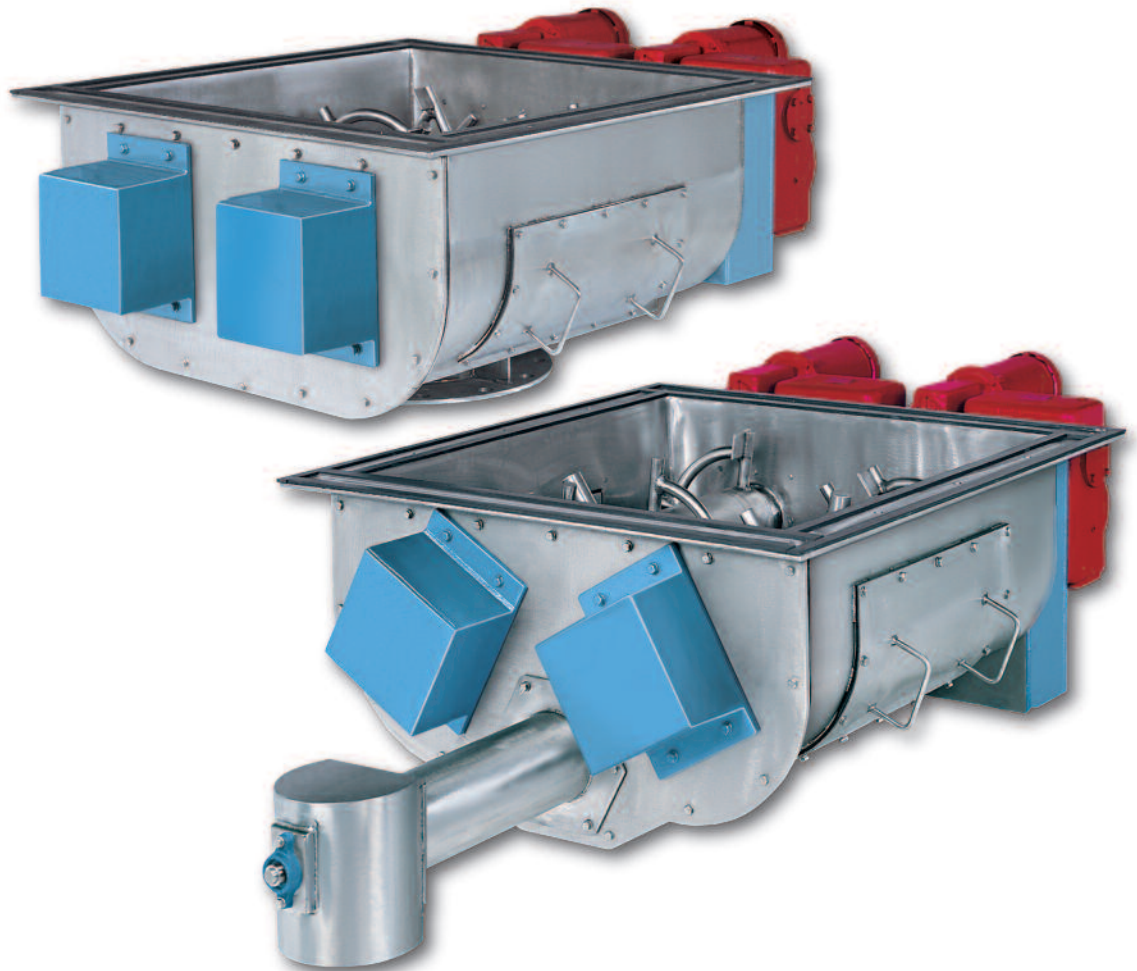


Acrison®

Multiple Auger/Agitator Bin Dischargers and Bin Discharger Feeders

For Dry Solid Materials



*Robustly built, high performance equipment to satisfy
your dry solids metering/handling needs.*

Multiple Auger/Agitator Bin Dischargers

For Dry Solids

For the positive discharge of dry solid materials from storage.

Operation

Acrison's Multiple Auger/Agitator Bin Dischargers generate mechanically induced internal agitation to produce reliable discharge (flow) of dry solid materials from within. Their unique design completely eliminates converging flow patterns, typical of conical, pyramidal or wedge type bin bottom designs, which are often the source of flow-related problems. They are particularly effective for reliably discharging those products that possess difficult-handling characteristics.

In operation, the slowly rotating augers/agitators produce multi-directional internal forces resulting in opposing vertical vectors in the central and perimetric areas within the body of the Bin Discharger. The centrally directed downward vector promotes product discharge, while the opposing vector generates upwards agitation into the product stored above. However, as with any type of bin discharger attached to the bottom of a storage hopper, the extent of upward penetration is dependent upon the physical characteristics of the product being handled, in conjunction with the design of the bin or silo onto which the bin discharger attaches.

