Bin Unloading Systems

Standard Unload
Power Sweep
Commercial Unload
Power Heads
The unique back-up shield and torque tube combination adjusts for close floor clearance to maximize bin cleanup. It removes the grain in one or two revolutions, eliminating the need for an electrical swivel connector. A rubber disc wheel follows the bin perimeter on the sweep end, providing a forward movement and preventing sweep flight contact with the floor. An intermediate bearing stabilizes the sweep flight on 30’ (and larger) bins.

Klean Sweep...
the finishing touch.

The Ultame in Flexibility

Bin Well Options
Hutchinson’s wide choice of bin wells will fit your method of installation: under an aeration/drying floor, in a pre-formed trench or cast in concrete.

_match any of the well combinations (illustrated here) with the proper length of under-bin tube (8’ thru 25’ ) to make up a basic unloading package for 14’ to 48’ diameter bins. This also may be used beneath flat storage structures.

All bin wells and tubes feature a galvanized or powder coat finish for extended life. Complete the system with an under-bin auger flight with your choice of power heads (shown on back page), slide gate control pipes and our patented Klean Sweep.
The **Integrated Unloading System**

**Operated completely from outside the bin.**

One motor on the exterior power head operates both unloading auger and bin sweep.

The base unit includes:
- Center power well and roller supported gate with gear boxes
- Bin sweep with back-up shield and reduction wheel
- Under-bin tube & auger
- Appropriate number of intermediate wells with roller supported gates
- Special bin wall flange
- Control Pipe Kit with Lever Opener

Power Heads include Horizontal, 25° Incline or Vertical (shown on back page). Low-Boy power heads are available (in any length between 20' and 50') to return grain to a center pit in circular bin arrangements.

All power heads attach with a square stub to make moving from one bin to another more time-efficient.

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### Entire system operated from outside the bin.

The bin sweep, which remains in the bin at all times, is positioned near intermediate wells before filling. To unload, start the unloading auger with sweep clutch disengaged and open center well gate. After gravity flow stops in the center, open intermediate wells. When grain flow stops, shut off motor and engage sweep via separate clutch control rod. Start motor and the sweep will pull grain to the center well while moving around bin. Our Control Pipe and Lever System enhances the operator’s ability to adjust the wells.

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**Photo 1:** The center well is equipped with a double gear box assembly to transmit power from the under-bin auger to the sweep.

**Photo 2:** Both center and intermediate wells feature exterior gate control. The control pipe and lever system includes pipes that control the clutch and all wells plus outside levers and hardware.

**Photo 3:** A solid steel clutch with chain transmission is located in a separate enclosure (illustrated). A removable cover provides ready access for lubrication and maintenance.

Units are available pre-assembled. Includes powder coated un-loading tube with intermediate wells welded in place and with gate controls installed.

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**Call Toll-Free**

1-800-523-6993

For more information on parts and service.

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Note: Cover removed for illustration.
**Commercial Unloader**

**8", 10" & 12" Commercial Grade Components System for 24' - 120' Diameter Bins**

Klean Sweeps are sized to match the capacity of the unloading auger.

<table>
<thead>
<tr>
<th>Sweep Series</th>
<th>Bin Unloader Diameter</th>
<th>Flight Diameter</th>
<th>Flight Strip</th>
<th>Auger Shaft</th>
<th>Stub Size</th>
<th>Suggested Flight Speed</th>
<th>Oil Bath Drive</th>
<th>Reduction Wheel</th>
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<tbody>
<tr>
<td>68</td>
<td>6&quot;</td>
<td>5&quot; O.D.</td>
<td>3/16&quot;</td>
<td>1.9&quot; O.D.</td>
<td>1-1/4&quot;</td>
<td>328 RPM</td>
<td>STD.</td>
<td>STD.</td>
</tr>
<tr>
<td>810</td>
<td>8&quot;</td>
<td>7&quot; O.D.</td>
<td>3/16&quot;</td>
<td>1.9&quot; O.D.</td>
<td>1-1/2&quot;</td>
<td>306 RPM</td>
<td>STD.</td>
<td>STD.</td>
</tr>
<tr>
<td>1012</td>
<td>10&quot;</td>
<td>9&quot; O.D.</td>
<td>1/4&quot;</td>
<td>2.78&quot; O.D.</td>
<td>2&quot;</td>
<td>250 RPM</td>
<td>STD.</td>
<td>STD.</td>
</tr>
<tr>
<td>1214</td>
<td>12&quot;</td>
<td>12&quot; O.D.</td>
<td>1/4&quot;</td>
<td>2.78&quot; O.D.</td>
<td>2&quot;</td>
<td>146-226 RPM</td>
<td>STD.</td>
<td>STD.</td>
</tr>
</tbody>
</table>

- **Bin Unloader Diameter**: The diameter of the bin unloader in inches.
- **Flight Diameter**: The diameter of the flight in inches.
- **Flight Strip**: The thickness of the flight strip in inches.
- **Auger Shaft**: The diameter of the auger shaft in inches.
- **Stub Size**: The size of the stub in inches.
- **Suggested Flight Speed**: The recommended flight speed in RPM.
- **Oil Bath Drive**: Standard (STD).
- **Reduction Wheel**: Standard (STD).

This is an unloading system available in capacities for commercial applications, larger bins and flat storage structures. Components of this series are constructed of heavier gauge materials to withstand the rigors of high use. Even in smaller bins we recommend consideration of this series. Job application and anticipated usage level should be your guide in selection. Select from horizontal, 25° incline and unique double-drive vertical power heads shown on back page.

Commercial Klean Sweeps may also be used with U-Trough or Drag Conveyors.

Photo 1: The Klean Sweep drive consists of a heavy duty motor mount and a cast aluminum housing, enclosing the chain and sprockets in oil.

Photo 2: Klean Sweeps for 48" and larger bins include a sweep carrier assembly for extra support of flight & shield. Two carriers for 90° and larger.

Photo 3: Rack & pinion slide gate controls operate center or intermediate wells with the change of a pin. We recommend using our factory-made control pipe kits to complete the job.

Photo 4 & 5: Bin wells have 1/4" plate steel gates supported by rollers; Gates slide into chambers protected from grain weight. May be used under suspended floor, in a trench or cast in concrete.

Note: Klean Sweep requires a 1" inner diameter pivot socket in center of bin.
8", 10" and 12" Commercial Grade Verticals stand 16'6" tall. Separate direct belt or 3:1 oil bath reducer drives on horizontal and vertical sections speed-match capacities. This dual drive design will handle 24' thru 120' diameter bins. Includes 3', 45" discharge, base support and wall bracket. Kit available to attach 10" unit to 8" or 12" to 10" unload tube.

25° Inclines for use with 6", 8", 10" and 12" systems through 75' diameter bins. Five foot length provides about 2' extra discharge height. Includes adjustable support stand to which you can attach optional wheel kit for portability. Two & three belt “B” section drives. Internal bearing in elbow. Units are offered as 6" (horizontal) to 6" (incline), 6" to 8", 8" to 8", 8" to 10", 10" to 12" and 12" to 14". We recommend the step-up sizes at all times for maximum capacity and smooth grain flow.

ALSO AVAILABLE: Low-Boy and Variable Angle Auger Connectors (not illustrated). Special length or height power heads available with special drives - Ask for details.

IMPORTANT: Keep all shields and safety devices in place at all times. Observe all safety signs and warnings shown on the product and in the operator’s manual.

Call Toll-Free
1-800-523-6993
For more information.