



Material Handling

Systems and equipment for wood chips, biomass and alternative fuels.

Jeffrey Rader material handling equipment includes truck dumpers, bucket elevators, screw conveyors, drag chains and more. Let Jeffrey Rader assemble any of these individual pieces with other equipment to make a material handling system suited to your exact needs.

Applications

Jeffrey Rader designs, manufactures and assembles material handling equipment and systems to mechanically unload, convey, lift and handle materials for the following industries:

- Pulp & Paper
- Energy Generation
- Resource Recovery
- Recycling
- Forest Products
- Petrochemical
- Cement

Material Handling Systems

Our material handling systems include:

- Boiler Feed Systems
- Resource Recovery Systems
- Rail Loading/Unloading Systems
- Truck Loading/Unloading Systems
- Ash Handling Systems
- Chip Handling Systems

Material Handling Equipment

Truck Dumpers

Our truck dumpers are available in back-on, back-on extended arm with a hopper, drive-through and portable units designed for dependable operation under tough conditions. Proven on the job, our truck dumpers have become the industry standard for this type of equipment. All models feature the advanced engineering and heavy-duty construction that result in fast cycle times (3 to 8 trucks per hour, depending on design), improved productivity and reliable performance.



Bucket Elevators

Jeffrey Rader bucket elevators are designed specifically for handling woody biomass. Employing a belt and steel bucket design, our bucket elevators are used when space requirements will not allow for traditional conveyors to lift material to the required elevation.



Screw Conveyors

Jeffrey Rader screw conveyors are designed to transport, transfer and meter materials such as



woody biomass, wood chips, bark, refuse derived fuel (RDF), pellets and many others into and out of storage bins, silos, reclaiming piles and drag chains, as well as from under other process equipment.



Our dust-tight housings are fabricated with a variety of wear surfaces

that include bolt-in liners. Our screws are also manufactured from a variety of materials, with surface coatings used to improve their wear life.

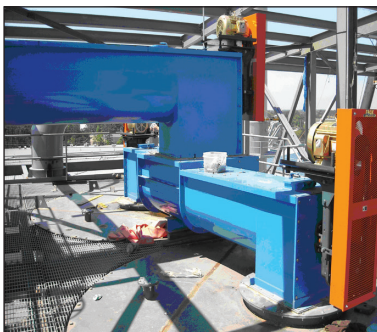
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Material Handling Equipment (continued from other side)

Drag Chain Conveyors

Jeffrey Rader drag chain conveyors are “en masse” type using a bottom-discharge, top-return system. The chain conveyor is designed as a bottom-convey, top-return type conveyor with a single- or double-chain arrangement. Like our screw conveyors, dust tight housings are fabricated with a variety of wear surfaces that include bolt-in liners. Bolt-on covers and access doors make the units easily accessible.



Material Distribution Bin with Feed Screws

This equipment is used to distribute biomass, wood chips, bark, RDF, pellets and many other materials from a single discharge point to two or more discharge points. Units are designed with a feed hopper that remains full while

two or more screw conveyors pull from the hopper, conveying material to the final discharge point.

Each screw is equipped with a variable frequency drive (VFD) to allow for more control when used in conjunction with our control system, or a customer-supplied control system. This configuration allows each screw to operate independently so that staggered operation can be achieved.

These units, also fabricated with a dust-tight design, can be supplied with a variety of materials and/or wear surfaces to improve their wear life. Additionally, their feed screws are manufactured from a

variety of materials, with surface coatings used to improve their wear life.

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