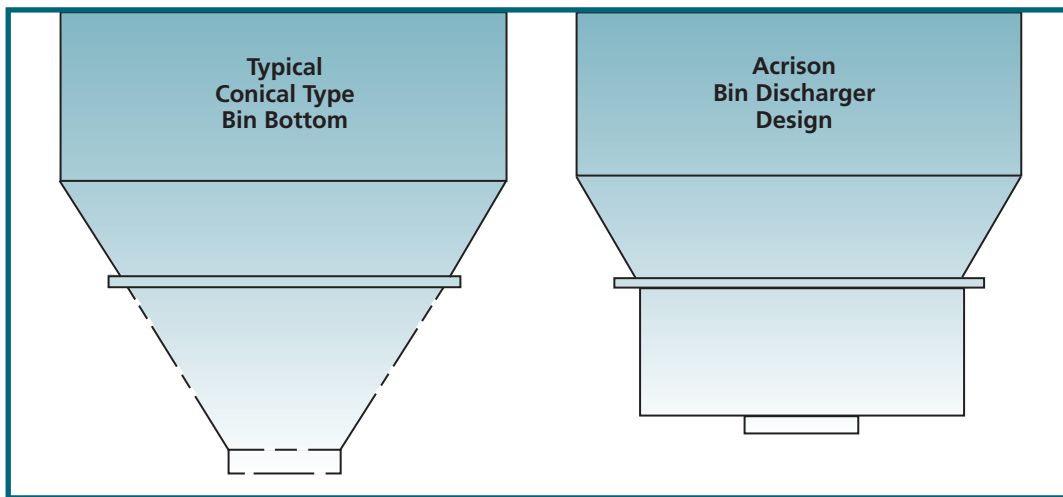
Designed as an integral assembly, Acrison furnishes Bin Dischargers with storage bins up to 200 cubic feet in capacity (and larger if application parameters permit). The entire unit is available factory assembled on a common structure.



Multiple Auger/Agitator Bin Dischargers

Acrison Bin Dischargers have proven extremely effective in hoppering all types of dry solid materials, especially when the following conditions exist...

- When the physical characteristics of a product are such that common methods of removal from storage result in bridging, compaction, segregation, adhesion or other related problems.
- When an extremely non-free flowing product does not respond to any other method of removal.
- When the resultant forces created by the action of vibratory flow-inducing devices are unacceptable.
- When multiple discharge outlets are required on the bottom of a single bin discharging mechanism.
- When flexible sleeves are undesirable and/or when direct flange-attachment to a storage bin and/or auxiliary equipment is preferred.
- When head-room is at a premium.
- When internal pressure (nominal) is a requirement.



The basic design of Acrison's Bin Discharger completely eliminates the type of convergence typical of conical, pyramidal and wedge type bin bottom designs, a primary cause of flow-related difficulties, especially when handling dry solid materials that possess poor flow characteristics.

Standard Features

- Bin Dischargers are available with square or round inlet flange configurations in standard sizes of 2, 2.5, 3, 4, 5, 6 and 8 feet.
- Capable of use with any type hopper, bin or silo.
- Unique, performance-proven, segmented multiple auger/agitators produce bi-directional, flow-inducing internal mechanical agitation without product compaction, attrition or segregation.
- Acrison Bin Dischargers have been designed without any internal convergence, which greatly enhances mass flow.
- Requires less height than converging type bin bottoms.
- Slow auger/agitator speeds ensure gentle internal flow-inducing agitation.
- Flanged rigid attachments on both the inlet and outlet eliminate the necessity (and maintenance) associated with flexible connections.
- Multiple outlets can be furnished (dependent upon product characteristics and application parameters).
- Access doors can be furnished in the body of a Bin Discharger.
- Individual heavy-duty drives for each auger/agitator.
- Designed for long, maintenance-free operation.

Multiple Auger/Agitator Bin Discharger Feeders *For Dry Solids*

Combines the extreme versatility and effectiveness of Acrison's Multiple Auger/Agitator Bin Discharger with an integral metering auger to provide both positive hopping and feed of a countless variety of dry solid products.

