

TECHNICAL BULLETIN – DDR09

**SUBJECT: DOUBLE DRUM DRYERS
 DRUM DRYING RESOURCES PENDULUM SLURRY FEED SYSTEM**

General

As slurry is delivered to the puddle above the rolls of a double drum dryer, it is important to maintain an even distribution of fresh slurry in the puddle. As water is boiled off in the puddle, the slurry becomes more concentrated. It is important to maintain a uniform level of concentration along the full length of the drying rolls, in order to have a uniform dry sheet at the doctor blade removing product from the dryer rolls.

Operation

The Drum Drying Resources Pendulum Slurry Feed System is designed to deliver a uniformly distributed supply of fresh slurry along the entire length of the drying drums. The system operates as part of the low profile hood required for the “Drum Drying Resources Vapor Removal System” and the “Drum Drying Resources Slurry Level Control System.” The pendulum feed system operates as follows:

1. Slurry is distributed to the slurry puddle through three small diameter tubes, which swing through the puddle in a pendulum motion. Each tube delivers slurry along one third of the length of the dryer drums.
2. The tubes protrude through the vapor removal hood and extend to the dryer puddle. Each tube is mounted on a pivot attached to the dryer vapor hood. The tubes are attached to a slurry supply header, which oscillates back and forth to impart a pendulum motion to the tubes. The header is activated by an air cylinder.
3. The distribution of slurry is controlled by regulating the frequency of the pendulum swing and the length of the swing. A control panel houses the pendulum feed controls and adjustments.

The Drum Drying Resources Pendulum Slurry Feed System is available on all new or remanufactured double drum dryers produced by Drum Drying Resources. The system can be retrofitted to existing drum dryers. Please contact Drum Drying Resources for additional information and pricing.

Drum Drying Resources supplies new, rebuilt, and retrofitted Double Drum Dryers to the drying industry. Each dryer is configured to specific designs, specifications, and systems to produce your product at maximum quality, sanitation, and productivity levels.

Check our Technical Bulletin section often in order to learn more about how our products and services can help you become more productive.