Scan this QR code with the camera on your smartphone to download the digital version!
Million Bushel Bins

More grain means more bushels, and that means bigger bins. We’ve answered the call for more storage with our 135’ and 156’ Commercial Bins. With 1.47 million and 2 million bushel capacities respectively, you can maximize your storage space, while minimizing the number of bins. Our 135’ was the first ever fully-erected free-span bin to hold over one million bushels. 135’ and 156’ bins are both designed to be unloaded in a single pass partly due to the new stiffener base design.

Sukup Commercial Peak Decks & Lids

Sukup commercial G115 roofs come equipped with a 1/4” thick, 60” diameter, diamond deck steel peak lid that provides a solid base for conveying equipment or fill spouts. The diamond decking provides a non-slip surface for improved worker safety. The lid can be cut on-site to match your conveyor or down spout requirements.

Exceptional Peak Load Rating

Sukup offers 8,000, 15,000, 30,000, 50,000 and 100,000 lbs. peak load ratings. The strength of the Sukup 30,000 lb. roof comes from double C-shaped channels forming I-beam rafters with C-shaped purlins. Rafters and purlins are manufactured from 70,000 PSI tensile strength galvanized steel. The rafters on 75’ bins and larger, 50,000 lb and 100,000 lb roofs are constructed with 65,000 PSI tensile strength I-beams.

Double-Ended Stud Bolts

Double ended stud bolts eliminates water infiltration between laminated sheets & grain.

Commercial Bin Sizes (Other sizes available on request)

<table>
<thead>
<tr>
<th>Dia.</th>
<th>Max Peak Heights</th>
<th>Max. Capacities Available (Bu.)</th>
<th>Max Rings</th>
<th>Standard Roof Peak Load (Lbs.)</th>
<th>Optional Roof Peak Load (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42’</td>
<td>122’ 6”</td>
<td>132,900</td>
<td>30</td>
<td>30,000 (5’ Peak Lid)</td>
<td>15,000* (5’ Peak Lid) or 50,000 (10’ Peak Deck)</td>
</tr>
<tr>
<td>48’</td>
<td>124’ 4”</td>
<td>174,400</td>
<td>30</td>
<td>30,000 **</td>
<td>15,000* ** or 50,000 **</td>
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<tr>
<td>54’</td>
<td>126’ 2”</td>
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<td>30</td>
<td>30,000 **</td>
<td>15,000* ** or 50,000 (12’ Peak Deck)</td>
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<tr>
<td>60’</td>
<td>128’ 1”</td>
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<td>30</td>
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<tr>
<td>72’</td>
<td>132’ 1”</td>
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<td>30,000* (5’ Peak Lid)</td>
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<tr>
<td>75’</td>
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<td>30,000* **</td>
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<tr>
<td>78’</td>
<td>133’ 11”</td>
<td>471,000</td>
<td>30</td>
<td>50,000 **</td>
<td>30,000* **</td>
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<tr>
<td>90’</td>
<td>137’ 8”</td>
<td>632,800</td>
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<td>100,000 (16’ Peak Deck)</td>
<td>30,000* (5’ Peak Lid)</td>
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<tr>
<td>105’</td>
<td>138’ 9”</td>
<td>871,000</td>
<td>30</td>
<td>100,000 **</td>
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</tr>
<tr>
<td>135’</td>
<td>147’ 11”</td>
<td>1,471,600</td>
<td>30</td>
<td>100,000 **</td>
<td></td>
</tr>
<tr>
<td>156’</td>
<td>148’ 11”</td>
<td>1,935,800</td>
<td>29</td>
<td>100,000 (21’ Peak Deck)</td>
<td></td>
</tr>
</tbody>
</table>

Foundation specifications must be designed by a qualified engineer based on local soil conditions. Soil boring test must be done by a competent engineering firm and foundation construction must be done by a knowledgeable concrete contractor.

* Only available up to 24 rings tall
High Strength Steel Sidewall Sheets
Sukup uses a minimum 70,000 to 75,000 PSI tensile strength steel to provide better hoop tension load carrying capacity. The 4" wide corrugations on Sukup sidewall sheets create less resistance and friction, putting less vertical stress on the side wall and allow grain to flow more easily. Sukup sheets are 44" high, so there are fewer rings, seams and bolts than bins with 32" sidewall sheets.

Sukup Strong
Bins designed for 105 mph wind zones as defined by ASCE7-10.

