



CONE-BOTTOM

Models 3445, 4300, 5300, 8300, 9300, 9600

*High-Volume Storage and Reclaim of
Hard-to-Handle Materials*



THE SOLUTION TO SILO BRIDGING PROBLEMS

LAIDIG CONE-BOTTOM SYSTEM FEATURES

- State-of-the-art engineering to meet your toughest material challenges
- Encourages first-in-first-out material distribution
- 100% cross-sectional activation of silo
- Easily-accessible drive components located outside of the material
- Fully-automated, dependable, push-button operation
- Zero-entry storage and reclamation of hard-to-handle materials
- Diameters to 60' (18 m) with Laidig's **Cone-Bottom** systems
- Free access to Laidig's lifetime technical support

RELIABLE MATERIAL DELIVERY

Since 1961, Laidig's reclaim systems have provided reliable, fully-customized solutions for bulk material storage and handling. Their rugged designs and commitment to engineering and manufacturing excellence have made Laidig the worldwide leader in bulk storage & material handling solutions.



Laidig's **Cone-Bottom** series reclaimers offer the ultimate material-handling performance and dependability. **Cone-Bottom** series reclaimers are the absolute solution to the silo-bridging problems associated with hard-to-handle materials. The Laidig **Cone-Bottom** system helps create mass flow enabling near-total silo clean out while maintaining a first-in-first-out (FIFO) material distribution.

SAFETY AND SIMPLICITY

The **Cone-Bottom** reclaim systems have provided solutions to hundreds of material-handling challenges worldwide. This is not only attributed to Laidig's unwavering commitment to the success of every application, but also because the **Cone-Bottom** reclaimer is designed with dependability and serviceability in mind.

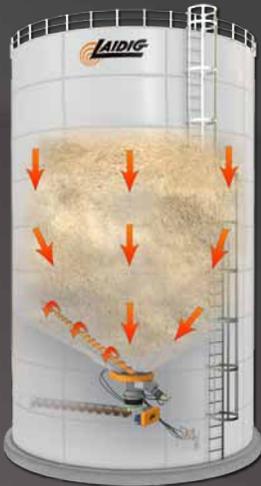
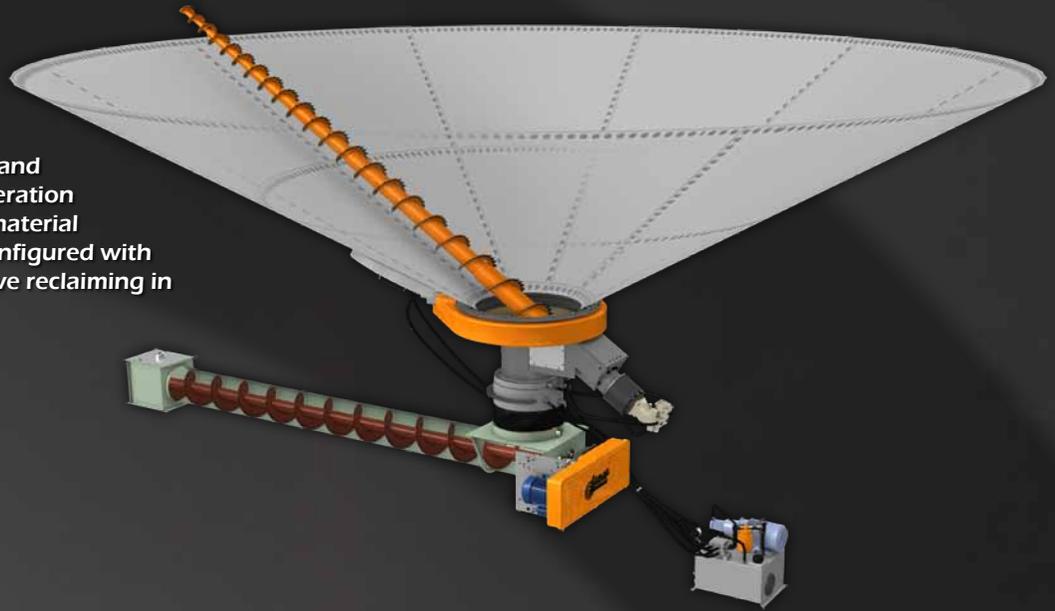
The hydraulically powered **Cone-Bottom** reclaim system has been designed with minimal moving mechanical parts to keep maintenance low. Motors and drive components are located outside of the material for easy inspection and service.



PIONEERING STORAGE & RECLAIM SOLUTIONS SINCE 1961

RUGGED DRIVE TRAIN

The **Cone-Bottom** reclaim auger is driven by an efficient direct drive hydraulic motor maximizing durability and reliability. Its smooth, low-vibration operation is efficient and effective at reclaiming material in the silo. The reclaim auger can be configured with replaceable cups or knives for aggressive reclaiming in fibrous or sticky materials.



