

# VACUUM EXCAVATORS



## Vacmasters

The VACMASTERS SYSTEM 4000 Air-Vacuum Excavation System offers utilities and utility contractors the ability to pothole using supersonic air in any kind of soil, no matter how hard, wet, sun baked or compact...even ground frost. The SYSTEM 4000 is installed on a 25,950 GVW (non-CDL) diesel chassis. All systems, including compressor, vacuum and high pressure water, are powered by a single, enclosed John Deere 155-horsepower diesel engine for quiet, dependable operation. Features include a self-purging filtration system, selectable air or water digging, remote operation up to 200 feet away, fast-acting interceptor canister, fully supervised control panel, enclosed powerhead and low-maintenance design.

The SYSTEM 4000's ability to use air rather than water when potholing means the job gets done faster (just 7-8 minutes in most soils), more efficiently (spoils stay dry for backfilling), more economically (mud hauling and disposal costs are eliminated) and much more safely (air won't damage utilities and is non-conductive). Also, air-vacuum excavation is DOT friendly and won't damage the road base. (800) 466-7825, [vacmasters.com](http://vacmasters.com)



## Vactor

The HXX Prodigy, offspring of the Vactor HXX HydroExcavator, is a machine that uses vacuum excavation methods to perform non-destructive digging. The compact HXX Prodigy is available at a price point the Vactor expects will appeal to municipalities and contractors who are just getting started in vacuum excavation or ready to upgrade from a pull-behind unit to a truck. The Prodigy uses hydro-excavation, blasting away soil with jets of 10 to 20 gallons of water per minute, at rates from 1,500 to 2,500 psi, depending on the pump selection, pressure adjustment and nozzle tip configuration. The variable-pressure triplex pump allows the operator to adjust water pressure with the push of a button. For dry digging, the Prodigy also comes with an optional air excavation system, further adding to its versatility. The unit features an above-deck compressor system that does not need a holding tank to build pressure, eliminating wait time required for pressure to build up. The Prodigy also facilitates digging in frozen ground, with optional 400,000 BTU or 900,000 BTU on-board water heaters. The 600-gallon water tank allows for 3.5 hours of continuous operation between refills. The standard tank is fabricated from strong, lightweight, composite material for lower fuel costs and higher payload limits. (800) 627-3171, [vactor.com](http://vactor.com)

## Vermeer/McLaughlin

The V500 Light and V500 Light Heavy Duty are specifically designed as small, portable, light-weight units capable of potholing and wet/dry remediation. Both utilize the three stage filtration process, have the power of full size units, and use a tandem axle trailer with a GVWR of less than 10,000 pounds. In addition, both units offer dual saddle tanks for fresh water that aid in trailer stability. (888) 837-6337; [vermeer.com](http://vermeer.com)



## Vacstar

The Vacstar line of vacuum excavation equipment is designed to locate underground utilities, excavate work sites, site cleanup, clean out manholes, and many other applications. Vacstar allows hose obstructions to be easily removed, the ability to vacuum at greater horizontal and vertical distances and the option to reclaim vacuumed material. (319) 656-2226, [vacstar.com](http://vacstar.com)



## VacAll Industries

The truck-mounted VacAll AJ machines deliver efficient sewer cleaning velocity for normal everyday maintenance or emergency blockage removal. Water tanks are available in a variety of materials, with capacities ranging from 1,000 to 3,000 gallons. VacAll AJ water pumps range from 65 to 300 gallons per minute at pressures ranging from 2,000 to 3,000 psi. VacAll AJ machines are available in three different drive configurations: P & T Series, or transfer case driven units, require very little maintenance with few moving parts. Highly productive, these machines are remarkably quiet. H Series models are hydrostatically driven via a PTO mounted off the chassis transmission. Not only does this design allow for quiet operation, H Series models offer advantages like additional weight savings. The unit also offers a quieter working environment, due to the single engine design. D Series units are powered by a heavy-duty diesel fueled auxiliary engine. These models are fully shrouded to inhibit noise, assure operation in cold weather and protect against engine and water pump damage. Hose reels are equipped with the VacAll high-torque, direct-drive planetary gearbox and hydro cushion valve. Mounted at either the front or rear of the machine, the reels can be stationary or articulating and have up to 1,000 feet of capacity with 800 feet being the standard. (800) 382-8302; [vacallindustries.com](http://vacallindustries.com)

### Pacific Tek

Vacuum excavation without the wet mess is now more affordable and available in a small package. New combination vacuum, air compressor and water jet mounted on a small trailer or in a pickup truck makes "potholing" either wet or dry practical. Complete with air and water hose reels and attachment storage adds to the convenience of the package. Excavate dry with an Air-Spade when you want to use the dirt for backfill right away or use high pressure water jets in extremely hard soils to locate underground lines safely. Trailer mounted unit has a full tank weight of under 7,000 pounds making it towable by any full-size pickup truck. The unit shown here is available in multiple water and debris tank sizes. (800) 884-5551, pacific-tek.com



### AmeriVac Group

The AmeriVac Group offers its line of MAXVAX mid sized hydrovac trucks: the MV700 and the MV1000T. The MV1000T is specifically designed for northern climates, where extra payload is required for road bans. The MV1000T hydrovac module is mounted on a tandem chassis, and the water capacity is 1,300 gallons compared to 650 gallons in the MV700. The MV700's fuel costs are less than 50 percent of the larger, heavier tandem counterparts, while the material velocity of 173 mph is equal or superior to most large tandem units. Features on all MAXVAX hydro excavation trucks include: debris transfer system, misting system for almost dry debris removal and polar package. The polar package includes a boiler and heated cabinet that houses the water tank, pump, hydraulic tank, etc. Automatic traction control on all the chassis also is included. (800) 920-6161, amerivacgroup.com



