TRAILER VACUUM EXCAVATORS

VACUUM EXCAVATION
THE MOST PRODUCTIVE VACUUM EXCAVATOR LINE IN THE INDUSTRY.

Versatile and powerful Ditch Witch® trailer-mounted vacuum excavators are designed for an extensive range of cleanup and soft excavation tasks. They are engineered from the ground up as a trailer vac system, ensuring superior functionality. And because operator safety and efficiency are the main priorities when building our v...
**REVERSE FLOW**
- Simplifies the removal of spoils
- Offloads spoils to a remote location
- Improves overall productivity

**CYCLONIC FILTER**
- Industry-leading triple filtration system
- Prevents dry materials from flowing downstream into mesh filter
- Increases system productivity and minimizes frequency of cleaning filter

**WATER HEATER**
- Keeps water system from freezing in inclement weather
- Increases wintertime productivity
- Increases production in tight soils
- 340,000 BTU

**TANK CAPACITIES**

**FX20**
- 150-gal (568-L) spoils tank
- 80-gal (303-L) freshwater tank

**FX25**
- 500-gal (1893-L) spoils tank
- 80- or 200-gal (303- or 757-L) freshwater tank

**FX30**
- 500- or 800-gallon (1893- or 3028-L) spoils tank
- 80-, 200- or 300-gallon (303-, 757- or 1136-L) freshwater tank

**FX50/FX65**
- 500-, 800- or 1,200-gallon (1893-, 3028 or 4542-L) spoils tank
- 200-, 300- or 500-gallon (757-, 113 or 1893-L) freshwater tank

**MV800**
- 800-gal (3028-L) spoils tank
- 100-gal (378-L) freshwater tank

**WIRELESS HYDRAULIC BOOM**
- Saves labor, time and reduces operator fatigue
- Rotates 270 degrees and extends to 14 ft (4.3 m)
- Wireless remote operation
  - Controls tank functions; open/closes door, raises/lowers tank

**OPTIONAL FEATURES**
- Saves labor, time and reduces operator fatigue
- Rotates 270 degrees and extends to 14 ft (4.3 m)
- Wireless remote operation
  - Controls tank functions; open/closes door, raises/lowers tank
The 25-hp (20.1-kW) Ditch Witch® FX20 Vacuum Excavator is perfect for a wide range of projects and multiple short runs per day: municipal projects such as valve box cleanout, commercial and residential debris cleanup and landscaping, exposing utility lines, posthole digging, and many other tasks. We made the FX20 small so you can transport it in the back of your truck, but it still has big-time suction power.
For all kinds of cleanup jobs, the Ditch Witch® FX25 is the economical solution you’ve been looking for. This low-maintenance, low-profile unit can operate in tight jobsites, taking care of spills and unwanted fluids with exceptional suction power. It also takes care of essential soft excavation tasks—like potholing—with a high-pressure water system. Whatever the job demands, the FX25 demands only one person to do it all.
The industry-leading Ditch Witch® FX30 Vacuum Excavator has the rugged build and customer-driven design you need for optimal productivity on the toughest jobsites. The low-maintenance FX30 is heavier and stouter than competitors’ units to withstand the most demanding conditions while tackling an extensive range of soft excavation and cleanup tasks.

**FX30 VACUUM EXCAVATOR**

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1. Hydraulic door opens fully horizontal to maximize the efficiency of spoils removal.

2. Choice of 500- or 800-gallon spoils tanks and 80-, 200-, or 300-gallon water tanks for cleanups of any size.

3. 24.8-hp (18.5-kW) Kubota® diesel engine powers the FX30’s outstanding suction and water pressure.

4. Reusable, 2-micron vacuum filter and a blower relief valve air filter provide the industry’s best filtration.

5. Fully enclosed, insulated, lockable power pack protects major components from weather and vandalism while leading the industry in noise reduction.

6. Trailer meets federal regulations (FMVSS) and comes standard with toolbox storage in tongue.

7. Optional reverse-flow feature allows you to offload spoils quickly and easily.

8. High-pressure water system with a 4.2-gpm (16.1-l/min), 3,000-psi (207-bar) water pump is adjustable from curbside operator’s station; autoclutching feature disengages water pump when water is not in use, allowing full system power for suction.

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**THE POWER TO DO IT ALL.**
With its outstanding suction and water pressure, the Ditch Witch® FX50 is made for every phase of your installation project. From potholing to cleanup of all types of non-hazardous spills, HDD fluids, and jobsite debris, the FX50 does it all. Plus, numerous options allow you to customize your FX50 for virtually any cleanup or soft excavation task. Every jobsite begins and ends with the FX50.

