PRE-DELIVERY INSTALLATION PREP GUIDE

VibraWaste Muckraker

Everything you need ready before your machine arrives. **Revised October 2026.**

What to expect on delivery day. From unload to the first truck dumping is **about an hour**. A forklift or telehandler sets the unit on your pad, the auger assembly slides into its receivers and friction locks, four travel locks come off, the hood safety switch goes on, and the machine plugs in. There is no commissioning period, no startup service, and no crew required from us.

That hour assumes everything in this guide is done and physically on site when the truck shows up. Pad poured and level. Power in and the receptacle installed. Forklift or telehandler there. Shackles, straps and the tools in Section 6 in hand. CamLock fittings and hoses for the truck, the discharge and the pump. Discharge line and debris container ready.

Miss any one of those and it is not an hour. It is however long it takes to get an electrician out, or to run to town for a 1-1/8 inch socket. The prep is your responsibility and it is the whole difference between dumping the same morning and losing the day.

1. Site Preparation

Surface Requirements

- Hard packed, stable surface required: concrete pad or compacted gravel.
- **Do NOT use rubber mats or any resilient material under the unit.** This will negatively affect machine operation.
- The unit must be equally supported across the entire base. If the machine rocks or wiggles, it is not properly seated.
- **The tank must be level side to side.** Even a small amount of side to side unlevel will cause cavitation with the vibratory motors and basket. Front to back level is not critical.
- Do NOT set the unit on railroad ties, new or used (used ties are worse). Using railroad ties voids the warranty.
- **Trailer mounting:** if you plan to mount the Muckraker on a trailer for mobile use, the trailer must have a jack on all four corners so the unit has a true level platform to operate from.

Space Required

- **Minimum: 12' x 12'.** This is the footprint the unit itself occupies.
- **Recommended: 20' x 20'.**

The extra room is not for the machine, it is for the work. You need clearance to swing the auger assembly in with a telehandler, to set a debris container at the discharge, and to run your line to the frac tank. At exactly 12' x 12' all three of those get difficult. If your site is tight, call us before delivery and we will walk through it with you.

If Additional Height Is Needed at Auger Discharge

- Use only 6x6 or 8x8 treated timbers to raise the unit. Never use railroad ties.
- Timbers must run front to back, the same orientation as the fork pockets.

- Place timbers outboard of the fork pockets toward each side, **not under** the fork pockets.
- Ensure timbers are level and provide equal support across the entire base.

Site Layout

- Adequate truck approach lane and turning radius required.
- **Typical full site footprint, including unit, frac tank and truck: 58' deep x 19' wide.**
- Space required at the auger discharge point for a debris collection container.

2. Power Requirements

- Power supply: **single-phase 240V**.
- Breaker: **2-pole 30-amp**.
- Protected by a 2-pole 30-amp breaker; uses a 50-amp plug (NEMA 14-50P) and 50-amp wiring harness for larger conductors and lower energy loss.
- Receptacle required: **NEMA 14-50R female receptacle (50A 125/250V)**. See photos below.
- Receptacle must be located **within 25 feet** of where the control panel will sit.
- Receptacle must be installed in a weatherproof enclosure where exposed to the elements.
- Your unit comes with a **25 foot power cord with a NEMA 14-50P male plug** already attached.
- **3-phase power is NOT required.**

NEMA 14-50P male plug
(included with your unit)

NEMA 14-50R female receptacle
(you supply and install)

> **Do not attempt to power the unit from a standard household outlet or extension cord.** Incorrect power supply will damage the machine and void the warranty.

Recommended: 50-Amp Surge Protector

- **Recommended, not included:** a 50-amp RV-style surge protector with wiring-fault indicator lights (for example, GEARGO 50 Amp, 15,000 joules). Its lights show supply wiring faults such as open ground, open neutral, and reverse polarity. It is not standard equipment and does not ship with the unit.
- **At hookup:** plug the surge protector into the NEMA 14-50R receptacle first and check that its indicator lights show correct wiring, then plug the Muckraker power cord into the surge protector. Your delivery person will point out the surge protector and show you this step.

3. Hose and Piping Connections

Below is what is on the machine. **Size your CamLock fittings and hoses to match these.** Trucks come outfitted with 3", 4" and 6" discharge lines, so exactly what you need depends on how your fleet is set up. You will know that better than we do.

Connection point	What ships on the machine
Feed box truck side	A **6" flange on each side.** One side ships fitted with a 6" gasket and flange fitting carrying a **4" threaded male nipple**, which is where your truck hose lands. The other side ships with a 6" gasket and a **blank**.
Capture tank discharge side	A **6" flange on each side.** One side ships fitted with a 6" gasket and flange fitting carrying an **offset 6" threaded male nipple**, offset to the bottom of the flange for the lowest possible discharge level. The other side ships with a 6" gasket and a **blank**.
Either component	Both ports on the feed box are 6" flanged, and so are both ports on the tank. **You can move the active side** by swapping the blank and the fitting on that component to suit your yard.

From the discharge you run to wherever the screened liquid goes, including the outlet to a transfer pump if your layout needs one. If you are running 4" pipe off the 6" outlet, have a **6"x4" reducer fitting** on hand.

What you supply. CamLock fittings and hoses for the truck connection, the discharge line, and the outlet to your pump if you run one. Any valves you want in either line. The 6"x4" reducer if you are running 4" pipe. **None of these ship with the unit.** Have them on hand before delivery day, along with your discharge piping, lagoon connection or receiving tank.

