
54499-00-V	8"	Cuff End Only
24964-00-X		Elevator Bolts
20980-00-Z		Elevator Nuts



## VACUUM TUBE

### CROWN CONFIGURATION

Flanged aluminum nozzle with Crown Configuration.

Part No.	Diameter	Length
54315-00-V	4"	72"
54314-00-V	6"	72"
54316-00-V	8"	72"
75979-00-V	4"	Crown Only
75980-00-V	6"	Crown Only
76106-00-V	8"	Crown Only





## 3 WAY BALL VALVE

Part No.	Size	Description
20229-00-T	1"	3 Way Ball Valve
22384-00-X	3/4"	3 Way Ball Valve
50731-00-F	1/2"	3 Way Ball Valve



## "W" BALL VALVE

Part No.	Size	Description
50732-00-F	1"	"W" Ball Valve
51660-00-F	3/4"	"W" Ball Valve



## "OB" BALL VALVE

Part No.	Size	Description
20856-00-F	1"	"OB" Ball Valve



## "T" BALL VALVE

Part No.	Size	Description
21160-00-X	1"	"T" Ball Valve
21702-00-F	3/4"	"T" Ball Valve



## UNLOADER VALVE

PRESSURE REGULATOR

Part No.	Capacity	Pressure	Description
40785-00-F	10-60 GPM	100 - 1200 PSI	Regulator
40561-00-F	25-70 GPM	600 - 2000 PSI	Regulator

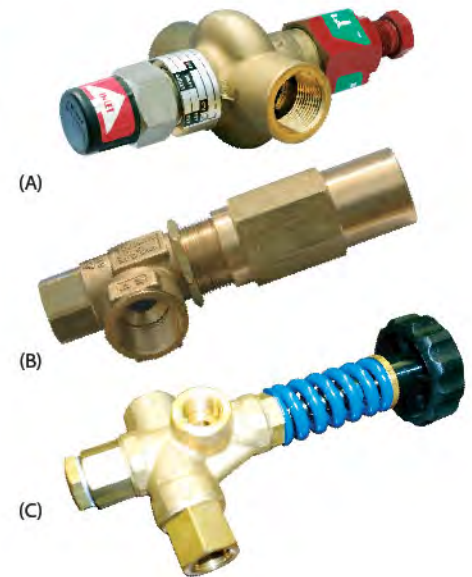


## PRESSURE REGULATOR

GENERAL CLEANING NOZZLE

Designed to regulate and control the maximum water pressure on. Provides safety and protection for the equipment and more importantly, the operator.

Part No.	No. & Angle Rear Jets
50730-00-S	Pressure Relief Valve 110 / 4,000 PSI (A)
50023-00-T	Pressure Relief Valve 53 / 2,500 PSI (B)
24718-00-X	Pressure Relief Valve 20 / 4,000 PSI (C)

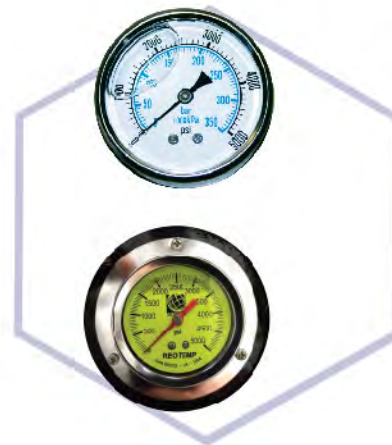


## PRESSURE GAUGE

PANEL & BOTTOM MOUNT WATER PRESSURE GAUGE

Glycerin - filled pressure gauge, help minimize shock to the gauge. Available with panel mount or bottom mount with 1/4" pipe thread.

Part No.	Description
20035-00-T	Hi Vis Panel Mount Water Pressure Gauge with flange - 0 - 5000 PSI
20035-01-T	Panel Mount Water Pressure Gauge without flange - 0 - 5000 PSI
21700-00-X	Bottom Mount Water Pressure Gauge - 0 - 5000 PSI (not shown)



## REEL SWIVEL

### FOR WATER JETTING

**Heavy Duty Carbon Steel Rotary Coupling.** This 90° rotary coupling is available for both Truck and Trailer Jet applications. It is self lubricating as well as easy and inexpensive to install. Equipped with chrome ball bearings and a Teflon back up ring.

**Cast Steel Rotary Coupling.** This Rotary Coupling is equipped with adjustable packing, Zerk fitting and hard chromed ball bearings. Furnished as original equipment on many jet applications. Available for straight and 90° applications.



Part No.	Size	Description
----------	------	-------------

51659-00-TX	1"	Reel Swivel - 90° A
51663-00-T	3/4"	Reel Swivel - 90° A
50519-00-J	1"	Reel Swivel - 90° B
51664-00-T	3/4"	Reel Swivel - 90° B
50518-00-ZX	1 1/4"	Reel Swivel - 90° B
50798-00-F	1"	Reel Swivel - Straight C
51731-00-F	3/4"	Reel Swivel - Straight C
51768-00-T	1/2"	Reel Swivel - 90° FPxFP A
51575-00-T	1/2"	Reel Swivel - 90° MPxFP A

## THROTTLE CABLE

### WIRE END & THREADED END

Heavy duty throttle control with push and adjustable handle.



Part No.	Size	Description
----------	------	-------------

20361-00-RX	10'	Throttle Cable Wire End
40220-00-T	15'	Throttle Cable Threaded End
40797-00-T	15'	Throttle Cable Wire End
20460-00-T	21'4"	Throttle Cable Threaded End
40231-00-T	21'4"	Throttle Cable Wire End
20273-00-T	22'6"	Throttle Cable Threaded End
22242-00-K	35'10"	Throttle Cable Wire End
22620-00-K	35'10"	Throttle Cable Wire End - T Handle
20364-00-K	30'	Throttle Control Wire End

## "Y" STRAINERS

### STEEL STRAINERS & SCREEN

Replacement Parts for Trailer Jets, Snipers and Truck Jets. Strainers are located between the water pump and tank. The screen filters and prevents foreign material from entering the pump. This results in a cleaner supply of water for maximum pump protection.

Part No.	Size	Description
50523-00-K	2"	Steel "Y" Strainer with Screen
50524-00-TX	2-1/4" x 5-1/4"	Replacement Screen for 50523-00-K
50024-00-X	1-1/2"	Steel "Y" Strainer with Screen
50835-00-T	1-3/4" x 4-1/4"	Replacement Screen for 50024-00-X
52159-00-X	3"	Steel "Y" Strainer with Screen
52160-00-X	4-1/8" x 7-1/2"	Replacement Screen for 52159-00-X
24521-00-X	3"	Cap Gasket (EDAM)
26169-00-X	3"	End Gasket for Strainer Screen (Need 2 per screen)



## "Y" STRAINERS

### PLASTIC STRAINERS & SCREEN

Replacement Parts for Trailer Jets and Snipers. Strainers are located between the water pump and tank. The screen filters and prevents foreign material from entering the pump. This results in a cleaner supply of water for maximum pump protection.

