

Model PS-1 Primary Sweep Sampler



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Sweep Sampling Systems are an economical and simple tool to get samples of material from a moving conveyor belt. They can be installed on either horizontal or inclined conveyors. There are thousands of sweep samplers installed worldwide.

Sampling Systems can range from simple stand alone single stage unit to multiple stage system that incorporates crushing, secondary sampling and reject handling. They are utilized in a variety of industries worldwide for sampling sand, gravel, crushed stone, coal, coke, DRI and a variety of other ores.

The Model PS-1 Sweep Sampling System is easily retrofitted onto existing conventional bulk material belt conveyor systems and is designed to meet the most stringent standards of ASTM D-2234.

These Sampling Systems are customized to meet your application. Therefore, if you are looking for a heavy duty, long lasting and easy to maintain Sampling System, Bulk Pro Systems provides the complete system design including:

- Primary, secondary, tertiary sampling
- Feeders
- Crushers
- Reject handling
- Chute-work
- Controls

Operating Principle:

The PS-1 Primary Sweep Sampler rotates one complete 360° cycle to get a cross sectional sample from a moving conveyor belt. The sample falls through a chute and is directed unto a primary belt feeder. This feeder meters the material into a crusher contained within the SU-1 Sampling Unit. The crusher crushes the sample to a required size without material loss and the moisture is kept within a certain range. The sample is then sent up another belt where secondary sampler takes a cut through crushed material. The final sample is collected in a water proof and dust-free container. The reject material is then sent back onto the conveyor belt via bucket elevator, screw feeder or conventional belt conveyor.

Sampling Unit (SU-1):

The Bulk Pro Systems Sampling Unit (SU-1) is stand alone modular unit. It contains all the required equipment for your sampling system (minus the primary sweep sampler), pre-mounted and wired. The sampling module can then be hoisted onto a concrete base. The SU and Primary Sampler can be mounted in any section on the conveyor, which reduces installation costs. For two belt conveyors, two primary samplers can be used with one sampling unit (SU-1).

Optional equipment includes:

- Roof,
- Side door
- Fans and heating equipment.

SAMPLING

FEATURES & BENEFITS

- Meets ASTM D-2234 & ISO specifications
- Heavy duty construction, tubular steel
- Customizable to suit any application
- Simple design and installation, can be retrofitted to new and existing applications
- Direct driven with heavy duty brake motor and reducer.
- Low maintenance design
- Counterweighted sample cutter
- Works on any belt width
- Replaceable brushes and belt wiper to assure fines are removed.



Model SU-1 Sampling Unit

WHY SAMPLE?

- Assures that material meets specifications.
- Meets the demands of producers and consumers.
- Safe, reliable and automated operation.
- Reduces downtime related to “Stop Belt” sampling.

Typical Two-Stage Sampling System

