



S210
CLEAN BEDDING
DELIVERY SYSTEM

www.sure-flo.ca



S210 CLEAN BEDDING DELIVERY SYSTEM

The Sure-Flo™ S210 Series Clean Bedding Delivery System is a tubular drag-chain conveying system designed to transport dry clean rodent bedding within a cage wash facility to an automatic bedding dispenser unit.

Solid Construction

Systems are available in stainless steel including the conveying chain.

Capacity

Users can anticipate a average capacity of 330 lbs/hr [150 kg/hr] of continuous conveying.

Minimal Space Required

A typical Sure-Flo™ system consists of conveying piping, UHMW disks, chain, drive station, chain tensioner station, inlet port, bedding fill station, discharge port, and a control panel.

Energy Savings

Each system consists of a main 3hp drive motor (typical) which pulls the chain. Optional 1/2hp turn station motors which assist in the horizontal and vertical change of direction may also be used. Energy requirements are typically 85% less than comparable vacuum systems.

Controls

Can be either the standard pushbutton type with PLC microprocessor wall mounted or can be fully integrated into the touchscreen of the BetterBuilt T200 Series Tunnel Washer. A remote control panel is also provided at the bedding dispenser.

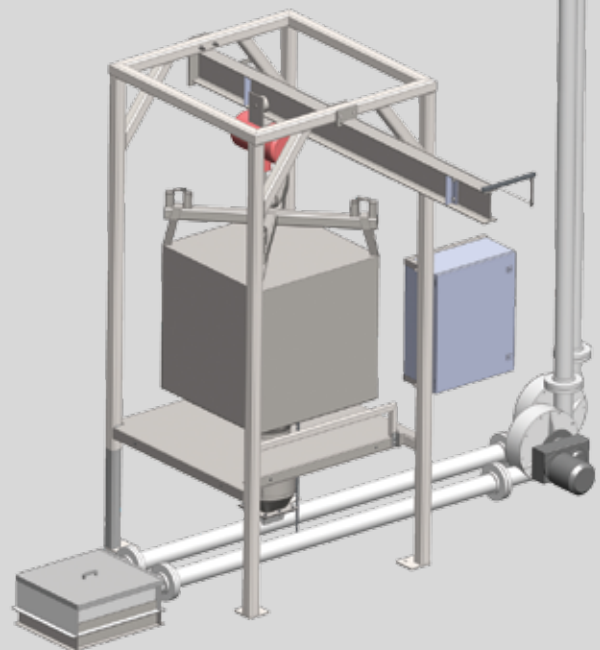
Chain Tensioner Station *Patented*

A chain tensioner station takes up slack in the chain and automatically adjusts for tension changes. Proper chain tension minimizes wear, reduces downtime and maintenance costs, and the possibility of the chain being misaligned.



Idler or Motorized Turn Station

Change in conveying path in either horizontal or vertical direct is achieved with a 90 degree motorized turn station allowing the chain to travel with minimal friction. A 1/2hp electric motor (typical) is used for smooth and quiet operation. Depending on the system layout, non-motorized Turn Stations may also be used.



Individual or Bulk Bags

A free standing clean bedding fill station is used for individual bags and our I-Beam Hoist and Frame system is used for large bulk bags. Multiple inlet ports can be utilized in one Sure-Flo™ system.



Drive Station

The drive station is located at the discharge end of each system; it consists of a drive sprocket, motor and gear box.

Discharge Port

Incorporated with the drive station is the discharge port which allows clean bedding material to exit the conveying lines and gravity fall through a flexible hose into a bedding dispenser below. Multiple discharge ports can be utilized in one Sure-Flo™ system.

Automatic Bedding Dispenser

Clean bedding materials are delivered to the hopper portion of a bedding dispenser before being automatically dispensed into rodent cages.

Air Knife

Located at the discharge port are forced air nozzles to ensure the chain and disks are free from bedding materials.

