

**WALINGA**<sup>®</sup>  
INC.

**ENGINEERED  
TRANSPORTATION  
EQUIPMENT**

SERVING THE FEED INDUSTRY SINCE 1954

**WALINGA**<sup>®</sup>  
INC.



## Walinga Bulk-Feed Discharge Systems

Throughout our history of manufacturing bulk feed equipment we have realized the importance of manufacturing equipment that is engineered and built for the customer's specific needs. Established in 1954 as a small manufacturing firm with the slogan, "Building any Body for any body" **Walinga** has grown to be a company that thrives on answering the special requests of its customers. From the fully extruded base on the Ultra-Lite tanks to the moveable

dividers in the combination Bag-Bulk units, and numerous variations in between, you will be able to see the dedication to understanding the customer's needs. Even though, from a distance, a feed truck looks like a feed truck, you will notice that once you step up to it there are a lot of things that can be and are different. The intention of this brochure is to point out these differences, to help you see that there are many options available to help you.



# STANDARD FEATURES

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## DUST COLLECTOR



Another exclusive WALINGA product is the patented dust collector which is specifically designed and engineered to remove abrasive dust from the airstream before it reaches the blower, extending blower life even further.

## PTO



Where transmission permits, WALINGA uses only extra heavy duty 6-bolt PTO's as standard equipment and we always use the extra heavy duty tubular driveshaft which has a diameter of three inches.



## PTO

The 8-bolt PTO is part of the standard equipment Suction or Transfer package. This PTO is two and a half times stronger than the standard 6-bolt PTO, assuring long life and trouble free service.

## H.D. HYDRAULIC MOTOR/ MOLASSES KIT



WALINGA provides a special, extra heavy duty Hydraulic motor with the molasses kit. This motor has a maximum torque rating which is about double that of the standard motor. Extra power is needed to overcome the drag problem caused by sticky molasses.



Walinga Auger Discharge System



For fast and reliable bulk discharge, specify the WALINGA 9-12-9 in. discharge auger system. Helicoid flighting is standard, ribbon flighting is available as an option. The discharge auger/boom can be supplied in variable lengths to 42ft. (12.8m) to suit bin height. Lift and rotation are hydraulic powered and controls are located at the rear of the unit.

## FLOOR AUGER

The Walinga design employs a 9 in. (23cm) dia. floor auger with helicoid flighting on a 2-1/2 in. (63mm) dia. shaft. Direct drive, by a heavy duty, spring mounted high torque hydraulic motor incorporates autic surge overload protection that controls the speed of the floor auger relative to the speed of the discharge augers. The design includes a heavy duty thrust bearing on the drive end and hanger bearing at the discharge end. A plastic liner in the auger pan is supplied, to provide a tighter fit between auger and trough.

## STINGER/BOOM

The rotation of the stinger/boom is by means of RC80 primary reduction and a RC50 secondary reduction drive. Rated strength is 14,000 lbs. (6343kg) Hydraulic overload protection is provided through a crossover relief valve.



# AUGER DISCHARGE

WALINGA INC.

flexibility

speed

durability



## FEATURES & BENEFITS

Inverted "V" gates allow each compartment to be individually discharged of its load through selective operation of the gates. Manual type rack and pinion gates are standard. Air operated gates are offered as an option. With the inverted "V" style gates, the gates can be closed "against the load".

With the many variables in the different types of feed, you need to have the equipment to handle these variables. **Walinga** offers three different types of conveying as well as three different types of gate mechanisms. Auger discharge, paddle discharge and air discharge - inverted "V" gates, drop gates and horizontal sliding gates.