**EVERY JOBSITE BEGINS AND ENDS WITH THE FX50.**
Designed for maximum payload capacity, the FX65 is a proven workhorse that beats the competition, hands down. It features a 74-hp turbocharged Deutz® diesel engine, the best horsepower in its class. The FX65 also has the highest airflow of any trailer vacuum excavator at 1,215 cfm, 20 percent more than the next machine on the market. As with all Ditch Witch machines, it’s engineered with productivity and profit in mind.
The punishing conditions of HDD jobsites demand a mud vac you can count on job after job—a perfect description for the ruggedly built Ditch Witch® MV800. Featuring the heavy-duty, field-proven components that keep all Ditch Witch vacs performing strong year after year, the competitively priced and easy-to-operate MV800 offers a dependable Briggs & Stratton® engine, reusable filter and many other cost-efficient, customer-requested features that together translate into the benefit you need most: greater uptime.

**MV800 MUD VACUUM EXCAVATOR**

The punishing conditions of HDD jobsites demand a mud vac you can count on job after job—a perfect description for the ruggedly built Ditch Witch® MV800. Featuring the heavy-duty, field-proven components that keep all Ditch Witch vacs performing strong year after year, the competitively priced and easy-to-operate MV800 offers a dependable Briggs & Stratton® engine, reusable filter and many other cost-efficient, customer-requested features that together translate into the benefit you need most: greater uptime.

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1. Standard safety features include strobe light, belt guards and mechanical locks on all lift cylinders.
2. 800-gallon (3028-L) spoils tank designed for HDD drilling fluid cleanup jobs.
3. Filtration system includes an integrated carryover chamber that eliminates contaminants before they reach the blower, increasing uptime.
4. Optional reverse flow simplifies spoils removal and improves productivity.
5. Commercial-grade, 31-hp (23.1-kW) Briggs & Stratton® Vanguard™ gas engine features an electric start and high-capacity remote air intake filter.
6. Standard curbside controls promote jobsite safety and allow one-person control of all unit functions.
7. DC power pack powers all hydraulic functions; thermal switch provides protection in overload conditions.
8. 800-gallon (3028-L) spoils tank designed for HDD drilling fluid cleanup jobs.
9. 14,000-lb (6350-kg) GVWR trailer meets federal regulations and federal impact-guard requirements.
10. Optional hydraulic opening door is designed for easy spoils removal.

**MADE FOR THE HDD PRO—AND THE LONG HAUL.**
## SPECIFICATIONS

### DIMENSIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>FX20 Vacuum Excavator</th>
<th>FX25 Vacuum Excavator</th>
<th>FX30 Vacuum Excavator</th>
<th>FX50 800 GAL SPOILS/200 GAL WATER/T18S</th>
<th>FX65 1,200 GAL SPOILS/500 GAL WATER/T26</th>
<th>MV800 800 GAL SPOILS/100 GAL WATER/T14</th>
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<tbody>
<tr>
<td>Length, 174 in (4420 mm)</td>
<td>200 in (5080 mm)</td>
<td>200 in (5080 mm)</td>
<td>263 in (6.7 m)</td>
<td>249 in (6.3 m)</td>
<td>208 in (5283 mm)</td>
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<tr>
<td>Width, 86 in (2184 mm)</td>
<td>96 in (2433 mm)</td>
<td>96 in (2433 mm)</td>
<td>102 in (2.6 m)</td>
<td>101 in (2.5 m)</td>
<td>96.5 in (2479 mm)</td>
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<tr>
<td>Height, 93 in (2356 mm)</td>
<td>86 in (2184 mm)</td>
<td>86 in (2184 mm)</td>
<td>92 in (2.3 m)</td>
<td>99 in (2.5 m)</td>
<td>91.5 in (2324 mm)</td>
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<tr>
<td>Weight, empty 2,576 lb (1168 kg)</td>
<td>5,600 lb (2540 kg)</td>
<td>5,465 lb (2479 kg)</td>
<td>10,000 lb (4536 kg)</td>
<td>10,000 lb (4536 kg)</td>
<td>20,625 lb (9458 kg)</td>
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<tr>
<td>GVWR 4,500 lb (2041 kg)</td>
<td>5,600 lb (2540 kg)</td>
<td>5,465 lb (2479 kg)</td>
<td>18,000 lb (8172 kg)</td>
<td>18,000 lb (8172 kg)</td>
<td>42,000 lb (18925 kg)</td>
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### POWER

