

# SandBank

## Proppant Silo System



We're taking on-site sand storage to a new level with the SandBank™ proppant silo system.



Hydraulic fracturing jobs require millions of pounds of proppant, and storage of this material remains an issue. Our new SandBank system—a mobile, bulk storage solution—is the answer. This system incorporates six storage silos with 400,000 lb of storage capacity each, a drive-over conveyor belt which eliminates the need for pneumatic proppant transports, and a bucket elevator system that loads up to 550 tons/hr when utilized in a six-pack configuration. When it comes to on-site sand storage, the SandBank system is taking the industry to a new level.

### Basic setup process

First, position the primary and secondary bases. Then, stand up each of the six silos onto a base and secure them. Utilizing the quick connections, fasten cables and hoses to each silo. If desired, install back-up cross-over piping between silos and opposite base conveyor. Once the silos are in place, position the drive-over silo loaders, lift the rear conveyor, install the distribution hosing to bucket elevators, and connect communication cables to the bases. For maximum wind stabilization, position the silo push beams. Finally, position the blender distribution chute.

# SandBank Proppant Silo System



## Features

### Additional silo features

- Silo level sensor with inventory control
- Overflow protection
- Primary discharge gates hydraulically actuated
- Secondary discharge gates hydraulically actuated (feed opposite base)
- Integral bucket elevator system

### Primary and secondary bases

- Back-over bases with integral conveyors
- Each base supports up to three fully-loaded silos
- Primary base features pressurized cabin with full system controls
- Choke filled fully-enclosed conveyors
- Discharge chute capable of feeding two blender hoppers
- 480-VAC diesel electric generators
- Critical function generator backup across bases and shore power option

### Drive-over silo loader

- Simultaneous unloading of two sand transports (pneumatic or grain-hauler style)
- Integral drive over belt with tractor trailer ramps
- Gravity choke filled conveyor
- Selectable discharge diverter valve to feed any one of three silo bucket elevators
- Swiveled diverter valve for pad layout optimization
- Local operation station

### Silo transport trailer

- Integral lift frame
- Hydraulic lift cylinders
- Trailer hydraulic stabilization legs
- Capable of standing up silo on base or on ground
- Capable of lifting silo from two sides
- Wireless controls

## Specifications

### Designed storage capacity

- Three or six silos with 400,000 lb of capacity each (water level)
- 2.4 million-lb total proppant volume (six silos)

### Delivery rates to blender

- 700- to 20,000-lb/min system delivery per base
- Features automatic or manual blender feed control

### Silo fill rates

- Primary loading via integral bucket elevator system
- Max load rate of 275 tons/hr (roughly 9,000 lb/min) per three-pack arrangement
- Secondary loading via 4-in. pneumatic fill pipes