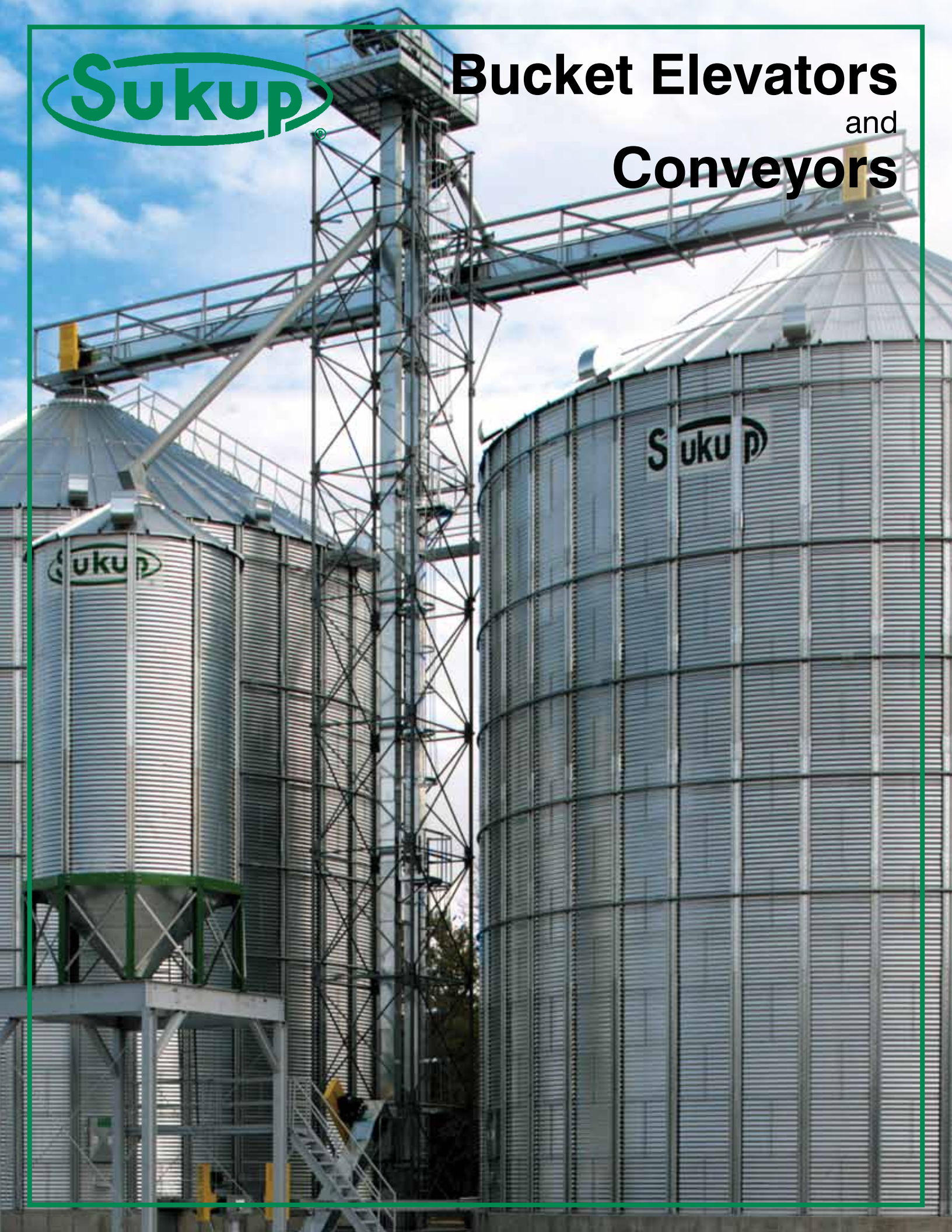




Bucket Elevators and Conveyors



Sukup® Bucket Elevator

Head



- Adjustable throat wiper
- Bearing jack bolts for easy belt alignment
- Interior lip to keep moisture out and dust in
- Split style hood allows for easy interior accessibility
- Expanded metal-back urethane standard on 36" and larger
 - Tapered bushing at pulley to eliminate lateral movement
 - Externally mounted, heavy-duty pillow block bearings
- Lifting Eyes are located on the hood of the elevator to ease hood assembly and removal
- Motor Mount's dual screw adjustment allows you to align motor and belt for longer life. Allows proper belt tensioning while maintaining correct reducer torque arm angle.