Operation

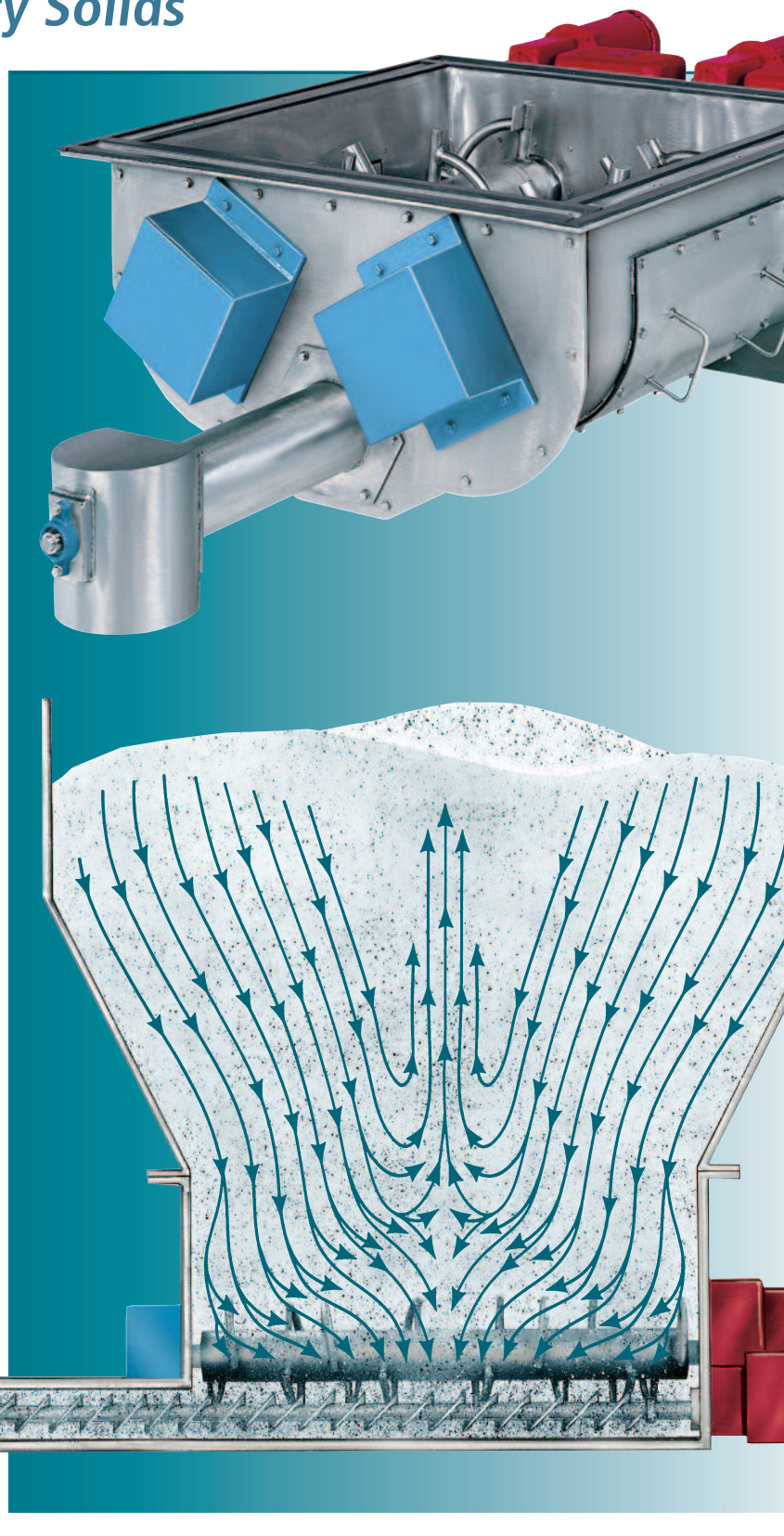
As an alternate to a bin discharging device with the typical bottom discharge and a separate feeder located beneath, Acrison's Bin Discharger Feeder includes an integral metering auger within the body of the Bin Discharger to provide both positive hopping and accurate metering of even the most difficult-handling dry solid materials. This configuration also eliminates the additional hardware and height required to mount a separate volumetric feeder beneath a bin discharger. (Please reference page 2 for information regarding Acrison's Bin Discharger.)

Acrison Bin Discharger Feeders are available with square or round inlet flanges measuring 2, 2.5, 3, 4 and 5 feet. As standard, the metering auger is furnished with a variable speed drive with individual constant speed drives normally powering the two augers/agitators.

The overall output capacity for Acrison's Bin Discharger Feeders ranges between 0.12 and 6600 cubic feet per hour. Depending upon application parameters, higher capacities may be available.

Acrison also furnishes Bin Discharger Feeders with integral storage bins up to 300 cubic feet in capacity (and larger if application parameters permit).

