

# The World's Most Powerful Air-Vacuum Excavation System!



**VACMASTERS**  
**SYSTEM 4000**

4000  
SYSTEM





# VACMASTERS SYSTEM 4000

## Groundbreaking Performance in Rock-hard Soil



The SYSTEM 4000 is the workhorse of vacuum excavators, with the brute force to dig deep down with air, exposing utilities in even the hardest soils without harming them. Now you can dig faster, easier, and safer in soil that's hard, wet, sunbaked, or compact, including ground frost.

## Punch out more potholes faster in harder soil than ever before!

The world's most powerful air-vacuum excavation system gives you the power to pothole like never before...with high-velocity, supersonic air that explodes the soil from within for easy vacuuming and quick backfilling.

### The 4000 is:

- 50% more powerful than its predecessor, the SYSTEM 3, yet simple for a two-man crew to operate.
- Turbo-diesel powered, yet quiet.
- State-of-the-art, yet easy to maintain.
- Versatile, uses air yet has water (as a backup).
- Safe, yet powerful

### Our air technology does the work of water faster, easier, and safer.

It's no secret. Vacuum excavation is the best way to get to buried utilities for verification or repair. Using pick and shovel crews is dangerous, labor intensive, and expensive. Potholing with water and then vacuuming the wet spoils is cumbersome, messy, and could damage the very utilities you are trying to locate or repair. VACMASTERS has pioneered the use of air in making potholing safe, efficient, less costly, and protective of the buried infrastructure.



### Use VACMASTERS air-vacuum excavation for:

- Underground utility location and verification
- Natural gas pipeline bell joint leak repair
- Cathodic protection installation
- Gas or water line service terminations or installations
- Manway and valve box cleaning and maintenance

### Potholing with air offers you these benefits.

**Speed**—pothole in 7-8 minutes average. **Safety**—for operator and buried utilities. **Efficiency**—no mud hauling, disposal costs, or return with backfill. **DOT Friendly**—won't harm roadbase.

### Join the VACMASTERS Air Force.

More than 500 companies around the country and abroad appreciate the benefits of potholing with air and use one of VACMASTERS Air-Vacuum Excavation Systems. If you are still wallowing in the mud, isn't it time for you to get up to speed and start potholing *Aerodynamically*?

### 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 4000 Benefits

### POWERFUL AIR DIGGING ACTION

- Our high-pressure/high-volume air combined with our Air-Tec™ nozzle breaks up the hardest soils in record time.
- Allows operators to enjoy the economic and safety advantages of air 95% of the time.

### SELECTABLE AIR OR WATER DIGGING

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

### FAST-ACTING INTERCEPTOR CANISTER

- Rear-mounted soil collection canister holds and dispenses soil for quick, easy backfilling.
- Keeps dry and wet spoils separate.

### SINGLE-ENGINE DESIGN

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

### SELF-PURGING FILTRATION SYSTEM

- Reverse-flow air automatically cleans the filters. Less required maintenance means more time on the job.

### HYDRAULIC POWERED DUMPING

- Quick, easy emptying of large 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

### SLURRY VACUUM MODE

- Vacuum directional boring slurry or clean out valve boxes, catch basins, underground vaults, etc.

