

FARM BIN UNLOADING

SWEEPS AND UNLOADS



GENTLE AND EFFICIENT

**DIRECT-GEAR-DRIVE SWEEP / CARRY-IN SWEEP / U-TROUGH
CHAIN LOOP & UBC POWER SWEEP / PADDLE SWEEPS
UNDER-BIN CHAIN CONVEYOR / AUGER UNLOADS**



Take control.



FARM BIN SWEEP AND UNLOAD OVERVIEW

Whether you are emptying a single bin or on the fifth turn of that bin this year, you need to move your grain gently and efficiently. GSI's unloads are hard at work on farms and grain elevators around the world.

	MODEL / AUGER SIZE	APPROXIMATE CAPACITY	BIN DIAMETER
DIRECT-GEAR-DRIVE SWEEP	8"	1,500 - 2,500 BPH	15' - 48'
	10"	2,000 - 5,000 BPH	24' - 72'
CHAIN LOOP POWER SWEEP	8"	up to 4,500 BPH	24' - 72'
	10"	up to 4,500 BPH	24' - 72'
	12"	up to 4,500 BPH	24' - 72'
STANDARD CARRY-IN SWEEP	6"-8"	up to 2,250 BPH	15' - 42'
	10"	2,250 BPH	24' - 48'
U-TROUGH	7.25"	5,000 - 7,500 BPH	15' - 78'
	8.25"	5,000 - 7,500 BPH	30' - 78'
PADDLE SWEEPS	Direct-Gear-Drive	up to 5,000 BPH	15' - 66'
	Farm Duty Interceptor	1,000 - 5,500 BPH	15' - 60'
UNDER-BIN CHAIN CONVEYOR	12" x 12" Conveyor	up to 10,000 BPH	24'-90'
	16" x 12" Conveyor	up to 10,000 BPH	24'-90'
	21" x 12" Conveyor	up to 10,000 BPH	24'-90'

DIRECT GEAR DRIVE SWEEPS



Direct Gear Drive power sweeps feature new center and intermediate well designs, heavy-duty gearboxes, single piece back-shield assembly and redesigned end-wheel. With fewer moving parts, GSI Direct Gear Drive power sweeps are now more durable, reliable and easier to maintain than ever. Direct gear drive power sweeps are available in 8" (up to 48' dia. bins) and 10" (24' to 72') models, and are permanently installed and ready to start up with the flip of a switch.



CENTER AND INTERMEDIATE WELLS

Unload tube bolts directly onto the center well for easy install. Intermediate wells use rods instead of wire mesh for better flow. Auxiliary well control rod is standard. Steel roller bearings allow smooth gate operation.



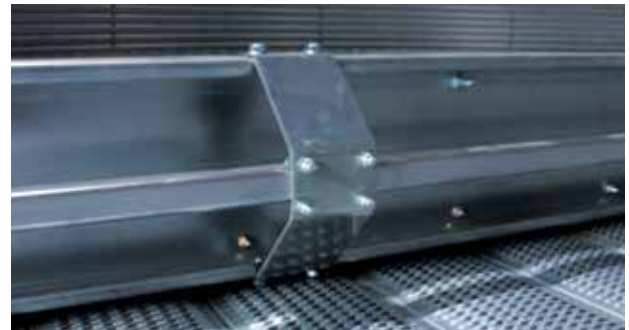
RACK-AND-PINION CONTROLS

Simplified sweep engagement with a band on control handle, with pin for locking position. Separate control pipes for center and intermediate wells and crank handle make opening and closing gates easy.



HEAVY-DUTY COMMERCIAL GRADE GEARBOX

Proven internal clutch mechanism and aluminum housing ensures reliability and durability. Separate upper and lower gearboxes are joined with a coupler for easy maintenance and service.



BACK-SHIELD

A telescoping back-shield eliminates the need for shorter sweeps. Torque tube runs the entire length for superior rigidity. The rubber wiper can be adjusted closer to the floor for improved clean-out.