Sukup®
Exclusive
Lifting Eyes



Sukup®
Exclusive
Motor Mount

Intermediate



- Dust-tight and weather-tight protection
- Assembly-friendly tie angles
- Inspection section facilitates belt and splice installation
- Sliding view port can be placed in two positions on inspection section
- Heavy welded frame with large removable panels on inspection section
- Built square and parallel for no hassle construction
- Heavy-gauge, huck-bolted or seam-welded units based on application
- Our Patent Pending squaring plates are placed at top and bottom of every section to align trunking and eliminate the nightmare of twisted trunk sections; making assembly easier.



Sukup®
Exclusive
Squaring Plates

Boot



- Head and boot have UHMW seals at shafts
- Head and boot have heavy 1/4" structural frame
- Corrosion resistant Acme screw take-up
- Bolted construction for easy repair and replacement
- Large, easy, tool-free access doors with a unique spring latch
- Large, easy-access clean-out doors with rollers on each end
- Hat section at bottom of clean-out doors to minimize contact with concrete



Sukup®
Exclusive
Access Door



Hoppers... Built to your Specifications

Standard Features

■ Turned, Ground, and Polished Shaft

Sukup utilizes a turned, ground, and polished (TG&P) shaft that allows your entire elevator to run smoothly.

■ Buckets

We use high density, non-sparking, polyethylene buckets. Nylon, Urethane, and Steel buckets are optional when using highly abrasive materials. Vented buckets are also available.



■ Bearings

Ball Bearings come standard on head shaft sizes 3 ⁷/₁₆" and smaller. Sukup utilizes *Roller Bearings* for head shaft sizes 3 ¹⁵/₁₆" and larger. Roller Bearings are optional on all smaller bucket elevators. *Split Roller Bearings* come standard on 5 ⁷/₁₆" and larger head shaft sizes.

Squaring Plates Ease Assembly

"The squaring plates made the trunking easy to assemble. Having one end held together with squaring plates made it really easy to hold the other end while trying to put an entire section of trunking together. The ladder and rest platforms also assembled easily."

-Bryan Blakstad
-Lodermeier's Inc. | Goodhue, MN



■ Low Impact Head Design

The Sukup bucket elevator head is a controlled design. Instead of the product bouncing off the interior of the head, it slides gently along the contour of the hood. Product damage and back-legging are minimized and the need for an internal shroud is eliminated.

■ Crown-Faced Pulley

This comes standard with any bucket elevator. Replaceable slide-lagging is ideal for the feed and grain industry.

■ Belting

Static conductive, Oil resistant, and Fire Retardant (SOFR) rubber belting is standard on all Sukup bucket elevators. Rubber belting has higher bolt retention properties which result in higher maximum bucket projection ratings, and provide maximum oil-based dust suppression additives. Sukup even supplies 10 extra feet of belting with every order to facilitate any belt-splicing configuration you would like to use.



Optional Features

■ Pressure Relief Door

NFPA compliant pressure relief doors come standard on 36" head section and larger. Optional on all others. This feature is also optional on trunking.



■ Winged Pulley

A Winged Pulley is a great option if you are concerned about material collecting on the pulley face.



■ Spiral Winged Pulley

Increased pulley to belt contact over winged pulley. Eliminates noise caused by winged pulleys.

Valving	Ceramic Chip Urethane Lining
Distributors	Bearing and Surface Sensors
Guy Brackets	Belt Misalignment Sensors
Shovel Pockets	Ladder & Cage Assembly
Motion Sensors	Reducer Backstops



■ Gravity Take-Up

Eases overall use of your bucket elevator. Maintains proper belt tension, and reduces maintenance.

■ Head Service Platform

One of the largest in the industry! Increases safety because there is more room to work. Available in 3 different sizes.

■ Distributor Platform

Available in sizes 3x8 ft. and 4x8 ft.



■ Standard and Flared Inlet Hoppers

Also available with optional 10 gauge abrasion-resistant liners.