For the majority of products, volumetric metering accuracies generally range between ± 1 to 2 percent or better (error) based on a given number of consecutive one minute weighments.



Multiple Auger/Agitator Bin Discharger Feeders

Acrison Bin Discharger Feeders are powered by individual heavy-duty gearmotor drives. The metering auger is equipped with a variable speed drive.



Model BDF-2.5
Bin Discharger Volumetric Feeder equipped with an integral supply hopper



Model 403-BDF-2.5
"Weight-Loss" Weigh Feeder

Model BDF-2

Feed rates up to 240 cubic feet per hour.

Model BDF-2.5

Feed rates up to 600 cubic feet per hour.

Model BDF-3

Feed rates up to 1200 cubic feet per hour.

Model BDF-4

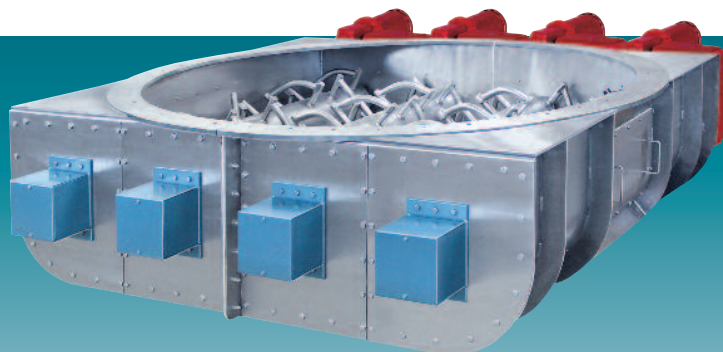
Feed rates up to 3400 cubic feet per hour.

Model BDF-5

Feed rates up to 6600 cubic feet per hour.

Bin Dischargers and Bin Discharger Feeders

Because of their unsurpassed ability to handle the widest possible variety of dry solid materials, Acrison's various model Bin Discharger Feeders are commonly utilized as the metering mechanisms for Acrison "Weight-Loss" Weigh Feeders.