Part No.	Size	Description
50743-00-TX	2"	Plastic "Y" Strainer with Screen
50667-00-T	2-1/2" x 7"	Replacement Screen for 50743-00-TX
52275-00-S	2-1/8" x 7-7/8"	Replacement Screen for 2" Gray Plastic "Y" Strainer
51838-00-K	3"	Plastic "Y" Strainer with Screen
51975-00-K	4-1/4" x 9-5/8"	Replacement Screen for 51838-00-K



## "T" STRAINERS

### PLASTIC STRAINERS & SCREEN

Replacement Parts for Trailer Jets, Snipers and Vacuum Machines. Strainers are located between the water pump and tank. The screen filters and prevents foreign material from entering the pump. This results in a cleaner supply of water for maximum pump protection.

Part No.	Size	Description
51240-00-X	1-1/4"	Plastic "T" Strainer with Screen

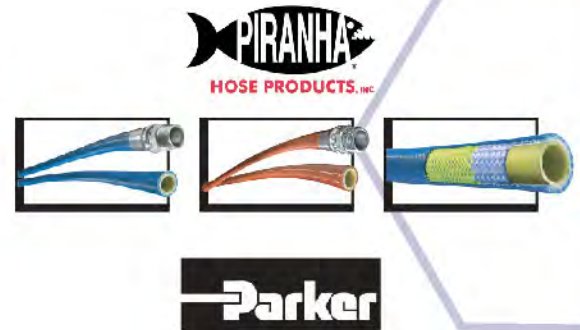


## SEWER HOSE

PARKER AND PIRANHA

The **Parker** sewer cleaning hose system has been the choice of the industry for many years. Predator® hose maintains its reputation by delivering the highest level of quality and rugged performance in the industry.

**Piranha**® hose is constructed from materials selected to provide rugged and reliable service under even the most severe and demanding conditions found in high pressure sewer cleaning. Every Piranha sewer cleaning hose is constructed with a polyline tube which provides maximum resistance to the hydrolysis commonly associated with other thermoplastic tube materials. Reinforcement with high tensile polyester barrier contributes to an exceptionally low volumetric expansion rate and eliminates loss of strength from moisture absorption. A Polyether-Urethane cover provides exceptional cut, abrasion and fungus resistance. Lastly, all components are bonded together to maximize retention and wear resistance, and to provide smaller minimum bend radii.



Part No.

Description

CALL FOR PART No. 3/8" hose size and up 2000 PSI and up

## WASHDOWN GUN

WITH OR WITHOUT HOSE

The multi-purpose "Wash Down Gun" is designed to clean manholes and maintain equipment, and is effective for general spraying. Maximum gun capacity 4,000 PSI.

Part No.

Description

50465-00-F	Wash Down Gun
50541-00-EX	Wash Down Gun w/ 25' of 1/2" hose
50877-00-Z	Replacement Nozzle, 1/4"
55655-00-X	Variable Flow Wash Down Gun
55656-00-X	Variable Flow Wash Down Gun w/ 50' Hose



## DUMP GUN

HEAVY DUTY HIGH EFFICIENCY

This multi-purpose hand gun system is designed to high-pressure clean and remove material from buildings, vehicles, equipment, pavement and other general cleaning purposes. Supplied with a solid stream or fan type nozzle. Maximum gun capacity 4000 PSI.

Part No.

Description

54398-00-F	High Efficiency Heavy Duty Dump Gun
54400-00-F	Replacement Nozzle, 1/4"



## LATERAL LINE KIT

### WITH FOOT CONTROL VALVE

Designed to make turns and bends in smaller lines where 1" and 3/4" hose may not work. Kit consists of 1/2" or 3/8" nozzles, foot control valve, one 50-foot jet hose and one 100-foot jet hose. Optional: hose reel and/or cart.

Part No.	Description
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90378-00-F	Lateral Line Kit, 1/2"
50863-26-F	15° 1/2" Nozzle with 5 Rear and 1 Forward Jet
52361-26-F	30° 1/2" Nozzle with 6 Rear and 0 Forward Jet
90378-01-F	Lateral Line Kit, 3/8"
50980-00-F	20° 3/8" Nozzle with 4 Rear and 0 Forward Jet
50982-00-F	20° 3/8" Nozzle with 6 Rear and 0 Forward Jet

## LATERAL LINE KIT

### WITH HOSE REEL, CART & BALL VALVE

Lateral Line Cleaning Kit with Hose Reel, Cart and Ball Valve  
This kit is designed to work with a trailer or truck jet when cleaning smaller lines (2" to 4" pipe) and lines which have difficult turns and bends. One – man operation, easy to maneuver. Equipped with hose reel assembly (1/2" x 150' jet hose, 1/2" reel swivel and hose reel with hand crank handle), cart, cleaning nozzle and an on/off ball valve.

Part No.	Description
----------	-------------

90765-00-F	Lateral Line Cleaning Kit with Hose Reel Cart and Ball Valve
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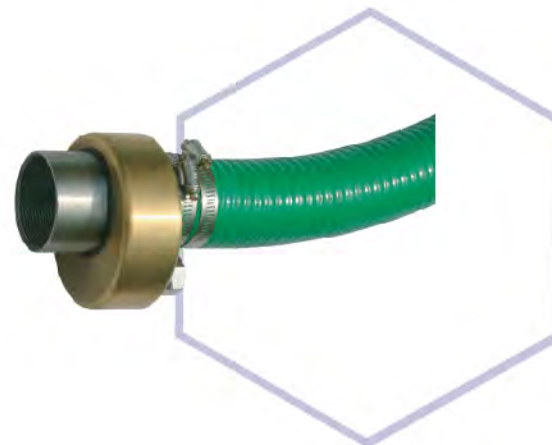
## VENTURI JET PUMP

### FOR JETTING HOSE

Attach jet hose to the pump outlet and fasten 1-1/2" plastic hose to the discharge side of the pump. Turn jet on and pump up to 60 GPM from one manhole to another. Can be utilized in many pumping applications. Includes 20 feet of discharge hose.

Part No.	Hose Size	Description
----------	-----------	-------------

40790-00-F	1"	Venturi Pump
40791-00-F	3/4"	Venturi Pump
40617-00-F	1/2"	Venturi Pump



## EASEMENT ROLLER FOR JETTING HOSE

Easement Rollers should be used when operating jet machines at a long distance from the manhole and hose drag becomes a problem. By setting Easement Rollers at 15 foot intervals, hose drag is eliminated.



Part No.	Hose Size	Weight	Width	Length
----------	-----------	--------	-------	--------

20575-00-Z	1", 3/4", 1/2"	20 lbs.	14"	5"
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## MULTIROLLER FOR JETTING HOSE

A steel reinforced roller frame with heavy duty plastic rollers that will provide the best feed control when the hose is pulled out of the pipe. Excellent tool in tough pulls or when pulling TV camera with Jet hose. May be used with any size jet hose.



Part No.	Hose Size	Weight	Width	Length
----------	-----------	--------	-------	--------

90002-00-F	1", 3/4", 1/2"	17 lbs.	6"	23"
91094-00-F	12' of Guide Pipe and Street Brace			
20387-00-Z	Replacement Roller - 3-1/2" ID			

## HOSE LEVEL WIND WITH COUNTER

The Hose Level Wind Assembly with Counter replaces old fashioned machine mounted steel hose guides. The Level Wind allows the operator to easily control the hose on and off the reel. Standard footage location meter (counter) provides location of nozzle in the sewer pipe at all times. The Level Wind Assembly is adaptable to all sewer cleaners.