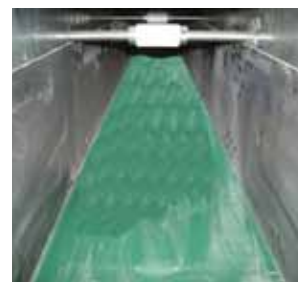
Customized Conveyors

Drag Conveyors



Drag Conveyor Construction

- 11 gauge sides come standard on 9", 13" and 17" head and tail sections. 7 gauge sides come standard on 21" and 25" head and tail sections. All conveyor bodies utilize 11 gauge sides. Conveyor tops are 14 gauge construction. Conveyor bottoms come standard as 7 gauge construction.
- All standard conveyors are galvanized construction.
- Optional abrasion-resistant liners on sides include 10 gauge and $\frac{3}{16}$ ". Bottoms include $\frac{3}{16}$ " and $\frac{1}{4}$ " thickness. Abrasion-resistant bottoms are painted.
- Heavy-duty bearing mounts come in $\frac{1}{4}$ " or $\frac{3}{8}$ " construction.



Abrasion Resistant Liner

Options

End Relief Door - Prevents damage to the conveyor in the event of a discharge plug.

Rail Return - Comes standard on 21" wide or wider conveyors. Optional on 12" and 16" wide conveyors. Manufactured with 7 gauge galvanized construction.

Reversing Feature - This feature can take grain in multiple directions and is a great addition if you are looking to unload into two separate bins.

Inlets - By-pass drive-over hoppers have an adjustable shroud to control flow. By-pass drive-over hoppers with bar grating are available in 6', 8' and 10' lengths. By-pass inlet hoppers are available in 3' and 4' lengths.

Roller Return - These UHMW rollers come standard on 9", 12", and 16" wide conveyors.

Intermediate Discharge Gates - Can act as a separate discharge location from the head and are made up of 7 gauge construction.



End Relief Door

■ Turned, Ground and Polished Shaft

Sukup utilizes a higher precision turned, ground and polished (TG&P) shaft that allows your entire conveyor to run smoothly. All UHMW shaft seals are $\frac{1}{4}$ " thick.

■ Removable Bearing, Sprocket and Shaft

Having a removable bearing, sprocket and shaft saves time. The entire assembly can be removed without having to separate the shaft from the bearings or the sprocket.



Standard Features on Drag

■ Chains and Paddles

Our conveyor chains are engineered for each specific unit and are either roller bushed or welded steel. Chain pitch will vary from 2.609" up to 6.125" with an average ultimate strength of up to 230,000 lbs. UHMW paddles, $\frac{1}{2}$ " thick, eliminate the steel-to-steel contact.



hoppers - Now That's a Solution

Hy-Flight Conveyors

Hy-Flight Conveyor Construction

- Bolted "tongue" to prevent return panel from sagging.
- Optional abrasion-resistant liners on sides include 10 gauge and $\frac{3}{16}$ ". Bottoms include $\frac{3}{16}$ " and $\frac{1}{4}$ " thickness. Abrasion-resistant bottoms are painted.
- Heavy-duty bearing mounts come in $\frac{1}{4}$ " or $\frac{3}{8}$ " construction.
- 11 gauge sides come standard on 13" and 17" head sections. 7 gauge sides come standard on 21" and 25" head sections. All conveyor bodies utilize 11 gauge sides. Conveyor tops are 14 gauge construction. Conveyor bottoms come standard as 7 gauge construction.
- All standard conveyors are galvanized construction.

Options

Modular Curve Section - If a straight incline just won't fit, adding a curve section might do the trick. The curve sections are available from 10° to 50° inclines in 5° increments.

Inlets - By-pass drive-over hoppers have an adjustable shroud to control flow. By-pass drive-over hoppers with bar grating are available in 6', 8' and 10' lengths. By-pass inlet hoppers are available in 3' and 4' lengths.



Modular Curve Section



and Hy-Flight Conveyors



■ Removable Bottom

Moving a lot of grain? We made it easy to replace the worn out bottom without replacing the entire body of the conveyor - an additional feature that can save you both time and money. Consider our standard 7 gauge, or optional $\frac{3}{16}$ " and $\frac{1}{4}$ " abrasion-resistant liners.