CHAIN LOOP POWER SWEEP



A Direct Gear Drive Sweep for use with chain loop systems. This sweep utilizes many of the same great features and components of GSI's Direct Gear Drive Power Sweep.

This sweep is available with a 9" sweep auger and 8", 10" and 12" unloads. Sized for 24'-72' diameter bins, with capacities up to approximately 4,500 BPH.



GEAR DRIVE

The Chain Loop Power Sweep is powered independently of the chain loop system via a 90 degree chain driven gear drive.



WHEEL

Proven drive wheel design provides aggressive sweep action, advancing the sweep into the grain in even the most challenging conditions.



DURA-EDGE® FLIGHTING

All Direct Gear Drive Sweeps are equipped with heavy-duty 7-gauge Dura-Edge® Flighting which lasts 30% longer than regular flighting. An improved wear option is also available.

STANDARD CARRY-IN SWEEPS

THE POWER OF **VERSATILITY**

Our removable bin sweep gives you the versatility to easily move the entire unit from one bin to another. Standard carry-in bin sweeps are available in 6", 8" and 10" sizes, and can be used in bins ranging in diameter from 15' to 48'. Torque tube and back shield adjust for close-floor clearance for maximum clean-out. Bins 30' or larger include an intermediate bearing to help stabilize the sweep flight.



RACK-AND-PINION CONTROLS
Separate control pipes for center and intermediate wells and crank handle make opening and closing gates easy. Standard on 8" and 10".

DURA-EDGE® FLIGHTING
Standard on Carry-In sweeps 8" and up. Heavy-duty 7-gauge Dura-Edge® flighting lasts 30% longer than regular flighting.

TUBE & WELL UNLOAD KITS
GSI Tube & Well Unload Kits feature a newly designed center well for improved durability and reliability. The center well is able to accommodate carry-in sweeps.

From the center well out to the bin wall they use the same tube, intermediate well, controls, and auger as GSI's line of Direct-Gear-Drive sweeps.

Available in 8" for 15'-48' diameter bins and 10" for 24'-72' diameter bins.



CENTER WELLS
All wells are powder-coat finished for extended life.
[Tube & Well center well shown]



INTERMEDIATE WELLS
Carry-In intermediate wells use steel bearing rollers, include a band-on well and can be paired with a 12" floor.

U-TROUGH



U-Trough's open design allows pressure relief as grain moves through the trough. This design reduces the chance of grain cracking or damage.



Available for bins up to 78' dia., the U-Trough fits under standard 12" floors, as well as most other aeration floors. It features an adjustable flight for expansion to the outer wall, dual-action sweep wheels move the unloader through grain while sweeping outer sidewall grain, and is designed to help sustain grain quality.



RACK-AND-PINION CONTROLS

Rack-and-pinion gate controls are standard on U-Trough unloads. Optional air or electric gate openers available. Gearbox shifter engages the sweep from outside the bin.



SWEEP DRIVE OPTIONS

Gearbox sweep drive features an enclosed shifting mechanism with no chains in the gearbox. One motor drives the unload and sweep from outside the bin.



ELECTRIC POWER HEADS

Feature a quick detach motor mount and over-center belt tensioner. Rubber gasket on the belt guard maintains tube pressure for positive airflow seal. Incline elbows are available.

POWER AND PERFORMANCE

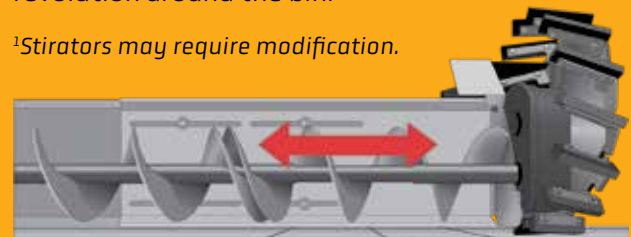
Drive wheel (patent pending) sweeps grain from the bin wall as it propels the unloader. The sweep wheel utilizes a speed reduction gear which adjusts speed of the wheel [40-1] to better control unload at the sidewall.



