

# COMMERCIAL SOLUTIONS®

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# **COMMERCIAL BINS**



### MILLION BUSHEL BINS

More grain means more bushels, and that means bigger bins. We've answered the call for more storage with our 135', 156', and 165' Commercial Bins. With 1.47 million, 2 million, and 2.25 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

followed by the 156' several years later. The 165' is currently the largest free span bin in the world.

30-ring max height 110' 1" Eave Ht - 154' 3" Peak Ht



### SUKUP<sup>®</sup> 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 nonslip 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 commercial roofs with 15,000, 30,000, 50,000, 100,000, or 150,000 lb. peak load ratings. Roof ratings are based on weight evenly distributed on peak ring as pure vertical peak load with 105 mph wind zone. Along with uniformly distributed roof snow load calculated from 40 psf ground snow zone, as defined by ASCE7-10 Code.
- The strength of the 30,000 lb. and 50,000 lb. Sukup 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.

### DOUBLE-END STUD BOLTS

Double-end stud bolts eliminate water infiltration between laminated sheets & grain.



#### Our 100,000 lb. and 150,000 lb. roofs are constructed of I-beam rafters and an extra-heavy peak ring all manufactured at Sukup using the latest technology. The rafters in the 156' bin are constructed with 65,000 PSI tensile strength I-beams.

2,246,000

165'

155' 7"



#### Commercial Bin Sizes (Other sizes available on request) Dia. Max Peak Heights Max. Capacities Available (Bu.) Max Rings Standard Roof Peak Load (Lbs.) **Optional Roof Peak Load (Lbs.)** 42' 122' 6' 132.900 30 30,000 (5' Peak Lid) 15,000\* (5' Peak Lid) or 50,000 (10' Peak Deck) 30 48' 124' 4" 174.400 30.000 15,000\* (5' Peak Lid) or 50,000 (10' Peak Deck) 126' 2" 221,700 .... 15,000\* (5' Peak Lid) or 50,000 (12' Peak Deck) 54' 30 30.000 128' 1" ..... 60' 275.000 30 30.000 15,000\* (5' Peak Lid) or 50,000 (12' Peak Deck) 30 30,000\* (5' Peak Lid) or 100,000 (16' Peak Deck) 72' 132'1" 399,500 50,000 (16' Peak Deck) 133' 0" 434,500 30 50,000 ..... 30,000\* (5' Peak Lid) or 100,000 (16' Peak Deck) 75' 30,000\* (5' Peak Lid) or 100,000 (16' Peak Deck) 78' 133' 11' 471,000 30 50,000 ..... 137' 8" 90' 632,800 30 100,000 (16' Peak Deck) 30,000\* (5' Peak Lid) 105' 138' 9" 30 100,000 871,000 135' 147' 11" 1,471,600 30 100,000 ..... 156' 152'7" 1,994,900 30 150,000 (21' Peak Deck)

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.

All roofs rated for 105 mph wind zone as defined by ASCE 7-10 code. Roof peak loads meet ASCE 7-10 for unbalanced snow load with 40 psf ground snow load and temperature cables at maximum Sukup quantity. \* Only available up to 24 rings tall

150,000

.....

30

### **1.** 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 are designed for 105 mph wind zones as defined by ASCE7-10.

### 2. 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.



### EASY ACCESS DOORS

### **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.

### 3. COMMERCIAL STIFFENERS

Sukup commercial stiffeners are made from 70,000 PSI minimum tensile strength galvanized steel and are computerengineered 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 (standard) or three (optional) 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 1000hour plating ensures the long life of Sukup Commercial Bins.







- 4. A 44", single-ring door is standard on Sukup Commercial Bins. It features patented Hammer Head™ latches and the inner panels lay flat against the sidewall when open.
- **5.** 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.
- 6. Sukup side draw systems are also an option on Commercial Bins. Discharge capacity approximately 9,000 BPH based on #2 yellow corn.

(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.)







# **HOPPER BINS**

### SUKUP® MEDIUM-DUTY AND HEAVY-DUTY HOPPER BOTTOM BINS

Sukup Hopper 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 and hand wheel extension standard.
- 22" unload outlet has a rack and pinion slide gate and hand wheel extension 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.



## **COMMERCIAL ACCESSORIES**

Patent Number

8,297,016



### 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.

### **CENTRIFUGAL FANS**

- 1750 RPM single inlet fans from 3 100 hp. Dual inlet fans from 30-50 hp.
- Centrifugal Fans offer quiet operation.
- Sukup<sup>®</sup> 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.





### 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.



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.

# **TOWER DRYERS**



- 1 Stainless Steel outer screens, nuts, and bolts resist rust and keep your dryer looking good for years to come.
- 2 12<sup>3/4</sup>" 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 Pipetrain 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 123/4" 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 output. Unload rotor speed is adjusted automatically based on the grain temperature in the bottom of the heat chamber or on the incoming and outgoing moisture content. If necessary, the unload rotor speed can be adjusted manually.