Laminated Splice Plate
On larger commercial bins, our patented laminated splice plates ensure there are no gaps along the sidewall seams and are quick to assemble because the bolts fit easily into the properly aligned holes. The double shear connection is designed to maximize the strength of the seams.

Optimum Bolt Usage
The vertical bolt pattern on Sukup Commercial Bins has been evaluated for optimum performance and convenient erection. Sukup engineers use solid imaging computer design analysis to determine the proper bolt size to ensure the integrity of the seams while minimizing the number of bolts needed in order to speed erection and keep costs in line.

Commercial Stiffeners
Sukup commercial stiffeners are made from 70,000 PSI minimum tensile strength galvanized steel and are computer-engineered specifically to make them extra strong. Sukup stiffeners are externally mounted. External stiffeners provide excellent support and prevent the accumulation of grain and the resulting spoilage that can occur with internal stiffeners. Wind rings are used to provide greater rigidity to Sukup Commercial Bins when they are empty. Two or three stiffeners are provided per sidewall sheet.

Top Quality Bolts
All bolts on Sukup Commercial Bins are SAE Grade 8 (the highest standard in the industry) with 1000-hour plating. The SAE Grade 8 ensures that Sukup bolts will hold up to the stresses placed on them. The 1000-hour plating ensures the long life of Sukup Commercial Bins.

Easy Access
- A 44", single-ring door is standard on Sukup Commercial Bins. It features Hammer Head latches and the inner panels lay flat against the sidewall when open.
- A 60" walk-through door is also available as a convenient option to help enter and exit with ease.
- Optional Out-swing or In-swing Skid Steer doors are also available for even greater access.
- Sukup side draw systems are also an option on Commercial Bins. through 105' (As with any side draw, the grain must be emptied to a uniform height on the sidewall before refilling. Use only Sukup designed side draw units with Sukup Commercial Bins. Never add a side draw system to an existing bin.)
Sukup Medium-Duty and Heavy-Duty Hopper Bottom Bins are among the strongest in the industry with wide corrugations, extra-strong stiffeners and heavy-gauge hopper panels.

- Tank portion features the same quality sidewall construction as standard Sukup Bins, as well as the same roof.
- Hoppers are made of heavy-gauge, galvanized steel for strength and durability.
- Standard hoppers are 45°. 60° hoppers also available in common sizes.
- 16” unload outlet has a rack and pinion slide gate standard and hand wheel extension.
- 22” unload outlet has a rack and pinion slide gate option.

Sukup Heavy-Duty Hopper Bins

- 15’-48’ diameter, 3-24 rings, 45° hopper standard. Up to 60° diameter and 27 rings available on request.
- May be mounted on overhead super structures for loading of semis or rail cars.
- Can be used to store cool, dry grain for an extended period of time.
- All base configurations start with 70,000 psi tensile strength steel, wide flange (I-beam) legs.
- L-shaped cross-bracing between the legs adds more stability.
- Hopper ring flashing covers the ledge where the tank and cone join to prevent grain from accumulating.
Centrifugal Fans
- 1750 RPM single inlet fans from 3 - 100 hp. Dual inlet fans from 30-50 hp
- Centrifugal Fans offer quiet operation.
- Sukup was the first in the industry to offer adjustable legs for easy leveling and support.
- Exclusive lip on fans forms a tight seal with the transition to prevent air leakage.
- Hi-Speed (3500 RPM) fans 3 - 60 hp and 18”-28” in-line centrifugal fans are available for higher static pressure conditions found with small grains and deep grain.

Corrugated Flooring
Tunnel Aeration Alternative
Sukup offers a simple, corrugated flooring option for tunnel aeration. Corrugated galvanized steel sheets (44” L x 88” W with one corrugation overlap) are available solid or perforated. Installed over Flat Top Super Supports™, this flooring offers quick, simple tunnel aeration.

Heavy-Duty Perforated
For Deeper Grain Depths
- Sukup Heavy-Duty Perforated Floors were designed for situations where perforated floors are preferred but higher grain depths are needed.
- Sukup Heavy-Duty Perforated Floor planks have weight-bearing support every 3 ½”, rather than 7”, so they are able to withstand deeper grain depths.
- Shipped in 7” wide planks.

SuperWave® Supports
Sheet Metal Support
- Stamped metal supports work with all Sukup floor planks, but they are particularly well-suited to our Heavy-Duty Perforated Floors.
- Unique wave design provides excellent strength and stability at an economical price.
- Tabs provide support under the crown of the floor plank.
- Can be used with the deepest grain depths.