Part No.	Description
----------	-------------

90413-00-F	Hose Level Wind Assembly with Counter
20037-01-T	Footage Counter ONLY

\*Please provide unit serial number when ordering.

## TIGER TAIL

### HOSE GUIDE

Constructed of sturdy polyethylene, the tiger tail protects the sewer jet hose as it enters the pipe from the manhole and prevents the hose from tearing. Easy and effective to use if the jet hose does not enter the pipe in excess of 60°. The BB Hose Guide assembly includes 25 feet of nylon rope and a metal hasp.



Part No.	Hose Size	Weight	Diameter	Length
----------	-----------	--------	----------	--------

51727-00-F	1/2"	4 lbs.	2"	39"
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51596-00-F	1" or 3/4"	7 lbs.	3"	39"
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54917-00-F	1 1/4"	9 lbs.	4"	39"
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## UPSTREAM PULLEY GUIDE

### TOP MANHOLE ROLLER

Allows the user to operate the jetting machine from a remote location when set up directly over the manhole is not possible. May be used with any size jet hose. A must for use with rotating reel jetting machines.



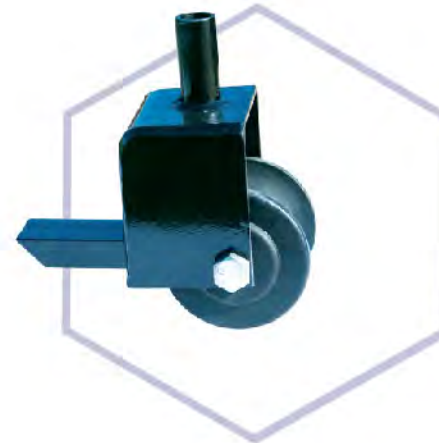
Part No.	Hose Size	Weight	Width	Length
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71425-01-Z	1", 3/4", 1/2"	20 lbs.	7-1/2"	36"
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## HOSE ROLLER GUIDE

### FOR JETTING HOSE

An excellent tool when working in those small inverts and tough set ups. Tongue sets in the pipe to add stability to the roller assembly. May be used with any size jet hose.



Part No.	Description
----------	-------------

91094-00-F	12' of Guide Pipe and Street Brace
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71417-00-Z	Hose Roller Guide (1/2", 3/4", 1")
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## DEBRIS STOPPER

### FOR WATER JETTING

The Debris Stopper keeps operators safely out of the manhole and often eliminates the need for expensive vacuum machines. Solid backing catches debris and perforated holes allow water to exit the manhole and flow the down pipe. While a horizontal bar keeps the stopper in manhole. Insert the Debris Stopper in the manhole by using a ¾" pipe (3 – 4ft. Sections) and rope. Jet the line until the Debris Stopper is full, lift it to the top of the manhole and dump it into a steel drum or similar container. Cleans lines 6" to 10" in diameter.



Part No.	Description
----------	-------------

91241-00-F	Debris Stopper for 6" to 10" Pipe
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## SAND TRAP

### FOR WATER JETTING

Insert a Sand Trap on the stream side of the manhole and the user will be able to remove the debris rather than have the debris flow into the next section of sewer pipe. Sand Traps are made from heavy duty sheet metal.



Part No.	Size	Description
----------	------	-------------

70814-00-Z	6"	Sand Trap
71528-00-Z	8"	Sand Trap
71529-00-Z	10"	Sand Trap
71530-00-Z	12"	Sand Trap
71531-00-Z	15"	Sand Trap
71532-00-Z	18"	Sand Trap

## SMART COUNTER

### DIGITAL COUNTER

With digital display. It is not only extremely accurate, but also exceptionally sophisticated.

Part No.	Description
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24333-00-X	Smart Counter
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## FILL HOSE

FOR WATER JETTING 25' & 50'

Available in 25 or 50 foot lengths with a polyester design. Keep in mind that a leaky fill hose should be replaced immediately. 2 1/2" hose hydrant fitting.

Part No.	Description
----------	-------------

70559-00-F	25' Fill Hose
70560-00-F	50' Fill Hose



## LEADER HOSE

HIGH PRESSURE

Leader hoses are more flexible than jet hose and will help the operator start the jet hose down the sewer pipe. The PSI rating of the high pressure Leader Hose must not exceed that of the attached Jet Hose. This is an important safety procedure that must be followed. The Leader Hose should be a minimum of 25 feet. The use of a rubber high pressure Leader Hose will allow the operator to direct the nozzle quickly up the sewer invert. It will also enable the operator to visually see when the leader hose is entering the manhole, and allows the operator to turn the pressure handle off and eliminate a live nozzle coming into the manhole. Male and Female fittings are standard.

Part No.	Size	PSI	Description
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52726-00-F	1"	3000	5' Leader Hose with Fittings
52663-00-F	1"	3000	10' Leader Hose with Fittings
52728-00-F	1"	3000	15' Leader Hose with Fittings
52729-00-F	1"	3000	20' Leader Hose with Fittings
52105-00-F	1"	3000	25' Leader Hose with Fittings
50712-00-F	3/4"	3000	5' Leader Hose with Fittings
50714-30-F	3/4"	3000	10' Leader Hose with Fittings
50716-30-F	3/4"	3000	15' Leader Hose with Fittings
50717-30-F	3/4"	3000	20' Leader Hose with Fittings
50718-00-F	3/4"	3000	25' Leader Hose with Fittings
51681-00-F	1/2"	4000	5' Leader Hose with Fittings
55480-00-F	1/2"	4000	10' Leader Hose with Fittings
51510-00-F	1/2"	4000	15' Leader Hose with Fittings
50967-00-F	1/2"	4000	20' Leader Hose with Fittings
50050-00-F	1/2"	4000	25' Leader Hose with Fittings



## HANDI CLAM

### LONG HANDLE TOOL

Available in 4' to 18' lengths. Shovel end of clam is opens and closes from the top with a spring loaded handle. Designed for removing sand, gravel and miscellaneous sewer debris.



Part No.	Size	Description
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91101-00-F	6'	Handi Clam
91102-00-F	8'	Handi Clam
91103-00-F	10'	Handi Clam
91104-00-F	12'	Handi Clam
91105-00-F	15'	Handi Clam
91106-00-F	16'	Handi Clam
91107-00-F	18'	Handi Clam

## THE GRABBER

### LONG HANDLE TOOL

The Grabber was designed for an operator to eliminate usage entry. It removes bricks, twigs, bottles, pencil size roots and personal items. Installs cameras, sewer plugs and root cutters. Very versatile. 6' to 12' or 8' to 16' telescoping fiberglass, reinforced handle.



Part No.	Size	Description
----------	------	-------------

90356-00-F	6'-12'	The Grabber
91108-00-F	8'-16'	The Grabber

## CATCH BASIN SPOON

### WITH WOODEN HANDLE

Useful accessory for hand cleaning basins. The Catch Basin Spoon removes bricks, cans, bottles and other debris. Wooden handle with steel shovel at the working end.



