



10000

**Put the Power of Air  
to Work for You!**



SYSTEM

**VACMASTERS**  
**SYSTEM 1000**  
*AIR-VACUUM EXCAVATION*

# VACMASTERS SYSTEM 1000

*Reduce Potholing Costs • Increase Production • Reduce Damage Claims*



## Low Cost, Small Size, High Performance!

### State-of-the-Art Air-Vacuum Excavation

There's no better way to expose buried utilities for verification and repair than air-vacuum excavation. Working from above ground through a small hole is the accepted method for reducing cost, manpower, and damage to utilities. Now VACMASTERS is making state-of-the-art air-vacuum excavation cost-effective for smaller contractors and public works departments with their SYSTEM 1000, a trailer or truck mountable air/water excavation system. Potholing with high-pressure air breaks up the soil for easy removal by the powerful vacuum, keeping the spoils dry for backfilling.

### The Advantages of Air

The SYSTEM 1000 is the next-generation in vacuum excavation technology from VACMASTERS, the leader in air-vacuum excavation. When compared to water, the SYSTEM 1000 with air offers you higher performance in most soils, greater efficiency, lower costs, and is less invasive than water, reducing your damage claims. The SYSTEM 1000 also has high-pressure water on board for those rare instances when you might be potholing in sticky, wet clay or hard caliche.

### Experience the benefits of potholing with air

- Air is faster in most soils, averages 7 to 8 minutes
- Air eliminates mud disposal problems
- Air won't damage roadbase (DOT friendly)
- Air is much safer (for you and utilities)
- With air, spoils stay dry for backfilling

### Making the Transition from Water to Air is Easy

The SYSTEM 1000 is small and compact, designed for truck, trailer, or skid mounting. It's perfect for potholing in tight places with plenty of power to take care of your potholing requirements. It has most of the features of VACMASTERS larger, heavy-duty models, including water, without sacrificing convenience and performance. And its lower price makes it ideal if you are now potholing with water and want to step up to air.

### Air Power Gets the Job Done

Join the VACMASTERS Air Force. There are now more than 450 VACMASTERS systems serving companies throughout North and South America and Australia. Now's the time to stop wallowing in the mud and start potholing *airodynamically*.

**There's a VACMASTERS System\*  
designed to do your jobs, big or small.**

**SYSTEM 4000** – Largest and most powerful, digs in all soil conditions

**SYSTEM 3000** – Powerful, compact and maneuverable

**SYSTEM 1000** – Affordable, trailer, truck, or skid mounted

*\* All have water on board as a backup*

**To see VACMASTERS air in action, view our demo at [www.vacmasters.com](http://www.vacmasters.com) or for more information, call 1-800-466-7825 or e-mail us.**

## VACMASTERS

### The Leader in Air-Vacuum Excavation

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## SYSTEM 1000 Benefits

### SELECTABLE AIR OR WATER DIGGING

- Allows crews to use air 90–95% of the time, with water available when needed.
- Effective digging in all soil conditions

### SKID MOUNT DESIGN

- Allows installation on a trailer or truck

### COST EFFECTIVE

- Low initial cost, low operating cost

### SINGLE ENGINE DESIGN

- Powerful John Deere Diesel engine drives all systems: vacuum, air and water.
- One engine to operate and maintain
- Quality components mean readily available service

### CYCLONIC FILTRATION SYSTEM

- Highly effective for wet or dry applications
- Fast and easy cleaning

### HYDRAULIC POWERED DUMPING

- Quick, easy emptying of large 300 or 500-gallon spoils tank

### SUPERVISORY CONTROL PANEL

- Automatic monitoring of all systems with auto shutdown

### REMOTE OPERATION

- Operate up to 200 ft. away for areas difficult to access

### QUIET OPERATION

- High efficiency absorption chamber silencer and enclosed power head minimize noise levels

### LOW-MAINTENANCE DESIGN

- Monitor and maintain oil levels, follow recommended checks and adjustments, and occasionally clean the polyester filter...that's it!

### ADDITIONAL BENEFITS OF POTHOLING WITH AIR

- Digs faster than water in most soils
- Collected spoils remain dry for fast, efficient backfilling
- Eliminates mud disposal problems
- Safer for utilities and operator
- Air won't damage roadbase

# SYSTEM 1000 Features

## Integral Power Head.

Single diesel engine drives vacuum, compressor, and high-pressure water

High-Pressure Water Selector

Quick-Disconnect Vacuum Inlet

Enclosed Power Head with High-Efficiency Absorption Chamber Silencer

Cyclonic Filtration System, dual-stage with washable element

Fully Supervised and Lockable Control Panel

Filter Condition Indicator

Posi-Seal Manway

Spring Retractable Hose Reel

Compressed Air Selector Switch 150 psi/100 psi

Flashing Beacon

Lockable Access Doors for Easy Maintenance



# SYSTEM 1000 Specifications

## POWER SOURCE

Engine Type: 4-Cylinder Diesel  
 Model: John Deere 4045D  
 Power Rating: 68 hp  
 Fuel Tank: 30-gallon  
 Power Transfer: Belt Drive

## OPERATIONAL DATA

Vacuum: 780 cfm, 15" Hg, 4" hose  
 Compressor: 100 cfm @ 150 psi (Air Lance)  
 100 cfm @ 100 psi (Air Tools)  
 High-Pressure Water: 0–3000 psi @ 3 gpm  
 Low-Pressure Water: 0–1000 psi for clean-up

## TANK CAPACITIES

300 or 500-Gallon Spoils Tank with Hydraulic Hoist  
 85-Gallon Water Tank

## OPERATOR CONTROL PANEL INSTRUMENTATION

Fully Supervised, Automatic Shut-Down

- Engine RPM
- Temperature
- Oil Pressure
- Vacuum
- Air Pressure

## DIMENSIONS and WEIGHTS

	SKID MOUNTED	TRAILER MOUNTED
Length:	13'	20' 6" (14' bed)
Width:	.6' 8"	.7' 10" (6' 2" bed)
Height*:	.5' 10"	.7' 4"
GVW:	.N/A	14,900
Empty Wt. (lbs.):*	.5,450	.6,850
Full Wt. (lbs.):*	.9,430	10,850

\*Based on 300-Gallon Spoils Tank.

## HOSES

33' of 4" Smooth-Bore Vacuum Hose  
 50' of 3/4" High-Pressure Air Hose  
 50' of 3/8" High-Pressure Water Hose

## STANDARD EQUIPMENT

- Fiberglass Air Lance w/Nozzle
- High-Pressure Water Wand w/Nozzle
- Low-Pressure Water Wand (for clean-up)
- Spring-Retractable Hose Reel
- Winterizing Kit
- Spare Nozzles
- Flashing Beacon
- Face Shields

## OPTIONAL EQUIPMENT

- Traffic Direction Board
- Storage Boxes
- Work Lights, 12V DC Spotlight
- Vacuum Hose Rack
- 500-Gallon Spoils Tank
- Barrel-Top Interceptor (shown at right, barrel not included)