PATENT NO. 8,297,016
Features

1. **Stainless Steel** outer screens, nuts, and bolts resist rust and keep your dryer looking good for years to come.

2. **12 3/4” Wide Grain Columns** for longer air retention and maximum efficiency.

3. **Grain Exchangers** move grain from the inside of the column to the outside for more even moisture content and consistent grain temperature. Solid outer sheeting in the grain exchanger section maintains balanced heat/air distribution in the plenum and helps to avoid blowing large amounts of particulate matter into the atmosphere.

4. **Low Pressure Burner** is aluminum so holes do not rust shut, giving wide operating temperature range, high fuel efficiency, and low emissions.

5. **Industrial Grade In-Line Centrifugal Blowers** quietly provide high airflow even with vacuum cooling.

6. **Louvered Air Vents** allow control over the amount of ambient air being pulled through the grain for cooling.

7. **Unload Rotor, Curved Paddles, and Grain Table** are stainless steel for long life. The paddles sweep grain from the outer columns to the center discharge hopper.

8. **Inverter Rated AC Motor and Positive-Lubricated Gearbox** drive the unload rotor giving variable grain discharge rates.

   - **Unload Rate** is controlled automatically based on grain temperature or moisture. Unload rate can also be manually controlled.

9. **Pipeltrain has Two Standard Safety Shut-Off Valves** that are electronically operated from the touchscreen. The push of a button activates the heater.

   - **Electronic Mod-Valve** heater control maintains a fuel efficient, steady plenum temperature.

   - **Incoming and Outgoing Moisture Sensors** are standard.
Vacuum Cooling Efficiency Advantage

The Sukup Tower Dryer operates in a heat/vacuum cool mode. The blower(s) and burner are located inside the dryer between the heating and cooling chambers, eliminating ducting and leaving more room for the unload area. Air is pulled through the grain at the bottom of the dryer, cooling the grain while heating the air. The air is then pulled into the blowers, through the burner and into the drying chamber. Reclaiming heat from the grain creates greater efficiency because less fuel is required to get the air to drying temperature.

Balanced Moisture Content

Grain enters the top of the dryer through a load system that is controlled by rotary switches that allow choke fill (dryer is kept full of grain all the time) or demand fill (the load system is turned on and off as needed). The grain then flows down the dryer in a 12 1/4" thick column. Drying occurs in the top 2/3 of the dryer with the grain being inverted halfway down the drying section by Grain Exchangers.

Cooling

The grain flows down the column into the cooling chamber (bottom 1/3 of dryer) and spills out onto the stainless steel table of the unload chamber. A large rotor with curved paddles (the only moving part of the dryer) sweeps grain to the center of the dryer and out the discharge hopper.

Simple Operation

The temperature of the air in the drying chamber and the speed of the unload rotor are adjustable. The operator selects a desired drying temperature and the speed of the unload rotor is varied to obtain desired moisture content. If necessary, the unload rotor speed can be adjusted manually.

### Tower Dryer Sizes

<table>
<thead>
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<th>Bu/hr. 20%-15%*</th>
<th>Bu/hr. 25%-15%*</th>
<th>Grain Column</th>
<th>Tower Diameter</th>
<th>Overall Height</th>
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<td>106&quot;</td>
<td>52 0&quot;</td>
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</tbody>
</table>

*Bu/hr. (bushels per hour) listed are wet bushels, No. 2 shelled yellow corn at listed moisture content and are estimates based on drying principles, field results and/or computer simulation at 50° ambient temperature and 60% humidity at 220° F average plenum temperature.

Sukup Manufacturing Co. provides the information contained within this brochure to assist you in choosing the optimal equipment for your situation. Many factors, such as grain variety, maturity levels, grain cleanliness, weather conditions and operation/management, can affect the performance of your equipment and results may vary. This information is calculated and is not a guarantee of product specifications or performance. Based on these factors, Sukup specifications should only be used as estimates, and not as a warranty, expressed or implied, of how a particular Sukup unit will perform under your operating conditions. Because we are continually improving Sukup products, changes may occur that may not be reflected in the specifications.

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The Sukup QuadraTouch™ Pro control system creates:

**EASY START-UP & OPERATION**

**SIMPLE, MENU-DRIVEN SYSTEM**

The Sukup QuadraTouch Pro™ control system, standard on all Sukup Dryers, was designed with simple menus to be easy to use. Operator inputs are simple with a pop-up keypad for entering numbers. The **QuadraTouch Pro™** can be placed up to 200’ away from the dryer using just an Ethernet cable.