■ Cover Clamp

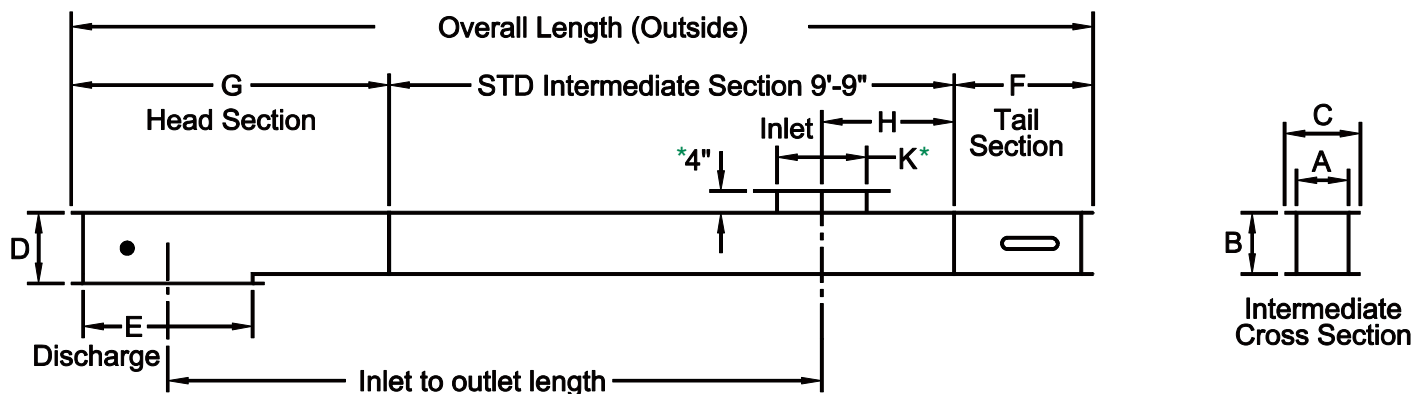
Our cover clamps ensure the cover locks tight to the conveyor body.



■ Conveyor Covers

Our patent pending conveyor covers are exclusive to Sukup and will not be found on competitor's products. Our conveyor cover design reduces the number of tools needed for installation and does not require any sealant at the joints. An added bonus... No water running into your conveyor!

Drag Conveyor Specifications



Model #	Capacities Bu/Hr				Inside Width A	Inside Height B	Overall Width C	Head Height D	Discharge Opening E	Tail Length F	Head Length G	Min. Inlet Distance H	Inlet Length K*
	100 FPM	125 FPM	150 FPM	180 FPM									
909	1352	1691	2029	2434	9 1/2"	9"	12"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
913	2374	2968	3562	4274	9 1/2"	13"	12"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1209	1903	2379	2854	3425	12 1/2"	9"	15 1/2"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1213	3334	4168	5002	6002	12 1/2"	13"	15 1/2"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1217	4829	6036	7244	8693	12 1/2"	17"	15 1/2"	19"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1609	2525	3156	3787	4545	16 1/2"	9"	19 1/2"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1613	4425	5531	6637	7965	16 1/2"	13"	19 1/2"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1617	6408	8010	9612	11,535	16 1/2"	17"	19 1/2"	19"	26"	37 1/2"	61 1/2"	17 1/4"	24"
1621	8472	10,590	12,708	15,249	16 1/2"	21"	19 1/2"	23"	36"	71 1/2"	71 1/2"	17 1/4"	24"
2109	3225	4031	4837	5805	21"	9"	24"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
2113	5651	7064	8477	10,173	21"	13"	24"	15"	26"	37 1/2"	61 1/2"	17 1/4"	24"
2117	8185	10,231	12,277	14,733	21"	17"	24"	19"	26"	37 1/2"	61 1/2"	17 1/4"	24"
2121	10,820	13,526	16,231	19,477	21"	21"	24"	23"	36"	71 1/2"	71 1/2"	17 1/4"	24"
2125	14,118	17,647	21,176	25,412	21"	25"	24"	27"	36"	71 1/2"	71 1/2"	17 1/4"	24"
2717	10,555	13,193	15,832	18,999	27"	17"	30"	19"	26"	37 1/2"	61 1/2"	19"	27"
2721	13,953	17,441	20,930	25,116	27"	21"	30"	23"	36"	71 1/2"	71 1/2"	19"	27"
2725	18,204	22,756	27,307	32,768	27"	25"	30"	27"	36"	71 1/2"	71 1/2"	19"	27"
3317	12,924	16,155	19,387	23,264	33"	17"	36"	19"	26"	37 1/2"	61 1/2"	19"	30"
3321	17,086	21,357	25,628	30,754	33"	21"	36"	23"	36"	71 1/2"	71 1/2"	19"	30"
3325	22,291	27,864	33,437	40,124	33"	25"	36"	27"	36"	71 1/2"	71 1/2"	19"	30"

