

Storage Bins of Any Size For All Your Needs.

Reduce Your Grain Costs With Our Storage & Handling Systems

The VAL-CO Titan. If real estate is a problem, then look to VAL-CO and the Titan for the latest in tall bin storage with a smaller footprint. The new Titan commercial storage system is designed for commercial storage applications and today's highest capacity storage needs. The Titan is one of the tallest bins on the market with sidewall heights to 102.5 feet and has one of the largest capacities available of more than 650,000 bushels.

Offering one of the tallest bins on the market.

You will be able to save time in construction and money per bushel, because the Titan has been engineered for optimum efficiency. With a 42" sidewall height and the new "W" stiffener design, VAL-CO is able to reduce the number of rings, seams, and stiffeners required while increasing load capabilities. The increased strength of the "W" stiffener will handle greater loads without separate towers. An improved roof system features less roof sheets and a structural steel support system.



Superior Corrosion Resistance –

so you won't worry.

We use G115 galvanized coating on all Titan roof panels and sidewall sheets.

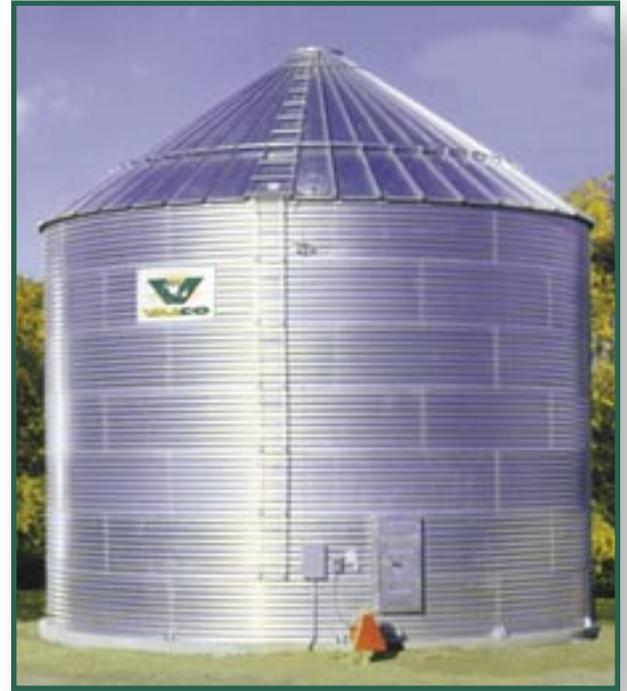
This provides over 25% more protection than competing bins, and ensures greater corrosion resistance and a longer bin life.

VAL-CO's Titan also uses JS 500 coating on all hardware, providing superior protection when compared to standard zinc coating.

VAL-CO's Titan Bins

For those smaller, big jobs. Easier to install and stronger than ever.

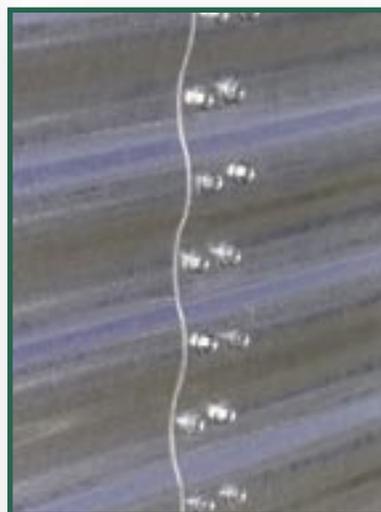
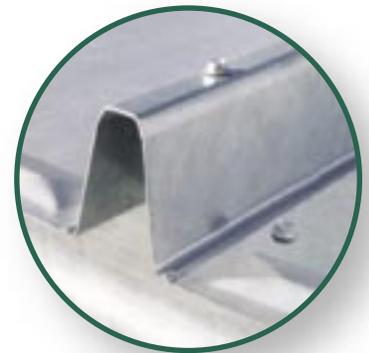
If you're looking for the best value in grain storage bins, look no further than VAL-CO's Titan Grain Bins. With a newly enhanced design, they lead the industry in providing superior strength, reduced material costs, easier installation and optimal grain protection.



We pay attention to the details so you don't have to.