Part No.	Size	Description
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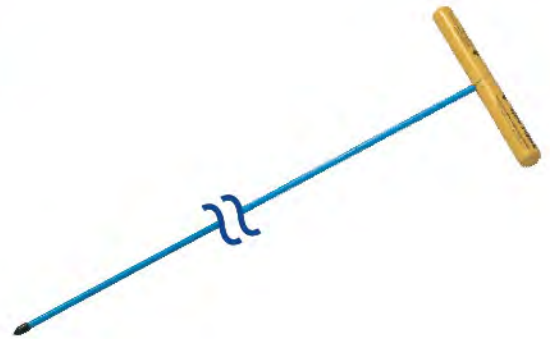
91109-00-F	8'	Catch Basin Spoon
91110-00-F	10'	Catch Basin Spoon
91111-00-F	12'	Catch Basin Spoon

## PROBING RODS

### LONG HANDLE TOOL

Spring steel shaft. Hardened stainless steel tip used by utility companies throughout the world for finding buried pipe.

Part No.	Size	Description
50801-00-F	4'	Probing Rod
50803-00-F	6'	Probing Rod
50800-00-F	2.5'	Extensions
50837-00-F	N/A	Tile Probe Tip

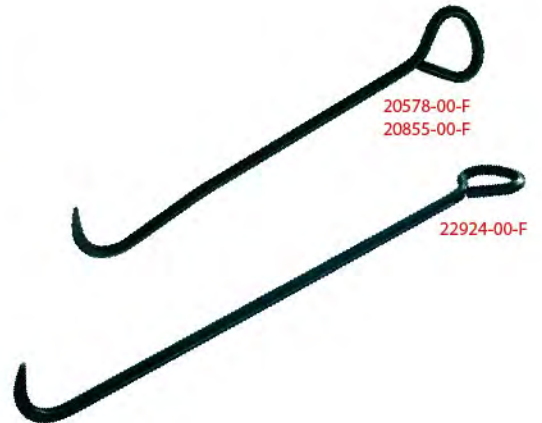


## MANHOLE HOOK

### 24" AND 36"

Heavy duty Manhole Hook. High carbon heat treated steel. Available in 24" and 36" lengths.

Part No.	Size	Description
20578-00-F	24"	Manhole Hook
20855-00-F	36"	Manhole Hook
22924-00-F	36"	Manhole Hook, 90 degree



## HYDRANT WRENCH

### CAST STEEL BODY

Combination Hydrant and Spanner Wrench. Cast steel body with heavy duty handle.

Part No.	Size	Description
20576-00-F	N/A	Hydrant Wrench



## MANHOLE COVER

### CUSHIONS FOR MANHOLE

Oil impregnated temp cushions come in 84" lengths. Place this material around the inside of the manhole rim to stop loose or noisy manhole covers from vibrating.

Part No.	Description
20577-00-F	Manhole Cover Cushions



## SEWER DYE

### TABLETS AND POWDER

Powdered Sewer Dye should be used when tracing sewer lines over 200' in length. Mix powder dye with water in a jet container and squirt the desired amount in the sewer line. Drop tablet in sewer pipe and the dye will trace the water path. Available in three colors.



Part No.	Size	Description
----------	------	-------------

90256-00-F	100 Tablets	Fluorescent Yellow/Green
90355-00-F	100 Tablets	Fluorescent Red
90257-00-F	100 Tablets	Fluorescent Blue
90414-00-F	1 lb.	Fluorescent Yellow/Green
90410-00-F	1 lb.	Fluorescent Red
90975-00-F	1 lb.	Fluorescent Blue

## SMOKE BOMBS

### SINGLE AND DOUBLE WICK

The most economical way to trace sewer lines. White smoke is not harmful and will leave no residue. Three minute smoke bombs can be tied together for testing long sections of sewer pipe.



Part No.	Size	Description
----------	------	-------------

90255-00-F	1-3/8" Dia x 6" long	Single Wick Smoke Bomb
90403-00-F	1-3/8" Dia x 12" long	Double Wick Smoke Bomb

## MUNI-BALL® PLUGS

### CHERNE SINGLE & MULTI SIZE (BY-PASS)

Part No.	Description
----------	-------------

50998-00-F	8" Cherne Single Size Muni-Ball Plug (By-Pass)
50999-00-F	10" Cherne Single Size Muni-Ball Plug (By-Pass)
51000-00-F	12" Cherne Single Size Muni-Ball Plug (By-Pass)

Plugs without By-Pass are available upon request.

Part No.	Description
----------	-------------

52738-00-F	4"-6" Cherne Multi Size Muni-Ball Plug (By-Pass)
52739-00-F	6"-8" Cherne Multi Size Muni-Ball Plug (By-Pass)
52740-00-F	8"-10" Cherne Multi Size Muni-Ball Plug (By-Pass)
52741-00-F	10"-12" Cherne Multi Size Muni-Ball Plug (By-Pass)
52742-00-F	12"-18" Cherne Multi Size Muni-Ball Plug (By-Pass)



## REMO® PLUGS

CHERNE REMOTE PLACEMENT PLUGS

Part No.	Description
90197-00-F	6"-10" Cherne Remo Remote Placement Plug
90198-00-F	8"-12" Cherne Remo Remote Placement Plug
90199-00-F	12"-18" Cherne Remo Remote Placement Plug
91344-00-F	Remo Pole 6' Length
91215-00-F	Remo Pole Adapter (1-1/4" Male NPT)



## GRIPPER® PLUGS

CHERNE T-HANDLE ALUMINUM PLUGS (BY-PASS)

Part No.	Description
51030-00-F	6" T-Handle Aluminum Gripper Plug (By-Pass)
51031-00-F	8" T-Handle Aluminum Gripper Plug (By-Pass)
51032-00-F	10" T-Handle Aluminum Gripper Plug (By-Pass)
51033-00-F	12" T-Handle Aluminum Gripper Plug (By-Pass)
51034-00-F	15" T-Handle Aluminum Gripper Plug (By-Pass)
51035-00-F	18" T-Handle Aluminum Gripper Plug (By-Pass)



## POLY-LIFT LINE

CHERNE INFLATION HOSES

Part No.	Description
20645-01-F	20' Poly-Lift Line / Inflation Hose with Gauge
22109-00-F	30' Poly-Lift Line / Inflation Hose with Gauge
20645-00-F	20' Poly-Lift Line / Inflation Hose without Gauge
22965-00-F	30' Poly-Lift Line / Inflation Hose without Gauge



## INFLATABLE PLUG

LOGIBALL FLOW THRU PIPE PLUG

Part No.	Description
51005-00-F	3" - 6" LB Inflatable Pipe Plug
51006-00-F	4" - 8" LB Inflatable Pipe Plug
51007-00-F	5" - 10" LB Inflatable Pipe Plug
51008-00-F	7" - 12" LB Inflatable Pipe Plug
51009-00-F	11" - 21" LB Inflatable Pipe Plug
51010-00-F	19" - 36" LB Inflatable Pipe Plug



## MUNI-BALL® PLUGS

CHERNE I-SERIES™ PLUGS (BY-PASS)

Part No.	Description
52743-00-F	4"-8" Multi Size I-Series Muni-Ball Plug (By-Pass)
52744-00-F	8"-16" Cherne Multi Size Muni-Ball Plug (By-Pass)
52745-00-F	12"-24" Cherne Multi Size Muni-Ball Plug (By-Pass)



## TEST-BALL® PLUGS

CHERNE PILLOW STYLE LARGE SINGLE SIZE PLUGS

Part No.	Description
51055-00-F	24" Large Single Size Test-Ball Plug
51056-00-F	30" Large Single Size Test-Ball Plug
51057-00-F	36" Large Single Size Test-Ball Plug
51196-00-F	42" Large Single Size Test-Ball Plug
52754-00-F	60" Large Single Size Test-Ball Plug

Custom sizes available upon request.



