

*Designed to meet all of your storage, metering and feed rate requirements*

**Day Bin**

Typically, smaller short-term storage units near processing equipment, ensuring smooth operation by buffering material flow between processes.

**Metering Bin**

Designed to maintain steady material flow into downstream processes, crucial for process efficiency and preventing equipment overload.

**Surge Bin**

Surge bins have high capacity, are upstream, and store material to handle flow fluctuations, ensuring continuous processing and buffering during maintenance.

**Boiler Feed**

Our Jeffrey Rader day bins, metering bins, and surge bins are used in a variety of applications, primarily to feed biomass and alternative fuels. This includes woody biomass, agricultural or refuse derived fuels into boilers.

These mechanical injection systems are typically applied on CFB (circulating fluidized bed), BFB (bubbling, fluidized bed), and moving floor or grate type boilers where larger materials sizes at higher moisture contents can be utilized.

Where fuel must be burned in suspension, pneumatic injection systems can be utilized independently or with a bin. Applications for this equipment are commonly used in cement/lime kiln feed systems as well as for pulverized fuel applications found in power plants.



**Features**

Day bins typically provide fuel injection into the boiler (silos, bunkers, or bins near the face of the boiler).

We offer circular, live bottom bins, and stokers depending on your application needs. Fuel from the day bins can be discharged directly into the boiler feed spout or to a metering screw conveyor for feeding to a single boiler feed point for mechanical or pneumatic injection.

Distribution to multiple feed points can be accomplished with distribution screw conveyors, robbing screws, and metering feed screws. Metering screws meter out an equal percentage of flow going down to the feed chutes. The design of the screws is optimized for better flow through the bins.

High temperature rotary valves and shut off valves are used to seal the boiler from the fuel feed system for mechanical systems. Pneumatic systems become a supplemental component in providing the boiler with combustion air along with the material.

**Advantages**

- Feature screws and live bottoms designed to provide maximum flexibility in material being fed
- Provides an integrated system to ensure all components work in unison, keeping your process operating at peak efficiency



**Typical Components & Equipment:**

- Boiler front day bins, silos, and hoppers
- Distribution screws and conveyors
- Metering screws
- Robbing screws
- Rotary airlock feeders
- High temperature shut off valves
- Gravimetric and volumetric feed controls
- Pneumatic injection systems (for pneumatic systems only)

**OUR FLAGSHIP BRANDS**