Tower Dryer Sizes															
	U1212	U1512	U1812	U2012	U2412	U2712	U3018	U3518	U4018	U4718	U5024	U6024	U7024	U10030	U12030
Bu/Hr. 20%-15%*	1270	1500	1800	2000	2400	2700	3000	3500	4000	4700	5000	6000	7000	10,000	12,000
Bu/Hr. 25%-15%*	760	900	1080	1200	1440	1620	1800	2100	2400	2820	3000	3600	4200	6000	7200
Grain Column	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"	12.75"
Tower Diameter	10'6"	10'6"	12'0"	12'0"	12'0"	12'0"	18'0"	18'0"	18'0"	18'0"	24'0"	24'0"	24'0"	30'0"	30'0"
Overall Height	50'2"	63'7"	69'	76'	86'	93'	76'	86'	96'	109'	100'	110'	120'	127'	153'

\*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

### The Sukup QuadraTouch<sup>™</sup> Pro control system creates: EASY START-UP & OPERATION



#### SIMPLE, MENU-DRIVEN SYSTEM

The Sukup *QuadraTouch Pro*<sup>™</sup> 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*<sup>™</sup> can be placed up to 200' away from the dryer using just an Ethernet cable.

### THE QuadraTouch Pro<sup>™</sup> 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.

### MYSUKUP REMOTE WEB ACCESS



MySukup allows you to monitor and control your Sukup Dryer from a smart phone, tablet, or PC.

- Dryer shutdown alerts
- View dryer performance charts
- Ability to switch between manual and auto unload control
- Adjust moisture and/or temperature setting
- Shut dryer off remotely
- Set up mulitple users with permission to view only, or view and make changes

Must have Ethernet access at QuadraTouch Pro™ control system to use. Requires yearly license fee. Please note that the dryer cannot be started remotely.

## **ZERO-ENTRY COMMERCIAL SWEEP**







Patent Number 9,327,921

### Heavy-Duty Frame designed to provide

optimal strength to withstand the intense pressure of deep grain depths.

**Industrial Grade** Pushers are equipped with explosion-proof motors and foamfilled tires for safety and durability.

### Patented Pivot

Point allows the sweep to"freefloat" to account for variations in concrete.

Shallow Center Sump – three options available: 16", 24", and 32" square discharge.

**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 pusher's 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).

Patent

Number 8,047,358

Bottoms are hot-dipped. Liners and rails unpainted.

Patented Hip Style Conveyor Covers provide a weathertight seal that leaves no area for water to leak into the conveyor.

	Medel	Chain Speed (FPM)								
	Model	100	125	150	175					
	1214	3432 BPH	4290 BPH	5148 BPH	6005 BPH					
S	2014	5556 BPH	6946 BPH	8335 BPH	9724 BPH					
ш	1618	6724 BPH	8406 BPH	10087 BPH	11768 BPH					
	2018	8185 BPH	10231 BPH	12277 BPH	14323 BPH					
H	2022	10280 BPH	12849 BPH	15419 BPH	17989 BPH					
_	2622	13423 BPH	16779 BPH	20135 BPH	23491 BPH					
υ	2626	16855 BPH	21069 BPH	25283 BPH	29497 BPH					
4	3226	20803 BPH	26003 BPH	31204 BPH	36405 BPH					
Р	3230	24333 BPH	30416 BPH	36499 BPH	42582 BPH					
	3630	27411 BPH	34264 BPH	41116 BPH	47969 BPH					
4	3434	30375 BPH	37969 BPH	45563 BPH	53157 BPH					
U	3834	33989 BPH	42486 BPH	50984 BPH	59481 BPH					
	4434	39410 BPH	49262 BPH	59115 BPH	68967 BPH					



## **BUCKET ELEVATORS**

1

### **1.** Low Impact Head Design

Sukup

60,000 BPH

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.

Bu/Hr	Pulley Dia.	Leg			
	, and y share	Casing Size			
10,000	42"	22" x 14"			
10,000	48"	22" x 14"			
12,000	42"	22" x 14"			
12,000	48"	22" x 14"			
15,000	42"	22" x 14"			
15,000	48"	22" x 14"			
20,000	42"	36" x 14"			
20,000	48"	36" x 14"			
25,000	42"	40" x 14"			
25,000	48"	40" x 14"			
30,000	42"	44" x 14"			
30,000	48"	44" x 14"			
35,000	42"	44" x 14"			
35,000	48"	44" x 14"			
40,000	42"	53" x 14"			
40,000	48"	53" x 14"			
45,000	42"	53" x 14"			
45,000	48"	53" x 14"			
50,000	48"	53" x 16"			



#### Bearings

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.



#### 2. 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.

#### **3.** Belting

Static conductive, oil resistant, and fire retardant (SOFR) rubber belting is standard on all Sukup bucket elevators. We supply ten extra feet of belting with every order to facilitate any beltsplicing configuration you would like to use.

#### **4.** Heavy Gauge Trunking

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



### **Squaring Plates with Alignment Pins**

5 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.



#### 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*

## **SUPPORT TOWERS / CATWALKS**

### LEG SUPPORT TOWERS

Sukup<sup>®</sup> 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.



### **1. 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', and 6' wide for the SD and HD series catwalks available.
- 4',5',6',7',8', and 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'.
- 2. Pocket Connections (patent pending) provide a solid connection and offer more resistance to torsion than current connection methods offered by competitors.





## DRYING, STORAGE, and HANDLING SOLUTIONS®

Sukup Manufacturing Co. is the world's largest family-owned and operated manufacturer of grain storage, drying, and handling equipment. The company is headquartered in America's heartland – Sheffield, Iowa – and covers over one million square feet of office, manufacturing, and warehouse space.

Sukup<sup>®</sup> constantly strives to push the boundaries of innovation and quality and currently holds the record for the world's largest grain bin that holds 2.2 million bushels of corn. The company prides itself on their philanthropic efforts in giving back to local, statewide, and international charities including the design and construction of Safe T Home<sup>®</sup>, a patented structure suitable for recovery efforts.













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