## FLUSHER BAGS

HYDRAULIC FLUSHER BAGS

Part No.	Description
50983-00-F	4" Hydraulic Flusher Bag
50984-00-F	6" Hydraulic Flusher Bag
50985-00-F	8" Hydraulic Flusher Bag
50986-00-F	10" Hydraulic Flusher Bag
50987-00-F	12" Hydraulic Flusher Bag

Other sizes available upon request.

## JET-BALL® PLUGS

CHERNE MULTI SIZE CLEANING BALLS

Part No.	Description
52755-00-F	6"-10" Multi Size Jet-Ball Cleaning Ball
52756-00-F	10"-14" Multi Size Jet-Ball Cleaning Ball
52757-00-F	15"-18" Multi Size Jet-Ball Cleaning Ball



## BIG MOUTH® PLUGS

CHERNE "ORIGINAL" BIG MOUTH PLUGS (BY-PASS)

Part No. Description

52746-00-F	8"-10" Cherne Big Mouth Plug (By-Pass)
52747-00-F	10"-12" Cherne Big Mouth Plug (By-Pass)
52748-00-F	12"-15" Cherne Big Mouth Plug (By-Pass)

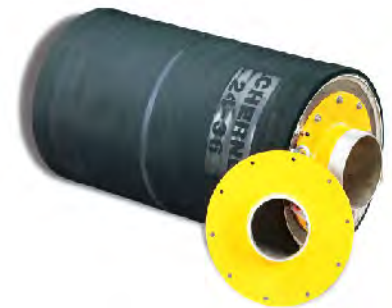


## BIG MOUTH® PLUGS

CHERNE MULTI SIZE PLUGS (BY-PASS)

Part No. Description

52749-00-F	8"-12" Cherne Big Mouth Plug with 4" NPT (By-Pass)
52750-00-F	12"-18" Cherne Big Mouth Plug with 4" NPT (By-Pass)
52751-00-F	18"-24" Cherne Big Mouth Plug with 6" NPT (By-Pass)
52752-00-F	24"-36" Cherne Big Mouth Plug with 8" NPT (By-Pass)



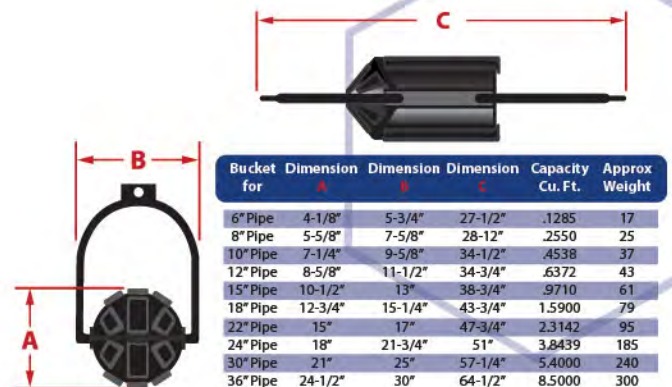
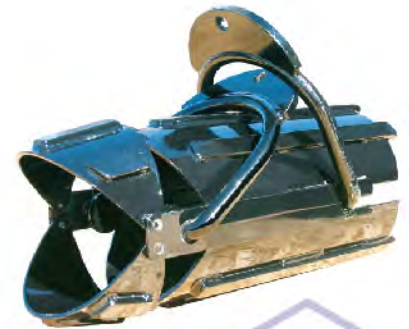
## HEAVY DUTY BUCKET

FOR BUCKET MACHINES

Sewer buckets are the most effective mechanical tools used for removing large amounts of gravel, rock, grease, roots, sand, sludge and other debris from all size of pipe. Buckets are made of heavy duty steel construction component parts.

Part No. Size Description

71511-00-B	6"	Heavy Duty Bucket
70083-00-B	8"	Heavy Duty Bucket
72977-00-F	10"	Heavy Duty Bucket
72978-00-F	12"	Heavy Duty Bucket
72979-00-F	15"	Heavy Duty Bucket
72980-00-F	18"	Heavy Duty Bucket
72981-00-F	22"	Heavy Duty Bucket
76633-00-B	24"	Heavy Duty Bucket
76634-00-B	30"	Heavy Duty Bucket
76635-00-B	36"	Heavy Duty Bucket





## CRANK HANDLE

### FOR BUCKET MACHINES

For on mechanical bucket machines only. Allows operator to rotate main cable drum manually. Useful for lowering roller assemblies into deep manholes.



Part No.

Description

71103-00-B

Emergency Crank Handle

## CABLE LEVEL WINDER

### FOR OVERNIGHT USE

This assembly permits the operator to wind the overnight cable onto the drum evenly.



Part No.

Description

72615-00-B

Overnight Cable Level Winder

## LIFT LEG HANDLE

### ADJUSTABLE

For use on the rack and pinion mechanism on mechanical bucket machines.



Part No.

Description

70409-00-B

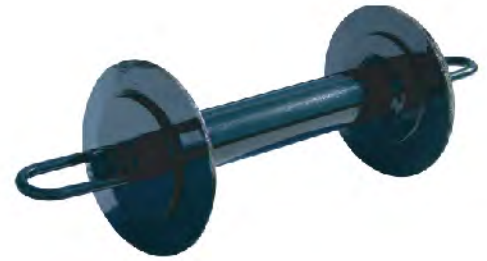
Adjustable Lift Leg Handle

## DOUBLE SQUEEGEE

### FOR BUCKET MACHINES

Designed to be used as a finishing tool. Most effective in soapy lines with large deposits of grease and detergent.

Part No.	Size	Description
72109-00-Z	6"	Double Squeegee
72107-00-Z	8"	Double Squeegee
72110-00-Z	10"	Double Squeegee
72108-00-Z	12"	Double Squeegee
72111-00-Z	14"	Double Squeegee
72112-00-Z	15"	Double Squeegee
72113-00-Z	16"	Double Squeegee
72114-00-Z	18"	Double Squeegee
72115-00-Z	21"	Double Squeegee
72116-00-Z	24"	Double Squeegee



## DOUBLE SQUEEGEE

### WITH SWIVEL FOR BUCKET MACHINES

Finishing tool to be used in lines with curves or turns.

Part No.	Size	Description
72203-00-Z	6"	Double Squeegee with Swivel
72204-00-Z	8"	Double Squeegee with Swivel
72205-00-Z	10"	Double Squeegee with Swivel
72206-00-Z	12"	Double Squeegee with Swivel
72207-00-Z	15"	Double Squeegee with Swivel
72208-00-Z	16"	Double Squeegee with Swivel
72209-00-Z	18"	Double Squeegee with Swivel
72210-00-Z	20"	Double Squeegee with Swivel
72211-00-Z	24"	Double Squeegee with Swivel
72212-00-Z	30"	Double Squeegee with Swivel
72213-00-Z	36"	Double Squeegee with Swivel

## SWIVEL TOOL

### BALL BEARING STYLE

The best tool for retrieving Bucket Machine cable. The enclosed bearing assembly gives unequalled pulling power and eliminates twisting of cable.