FLEXIBILITY AND CONVENIENCE

The sweep length is adjustable to accommodate various bin sizes. Standard size U-Trough sweep is 7.25". A sweep stop¹ can be controlled from outside the bin to limit the sweep to one revolution around the bin.

¹Stirators may require modification.



PADDLE SWEEPS

DIRECT GEAR DRIVE POWER SWEEP

Designed for 15'-66' dia. bins. Capacities up to 5,000 BPH.

- Sweep powered from bin unload or external motor in some cases.
- Heavy-duty paddle chain and explosion proof motor.
- Rubber drag helps clean the floor for minimal sweeping.
- Designed to be fully submersed in grain and can unbury itself from an avalanche.
- Does not plug or stall when overrunning the sweep.



FARM DUTY INTERCEPTOR

For 15'-60' dia. bins with no existing power or screw conveyor unload. Gently and evenly unloads up to 5,500 BPH.

- Drive is paddle chain driven with no added power source needed.
- Heavy-duty paddle chain and explosion proof motor.
- Rubber drag helps clean the floor for minimal sweeping.
- Designed to be fully submersed in grain and can unbury itself from an avalanche.



UNDER-BIN CHAIN CONVEYOR



The GSI Under-Bin Chain Conveyor is a gentler, more durable solution for unloading. Designed to be fully integrated into bins from 24' to 90' diameter with full-floor aeration.

Compatible with Most GSI Sweeps

**Conveyor Size Options:
12"x12" (up to 72' bins) , 16"x12" , 21"x12"**

Capacities from 3,000 to 10,000 BPH

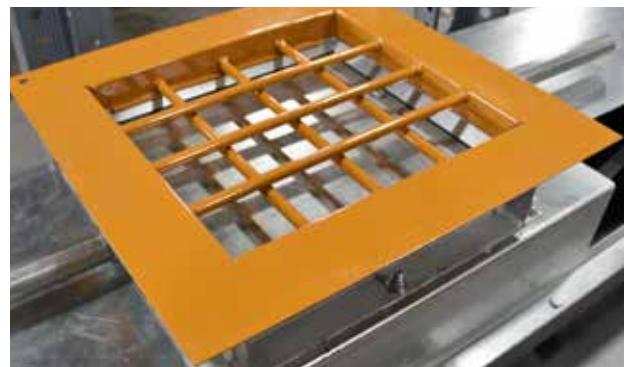
Enclosed Shaft and Bearings for Safe Operation

Fits under Aeration Floor



HEAD AND TAIL SECTIONS

Head and tail sections can be extended to fit your application. The Under-Bin Chain Conveyor can also be configured to "daisy chain" between two bins. Bend sections available from 15 to 60 degrees.



CENTER AND INTERMEDIATE WELLS

Center and intermediate wells are pre-plumbed at the factory for quicker and accurate installation.

UNLOAD OPTIONS



HORIZONTAL

- Available in 8" and 10" sizes
- Standard units are offered in 1, 2 or 3 belt drives
- Commercial units are offered in 2, 3 or 4 belt drives
- Improved wear option [AR flighting] available



VERTICAL

- On bins 48' dia. and smaller, our 16'6" standard vertical makes it easier to discharge directly into a truck, trailer or mill
- Double flighting on the intake auger
- 16'6" tall commercial double drive vertical can be used on 24'-120' diameter bins



25 DEGREE INCLINE

- Available in 8" to 10", or 10" to 12"
- Inclines have a 2, 3 or 4 belt drive and include an adjustable support stand
- Optional wheel kit can be attached to make unit portable
- Improved wear option [AR flighting] available

POWER HEADS

Choose a vertical, horizontal, or 25 degree discharge to make it easier to discharge directly into a truck, trailer or other equipment with a power head discharge at the angle that is right for your operation.