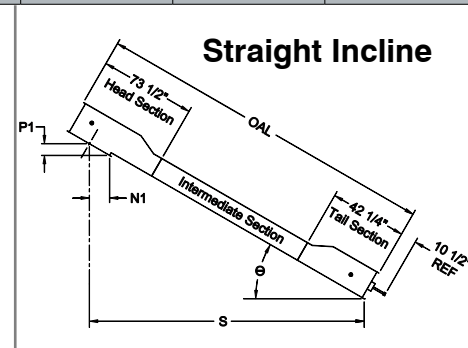
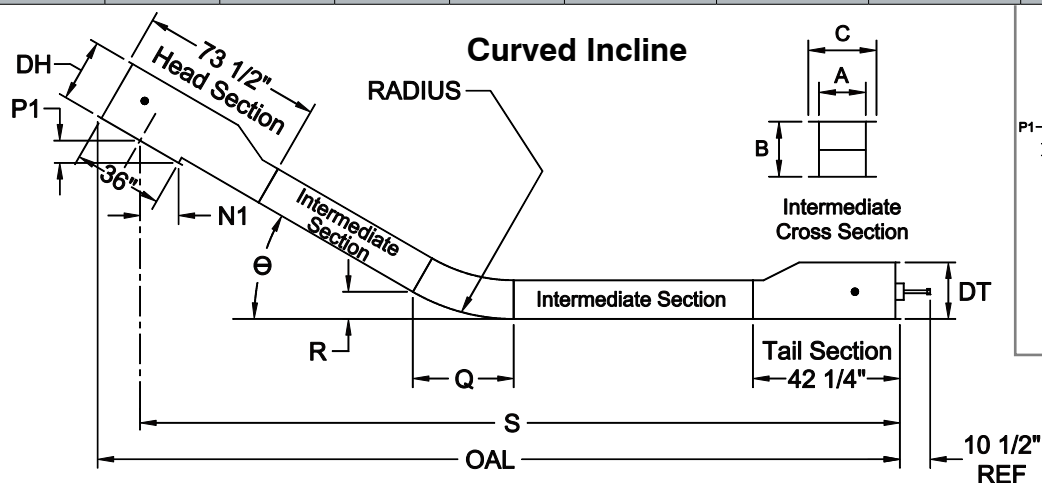
All 9" conveyors have tapered head sections.

* Contact Sukup Manufacturing for dimensional information on other styles of inlets.



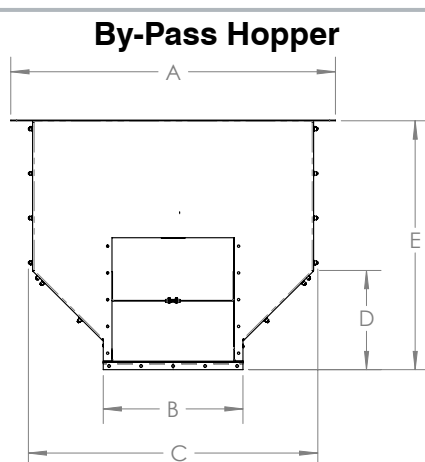
Hy-Flight Conveyor Specifications

Model #	Capacities Bu/Hr				Inside Width A	Inside Height B	Overall Width C	Head Height DH	Tail Height DT	Radius
	100 FPM	125 FPM	150 FPM	180 FPM						
HF1213	2176	2719	3263	3916	12 1/2"	14 1/2"	15 1/2"	20 3/4"	18 1/2"	68"
HF1613	2887	3609	4331	5197	16 1/2"	14 1/2"	19 1/2"	20 3/4"	18 1/2"	68"
HF1617	3811	4764	5716	6860	16 1/2"	18 1/2"	19 1/2"	24 3/4"	22 1/2"	68"
HF2117	4867	6084	7301	8761	21"	18 1/2"	24"	24 3/4"	22 1/2"	68"
HF2121	6047	7559	9071	10,885	21"	22 1/2"	24"	28 3/4"	27"	68"
HF2721	7798	9747	11,697	14,036	27"	22 1/2"	30"	28 3/4"	27"	84"
HF3321	9548	11,935	14,322	17,186	33"	22 1/2"	36"	28 3/4"	27"	84"
HF3325	11,411	14,264	17,116	20,540	33"	26 1/2"	36"	32 3/4"	31"	84"