Part No.	Size	Description
70824-06-Z	5/16"	With Adapter Rod
70824-09-Z	3/8"	With Adapter Rod
70824-11-Z	.375	With Set Screw Coupling



## TRIPLE SQUEEGEE FOR BUCKET MACHINES

Each Triple Squeegee segment has holes drilled into the assembly to allow water to pass through and aid in the removal of grease and sludge deposits.



Part No.	Size	Description
----------	------	-------------

72121-00-Z	6"	Triple Squeegee
72122-00-Z	8"	Triple Squeegee
72123-00-Z	10"	Triple Squeegee
72124-00-Z	12"	Triple Squeegee
72125-00-Z	14"	Triple Squeegee
72126-00-Z	15"	Triple Squeegee
72127-00-Z	16"	Triple Squeegee
72128-00-Z	18"	Triple Squeegee
72129-00-Z	21"	Triple Squeegee
72130-00-Z	24"	Triple Squeegee

## SLANT JACK ADJUSTABLE FOR BUCKET MACHINES

To be used at the pull-in manhole, in lieu of a surface hung manhole roller assembly. The jack should be positioned at an angle so the cable will roll around the roller and not come in contact with the manhole ring. Be sure assembly is locked securely in place and may require chipping out a section of the manhole so it does not slide out of position.



Part No.	Description
----------	-------------

80095-00-F	Adjustable Slant Jack
------------	-----------------------

## SLANT JACK HEAVY DUTY WITH ROLLER FOR BUCKET MACHINES

A double supported roller assembly when put in the manhole, will allow the user to apply greater pulls on a bucket. This jack is adjustable for various manhole lengths.



Part No.	Description
----------	-------------

80210-00-F	Heavy Duty Slant Jack
------------	-----------------------

## BUCKET LEADER

### FOR BUCKET MACHINES

A Bucket Leader guides the bucket around the manhole roller, as well as, the roller on the Truck Loader.

Part No.	Size	Description
----------	------	-------------

71440-00-Z	For Buckets 6" - 22"	Bucket Leader
71441-00-Z	For Buckets 24" and larger	Bucket Leader



## SWIVEL WITH EYE

### BALL BEARING CABLE SWIVEL WITH EYE & SHACKLE

The swivel should be used when any bucket is being pulled through the sewer pipe. The swivel will allow the bucket to position itself properly before it comes around the surface hung manhole roller, and will also aid the dumping mechanism when truck loaders are used.

#### DOUBLE EYE SWIVEL

The enclosed ball bearing allows this cable swivel to be used easily with shackles. Cast steel constructions. (Not illustrated)

Part No.	Description
----------	-------------

21416-00-Z	Ball Bearing Swivel with Eye and Shackle
21417-00-Z	Ball Bearing Swivel with Double Eye



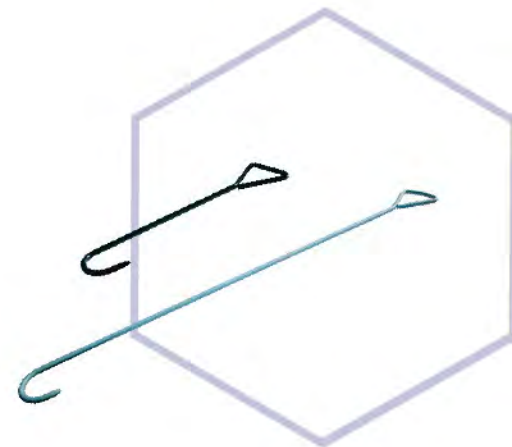
## HAND HOOKS

### FOR BUCKET MACHINES

Do not want to come in contact with buckets? Keep hands off and utilize the hand hooks.

Part No.	Size	Description
----------	------	-------------

71428-00-F	For Buckets 6"-22"	Short hand Hook
71429-00-F	For Buckets 24" and larger	Large Hand Hook



## ROLLER JACK

### MANHOLE ASSEMBLY

On rare occasions, it is not possible to utilize any surface hung manhole roller assemblies. For those times, use a roller in conjunction with the trench jacks. (As illustrated)

Part No.	Size	Description
72221-00-Z	8"	Roller with Jack
72222-00-Z	12"	Roller with Jack
72223-00-Z	15"	Roller with Jack
72224-00-Z	15"	Roller with Jack (Wide Flange)



## DROP YOKE SUPPORT FRAME

### MANHOLE SUPPORT

A large diameter sewer will not support the standard surface hung manhole roller, as the pins on the roller assembly will not support the roller properly. The Drop Yoke assembly is supported against the manhole wall with heavy duty channel iron, resulting in a more sturdy setup.

Part No.	Size	Description
71875-00-Z	8'	Frame
71307-00-Z	12"	Frame
71880-00-Z	15"	Frame
72233-00-Z	15"	Frame with Wide Flange

\*Part pictured in white



## ANCHOR SHACKLE

### FOR BUCKET MACHINES

Anchor Shackles are used for attaching swivels and buckets to wire rope.

Part No.	Size	Description
22111-00-X	1/2"	Anchor Shackle, Screw, Pin
20989-00-X	3/8"	Anchor Shackle, Screw, Pin

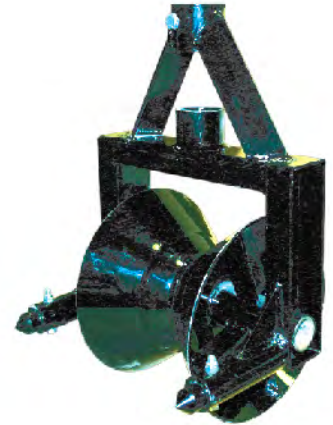


## MANHOLE ROLLER

### SURFACE HUNG WITH YOKE

Assembly of this roller and yoke allows the operator to stay out of the manhole and provide proper adjustment of this assembly, so the bucket may travel easily around the roller into the sewer line to be cleaned.

Part No.	Size	Description
71520-00-Z	8"	Accommodates 6" - 8" Buckets
71521-00-Z	12"	Accommodates 6" - 15" Buckets
71522-00-Z	15"	Accommodates 6" - 22" Buckets
71523-00-Z	15"	Accommodates 6" - 36" Buckets with Wide Flange
71520-01-Z	8"	Heavy Duty Accommodates 6" - 8" Buckets
71521-01-Z	12"	Heavy Duty Accommodates 6" - 15" Buckets
71522-01-Z	15"	Heavy Duty Accommodates 6" - 22" Buckets
76148-00-Z	15"	Heavy Duty Accommodates 6" - 36" Buckets with Wide Flange



## PLATFORM

### SURFACE HUNG PLATFORM

Mounted at the top side and held in position by the adjustable legs of the bucket machine, this assembly supports the guide pipe and surface of the manhole roller in the manhole.