Transport Piping

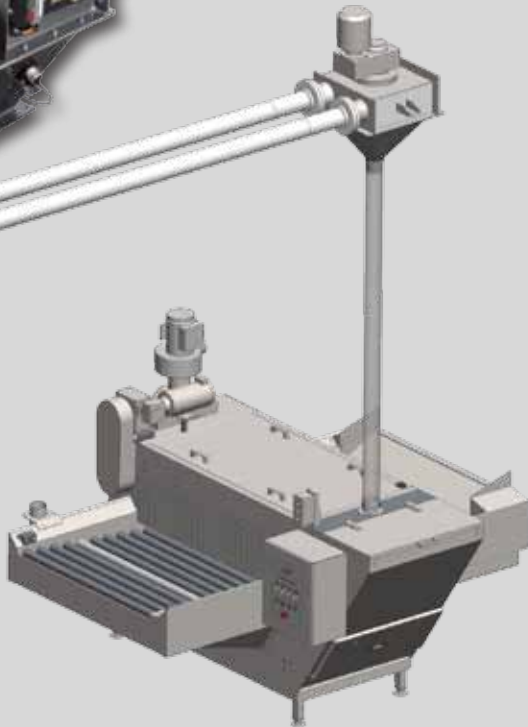
The conveying line is a closed loop system consisting of transport and return lines. Pipe line joints are a combination of bolted flange or compression bolt couplings.

Radius Turn in Piping

Conveying piping can be provided with 5 ft radius turn for directional change in either horizontal or vertical directions in place of powered and non-powered turn stations. Requirement is dependent on site conditions and system layout.

Optional Clean-out Disk

One or more of these optional clean-out disks will facilitate periodic cleaning of the conveying piping interior as the system operates. Exact number and type to be determined based upon facility requirements.



Link Chain Assembly

The conveyor consists of a continuous, true chain link mounted with solid circular disks which are a two-piece bolted design made of UHMW. The split disk design enables changing only the bottom half-disk which is subjected to wear.



Clean Bedding Inlet

A flanged connection between the clean bedding loading hopper and the conveying line is the inlet port for the clean bedding. Multiple inlet ports can be utilized in one Sure-Flo™ system.





S210 CLEAN BEDDING DELIVERY SYSTEM

Application

The Sure-Flo™ S210 Clean Bedding Delivery System is designed to transport clean bedding from a bedding storage room to an automated bedding dispenser found in the care and housing of research animals. .

Note: Due to continued engineering improvements, specifications are subject to change without notice.

STANDARD FEATURES

- Stainless Steel System Components including Chain
- 3HP TEFC Main Drive Motor
- Sch 10 (4" dia) Conveying Piping
- Chain Tensioner Station (Patented)
- Joints are Bolted Flange or Compression Bolt Coupling
- Push-button Controls w/ Remote Panel
- Bedding Inlet Port
- Discharge Port w/ Flex Hose
- Air-Knife Nozzle at Discharge Port
- Safety Features, E-stops and Sensors
- UHMW-PE Moulded, Two Piece Discs
- Drive Sprocket
- Tension Wheel
- Bearings - Sealed Roller Type
- Overload Contactors and VFD
- Nema 12 Carbon Steel Control Panel

OPTIONAL FEATURES

- Clean Bedding Manual Fill Station
- I-Beam Hoist and Frame for Bulk Bags
- Painted Carbon Steel System Components
- Multiple Discharge Ports
- Multiple Inlet Ports
- 1/2HP Motorized Turn Stations
- Idler Turn Stations
- Radius Turn Piping
- Maintenance Ports
- Chain Knocker Assembly
- Touchscreen Controls
- Integrated Controls w/ BetterBuilt Tunnel Washer
- 5" or 8" Touch Screen Control Panel
- Stainless Steel Controls Guard
- Compact Flash Card Program Backup
- Support Hangers and Structures
- Seismic Anchoring
- Cleanout Flight Discs
- Motorized Brush Cleaning Station
- Factory Ethernet Connectivity for Online Diagnostics
- Touchscreen Ethernet Web Server Connectivity
- Modem Connectivity for Factory Diagnostics
- Surge Protection
- CCTV Capabilities for Remote Monitoring
- Audible Start-up Buzzer at Waste Container

RELATED EQUIPMENT

T200 Series Tunnel Washer ▪ Activ™ CDS (Cleanside Divertor Station)
D200 Series Automatic Bedding Dispensers

DIVISION OF NORTHWESTERN SYSTEMS CORP

7601 MacDonald Road • Delta, British Columbia • Canada V4G 1N3

888-553-0855 • Tel: 604-952-0925 • Fax: 604-952-0941
www.nsc-betterbuilt.com • info@nsc-betterbuilt.com