Features

- Remove flighting without removing the power head for easy maintenance
- Single-threaded adjustment rod to easily tighten belts
- Removable hinged motor plate
- Removable bearing plate
- Steel belt guard with vertical removal
- Standard unload and direct gear drive sweeps utilize the same drive
- 12" commercial horizontal without reducer



Remove flighting without removing power head for hassle free maintenance.

BIN FLOOR SYSTEMS



CUT-LOK FLOOR

GSI's Cut-Lok floor employs a traditional 7" plank width and crowned panel design to provide a cost-effective yet highly capable aeration floor. Lanced perforations provide a 12% open area, ensuring maximum airflow.

Grandstand Supports

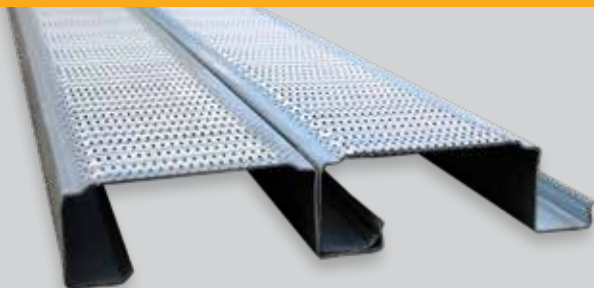
A tried-and-true design, GSI's Grandstand supports are stamped from structural-grade galvanized steel for superior strength and long service life. GSI Grandstand supports are paired with the Cut-Lok floor plank.

DURA-LOK FD FLOOR

Dura-Lok FD features the same high-performance sectional profile as Dura-Lok HD in a 22 ga. material to deliver a cost-effective solution for on-farm bins. The flat-top planks are easy to sweep. Perforation options include .094" [standard], and .050" [small grain].

Grandstand FD Supports

Designed to pair with Dura-Lok FD, providing an installer-friendly design. Drawing upon the design of our Grandstand supports, the Grandstand FD has an added notch to support the 3.5" plank profile of Dura-Lok FD.



DURA-LOK HD FLOOR

Galvanized 3.5" sections and double-plank design create a strong and stable floor. All splices are located under the flat-top floor to ensure a smooth surface for sweeping. A unique locking system reduces movement. Perforation options include .094" [standard], and .050" [small grain]. For both full and flush floor applications.

Monorail Supports

Galvanized Monorail supports offer a simple snap-together design that offers extreme strength and pairs with our most capable Dura-Lok HD plank for demanding applications.

DIRECT-GEAR-DRIVE SPECIFICATIONS

UNLOAD AUGER DIA.	BIN DIA.	SWEEP FLIGHT DIAMETER	SWEEP FLIGHT SPEED	UNLOAD CAPACITY
8"	15'	5" or 7"	260 RPM	1,500 - 2,500 BPH ¹
	18'			
	21'			
	24'			
	27'			
	30'			
	33'			
	36'			
	42'			
	48'			
10"	24'	7" or 9"	285/230 RPM ²	2,000 - 5,000 BPH ¹
	27'			
	30'			
	33'			
	36'			
	42'			
	48'			
	54'			
	60'			
	72'			

1 - Capacities are approximate and may vary depending on unload power head. All capacities are based on dry free flowing grain.

2 - Dependent on sweep flight diameter.

CHAIN LOOP POWER SWEEP SPECIFICATIONS

UNLOAD AUGER DIA.	BIN DIA.	SWEEP FLIGHT DIAMETER	SWEEP FLIGHT SPEED	UNLOAD CAPACITY
8"	24'	9"	260 RPM	up to 4,500 BPH ¹
	27'			
	30'			
	33'			
	36'			
	42'			
	48'			
	54'			
	60'			
	72'			
10"	24'	9"	285 RPM	up to 4,500 BPH ¹
	27'			
	30'			
	33'			
	36'			
	42'			
	48'			
	54'			
	60'			
	72'			
12"	24'	9"	285 RPM	up to 4,500 BPH ¹
	27'			
	30'			
	33'			
	36'			
	42'			
	48'			
	54'			
	60'			
	72'			

1 – Capacities are approximate and may vary depending on unload power head. All capacities are based on dry free flowing grain.