## OPTIONS

- Roll Tarp Roof
- Horizontal Slide Gates
- Twin Post Hanger Bearings
- Variable Boom Auger Lengths
- Remote Controlled Boom
- Complete Air Discharge System
- Tractor Pneumatic Package
- Tractor Hydraulic Package
- Air Ride Suspensions
- Aluminum Tool Boxes
- Various Lighting Options
- Complete Unit Painting
- Aluminum catwalks and ladders
- Air operated gates
- Ribbon augers
- Drag chain conveyors
- Heavy Duty hanger bearings
- 9-12-9 auger discharge
- True vertical auger with stuffer
- Boom holding valve
- Telescopic stinger boom for Air discharge system
- Tire carrier
- Hubodometers
- Bag carrier style fenders
- Aluminum control cabinet
- Boom spot light
- Flip-up safety rail
- Disinfectant Spray System



Safety Rail

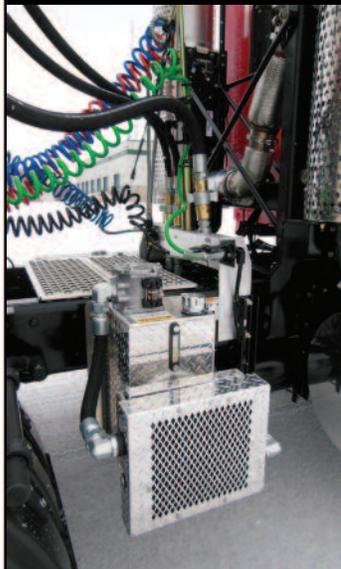


Aluminum Bag Box



Hydraulic Controls

Powerful and Constant performance requires a hydraulic system that will stand up to the rigorous environment that the unit will operate in. The Walinga Bulk Feed units are all equipped with J.I.C. type fittings and "Hydraulic Tubing" as standard equipment to provide you with a unit which will run longer and not be susceptible to costly down time. Hydraulic speed control allows the operator to run the unit at varying speeds allowing the feed to be delivered in the shortest time with maximum capacity and minimum damage.



Tractor Wet Line



Aluminum Bag Box



Flush Bin

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- Boom spot light
- Flip-up safety rail
- Disinfectant Spray System

# P N E U M A T I C   D I S C H A R G E

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## The WALINGA PNEUMATIC DISCHARGE

system is available on both truck mounted and semitrailer Hopper Tanks. It offers superb handling of all types of grain and feeds, particularly dairy feeds.



## HOW IT WORKS

Product is moved to the rear by a 9 in. (23cm) dia. floor auger and is gravity fed into the airlock. Product is discharged from the airlock by air pressure and is carried through the vertical 5 in.(125mm) or 6 in.(150mm) line to the discharge stinger/boom and out through either an elbow or a stainless steel cyclone. Air discharge systems allow the feed to be moved on a "cushion of air" minimizing pellet damage or breakup of feed as it is discharged into the feed bin.



The Stinger/Boom is available in varying lengths from 20ft (6m) to 44ft (13.4m), hydraulically controlled from the rear of the unit. The Stinger/Boom is rotated by means of a Double reduction chain drive that allows for easy maneuvering of the boom. The hydraulic controls are standard V20 type controls and can be easily adapted to accept air type remotes or radio remote control. All controls are marked and labeled to make for easy function recognition.

The WALINGA Bag/Bulk feed discharge system allows the operator to handle many extra tasks that will improve your performance and customer service. Load partitions are easily moved to allow maximum capacity as well as flexibility that will allow you to carry varying loads.

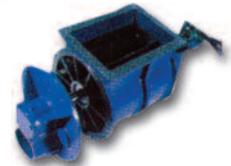
## HOW IT WORKS

The feed is loaded into the different compartments from an overhead load out. The body is raised by means of a front mount hoist allowing the product to flow to the rear of the unit. The feed drops into the precision machined airlock which meters the flow of the feed into the air line. The feed is then blown on a "cushion of air" into the farmers feed bin.



### B L O W E R

The model 510 Blower is manufactured by WALINGA to exacting specifications and quality control standards. This high performance blower offers 1100 CFM (31.2m<sup>2</sup>) at pressures up to 12 psi (82Kpa) continuously. Gears and bearings are splash lubricated. For transfer applications (Suction) the 510 Super Hard Chromed Blower is supplied as standard.



