JBLCo
Reference Quality Sampling

Clean Sweep™ Sampling Systems

FOR ORIGINAL EQUIPMENT OR RETRO-FIT APPLICATIONS

LEAN SWEEP® CLEAN SWEEP® CLEAN SWEEP® CLEAN SWEEP® CLEAN SWEEP

Safe, Accurate Sampling From Moving Conveyors

Starting in 1984, John B. Long Co (JBLCo) embarked on a mission to advance the state-of-the-art in bulk material sampling with the development of the CLEAN SWEEP® sampler.

Incorporating numerous patented features, the CLEAN SWEEP® sampling system offers safe, reliable unattended sampling from moving conveyor belts with unprecedented accuracy.

CLEAN SWEEP® sampling systems range from simple, single stage sampling to multi-stage systems incorporating crushing, discrete subsampling and reject handling. They can be found at a wide variety of mines, docks, ports, and power plants world wide in sampling applications for coal, coke, DRI, stone, and a variety of ores.

All CLEAN SWEEP® sampling systems are backed by JBLCo's integrated manu-facturing capabilities including full time research and development, product and layout engineering, manufacture, parts warehousing, and field service.

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Website: www.jblco.com • Email: sales@jblco.com

JBLCo offers two **CLEAN SWEEP®** Primary Samplers:

- The pneumatically powered Series IV delivers the most power and speed of any sweep sampler made. With the utilization of JBLCo's patented contour idlers, the Series IV obtains reference quality samples from high capacity conveyors up to 96" wide carrying flows up to 12,000 TPH.
- The electrically powered AutoSampler™ Series employs a cushion mounted V-belt drive or optional direct drive for simple, reliable operation on conveyors up to 96" wide.
- Both samplers feature the patented **CLEAN SWEEP®** Skirting with Surge Dam™ for prevention

Primary sample increments are accumulated and processed in batches by a sub-system:

- All fully enclosed, fixed speed uncrushed material feeder (UMF) conveyor carries a trimmed even feed to the crusher for optimum performance.
- The **CLEAN SWEEP®** SampleMill™ crusher features an input chute wiper to constantly clear the crusher throat of any sticky material built-up. Its split pyramid housing design allows easy inspection and maintenance access without disassembly of its drive or chute work. Depending upon material and feed rate, SampleMill™ crushers can normally be configured to afford single pass crushing from 1/4" to 8 mesh.

