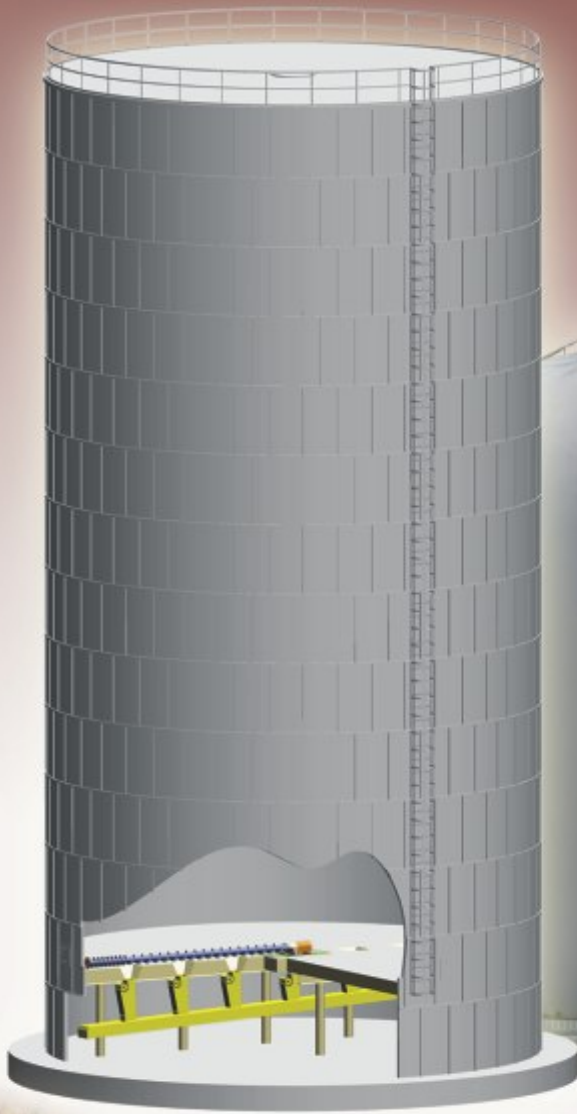


# *CLEANSWEEP™*

**CS210, CS310, CS510, CS1010, and CS2010**

*High-volume storage and reclaim of free-flowing  
and semi-free-flowing materials.*



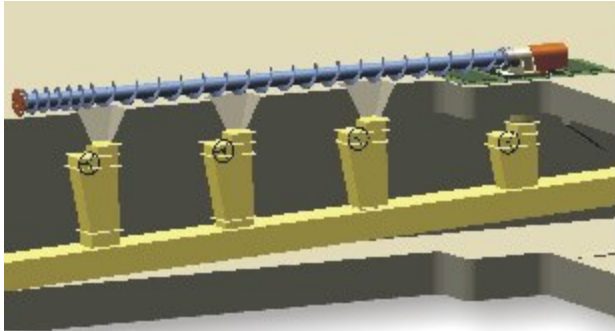
**AUTOMATED CLEAN OUT  
WITH NO PERSONNEL ENTRY**



**Bulk Storage and Reclaim Systems**

# CLEANSWEEP™ PROVIDES TOTAL AUTOMATION

**CLEANSWEEP™ offers what others can't:  
a fully-automated storage and  
clean-out system that really works!**



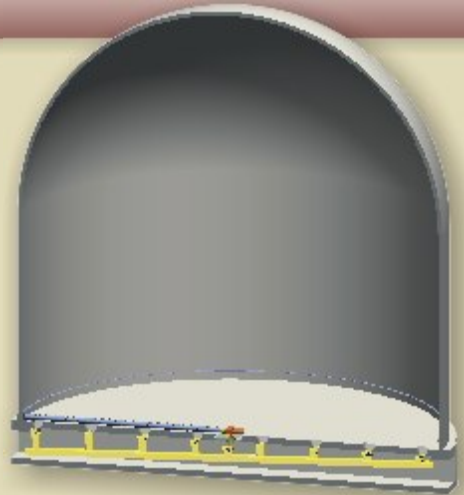
High-volume discharge is achieved by combining free-flow through draw downs with consistent high-delivery from the reclaim auger.



The low-profile dual-speed hydraulic reclaim drive system is compact and powerful, delivering high-torque with minimum material contact with the drive system.



Consistent, positive reclaim advance is achieved with a rugged pinion-and-ring gear as shown (all models except CS210) or with a hardened pin-and-worm-gear (CS210, not shown).



**Concerned with employees working inside the bin?**

**CLEANSWEEP™** provides bin clean out without equipment modification or personnel entry.

**Worried about safety and liability issues?**

**CLEANSWEEP™** is truly automated, offering reduced liability by avoiding many of the health and safety risks of silo entry.

**Concerned about employee health?**

**CLEANSWEEP™** eliminates employee exposure to harmful dust, chemicals, and additives associated with the stored material.

**Confined space an issue?**

**CLEANSWEEP™** is "confined-space friendly" with minimal maintenance requirements and with most serviceable components in easily-accessible locations.

**Need reliable, high-delivery rates?**

**CLEANSWEEP™** provides continuous discharge from the sweep auger, with even higher rates achievable during free-flow operation.

**Concerned about "auger-climb"?**

**CLEANSWEEP™** provides rigid design and advanced torque-sensing controls ensure the reclaim auger remains at floor level and cuts (not climbs) into stored material.