Part No.	Description
90000-00-Z	Surface Hung Platform with Chain Vise

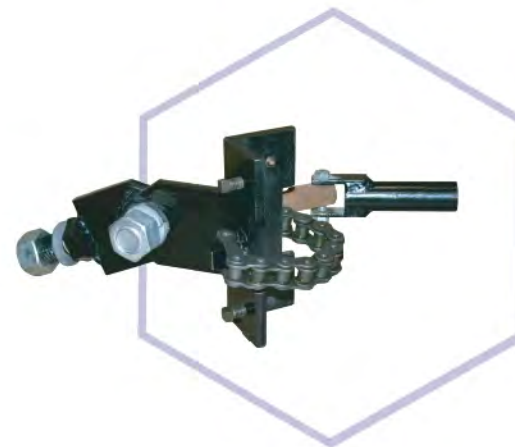


## CHAIN VISE

### FOR BUCKET MACHINES

This assembly holds the 2" guide pipe position.

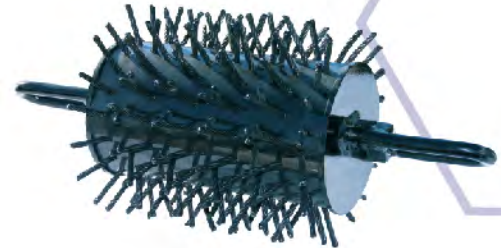
Part No.	Description
90974-00-F	Chain Vise Complete for Platform Assembly



## PORCUPINE

### PULL TYPE FOR BUCKET MACHINES

Porcupines are designed to be used as a finishing tool after a bucket has removed most of the debris from the sewer pipe. The bristles are made of steel wire. Using a swivel in conjunction with a Porcupine will more effectively scrub and also rotate resulting in a cleaner sewer line.



Part No.	Size	Description
----------	------	-------------

90465-00-F	4"	Pull Type Porcupine
90466-00-F	6"	Pull Type Porcupine
90467-00-F	8"	Pull Type Porcupine
90468-00-F	10"	Pull Type Porcupine
90469-00-F	12"	Pull Type Porcupine
90470-00-F	15"	Pull Type Porcupine
90471-00-F	18"	Pull Type Porcupine
90472-00-F	20"	Pull Type Porcupine
90473-00-F	22"	Pull Type Porcupine
90474-00-F	24"	Pull Type Porcupine
90475-00-F	28"	Pull Type Porcupine
90476-00-F	30"	Pull Type Porcupine
90477-00-F	36"	Pull Type Porcupine

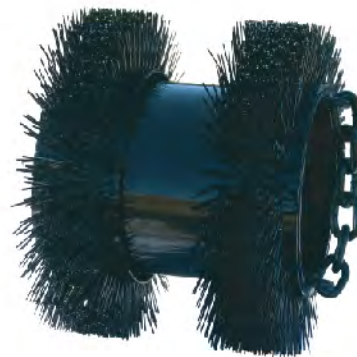
## "RB" TYPE BRUSHES

### HEAVY DUTY FOR BUCKET MACHINES

Best finishing tool for removing roots and tough deposits. The steel brushes are easily replaceable and will out perform Porcupines. Smaller brushes of this type are also utilized in duct rodding.

Part No.	Size	Description
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72830-00-F	3"	Pull Type Brushes
72831-00-F	3 1/2"	Pull Type Brushes
72832-00-F	4"	Pull Type Brushes
72833-00-F	5"	Pull Type Brushes
72835-00-F	6"	Pull Type Brushes
72836-00-F	8"	Pull Type Brushes
72837-00-F	10"	Pull Type Brushes
72838-00-F	12"	Pull Type Brushes
72839-00-F	15"	Pull Type Brushes
72840-00-F	18"	Pull Type Brushes





## AARCOMM AFTERMARKET KIT

THE MOST RELIABLE AND RUGGED RADIO REMOTE CONTROL SOLUTION

## TRIDENT REMOTE AFTERMARKET KIT

The Trident remote controls provide machine operators with proven reliability and superior performance to get the job done - no matter what the conditions.

The Aarcomm Aftermarket Kit gets you up and running with the top performing radio remote control on the market. You do not have to change existing wiring, making it easy to install within five minutes. Simply remove your existing receiver and plug in the Aarcomm receiver. Just plug and play and get back to work.



Part No.	Description of Part No.
----------	-------------------------

93012-02-X	Hydro Excavator Retrofit Kit (Replaces Omnex System)
62749-05-X	Remote Handheld Transmitter - HX Units
62749-04-X	Remote Handheld Transmitter - 900 Combination Units
62749-07-X	Remote Handheld Transmitter - AX Air Machine
62750-00-X	Remote Receiver Base (All Models)
62751-00-X	Antenna Kit
62752-01-X	Charger Platform (Requires 63141-00-X Cable Kit)
63141-00-X	Cable Kit For Charger
62768-00-X	Adapter Harness (HX)
26126-00-X	Shoulder Strap





## V-GARD® 500 MSA VENTED CAPS

Get renowned protection with these protective caps, which are part of the family of best-selling helmets and accessories in North America. V-Gard® 500 Protective Caps feature a robust design, durable shell construction and cooling vents for increased breathability. A rain trough extends around the brim, making it ideal for hot and/or wet environments.



Part No.	Description
----------	-------------

25502-00-X	V-Gard® 500
------------	-------------

## SHOWA® BEST® GLOVES NEOPRENE® AND NEO GRAB™

Neoprene protects against acids, caustics, oils, greases and many solvents, as well as abrasion and cut hazards. This heavyweight glove features a five-piece flannel liner. Rough finished styles provide an excellent wet grip. Sold per pair. Heavy-Duty Chemical Protection!



Part No.	Description	Finish
----------	-------------	--------

25494-00-X	Neoprene® 12" Gauntlet	Smooth
25494-01-X	Neoprene® 14" Gauntlet	Smooth
25494-02-X	Neoprene® Elbow Length	Smooth
25494-03-X	Neoprene® Shoulder Length	Smooth
25494-04-X	Neo Grab™ 12" Gauntlet	Rough
25494-05-X	Neo Grab™ 14" Gauntlet	Rough
25494-06-X	Neo Grab™ Elbow Length	Rough

OTHER MODELS AVAILABLE AT  
[www.sewershop.com](http://www.sewershop.com)



## WAYPOINT® SPOTLIGHT STREAMLIGHT® PISTOL GRIP

Waypoint® Non-Rechargeable Pistol Grip Spotlight

**Features:**

- LED Solid State Power Regulation provides maximum light output throughout battery life
- IPX4 water-resistant
- 1 Meter impact resistance tested
- Removable lanyard
- Operates using battery or 12V DC power cord
- C4 LED technology, impervious to shock with a 50,000 hour lifetime
- High impact polycarbonate housing
- Polycarbonate lens
- O-ring sealed
- Integrated stand for scene lighting

**Specification:**

Most models meet applicable European Community Directives

**Battery Type**  
C

**Battery Quantity**  
Four batteries NOT Included



Part No.	Description
----------	-------------

62609-00-X	Waypoint® Flashlight, Alkaline Yellow
62609-01-X	Waypoint® Flashlight, Alkaline Black

## TRADITIONAL RENTAL PROGRAM

Straight rental program where daily, weekly and monthly rental rates apply.



## RENT-TO-PURCHASE PROGRAM

Build equity as you make payments utilizing our tiered-equity buyout plan.