Where the Screened Liquid Goes

- **Frac tank:** a minimum 22,000-gallon capacity is recommended for holding screened liquid discharge. Position it at the liquid outlet within piping reach.
- **Direct to sewer:** where your local utility accepts the screened stream, the unit can discharge into an existing sewer line. This is subject to utility approval. Talk to us early if that is your plan.
- **Lagoon or receiving tank:** connection must be ready before the unit arrives.

4. Debris Collection

Position your debris container at the auger discharge point. Any of the following will work:

- Low-side roll-off dumpster
- Forkable tipping bin
- Tub with a trash bag liner

Remember that captured material comes out compacted and dewatered, so it is heavier per unit of volume than what you are used to raking off a bar screen. Size the container for weight, not just for volume.

5. Lifting Equipment Required

The MR-5 main body weighs 6,000 lbs. A forklift rated at 6,000 lbs or higher is required. A 5,000 lb rated forklift will not handle this load and must not be used. Skid steers generally do not have sufficient lift capacity and are not recommended.

One note on capacity. Forklift capacity ratings assume an ideal load center, usually 24 inches. A 12 foot machine sits well outside that, so your truck's working capacity will be lower than the number on its rating plate. Check your capacity chart at the actual load center, or use a telehandler, which handles this load and awkward site access better than a forklift does.

For Unloading and Placing the Main Unit

- **Forklift rated 6,000 lbs or higher**, sized at the actual load center.
- **Telehandler** with adequate reach and weight rating. Excellent alternative, especially for complex site access.
- **Skid steers are NOT recommended.** Most do not have sufficient lift capacity.

For Lifting and Installing the Auger Assembly

- **2 x bow shackles**, rated for the load.
- **2 x lifting straps, minimum 6 feet.** Shorter straps risk contacting and damaging the hood during the lift.
- Attach shackles and straps through the pre-engineered lifting holes on the auger assembly.
- Available at Amazon, Harbor Freight, or a local bolt and screw supply.

How the Auger Mounts

The auger assembly rides on **two support legs that double as drawbars.** They hold it up in transport, and they are what mounts it to the tank. The tank has a **receiver tube on each side**, sized to those drawbars.

- Hang the auger from the straps.
- Slide the drawbars into the receiver tubes.
- Push until the drawbars are **flush with the back of the receiver tubes.**
- Tighten the **two bolts on each receiver tube** to friction lock the assembly in place. Four bolts in total.

Nothing is welded and nothing bolts through the assembly. The friction lock is what holds it.

Bow shackle, qty 2 required

Lifting strap, min 6 ft, qty 2 required

Pre-engineered lifting holes, circled in green, on the auger assembly. Attach shackles and straps here.

Auger assembly suspended during installation using a telehandler, shackles and lifting straps.

Travel locks. Four travel locks are bolted to the unit for shipping. **They must be removed before the machine is operated.** 9/16" socket and wrench. Running the machine with the travel locks in place will damage it.

6. Tools Required for Installation

Tool	Purpose
1-1/8" socket and impact wrench	Auger drawbar receiver tube bolts, 2 per side
9/16" socket and wrench	Remove the 4 travel locks
7/16" socket and wrench	Attach the hood safety switch
5/16" nut driver, socket, or flat head screwdriver	Tighten hose clamps on auger drain back tube
Dead blow hammer	Installing wedge blocks; removing screens if needed
Standard hammer and blunt punch	Removing wedge blocks
Pry bar	Breaking screen seal during replacement
Level	Verifying unit is properly leveled
Zip ties (4" or longer) and wire cutters	Routing and securing wire loom after auger installation
Magnet on a stick (optional)	Retrieving dropped fasteners without pulling screens

7. About Your Screens

- **Stainless steel perforated plate with 3/16 inch holes.**
- **Four screens per unit.**
- Screens are a **wear item**. They are replaced on a schedule, not repaired, and normal wear is not a warranty item.
- Replacement takes a pry bar to break the seal and a dead blow hammer. Both are on the tool list above.

Nothing about the screens is automatic. There is no self-cleaning function. The machine is mechanically simple and there is very little on it to break, but the screens are a consumable, the same as tires on a truck. Plan for them.

8. Pre-Arrival Checklist

Every line has to be done, and everything on it has to be on site. This list is what turns delivery day into an hour instead of a week.

- ☐ Level, hard packed installation surface ready
- ☐ **12' x 12' minimum area clear at the installation point, 20' x 20' recommended**
- ☐ Truck approach lane and turning radius confirmed
- ☐ 240V single-phase power with 2-pole 30-amp breaker installed
- ☐ NEMA 14-50R receptacle installed within 25 feet of control panel location
- ☐ Receptacle in weatherproof enclosure if outdoors
- ☐ Liquid discharge piping, frac tank, or approved sewer connection ready at the outlet
- ☐ **CamLock fittings and hoses on hand** for the truck connection, the discharge line, and the pump if you are running one
- ☐ Any valves you require supplied and ready to install
- ☐ Debris collection container in place at auger discharge
- ☐ **Forklift rated 6,000 lbs or higher**, checked at the actual load center, or a telehandler on site
- ☐ 2 bow shackles on hand
- ☐ 2 lifting straps, minimum 6 feet, on hand
- ☐ All installation tools on hand, see Section 6

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Questions before delivery? Call or email us. We are happy to walk through your site setup.

It's only waste, if we waste it!