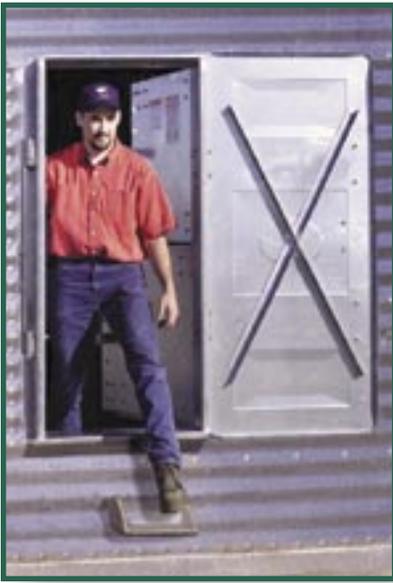
STRONGER ROOF DESIGNS

- All Titan roofs have 30% more roof ribs than leading competitors, while their unique fastening system reduces assembly time in the field.
- Titan bins under 38 feet in diameter have 2 ½" roof ribs and a 3 foot fill opening.
- Titan bins over 38 feet in diameter have 4" roof ribs and a 5 foot fill opening.



RUGGED SIDEWALL SYSTEMS

- Your installation time and costs will be lower with Titan's 42 ½" unstiffened sidewalls and less hardware.
- The Titan allows taller sidewall heights and more down augers with its unique corrugation spacing and hill and valley bolting system.
- We use larger grade 8 bolts for maximum strength in the hill and valley bolting system.



< EASY ACCESS DOOR

- Walk through easily with Titan's 26" x 62" door opening.
- No brackets or hooks are attached to the frame opening, so you can move through the door without fear of catching on obstructions.
- Protect against unauthorized entry with the lockable outside cover.

SOLID ANCHORING SYSTEM >

- A positive anchor design ties the sidewall solidly to the foundation.
- It provides stronger resistance to both lateral movement and uplift.



Other Commercial Storage Systems

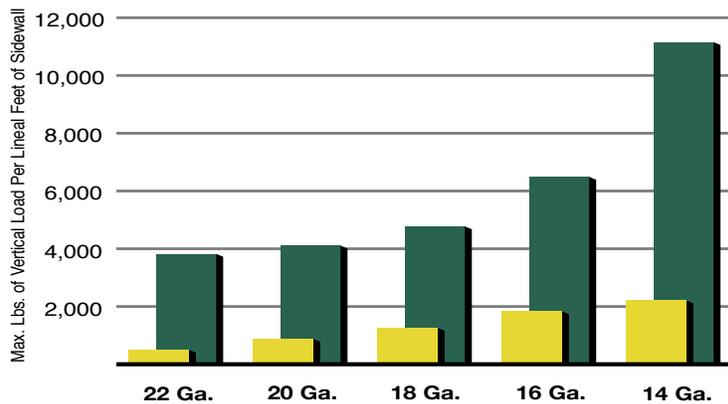
Save your money compared to conventional storage facilities. When your profits depend on volume capacity, and capacity depends on strength, you can depend on VAL-CO.

Stiffeners Add Strength

in vertical load carrying ability of sidewall bin sheets.

- Bins with stiffeners
- Bins without stiffeners

EXAMPLE: a 20 ga. sheet with stiffeners is over twice as strong as a 14 ga. sheet without stiffeners.



STRENGTH

VAL-CO offers more than 100 bin sizes with capacities up to 1.5 million bushels. Each bin starts with computer engineered design set to maximum resistance of grain pressure. Heavy gage 50KSI steel featuring 4.715 corrugated wall sheets are tied together with a unique VAL-CO stiffener design. All stiffeners are double bolted compared to single bolt structures.



ECONOMY

The cost-efficiency of the VAL-CO commercial bins make them your best investment for the increased grain storage you need. System expandability is another economic advantage enabling you to increase your storage capacity with additional bins.

The **VAL-CO** line of storage bins contains hundreds of various sizes.

Just ask your **VAL-CO** Sales Representative for more information on which size bins are right for you.

ROOF SYSTEMS

VAL-CO's self-locking roof panels eliminate moisture-catching seam bolts while the extra high ribs add strength and reinforce the weather sealing. VAL-CO's special weather tight, interlocking roof panels are designed with



high ribs. They are reinforced with structured steel roof trusses on all 40-foot diameter bins and larger. VAL-CO's structural roof system is rated for 12,000 pounds of peak load. Top side wall sheets bolt directly to roof trusses for a more secure roof/wall joint.

Hopper Tanks

To round out your grain management system, VAL-CO can also provide hopper bottom grain holding tanks from 6 feet diameter to 36 feet diameter in size. Featuring the same double bolted stiffener design as our commercial tanks, the VAL-CO hoppers are designed to fit your specific needs.