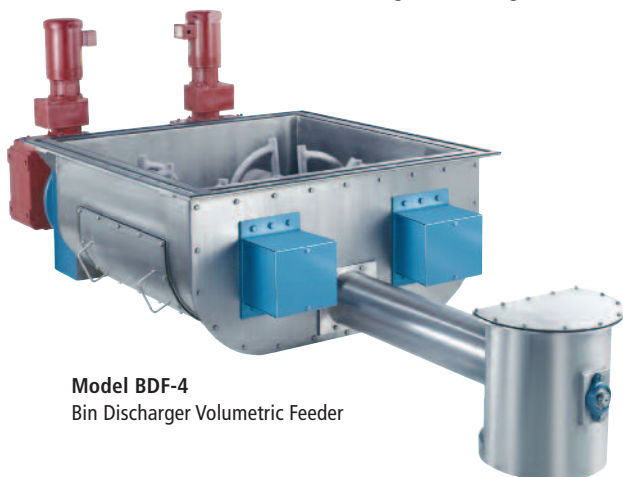
Model BD-8
Bin Discharger



Model 404X-BDF-2
"Weight-Loss" Weigh Feeder



Model 403-BDF-2
"Weight-Loss" Weigh Feeder

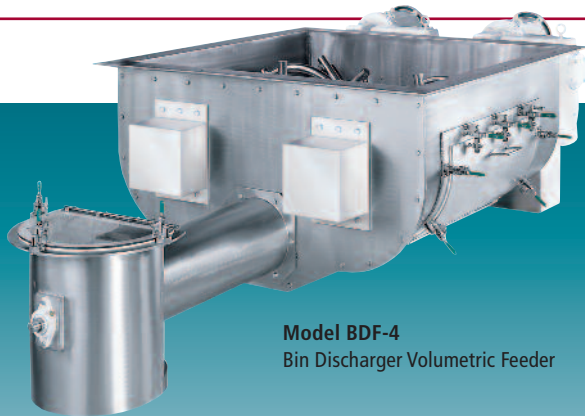


Model BDF-4
Bin Discharger Volumetric Feeder

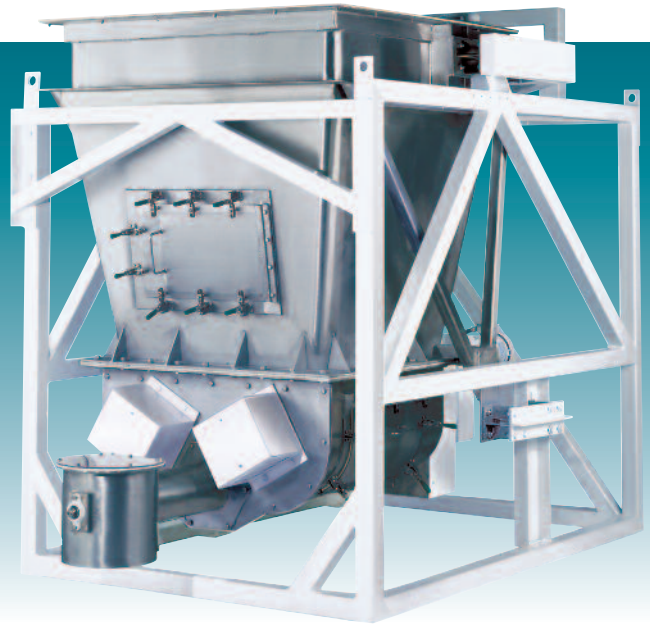


Model 403-BDF-3
"Weight-Loss" Weigh Feeder

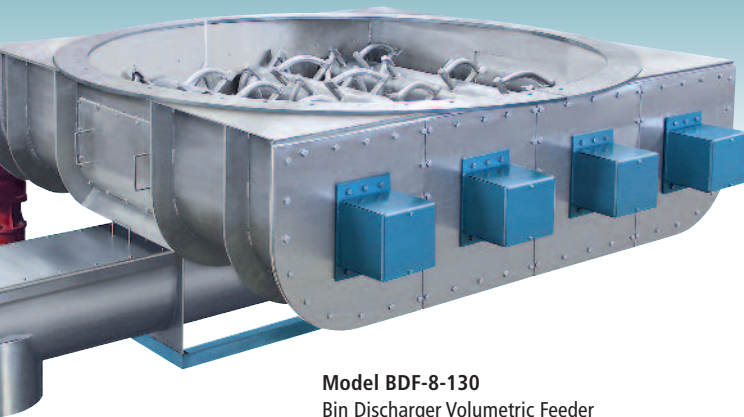
Acrison's Multiple Auger/Agitator Bin Dischargers produce a positive uninterrupted flow of product from storage. To optimize mass flow, Acrison's Multiple Auger/Agitator Bin Discharger Feeders are designed with full throat product inlets without any internal convergence.



Model BDF-4
Bin Discharger Volumetric Feeder



Model 403-BDF-3
"Weight-Loss" Weigh Feeder



Model BDF-8-130
Bin Discharger Volumetric Feeder



Model 404X-BDF-2.5
"Weight-Loss" Weigh Feeder



Model 403-BDF-4
"Weight-Loss" Weigh Feeder

Discover the difference!

We cordially invite you to witness a test in Acrison's state-of-the-art Customer Demonstration Facilities handling your actual product(s) with the specific equipment we recommend for the application. Usually, there is no cost or obligation for this service.

Discover the difference in technology, quality and performance of Acrison equipment.



Empire Boulevard Facility
Moonachie, NJ USA

Acrison products...

- Models 101 and 130 Volumetric Feeder Series
- Models V-101 and V-130 Volumetric Feeders
- Model 1015 Volumetric Feeder Series
- Model 105 Volumetric Feeder Series
- Model W-105 Volumetric Feeder Series
- Model 120 Volumetric Feeder
- Model 140 Volumetric Feeder Series
- Model 170 Volumetric Feeder Series
- Model 905-14 Volumetric Feeder
- Bin Discharger Feeders
- Model 200 Series Weigh Belt Feeders
- Model 203B Series Weigh Auger Feeders
- Model 270 Series of In-Line Weigh Feeders
- Models 402, 404, 405, 406, 407 and 410 Series ("Weight-Loss-Differential") Weigh Feeders
- Model Series 403 ("Weight-Loss-Differential") Weigh Feeders
- Model 403B(D) Batch/Dump Weighing Systems
- Model 404BZ(BU) Bulk Bag Unloader Batch Weigher
- Models 350 and 301 Continuous Blenders and Blending Systems
- Multiple Auger Bin Dischargers and Multiple Auger Bin Discharger Hoppering Systems
- Vibratory Bin Discharger Hoppering Systems
- Model 170-BD-30 Bin Discharger
- Model 800 Series Bulk Bag Unloaders
- Model 500 Series Polyelectrolyte Preparation Systems
- Water and Waste Water Treatment Systems
- Volumetric and Gravimetric Feeder Controllers and Control Systems
- Silo Systems
- Accessory Equipment for Acrison Products
- Systems Engineering



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