### Super Products

If you want to dig utility locates, there is plenty of vacuum equipment available. But when you talk performance, only Mud Dog can dig a 2-foot wide by 3-feet long by 4-feet deep pothole in 90 seconds. Plus, only Mud Dog can give you vacuum up to 6,000 cfm and 27-feet Hg, water tank capacity up to 2,000 gallons, debris tank capacity up to 3,200 gallons and other options to give you unmatched vacuum excavation productivity. (414) 784-7100, superproductscorp.com

### Concept Engineering Group

The AIR-VAC air powered vacuum is a powerful, unique vacuum unit that uses the patented AIR-SPADE technology. The unit is easily maneuverable by one worker and has a significant size advantage over traditional vacuum trucks. It is designed to fit through a 32-inch wide gate or door for access to backyards or even indoors. The AIR-VAC can be used with an AIR-SPADE Series 2000 to quickly excavate potholes and holds enough spoil for a 12-inch diameter pothole over six-feet deep. Readily vacuums 1 to 2 cubic feet per minute of materials such as dirt, sand, gravel, rocks or water. The AIR-VAC is equipped with an easy to open dumping door located at the bottom of the tank, an easily removable top, and an Air-King hose connector. (888) 557-2339; air-spade.com



### Utiliscope

The patented Utilivac VE-75 vacuum excavator provides big rig capabilities at a fraction of the cost. The basic system includes Utiliscope's unique air lance, making the VE-75 the world's most portable dry-type vacuum excavator. Although the system was designed for utility locating, it excels at hundreds of other uses such as vault cleaning, remediation (it packs 55-gallon drums directly) and dewatering. The unit produces 850 cfm and 22<sup>2</sup> Hg of vacuum, allowing it to vacuum anything that will fit into its 4<sup>2</sup> inlet. (800) 824-7709, utiliscope.com

### Vac-Tron

The minicombo 550 Series vacuum excavation system is designed for removal of a variety of wet and dry materials. Some applications include: storm drain clean out; mud removal; locate underground utilities; manhole clean out; cleanup at treatment plants; meter box cleaning; vacuuming out retention ponds; saw mill clean-up; vacuuming of smaller rocks; emergency road spills and dry sand; and full jetter capabilities. The minicombo 550 comes equipped with a hydraulic rear door, which opens fully so the operator can completely empty the contents. For operator safety, the door is controlled by push buttons located on the side of the unit. Two mounting options are available in the minicombo 550 Series. Units can either be mounted to a flat bed vehicle or on a trailer and transported with a tow vehicle. (888) Vac-Tron; vactron.com



# Air and Hydro VACUUM EXCAVATORS

## GapVax



The GapVax HV hydro excavator models are multipurpose systems for virtually every wet/dry vacuum project imaginable. With GapVax's unique filtration system, the unit can convey wet or dry material with no filtration changeover. The HV-44 is equipped with four large cyclone separators (3,800 cfm), and the HV-56 is equipped with six large cyclone separators (5,300 cfm), which remove material from the air stream prior to entering the "baghouse." This system prolongs the life of the filter bags and eliminates the costly threat of material entering the vacuum pump. Other features include a tailgate that locks to utilize an "over-center" mechanism, which provides a fail safe seal even if the hydraulic system loses pressure. Standard hydro excavation equipment includes the 27-inch Hg high vacuum blower and water tank. (814) 535-6766, gapvax.com

## Ditch Witch



The FX60 is a high-end, belt-driven vacuum excavation system with a 5.2 gpm water pump and 900 cfm of suction power.

It can be configured with a 300-, 800- or 1,200-gallon debris tank. It's powered by a 60-horsepower Cummins 3.3 engine and is available in either trailer-mounted or loose-configuration versions. With a quiet noise output of 82dba, which meets noise-pollution requirements for most targeted industries, the FX60 enables operators to work longer in highly populated areas with fewer complaints. Less noise and vibration also results in decreased operator fatigue. The FX60's convenient hose reel, available on the 1,200 gallon tank, saves time and labor. (800) 654-6481; ditchwitch.com

## Trenchless Technology Products

The T.T. Pro-VAC Directional Boring Vacuum Truck boasts many key features: a 2,000 gallon pressure tested tank; 1,433 cfm at



12-inch HG blower; PTO driven; 36-inch rear manway with 8-inch dump valve; 21-inch access manway on top of tank; three liquid level

sight glasses; vacuum relief valve; hydraulic dumping; washable polyester filter; pressure washer with 13-horsepower electric start; Honda engine with 4 gpm at 3,000 psi; and a 125 gallon water tank. (909) 795-1499, ttprovac.com

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## Economy Drilling Solutions



The Lo-K-Tor system excavates with high-pressure water and is available on a dual-axle trailer or on skids for truck mounting. It is available from authorized dealers and direct from the factory in areas where there is no established distributor. Lo-K-Tor uses a true vacuum pump rather than a wind turbine for greater depth of suction of mud or waste below ground level. It is powered by a 20-horsepower engine and develops approximately 3,500 psi when used with a "turbo" tip, which is included with the unit. It also is powered by a 13-horsepower engine. Engines for both pumps have their own fuel tanks and starting batteries. The positive-displacement pumping system design will produce 30 inches of mercury at 285 cfm. The system provides full productivity at distances to 300 feet, allowing access to confined areas making the machine well suited to fiber-to-the-premises construction in developed neighborhoods. Lo-K-Tor also is able to penetrate to depths of 20 feet, depending on soil conditions. (580) 480-1322, economydrillingsolutions.com