2 – Dependent on sweep flight diameter.

STANDARD CARRY-IN SWEEP SPECIFICATIONS

UNLOAD AUGER DIA.	BIN DIA.	SWEEP FLIGHT DIAMETER	SWEEP FLIGHT SPEED	UNLOAD CAPACITY
6" - 8"	15'	5"	369, 438, 525 RPM ²	up to 2,250 BPH ¹
	18'			
	21'			
	24'			
	27'			
	30'			
	33'			
	36'			
10"	42'	7"	438 RPM ²	2,250 BPH ¹
	24'			
	27'			
	30'			
	33'			
	36'			
	42'			
48'				

POWER HEADS - UNLOAD CAPACITIES (BPH)

	8"	10"	12"
Vertical	NA	3750	5000
Horizontal	2500	4000	NA
	8"-10"	10"-12"	NA
25° Incline	2000	4000	NA

1 - Capacities are approximate and are dependent upon the motor sheave selection. All capacities are based on dry free flowing grain.

2 - Flight Speed dependent upon motor sheave selection.

U-TROUGH SPECIFICATIONS

SWEEP FLIGHT DIA.	BIN DIA.	HP FOR DRIVE UNIT STYLE	
		HORIZONTAL	INCLINE
7.25"	15'	5	7.5
	18'	5	7.5
	21'	5	7.5
	24'	7.5	7.5
	27'	7.5	10
	30'	7.5	10
	33'	7.5	10
	36'	10	10
	42'	10	10
	48'	15	15
	54'	15	20
	60'	20	20
78'	25	25	
8.25"	30'	7.5	10
	33'	7.5	10
	36'	10	10
	42'	10	10
	48'	15	15
	54'	15	20
	60'	20	20
78'	25	25	

All U-Trough unload systems 9" unload flight in a 11" trough. Capacities may vary depending on grain type and condition.