### A I R L O C K

The WALINGA Airlock is manufactured exclusively for WALINGA in house with our high standards of quality control to ensure first class performance. Body is high grade cast iron machined to close tolerances. The 10 blade rotor has adjustable wear tips of either stainless or knife-edge carbon steel. The Airlock is performance-matched to the Walinga 510 Blower and incorporates a unique design providing drop thru/flow thru product flow with 4 in. (100mm) or 5 in. (125mm) contoured discharge ports to ensure maximum performance and minimum breakage.

# PNEUMATIC DISCHARGE & TRANSFER SYSTEM

WALINGA INC.



## OPTIONS

- Roll Tarp Roof
- Complete Air Discharge System
- Tractor Pneumatic Package
- Tractor Hydraulic Package
- Air Ride Suspensions
- Aluminum Tool Boxes
- Various Lighting Options
- Complete Unit Painting
- Ribbon augers
- Drag chain conveyors
- Boom holding valve
- Tire carrier
- Hubodometers
- Boom spot light
- Flip-up safety rail

## FEATURES & BENEFITS

The **WALINGA** Discharge system or Blower unit, incorporates many exclusive features. High Torque Power Take Off (PTO) 1400 series PTO Shafts, H.D. High volume hydraulic motors, JIC type fittings as well as "Hydraulic Tubing" are just a few of the standard components designed to withstand conditions similar to the harsh North American climate. The **Walinga** Bulk feed units are designed to provide the operator with many years of trouble free service.

Variable roof options, moveable dividers, Transfer/Suction Units, stainless steel delivery hoses, all provide for greater flexibility to deliver to the customer what he wants and deliver it where he wants.





# U L T R A - L I T E C O M B O

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The Walinga Ultra-Lite was developed with very specific goals and requirements in mind. These requirements were set forward by our customers and not by an engineering department. The Walinga Ultra-Lite delivers only what you want, and not what someone else wants. If you have specific needs and requirements, this combo unit responds with unprecedented performance.

m a n c e

## O P T I O N S

- Roll Tarp Roof
- Complete Air Discharge System
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- Aluminum Tool Boxes
- Various Lighting Options
- Complete Unit Painting
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- Hubodometers
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## FEATURES & BENEFITS

Drop gates, horizontal sliding gates, 9" (229mm) trough auger, drag chain trough conveyor, 12" (305mm) vertical auger, one piece sealed dividers, checker plate roof with toe rails, ladders with anti slip rungs, are all features that you will find on a **Walinga** Combo unit. The **Walinga** Bulk feed units are designed to provide the operator with many years of trouble free service. This service comes from features like the sealed lighting systems, H.D. spring mounted hydraulic motors, contoured sides for maximum capacity, rubber body mounting, rubber roof and divider seals and many other options exclusive to the **Walinga** line of bulk feed units.



Under Mount Rear Mount Tractor Mount

The **Walinga Ultra-Vac** provides the operator with the flexibility to draw on left-over feed, clean-up spills or move product around the mill with a unit that is easy to run and easily brought to the farm. The Ultra-Vac can be located on either the tractor or on the trailer and is also available in a completely self contained model. The Ultra-Vac features patented pre-cleaner dust separator, **Walinga** model 510 Chrome blower, hydraulic powered airlock with adjustable tips and stainless steel suction hoses.



3510-G Under Mount



4510 Rear Mount



5510-T Tractor Mount

## Transfer Unit Specifications

Model #	Blower	Airlock	*Capacity		Motor Power	Line Size
			Bu/hr*	Tonnes/hr*		
3510-G Under Mount	# 510	#1210	700	18	25 hp gas	4 in (100mm)
4510 Rear Mount	# 510	#1314	1000	27	PTO	4 in (100mm)
5510-T Tractor Mount	# 510	#1314	2300	59	PTO	5 in (125mm)

\*Capacities based on using a 12Ft (3.65m) suction line moving corn or barley. Capacity will vary with condition of product. Due to continuous product development specifications subject to change without notice.



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