Slope	P1	N1	68" Radius		84" Radius	
			Q	R	Q	R
10°	3 1/8"	17 3/4"	11 13/16"	1"	14 9/16"	1 1/4"
15°	4 11/16"	17 3/8"	17 5/8"	2 5/16"	21 3/4"	2 7/8"
20°	6 3/16"	16 15/16"	23 1/4"	4 1/8"	28 3/4"	5 1/16"
25°	7 5/8"	16 5/16"	28 3/4"	6 3/8"	35 1/2"	7 7/8"
30°	9"	15 5/16"	34"	9 1/8"	42"	11 1/4"
35°	10 5/16"	14 3/4"	39"	12 5/16"	48 3/16"	15 3/16"
40°	11 9/16"	13 13/16"	43 11/16"	15 15/16"	54"	19 5/8"
45°	12 3/4"	12 3/4"	48 1/16"	19 15/16"	59 3/8"	24 5/8"
50°	13 13/16"	11 9/16"	52 1/16"	24 1/4"	64 3/8"	30"

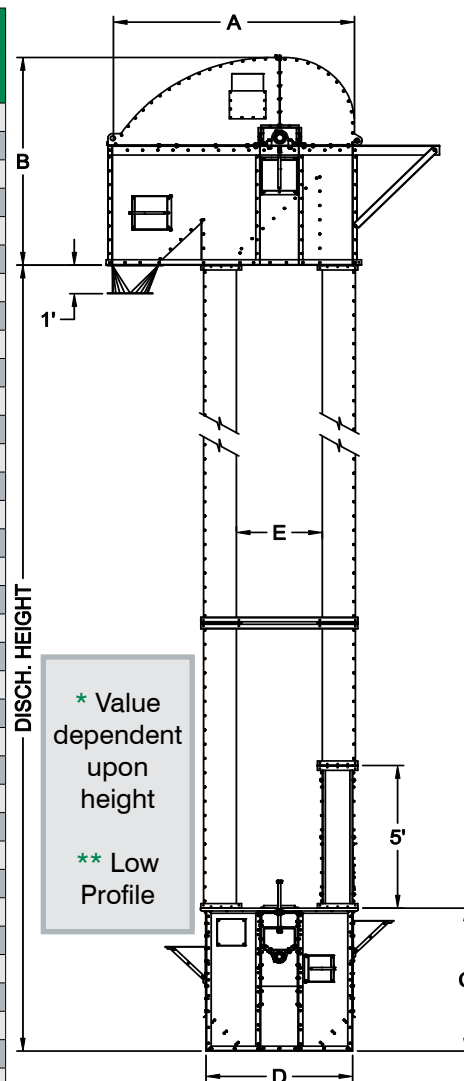
Model #	By-Pass Hopper w/ Drive-Over Grating Available Lengths of 6', 8', and 10'				
	A	B	C	D	E
1213	55 3/4"	15 1/2"	49 11/16"	21 1/4"	42 7/16"
1613	55 3/4"	19 1/2"	49 11/16"	19 1/8"	42 7/16"
1617	55 3/4"	19 1/2"	49 3/4"	19 1/8"	42 7/16"
2117	55 3/4"	24"	49 11/16"	16 15/16"	42 7/16"
2121	55 3/4"	24"	49 11/16"	16 15/16"	42 7/16"
2721	55 3/4"	30"	49 3/4"	13 15/16"	42 7/16"
3321	67 3/4"	36 1/2"	61 3/4"	19 1/8"	54 1/2"
3325	67 3/4"	36 1/2"	61 3/4"	17"	54 1/2"



Model #	By-Pass Inlets Available Lengths of 3', and 4'				
	A	B	C	D	E
1213	44"	15 1/2"	38"	15 3/8"	27 1/2"
1613	44"	19 1/2"	38"	13 1/2"	27 1/2"
1617	44"	19 1/2"	38"	13 1/2"	31 1/2"
2117	44"	24"	38"	11 1/4"	33 1/2"
2121	44"	24"	38"	11 1/4"	37 1/2"
2721	44"	30 1/2"	38"	11 1/4"	41 1/2"
3321	56"	36 1/2"	50"	17 1/4"	44 1/2"
3325	56"	36 1/2"	50"	17 1/4"	46 1/2"