**THE QuadraTouch Pro™ is a PLC-BASED SYSTEM.**

The PLC (Programmable Logic Controller) is a rugged controller built to withstand harsh environments and offer superior electrical noise protection, eliminating nuisance shut downs and providing you with a reliable system.

**Two options for REMOTE MONITORING**

Remote Monitoring Software Allows You to View the QuadraTouch™ Pro Screen On Your Computer

You can set up a network on location with dryer or through the internet to view it anywhere and adjust settings including temperature and moisture.

The GSM Phone Modem Works with QuadraTouch™ Pro Controls and Operates Through GSM Cell Phone Service

If the dryer shuts down, the GSM service sends a text message to a predetermined cell phone number, noting the fault. You can also text message the dryer to receive current dryer status, or adjust moisture, unload speed, and plenum temperature settings.
Shallow Center Sump is cast in place and requires less concrete, saving you construction costs. Deeper design is also available. Options available: 16", 24" and 32" square.

Explosion-Proof Motors and industrial grade gear box and bearings for greater safety and durability.

Heavy-Duty Zero-Entry Explosion-Proof Rotating Contact provides power to the sweep. There is no need to enter the bin.

Emergency Stop Button for enhanced safety.

Zero-Entry Automatic Touch Screen Controls allow the pushers’ start and stop points to be user programmed on the touch screen to keep the paddles running efficiently based on a particular situation. In automatic mode, the controller senses chain load and advances the sweep without overloading the chain motor, preventing spinning of the pusher tires, which can cause extra wear. The sweep controls also have a manual mode that allows the operator to control sweep advancement.

Programmable Logic Controller (PLC) provides greater reliability.
COMMERCIAL DRAG CONVEYORS

General Specifications
- **14” and 18”** - 81XHH (2.609” pitch) chain standard.
- **22” and 26”** - WH124 (4.00” pitch) chain standard; upgradable to WH124HD (4.063” pitch).
- **30” and 34”** - WH132 (6.050” pitch) chain standard; upgradable to WH150XHD (6.050” pitch).
- **Dodge Bearings**
  - Head - S2000, Imperial ISAF or USAF500 (Imperial IP option up to 4 15/16”).
  - Other bearing options upon request.
- **Target Chain Speed** - 150 FPM.
- **Hot-Dipped Galvanized** - Head, tail and trough sections are all hot-dipped galvanized.

Head Specifications
- **Sides** - up to 1/4” complete with welded bearing mount.
- **Bearing mounts** horizontally. All head bearings are spherical roller bearings.
- **Upper End Quarter** can be removed allowing shaft/bearing/sprocket to be easily removed.
- **Sprockets** are split design. Chain pitch 6” or greater use hunting (skip) tooth sprockets standard.

Tail Specifications
- **Sides** - up to 3/16” welded.
- **Take-Up Assembly** utilizes a center or top pull, wide-slot bearing design.
- **Tail Shaft** is drilled and tapped for speed switch (1/2 - 13UNC).
- **Sprockets** are split design. Sprocket styles and shielding same as head.

Trough Specifications
- **3-piece design** with a removable bottom.
- **Body Sections** - up to 26” tall are 10 ga. galvanized. Taller sizes - 7 ga. galvanized.
- **Bottoms** - 3/16” (AR200 standard).
  - **OPTIONAL:** 1/4” or 3/8” - AR200 or AR450.
- **Sides** - Up to 7 ga. with welded 1/4” flanges.
- **Side Liners** - 10 ga. bolted in (AR200 standard).
  - **OPTIONAL:** 3/16” or 1/4” - AR200 or AR450; Heavier liners and bottoms available upon request.
- **Replaceable Rail Returns** are equipped with standard 3/16” abrasion resistant cap.
  - Upgradable to 1/4” AR200 (standard) AR450 (optional).
- **Bottoms** are hot-dipped. Liners and rails unpainted.
- **Patented Hip Style Conveyor Covers** provide a weather-tight seal that leaves no area for water to leak into the conveyor.

### Capacities

<table>
<thead>
<tr>
<th>Model</th>
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<th>125</th>
<th>150</th>
<th>175</th>
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<td>49262 BPH</td>
<td>59115 BPH</td>
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</tbody>
</table>
Squaring Plates with Alignment Pins
Our squaring plates with alignment pins (patented) are placed at top and bottom of every section to align trunking and eliminate twisted trunk sections. They make it easy to build square and parallel trunking for hassle-free construction.