PADDLE SWEEP SPECIFICATIONS

DIRECT GEAR DRIVE

BIN DIA.	BPH					
15'-66'	1,000 BPH	1,500 BPH	2,000 BPH	2,750 BPH	4,000 BPH	5,000 BPH

FARM DUTY INTERCEPTOR

BIN DIA.	BPH					
15'-60'	1,000 BPH	1,500 BPH	2,000 BPH	2,750 BPH	4,000 BPH	5,500 BPH

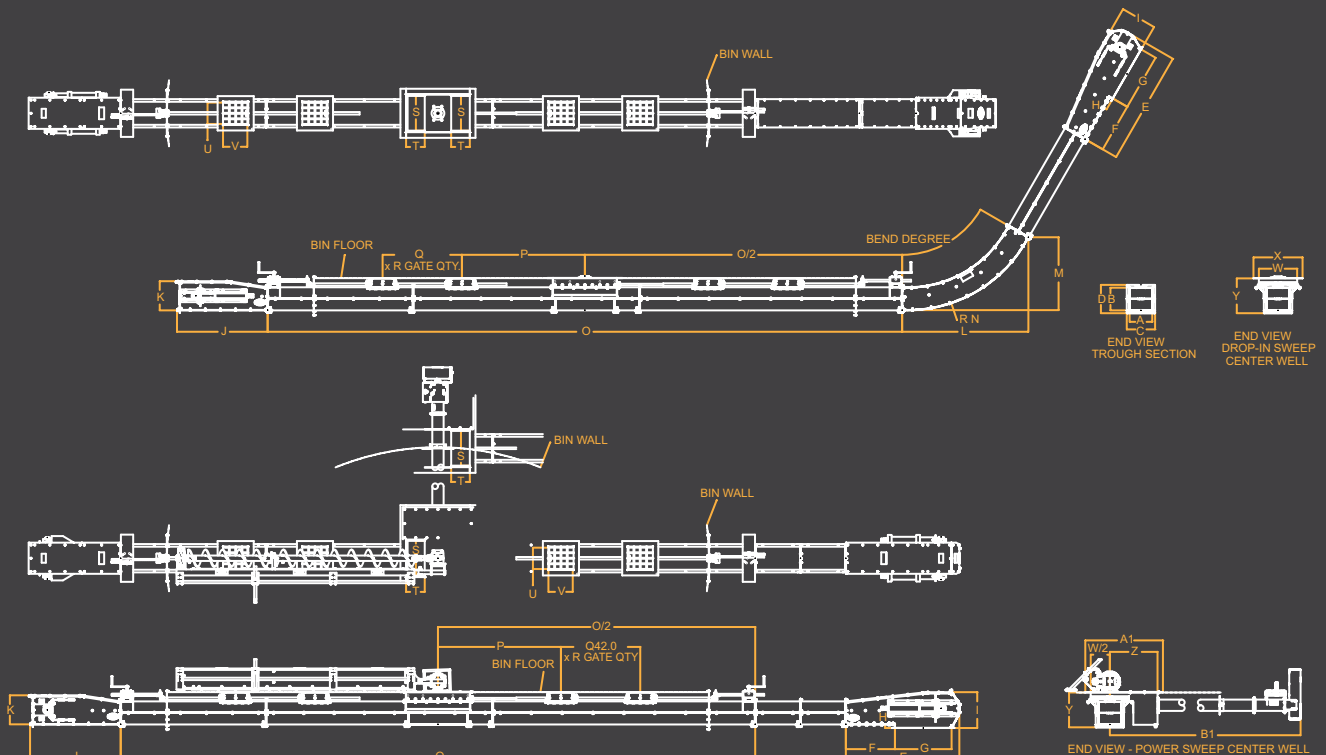
Capacities based on dry, free flowing, grain.

UNDER-BIN CHAIN CONVEYOR SPECIFICATIONS

DIMENSIONS SIZE (WxH)	TROUGH				HEAD					TAIL	
	A	B	C	D	E	F	G	H	I	J	K
12" x 12"	12	12	15	15	60	26	30	2	19	48	15.5
16" x 12"	16	12	19	15	60	26	30	2	19	48	15.5
21" x 12"	21	12	24	15	60	26	30	2	19	48	15.5

BEND DEGREE	L	M	N
15°	24.5	3.2	72.0
22.5°	33.3	6.6	72.0
30°	41.6	11.1	72.0
37.5°	49.2	16.7	72.0
45°	56.0	23.2	72.0
60°	66.9	38.6	72.0

BIN DIA.	DIMENSIONS INSIDE BIN								SWEEP COMMON			POWER SWEEP ONLY		
	O	P	Q	R	S	T	U	V	W	X	Y	Z	A1	B1
24'	336	65.1	42	4	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	185.8
27'	372	65.1	60	4	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	203.8
30'	408	65.1	60	4	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	221.8
33'	444	65.1	42	6	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	239.8
36'	480	65.1	60	6	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	257.8
42'	552	65.1	54	8	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	293.8
48'	624	65.1	62	8	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	329.8
54'	696	65.1	66	8	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	365.8
60'	768	65.1	66	10	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	401.8
66'	840	65.1	60	12	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	437.8
72'	912	65.1	60	12	18.4	9.9	11.3	11.4	20.3	26	18.4	25.3	41.1	474.3
75'	948	65.1	Varies	12	18.4	9.9	11.3	11.4	20.3	26	18.4	NA	NA	NA
78'	984	65.1	Varies	12	18.4	9.9	11.3	11.4	20.3	26	18.4	NA	NA	NA
90'	1128	65.1	Varies	12	18.4	9.9	11.3	11.4	20.3	26	18.4	NA	NA	NA





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