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<tr>
<th>Engine</th>
<th>Kohler® CH740S</th>
<th>Briggs &amp; Stratton® Vanguard™</th>
<th>Kubota® D1105-E3B</th>
<th>Deutz® D2.9 L4</th>
<th>Deutz® T20.8L4</th>
<th>Briggs &amp; Stratton® Vanguard™</th>
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<tbody>
<tr>
<td>Fuel</td>
<td>Gasoline</td>
<td>Gasoline</td>
<td>Diesel</td>
<td>Diesel</td>
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<td>Gasoline</td>
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<tr>
<td>Cooling medium</td>
<td>Air</td>
<td>Air</td>
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<td>Turbocharged</td>
<td>Natural</td>
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<td>Aspiration</td>
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<td>Natural</td>
<td>Natural</td>
<td>Natural</td>
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<tr>
<td>Number of cylinders</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Manufacturer’s gross power rating</td>
<td>25 hp (20.1 kW)</td>
<td>31 hp (23.1 kW)</td>
<td>24.8 hp (18.5 kW)</td>
<td>49 hp (36 kW)</td>
<td>49 hp (36 kW)</td>
<td>31 hp (23.1 kW)</td>
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<td>Emissions compliance</td>
<td>EPA LSI/EU Stage II</td>
<td>EPA LSI/EU Stage IIIA</td>
<td>EPA Tier 4/EU Stage IIA</td>
<td>EPA Tier 4/EU Stage IIIA</td>
<td>EPA Tier 4/EU Stage IIIIA</td>
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</tr>
<tr>
<td>Rated speed</td>
<td>3,600 rpm</td>
<td>3,600 rpm</td>
<td>3,000 rpm</td>
<td>2,600 rpm</td>
<td>2,600 rpm</td>
<td>3,600 rpm</td>
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<tr>
<td>Fuel tank capacity</td>
<td>15 gal (57 L)</td>
<td>15 gal (57 L)</td>
<td>25 gal (94 L)</td>
<td>25 gal (94 L)</td>
<td>25 gal (94 L)</td>
<td>6.9 gal (26.1 L)</td>
</tr>
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</table>

### VACUUM SYSTEM

| Air flow 543 cfm (15.3 m³/min) | 543 cfm (15.3 m³/min) | 500 cfm (14.2 m³/min) | 1,027 cfm (29.1 m³/min) | 1,215 cfm (34.4 m³/min) | 543 cfm (15.3 m³/min) |
| Max vacuum 15 in Hg (381 mm Hg) | 15 in Hg (381 mm Hg) | 500/800/1,200 gal (1893/3032/4542 L) | 500/800/1,200 gal (1893/3032/4542 L) | 800 gal (3028 L) |
| Tank outlet valve size 4 in (102 mm) | 6 in (152 mm) | 6 in (152 mm) | 6 in (152 mm) | 6 in (152 mm) | 6 in (152 mm) |
| Filter type Washable polyester | Washable polyester | Washable polyester | Washable polyester | Washable polyester | Washable polyester |
| Filter area 74 ft² (6.9 m²) | 100 ft² (9.3 m²) | 100 ft² (9.3 m²) | 130 ft² (12 m²) | 100 ft² (9.3 m²) | 100 ft² (9.3 m²) |
| Suction hose 3 in (76 mm) | 3 in (76 mm) | 3 in (76 mm) | 4 in (102 mm) | 4 in (102 mm) | 3 in (76 mm) |

### WATER SYSTEM

| Water tank capacity 80 gal (303 L) | 80 gal (303 L) | 80 gal (303 L) | 80 gal (303 L) | 80 gal (303 L) | 80 gal (303 L) |
| Water pump flow 2.6 gpm (9.8 l/min) | 4 gpm (15.1 l/min) | 4.2 gpm (16 l/min) | 5.1 gpm (19 l/min) | 5.5 gpm (20.8 l/min) | 4 gpm (15.1 l/min) |
| Water pump pressure, max 3,000 psi (207 bar) | 3,000 psi (207 bar) | 3,000 psi (241 bar) | 3,000 psi (241 bar) | 3,000 psi (207 bar) | 3,000 psi (207 bar) |
| Antifreeze system 50% water/antifreeze mix | 50% water/antifreeze mix | 50% water/antifreeze mix | 50% water/antifreeze mix | 50% water/antifreeze mix | 50% water/antifreeze mix |
| Pressure loss height (locking reel) | 50 ft (15.3 m) | 50 ft (15.3 m) | 50 ft (15.3 m) | 50 ft (15.3 m) | 50 ft (15.3 m) |
| Hydraulic system | Gear pump | Gear pump | Gear pump | Gear pump | 12V DC power unit |

### BATTERY

| SAE reserve capacity rating 41 min | 110 min | 110 min | 110 min | 110 min | 195 min | 195 min | 120 min |
| SAE cold crank rating @ 0°F (-18°C) 340 amps | 800 amps | 800 amps | 800 amps | 800 amps | 850 amps | 850 amps | 750 amps |
| Electrical system 12V | 12V | 12V | 12V | 12V | 12V |

### NOISE LEVEL

| Sound power 110 dBA | 110 dBA | 105 dBA | 110 dBA | 112 dBA | 109 dBA |
| Sound pressure 84 dBA | 87 dBA | 73 dBA | 82 dBA | 83 dBA | 79 dBA |

* Only available in a loose configuration.

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.
DIRECTIONAL DRILLS
Ditch Witch vacuum excavators provide support for our industry-leading horizontal directional drills. From the compact JT5 to the heavy-duty JT100 Mach 1, there’s an unbeatably efficient Ditch Witch directional drill for every type of jobsite and installation size.

PARTS AND SERVICE
Your Ditch Witch dealer is your source for factory-trained service and the genuine Ditch Witch parts you need for your vacuum excavation system, including suction tools, extensions, filters, spray nozzles, and other accessories that enable you to complete a wide variety of tasks.