Low Impact Head Design
The Sukup bucket elevator head features an innovative controlled design. Instead of the product bouncing off the interior of the head, it slides gently along the contour of the hood. Additionally, the hood is set back from the housing by an inch eliminating the catch point found in other elevators. As a result, product damage and back-legging are minimized; and the need for an internal shroud is eliminated.

Buckets
We use high-density, non-sparking, polyethylene buckets with #3 venting standard. Nylon, Urethane, and steel buckets are optional when using highly abrasive materials. Vented #4 buckets are also available.

Bearing
Sukup utilizes Roller Bearings for head shaft sizes on all commercial legs. Split Roller Bearings come standard on 5 7/16” and larger head shaft sizes.

Belting
Static conductive, Oil resistant, and Fire Retardant (SOFR) rubber belting is standard on all Sukup bucket elevators. We even supply ten extra feet of belting with every order to facilitate any belt-splicing configuration you would like to use.

Heavy Gauge Trunking
12 or 10 ga. trunking units are standard on all elevators with 10,000 bph (or more) capacities.

Bucket Elevators

<table>
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<th>Leg Casing Size</th>
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Squaring Plates Ease Assembly
“The squaring plates made the trunking easy to assemble. Having one end held together with squaring plates made it easy to hold the other end while trying to put an entire section of trunking together. The ladder and rest platforms also assembled easily.”

-Lodermeier’s Inc. Goodhue, MN
Sukup leg support towers are an excellent choice for supporting bucket elevators. Towers eliminate the need for guying cables that clutter your facility and eat up valuable real estate. In addition to providing the vertical support for the elevator legs, the towers can be designed to support bulk weighers, cleaners, and distributors – either inside or outside the tower.

### STANDARD FEATURES
- Hot-dipped galvanized finish.
- Structural ASTM A325 hardware.
- Knock-down design for economical shipping.
- Modules available in 20', 10' and 5' sections.
- Site specific and computer engineered, strength-staged for wind, seismic, cleaner, catwalk and other loads. Robust design based on ASCE 7-05.
- Inverted V-Bracing on 14' x 14' and larger, X-Bracing on 12' x 12' and smaller.

### OPTIONAL FEATURES
- Access bracing to accommodate spouting, catwalks, conveyors, etc.
- Stairs – wrap around or switch back.
- Interior or exterior platform.
- Cast-in-place anchors.
- Lugs for convenient bracing of leg to tower.
- Expanded metal grating.

### Handrail Truss Catwalk
- Welded tubular side construction; bolt in bottom.
- Knock-down design for economical shipping.
- Hot-dipped galvanized finish.
- Standard 2' walkway.
- 4', 5', 6' wide for the SD and HD series catwalks available.
- 4', 5', 6', 7', 8', 9' wide for the XHD and XTD series catwalks available.
- Two-leg and four-leg support towers and support beams available.
- 5', 8', 9', 10', and 20' sections available. Bolt together different combinations of sections to provide overall catwalk lengths in increments of 1', starting at 13'.
- Pocket Connections (patent pending) provide a solid connection and offer more resistance to torsion than current connection methods offered by competitors. (Pictured on right)
Total Customization
The clear span design of Sukup Steel Buildings permits you to adapt the space to your specific needs. The sturdy, rigid frame structure allows plenty of open area to house machinery and equipment, but is easily customizable to add office space. You can get everything you are looking for in a Sukup Steel Building.

Exterior Wall Panels
• 26 ga.
• 36” coverage
• 1 1/4” rib height
• Offered in Galvalume® + and all Sukup standard colors

Standing Seam Roof
The seams on Sukup standing seam roofs (optional) are mechanically rolled in the field to create a 360° double-lock seam. This seam creates a tight, durable, virtually leak-proof seal. Sukup also offers a more economical screw-down roof.

Sukup Buildings Feature:
• Clear span up to 200’ for large open areas.
• Multi-span construction available to reduce cost.
• Purlins, girts and eave struts are pre-punched to ensure a proper fit and speed installation. This translates to lower construction costs.
• Purlins, girts and eave struts are galvanized for long life.
• Sukup wall and roof panels are made from Galvalume® + AZ-55 substrate for extreme corrosion resistance, so they will look good for years to come.
• Choose from twelve exterior and trim colors.