### LOW-MAINTENANCE DESIGN

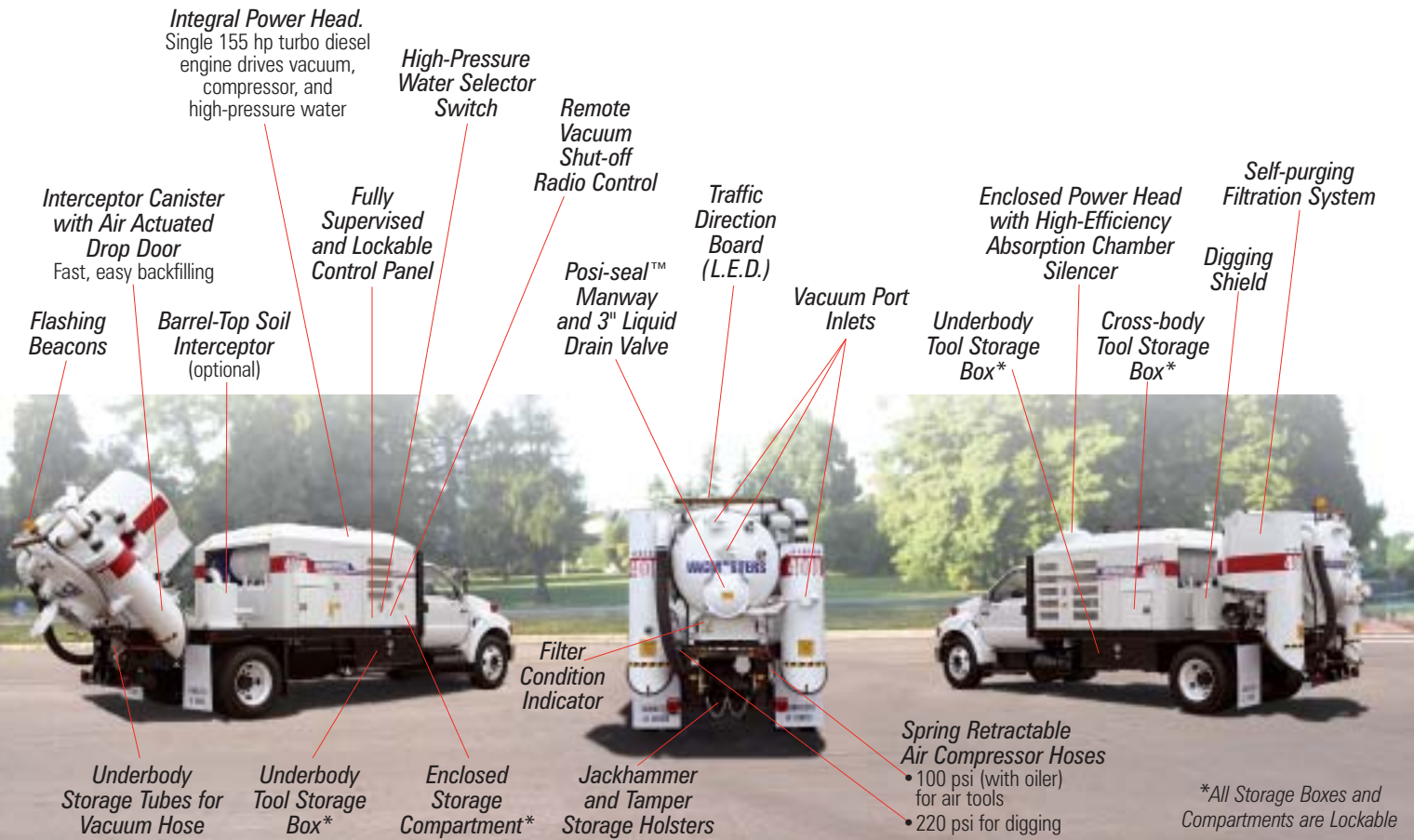
- Monitor and maintain oil levels, follow recommended checks and adjustments... that's it!

### 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 4000 Features



# SYSTEM 4000 Specifications

## POWER SOURCE

Engine Type: 6-Cylinder Diesel  
 Model: John Deere  
 Power Rating: 155 hp  
 Fuel System: interconnected to truck system  
 Power Transfer: direct belt drive

## OPERATIONAL DATA

Vacuum: 1000 cfm, 15" Hg, 4" hose  
 Compressor: 300 cfm @ 220 psi (Air Lance)  
 300 cfm @ 100 psi (Air Tools)  
 High-Pressure Water: 0–3000 psi @ 3 gpm  
 Low-Pressure Water: 0–1000 psi for clean up

## TANK CAPACITIES

450-gallon spoils tank w/hydraulic hoist  
 800-gallon tank optional  
 85-gallon water tank

## OPERATOR CONTROL PANEL INSTRUMENTATION

Fully Supervised, Automatic Shut-Down

- Engine RPM, temperature, oil pressure
- Compressor air pressure, temperature

## DIMENSIONS and WEIGHTS

Length: ..... 27' 4"  
 Width: ..... 8' 0"  
 Height: ..... 10' 10"  
 GVW: ..... 25,950 (non-CDL)  
 Empty Wt. (lbs.) ..... 22,150\*  
 \*Standard Configuration

## HOSES

25' of 4" Smooth-Bore Plastic Vacuum Hose  
 33' of 4" Smooth-Bore Rubber Vacuum Hose  
 50' of 1" High-Pressure Air Hose  
 50' of 3/4" Air Hose for air tools  
 50' of 3/8" High-Pressure Water Hose

## STANDARD EQUIPMENT

- (2) Retractable Air Compressor Hose Reels (*high and low pressure*)
- Fiberglass Air Lance w/Air-Tec™ Nozzle
- (2) Underbody Storage Tubes for Vacuum Hose
- (2) Underbody Storage Boxes (18"H x 60"L x 18"W)
- Traffic Direction Board (L.E.D.)
- High-Pressure Water Wand
- Low-Pressure Water Wash-Down Wand
- Digging Shield
- Jackhammer and Tamper Holsters
- Winterizing Kit for water system
- (2) Flashing Beacons
- Cross Body Storage Box (22"H x 96"L x 22"W)
- (1) Enclosed Storage Compartment (48"H x 60"L x 16"W)

## OPTIONAL EQUIPMENT

- Sandblast System
- Towing Hitches
- Work Lights
- Barrel-top Soil Interceptor