**Want to eliminate mold and infestation?**

**CLEANSWEEP™** allows complete material turn-around, eliminating dead zones and minimizing waste.

**Concerned about timely clean out?**

**CLEANSWEEP™** provides fast clean out to accommodate more-frequent complete inventory turnover.

**Concerned about high labor costs?**

Laidig's fully-automatic, push-button clean-out system means reduced labor, resulting in more net profits.

**INNOVATIVE AUTO-TORQUE-SENSING CONTROLS**

# NO PERSONNEL ENTRY NEEDED



Laidig's innovative cupped flighting provides sharp, curved edges to maximize cutting and conveying efficiency, while also reducing starting torque and minimizing advance resistance.

The contoured wheel provides a low-resistance, stable auger support.

Hydraulic power units are normally located in a small, easily-accessible service building. A single power unit can be designed to drive multiple *CLEANSWEEP™* systems.



A separate torque-sensing control for the reclaim advance drive automatically starts and stops the auger advance motion to provide regulated, consistent delivery.



The two-speed hydraulic reclaim drive incorporates an advanced torque-sensing control to auto-shift from low-rpm/high-torque for heavy loads to high-rpm/low-torque for lighter loads.

*CLEANSWEEP™* is engineered for maximum storage and delivery of free-flowing and semi-free-flowing materials, including pellets, plastics, grains, and petroleum coke.



The proof is in the delivery. The efficient conveying system cuts consistently into high material piles, with the auger uniformly filled and remaining firmly at ground level.

*CLEANSWEEP™* is designed with safety in mind.



Near-total clean out is achieved with the reversible reclaim sweep auger, allowing the final clean-out cycle to be made in reverse.

## CONSISTENT HIGH DELIVERY

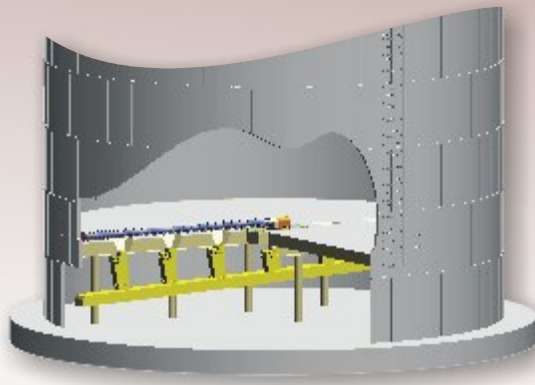
# CLEANSWEEP™

## The SAFE System That Really WORKS

The Laidig *CLEANSWEEP*™ storage and reclaim systems are provided with monolithic concrete silos, domes, bolted steel silos, or in some applications corrugated bins.. With bolted steel silos, a variety of baked epoxy coatings are available for both interior and exterior silo walls.

Specifications*	Model CS210	Model CS310	Model CS510	Model CS1010	Model CS2010
<b>Silo Diameter</b>	10'-70' (3-21 m)	30'-105' (9-32 m)	30'-131' (9-40 m)	132'-164' (40-50 m)	150'-200' (45-61 m)
<b>Reclaim Auger Diameter</b>	14" dia. (35 cm)	14" dia. (35 cm)	22" dia. (56 cm)	25" dia. (64 cm)	29" dia. (74 cm)
<b>Reclaim Auger Rotation</b>	10-80 rpm, adjustable	10-80 rpm, adjustable	10-80 rpm, adjustable	10-40 rpm, adjustable	10-40 rpm, adjustable
<b>Auger Delivery Rate</b>	up to 75 CFM (2 m <sup>3</sup> /min)	up to 75 CFM (2 m <sup>3</sup> /min)	up to 250 CFM (7 m <sup>3</sup> /min)	up to 150 CFM (4.3 m <sup>3</sup> /min)	up to 190 CFM (5.5 m <sup>3</sup> /min)
<b>Sweep Advance (nominal)</b>	8-24 hr/revolution	8-24 hr/revolution	8-24 hr/revolution	8-24 hr/revolution	8-24 hr/revolution
<b>Hydraulic Reclaim Drive</b>	15 HP (11 kW)	20 HP (15 kW)	50 HP (37 kW)	150 HP (110 kW) max	200 HP (150 kW) max
<b>Hopper Center Ring</b>	32" outside dia. (81 cm)	60" outside dia. (152 cm)	60" outside dia. (152 cm)	60" outside dia. (152 cm)	96" outside dia. (244 cm)

\* Standard system specifications are shown.  
Consult a Laidig applications engineer for material-specific information.



Diameters up to 200' (61 m)

### Additional Options:

- Plenums / Air Circulation System
- Multiple Draw Downs
- Hydraulic Fluid Immersion Heater
- Remote Pressure Display
- Multi-System Hydraulic Power Unit
- Discharge Conveyor System
- PLC Control Systems
- Stainless Steel Auger
- Replaceable Cutter Blades

### WITH LAIDIG YOU GET THE TOTAL PACKAGE:

#### 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.



Bulk Storage and Reclaim Systems

**Laidig Systems, Inc.**  
14535 Dragoon Trail  
Mishawaka, IN 46544 USA

Phone: 574-256-0204  
Fax: 574-256-5575  
sales@laidig.com  
www.laidig.com

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