At the base of every hopper tank you will find a structural system of steel wide flange support columns designed to provide maximum strength. The support base is bolted into concrete while the top of the beam is double bolted to the tank compression ring. Designing the right slope is critical to your operational success. We offer 45° and 60° hoppers to accommodate your applications.

On-Farm Storage

Keeping your grain in marketable condition in an economical and efficient manner is a priority of our VAL-CO on-farm storage system. An on-farm storage system can help position your operation for better grain marketing opportunities and timing. A complete VAL-CO grain management system includes drying bins that are computer engineered to withstand the desired interior grain loads while accommodating the full range of drying equipment. The VAL-CO on-farm storage systems utilize the same galvanized steel as our commercial line and a choice of stiffened or unstiffened designs.



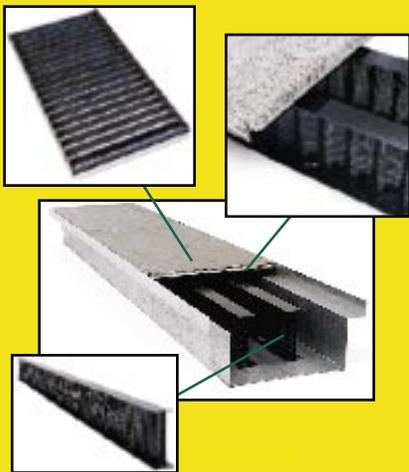
No matter what your application is, we have a set-up that's right for you!



Caldwell's Flooring

Systems are custom designed for each application. Panel Grate Systems or Flush Floor Systems are available with the configuration of your choice depending on your needs.

Available in a variety of sizes up to 6 feet wide, we can design a custom fit to ensure proper air flow. Both systems provide unrestricted air flow. Panel Grates are available with internal I-beams and perforated webbing for heavier loads or larger storage areas, while Flush Floor Systems have interlocking panels for smaller storage areas.



Grain Conditioning

Caldwell fans are available in a variety of models and sizes to fit almost any application or system. With details such as complete galvanized housings, energy efficient motors and built-in safety standards, Caldwell fans provide maximum performance and dependable service year after year. Most fans come equipped with leveling feet and lifting hooks for ease of installation. Fans are available to be wired with optional 230, 460 or 575 volt controls.



FOR LOW STATIC PRESSURE



Caldwell axial fans operate at 3450 rpm to deliver maximum air performance in low static pressure applications. Diameters range from 12" to 28", with horsepower ranging from .75 to 12.5. Fan housings are constructed of heavy gauge galvanized steel and equipped with safety screens to meet OSHA standards.

Single phase units incorporate a permanent split capacitor start motor for the best single phase motor reliability.

FOR MEDIUM STATIC PRESSURE

Caldwell's exclusive In-Line Centrifugal Fans offer a compact design. A specially engineered air baffle is built into every In-Line Centrifugal Fan to ensure proper air flow and to maximize air performance.

For medium static pressure applications, these fans operate at 3450 rpm. These fans are available in sizes ranging from 14" to 28" and with horsepower from 1 to 15. Available in single or three-phase units, these fans can be used in most general storage applications.



FOR HIGH TO VERY HIGH STATIC PRESSURE



Caldwell Centrifugal Fans are produced in 1750 rpm models for higher static pressure applications and 3500 rpm models for very high static pressure uses and offer quiet, dependable performance. These fans are available in sizes ranging from 15" to 36" with horsepower from 3 to 100. Most units are available for single or three-phase operation. Pre-wired for heater installation, each fan

