

Coast Equipment provides the right tank or bin for the specific properties of your stored resin material. Our silo accessories include dust collection, slide gates, vacuum take off boxes, level controls, truck fill lines, truck fill level sensor panels, tubing and fittings and more.

We also provide complete installation services for your system. Call us at 302-337-3778 or email us at sales@coastequipment.com for assistance in intelligently designing your material storage system, at a sensible price.



Bolted Silos

Bolted silos are constructed of sidewall panels approximately 5' wide by 8' high. These staves are precision cut, formed and factory-coated. They are versatile enough that we can produce tanks in sizes up to 200' in diameter and 200' high, subject to design restrictions.

Our bolted silos are designed to meet the requirements of heavy usage. Hopper-bottom silos utilize a structurally designed hopper-to-sidewall connection that is reinforced at the hopper springline. Truck and rail drive-through skirt openings are reinforced with heavy wall square and rectangular tubing to increase stability.



Welded Silos

Welded silos are qualified as ASME Section IX. Shell seams are full penetration welded using sub-arc welding processes with copper backup. Other seams are made with gas metal arc welding, flux-colored arc welding or submerged arc welding, as appropriate.

Standard welded tank diameters range from 8' to 14' and standard heights are 18' to 72'. Welded silos are typically shipped as single piece units, ready to install upon arrival at the job site. However, when taller silos are desired, sections can be shipped for welding on site. Skirted silos up to 14' in diameter can be shipped on self unloading trailers for domestic deliveries.



Corrugated Silos

Corrugated silos are constructed of galvanized steel and range in capacity from 5,000 to 245,000 lbs., 6' to 21' in diameter. These silos require minimal maintenance and are highly resistant to weather conditions and industrial pollution. They help eliminate the possibility of costly production downtime due to interruption in material deliveries, because you're assured of a good reserve supply. Plant efficiency is increased because materials move from the bulk bins automatically to points of need with a minimum of operator involvement.

- Blending • Conveying • Drying
- Feeding • Grinding • Material Storage
- Tubing and Fittings • Installation



In-Plant Storage Bins Standard Features

Economical In-Plant Storage Bins are available in sizes ranging from 30 cu. ft. to 600 cu. ft. Large quantities of material can be stored using very little floor space. They can be filled or discharged using pneumatic or screw conveying equipment. There are many options available to adapt these bins to almost any material handling system.

- Vacuum take off box with (4) 2" OD probes
- Butterfly valve
- Braced on (3) sides
- Sight glass in side wall
- 45 or 60 degree hopper
- Side gate
- Hopper and body constructed of 14 gauge steel
- Legs are 3" x 3" x 1/4" steel
- Roof includes hinged access door, vent and hole for vacuum chamber
- Standard discharge
- Exterior finish - Your choice of color



Silo Accessories: Truck Fill Level Sensor Panel

- Features:
- NEMA 4
 - Alarm and silence button
 - High intensity extended life LED lights

Truck Fill Line

- Includes:
- Aluminum or stainless steel tubing
 - Aluminum or stainless steel elbows
 - Compression couplings
 - Male adaptor with dust cap and brass chain

Vacuum Take Off Box

Located below a silo, storage bin, or hopper, the Vacuum Take Off Box provides a smooth flow of pellets to the conveying system. It prevents material from surging, starving or jamming. A clean out door is provided for fast, easy cleaning and inspection.

- Standard Features:
- Aluminum or stainless steel
 - Can accommodate up to 12 horizontal vacuum probes
 - Clean out door



Horizontal Vacuum Probe

Horizontal vacuum probes have an adjustable, slotted sleeve that regulates the amount of air drawn into the conveying line with the material. It is continuously adjustable from fully open to close. A vacuum take off box can be selected to accommodate one of multiple probes, depending on the number of conveying lines to be connected to it.

- Standard features:
- Aluminum or stainless steel
 - 1 1/2" — 4" OD



Angel Hair Box

"Angel hair", "streamers" or "skins" created by high velocity conveying of soft material, can clog your conveying system by blocking vacuum take off box probes or creating material bridges in hoppers. Coast's Angel Hair Box provides a stainless steel screen in the material flow path to filter out the clogging material and allow it to be easily removed from the system. The Angel Hair Box is usually fitted at the base of a silo, storage bin or hopper - below the Aluminum Slide Gate and above the Vacuum Take Off Box.

- Standard Features:
- 16" x 16" flange
 - 12" x 12" square opening
 - Box is 6" high
 - Removable screen



Aluminum Slide Gate

To stop the flow of material from a bulk storage vessel, Coast provides a heavy duty aluminum slide gate with a heavy duty hand wheel that allows the aluminum knife gate to cut through a solid column of plastic pellets and stop material flow for service, cleaning or equipment changes. The slide gate is installed below your silo or storage bin. Other types of slide gates (aluminum or stainless steel) can be furnished for powdered materials.

- Standard Features:
- Aluminum construction
 - Stainless steel construction available
 - 12" square opening

Material Level Indicators

Prevent costly equipment downtime and material spills. Two types of level sensors are available, point level and continuous level.

The rotary paddle switch provides reliable, economical, point level sensing. The paddle unit can be used to eliminate bin overflow, maintain a predetermined material level, indicate plugging of conveyors and pneumatic lines or provide any of a number of level control functions. Options include various paddle designs, mounting plate configurations, shaft extensions, and shaft guards.



The SiloPatrol® Inventory Monitoring System is a cable-based smart sensor system. It provides reliable, continuous monitoring of the level of material in bins, silos and tanks up to 150 ft. (45.7 m) in height. The system can be connected to a multi-functional HMI controller which is available in 2-, 8-, or 16-channel configurations or with SiloTrack® PC-base Inventory Management software that provides a flexible graphical interface for up to 128 sensors.



Bolted Silo Standard Accessories

Furnished With Tank

- 2' x 5' walk-in door in skirt below hopper
- 20" center roof dome with cover plate
- Foundation anchor bolts and saddles
- Hardware and gasketing for assembly of tank

Welded Silo Standard Accessories

Furnished With Tank

- 3'8" x 6'8" walk-in door with a free air louver (skirted tank only)
- Foundation anchor bolts and clips

Corrugated Silo Standard Accessories

Furnished With Tank

- G-90 galvanized finish (interior and exterior)
- Depending on silo size, provided with roof-top perimeter guard rail toeboard
- 22" diameter center opening and latching lid
- 16" diameter discharge opening and collar