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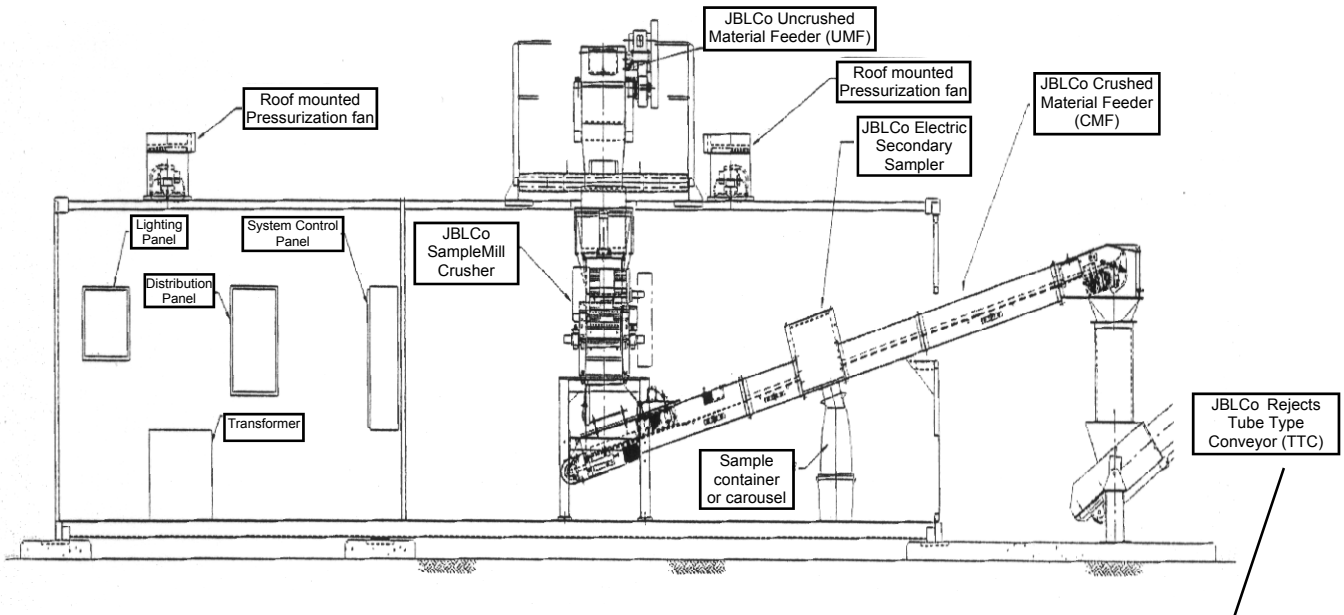
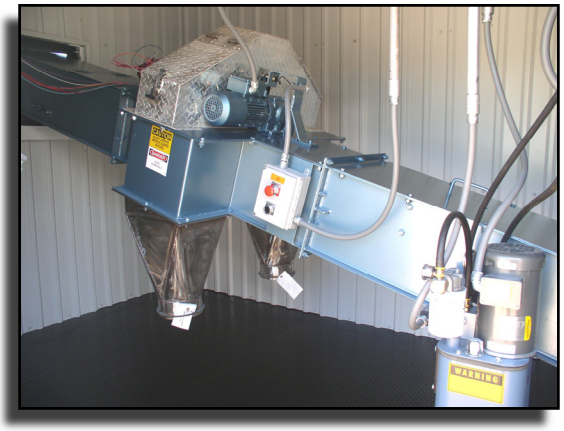
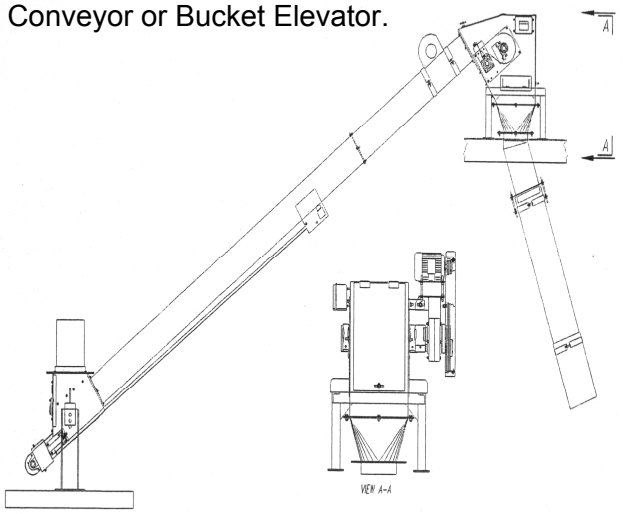


- Crushed material passes from the SampleMill™ crusher onto a fully enclosed, fixed speed Crushed Material Feeder (CMF) Conveyor.



- Unsaved reject material is conveyed back to the main conveyor by either a Tube Type Conveyor or Bucket Elevator.



- A CLEAN SWEEP® secondary sampler is positioned on the CMF conveyor to take subsamples. Its highly flexible design can be configured to sweep samples to discharge points on either or both sides of the CMF conveyor. Individual save sample containers can be positioned at these points or a multiple container sample carousel may be installed.

- All CLEAN SWEEP® sampling systems are operated by sophisticated PLC controls incorporating full time monitoring and diagnostics.

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Numerous options are available for CLEAN SWEEP® sampling systems including:

- **Clip and tramp metal detection packages**
- **Uncrushed material sub-sampling**
- **Oversize material crushing**
- **Six (6) , eight (8), or twelve (12) position save sample carousels**
- **Dedicated rejects handling conveyors or elevators**
- **Dedicated pneumatics packages for all climate conditions**
- **Numerous main and remote control options**
- **Open-sided, carport style sub-system enclosures**
- **Fully enclosed sub-system modules**
- **Layout engineering**
- **Turnkey mechanical and electrical installation services**
- **Basic, heavy and severe duty parts kits**
- **JBLCo offers field service and service contracts for all sampling systems**

For more information, contact your local JBLCo Sales or Technical Service Representative to receive a thorough review of your application and prompt development of a sales quotation specifically suited to your needs.

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