Bucket Elevator Specifications

Pulley Diameter	Bu/Hr	Bucket		Pulley RPM	Belt Speed (FPM)	Head Shaft*
		Size	Spacing			
24"	1500	9x5"	8 1/2"	59	371	2 3/16"
24"	2000	9x6"	9"	59	371	2 3/16"
24"	2500	9x6"	8"	64	402	2 7/16"
24"	3000	9x6"	7"	67	421	2 7/16"
24"	3500	9x6" LP**	6"	70	440	2 7/16"
24"	4000	9x6" LP**	5"	67	421	2 7/16"
24"	4500	9x6" LP**	5"	69	434	2 7/16"
24"	5000	9x6" LP**	5"	77	484	2 7/16"
30"	4000	12x6"	9"	67	526	2 7/16"
30"	4500	12x7"	9"	57	448	2 7/16"
30"	5000	12x7"	9"	64	503	2 7/16"
30"	5500	13x7"	9"	61	476	2 7/16"
30"	6000	13x7"	9"	66	518	2 7/16"
30"	6500	13x7"	8"	64	503	2 7/16"
30"	7000	13x7"	8"	68	534	2 7/16"
30"	7500	14x7"	8"	69	542	2 7/16"
36"	6000	13x7"	9"	55	518	2 7/16"
36"	6500	13x7"	9"	60	565	2 7/16"
36"	7000	13x7"	8"	57	537	2 7/16"
36"	8000	14x7"	8"	62	584	2 15/16"
36"	9000	13x7" LP**	6"	58	547	2 15/16"
36"	10,000	13x7" LP**	6"	64	603	2 15/16"
42"	8000	14x7"	9"	59	649	3 7/16"
42"	9000	14x7"	8"	59	649	3 7/16"
42"	10,000	16x7"	8"	58	638	3 7/16"
42"	11,000	16x7"	8"	62	682	3 7/16"
42"	12,000	16x8"	10"	58	638	3 7/16"
42"	13,000	16x8"	9"	57	627	3 7/16"
42"	14,000	16x8"	9"	61	671	3 7/16"
42"	15,000	18x8"	9"	58	638	3 7/16"
48"	15,000	18x8"	10"	56	704	3 7/16"
48"	20,000	(2) 12x8"	10"	57	716	3 15/16"
48"	25,000	(2) 16x8"	10 1/2"	56	704	4 7/16"
48"	30,000	(2) 18x8"	10"	56	704	4 7/16"
48"	40,000	(3) 16x8"	10"	56	704	4 15/16"
48"	50,000	(3) 20x8"	10"	56	704	5 7/16"



Pulley Diameter	Bu/Hr	Head Gauge	Hood Gauge	Boot Shaft*	Boot Gauge	Trunking Gauge	Trunking Size	Nominal Dimensions				
								A	B	C	D	E
24"	All	12ga	14ga	1 7/16"	10ga	14ga	13x10"	66"	60"	60"	43"	23"
30"	All	8ga	12ga	1 15/16"	10ga	14ga	18x12"	83"	75"	60"	52"	28"
36"	All	8ga	12ga	2 3/16"	10ga	14ga	18x12"	96"	88"	60"	58"	34"
42"	All	8ga	12ga	2 7/16"	7ga	12ga	22x14"	108"	101"	72"	68"	40"
48"	15,000	8ga	12ga	2 7/16"	7ga	12ga	22x14"	120"	110"	72"	74"	46"
48"	20,000	8ga	12ga	2 7/16"	1/4"	12ga	32x14"	120"	110"	72"	74"	46"
48"	25,000	8ga	12ga	2 15/16"	1/4"	12ga	40x14"	120"	110"	72"	74"	46"
48"	30,000	8ga	12ga	2 15/16"	1/4"	12ga	44x14"	120"	110"	72"	74"	46"
48"	40,000	8ga	12ga	3 7/16"	1/4"	12ga	58x14"	120"	110"	72"	74"	46"
48"	50,000	8ga	12ga	3 7/16"	1/4"	12ga	70x14"	120"	110"	72"	74"	46"

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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