## EQUIPMENT LEASING PROGRAM

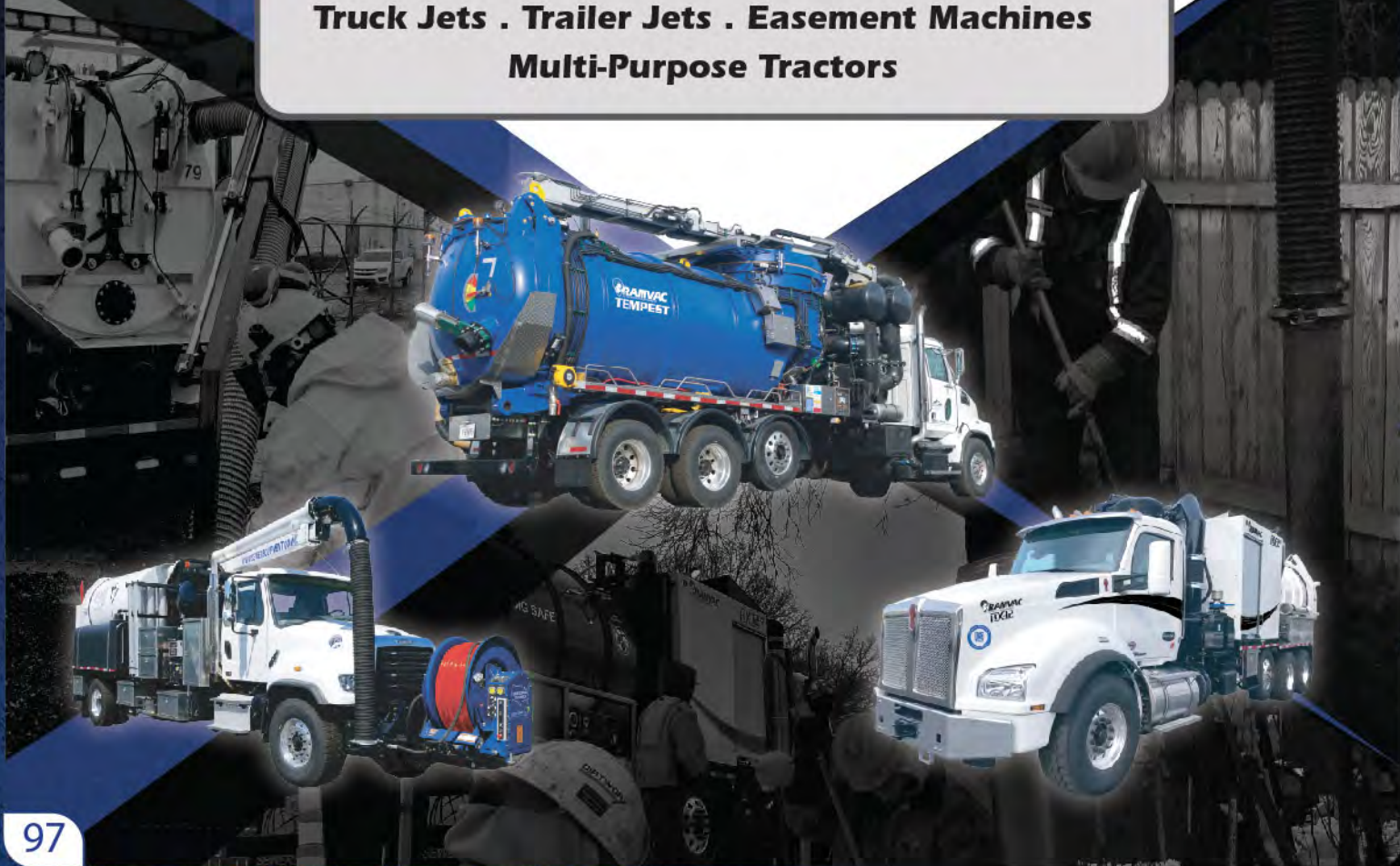
Rock Equipment works with nationally-recognized finance institutions to help you gain access to the financing you require to get you into the equipment you need today.

## FLEET RENEWAL PROGRAM

Lease a new machine for 24 months and our certified mechanics perform quarterly inspections throughout the life of your rental to provide you feedback on suggested maintenance with absolutely no cost to you.

## EQUIPMENT AVAILABLE

**Combination Sewer Cleaners . Hydro Excavators  
Air Excavators . Industrial Vacuum Trucks  
Camera Inspection . Liquid Vac Trucks  
Truck Jets . Trailer Jets . Easement Machines  
Multi-Purpose Tractors**



## WARNING

- Always wear a hard hat and safety glasses when operating high pressure water nozzles.
- All operators must read and fully understand all manuals related to these nozzles and tools and the machines being used to power them “before” use. All warning labels must be read and understood. Failure to heed these warnings may result in an accident causing personal injury or death.
- Always inspect sewer hose before use of high pressure water nozzles and high pressure jetting machines. Be sure to replace the sewer hose with new and fully tested sewer hose if any defects such as: hose movement in fitting; damaged cover exposing internal fabric reinforcement; cover blisters or bubbles; hose kinking or collapse; or fitting cutting into hose.
- If freezing temperatures occur, make sure all nozzles and jetting machines are drained and purged of any water from entire system, including sewer hose. All units, systems, nozzles and tools must be fully thawed out to be certain that no ice is present.
- Never point the nozzle or any high pressure hose or wash down gun towards an individual since it could cause bodily harm.
- Do not operate these nozzles or tools or the machines being used to power them in excess of their rated capacities, speed, pressure ratings or temperature.
- In order to avoid possible property damages and personnel injuries when handling these nozzles and tools, we recommend that the nozzles and tools be exposed to gradual pressure only after they have been set and secured inside the pipe (with a nozzle extension), away from the operator. Sewer Equipment Company of America is not responsible for damage or injury resulting from the improper or unintended use of these nozzles and tools.
- Some type of nozzle extension must be used between the end of the hose and the nozzle. Extensions keep the nozzle in the center of the pipe that is being cleaned and they minimize the possibility of nozzle going up a house service or reversing and exiting a manhole towards the operator.
- Be sure to use hose guides to protect the sewer hose when it is traveling around a bend or corner. Protecting the sewer hose from unnecessary wear will decrease the possibility of a hose burst.
- Never operate a high pressure nozzle or tool from a flooded manhole. Operator must know the nozzle has entered the line properly or personal injury may result when the water flow is turned on.
- Safety must always be the first and most important step when using high pressure nozzles and jetting machines. Follow the “Recommended Practice” of your sewer cleaning associations: ASTM, Water Environment Federation, NSF, ISTT, NASTT, NASSCO or local authority.

### Disclaimer

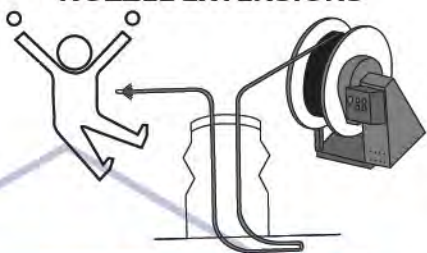
Dimensions, specifications, standard items, and options are subject to change without notice and should be confirmed and verified at transaction. Some product photos and diagrams shown with optional equipment. Please contact Sewer Equipment personnel for most recent detailed information. Effective date 2/1/15 © 2015



## WARNINGS



**ALWAYS USE  
NOZZLE EXTENSIONS**



**HIGH PRESSURE  
NOT FOR HAND HELD USE**



## WARNINGS



# SEWER EQUIPMENT CO. of AMERICA

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