MASS FLOW

Laidig's **Cone-Bottom** reclaim system utilizes an auger that undercuts the material in the bottom of the silo. This helps create mass flow in the silo and also promotes first-in-first-out material handling. The **Cone-Bottom** enables process or batch control processes to be implemented effectively. Material delivery is consistent and controlled due to the auger eliminating material buildup causing restricted flow or bridging.

CUSTOM CONTROLS

The Laidig **Cone-Bottom** system offers fully-automated, push-button operation utilizing Laidig's LMI™ (Laidig Machine Interface). The LMI provides unprecedented control and monitoring, with a graphic-rich display that gives the operator all the information needed to easily operate or monitor the Laidig equipment. The LMI control system is also designed to allow full operation of the Laidig reclaim system via Ethernet interface and can include remote-access capability for monitoring or troubleshooting the system from an off-site location.



AGGRESSIVE STORAGE AND RECLAIM SOLUTIONS

Providing TOTAL Automation to High-Volume Storage

Laidig's **Cone-Bottom** reclaim systems are designed specifically for reclamation of materials with poor-flow characteristics or other properties which make the material difficult to handle. Laidig provides turnkey installations including silos, reclaimers, conveyors and other material handling equipment as needed. Because of the dynamic, asymmetric forces exerted on the silos when material is extracted by the reclaim augers, the silo and reclaimer package are designed as an integrated system. This ensures structural integrity and successful long-term operation.



Laidig Cone-Bottom System Specifications

Specifications*	Model 3445	4300 Series All Hydraulic	5300 Series All Hydraulic	8300 Series All Hydraulic	9300 Series All Hydraulic	9600 Series All Hydraulic
Storage Diameter	5' - 18' (1.5-5 m)	4'-24' (1-7 m)	4'-24' (1-7 m)	8'-35' (2-11 m)	8'- 45' (2-14 m)	20'- 60' (6-18 m)
Cone Angle	45°	30° or 45°	30° or 45°	30° or 45°	30° or 45°	30° or 45°
Auger Cutting Diameter	6" (15.2 cm)	8" (20.3 cm)	8" (20.3 cm)	13" (33 cm)	17" (43.2 cm)	17" (43.2 cm)
Delivery Rate†	5.5 cfm (0.2 m³/min)	20.9 cfm (0.6 m³/min)	20.9 cfm (0.6 m³/min)	49.6 cfm (1.4 m³/min)	87.6 cfm (2.5 m³/min)	87.6 cfm (2.5 m³/min)
Expected Delivery Rate	80 cfm (2.27 m³/min)	55 cfm (1.5 m³/min)	200 cfm (5.6 m³/min)	200 cfm (5.6 m³/min)	400 cfm (11.3 m³/min)	400 cfm (11.3 m³/min)
Auger Rotation	100 RPM	100 RPM	100 RPM	70 RPM	60 RPM	60 RPM
Discharge Opening	0.50 ft² (0.04 m²)	0.40 ft² (0.03 m²)	1.50 ft² (0.13 m²)	1.80 ft² (0.17 m²)	3.70 ft² (0.34 m²)	3.70 ft² (0.34 m²)
Reclaim Drive HP	5 HP	-	-	-	-	-
Reclaim Torque	1x (Base)	0.8x	0.8x	6x	10.8x	38.5x
Hydraulic Power Unit	-	7.5 HP	10 HP	25 HP	50 HP	100 HP
Depth From Floor (min)	1.67' (0.50 m)	2.79' (0.85 m)	3.70' (1.12 m)	3.90' (1.18 m)	5.17' (1.57 m)	12.5' (3.8 m)

*All specifications are approximate. Systems are customized according to application specific requirements and the flow characteristics of the stored material.

†Based upon 100% auger efficiency. Actual delivery rate depends upon material and conditions.

WITH LAIDIG YOU GET MORE THAN STEEL

The Storage Structure

Designed specifically for the dynamic-load requirements of bottom-reclaim systems.

The Reclaim System

Custom engineered for high delivery rates with a wide range of material applications.

The Laidig Guarantee

If we design and install your storage and reclaim system, we guarantee it will work.

**WE DON'T JUST SELL EQUIPMENT,
WE PROVIDE SOLUTIONS**

ADDITIONAL OPTIONS:

- Customized Cone Angle
- Baked Epoxy Coatings Available With Steel Tanks
- Hydraulic Fluid Immersion Heater
- Multi-System Hydraulic Power Unit
- Remote Pressure Display
- Fill & Discharge Conveyor Systems
- LMI Control Package
- Hazardous-Environment / ATEX Designs
- Stainless-Steel Fabrication
- Abrasion-Resistant Designs
- Retrofits to Existing Bins Possible



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