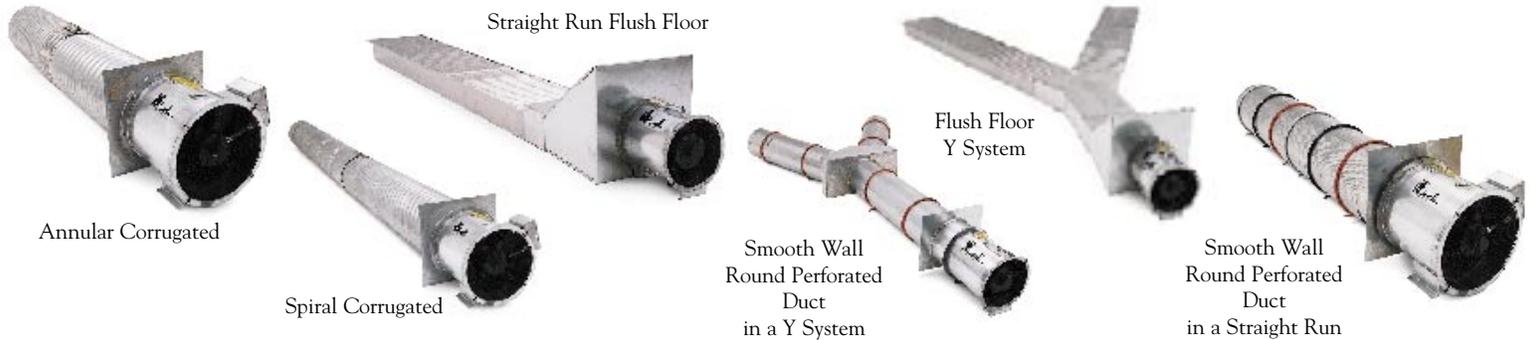
contains a built-in magnetic starter control for overload protection. As an option, humidistat controls are available. Dynamically and statically balanced wire welded fan wheels are standard because of proven performance.

FOR A COMPLETE DRYING SYSTEM

Unlike some drying systems, Caldwell units ship separate. The housings are constructed from galvanized steel for durability and include a screen guard for safety. The Centrifugal Heater has an enlarged service door for easier accessibility and a larger control box now located on top of the heater, adding more room. Heaters are available in natural gas, vapor propane and liquid propane units. Centrifugal fans can be equipped with either a ODP or TEFC motor. In-line fans (ODP), axial fan (TEAO).



IN BIN OR FLAT STORAGE AERATION SYSTEMS



VENT & EXHAUST SYSTEMS



Material Handling

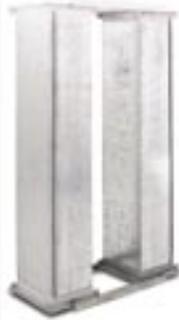
BUCKET ELEVATORS

Caldwell's Bucket Elevators are designed for optimum efficiency and ease of maintenance to deliver the commodity with virtually no damage. Our exclusive low profile head design prevents breakage by eliminating damage causing impact points. The components are made from heavy gauge material with hard tooled multiple punch machines and fixture welded assemblies. Our attention to detail, such as 1/4" urethane liners, easy open hinged discharge inspection door, bearing jack bolts and stops, lifting hooks, and head hood slide clamps provide extra convenience to a quality system.



We're ready to help you get the most from your grain storage operation. We'll help you determine the system that is right for you today while planning for tomorrow.

Convenience, safety and strength are three words that describe Caldwell's Bucket Elevators – especially the boot section. The same manufacturing and quality material standards from the head section are incorporated into the boot section. We also take great pride in producing the



straightest and truest trunk sections possible. Combining our manufacturing standards, heavy duty materials, efficient designs and years of experience, results in a state of the art product that provides unrelenting performance for years to come.



HORIZONTAL CONVEYORS

Caldwell's horizontal chain conveyors are built to satisfy your needs. A flexible design allows several options in constructing the conveyor that will fit most applications. A combination of exterior gauging, replaceable abrasion resistant liners, chain types, sprocket options, paddles and speed requirements are offered to provide quality service for years to come.



INCLINE CONVEYORS

Caldwell's horizontal incline pit conveyors can offer an easy solution to tough pit installation problems. These conveyors can be installed in shallow pits or

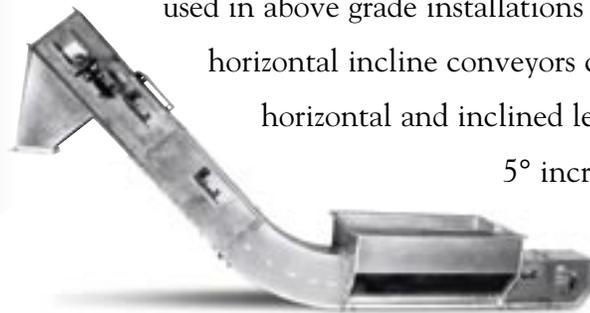
used in above grade installations with elevated driveways. The

horizontal incline conveyors can be designed with varying horizontal and inclined lengths as well as different angles in

5° increments. These units offer the same

flexibility and reliability as our

Horizontal Chain Conveyors.



Call your local VAL-CO representative or distributor for more information on these and other fine quality products.

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