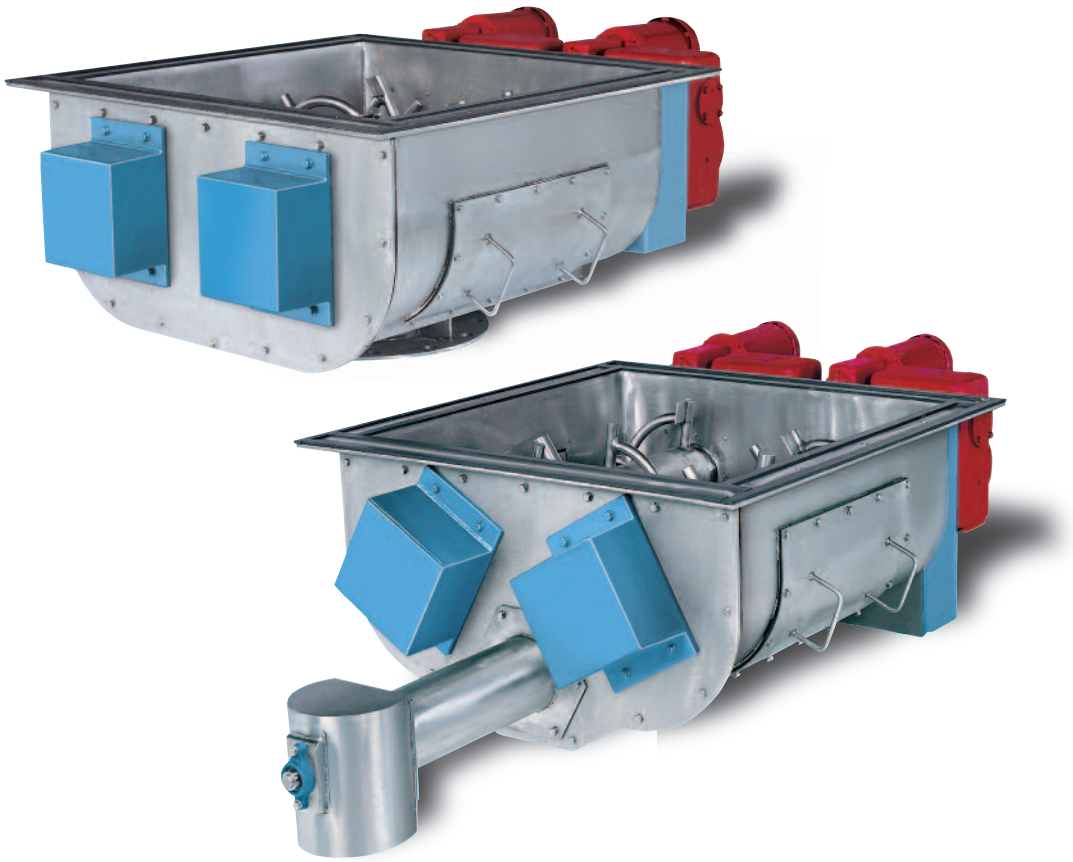
Acrison®

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.

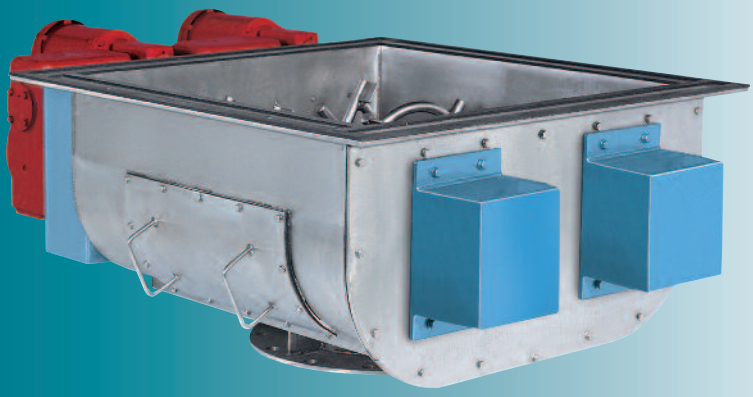
Acrison®

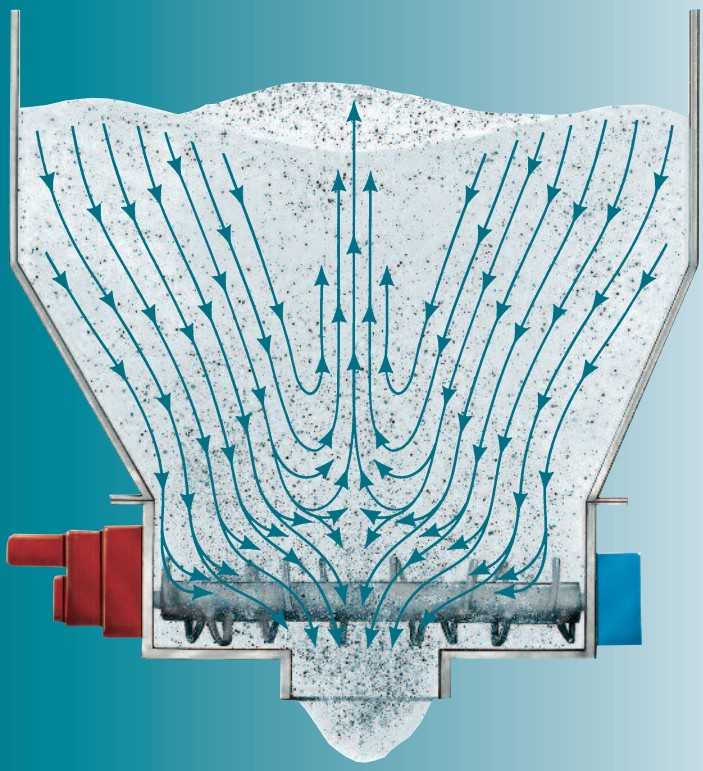
Multiple Auger/Agitator Bin Dischargers

For Dry Solids

For the Positive Discharge of Dry Solid Materials from Storage

Models BD-2, BD-2.5, BD-3, BD-4, BD-5, BD-6 and BD-8





Operation

Within the body of Acrison Bin Dischargers, slowly rotating, innovatively configured Multiple Auger/Agitators generate flow-inducing internal agitation for positive and reliable discharge of the dry solid material contained within, and also, from within the storage bins (hoppers) onto which they're mounted, when furnished by Acrison.

The design of the Bin Discharger body completely eliminates converging flow patterns typical of conical, pyramidal, or wedge type bin bottoms, which are often the source of flow-related problems. Acrison Bin Dischargers are particularly effective for discharging those products that possess difficult-handling characteristics.

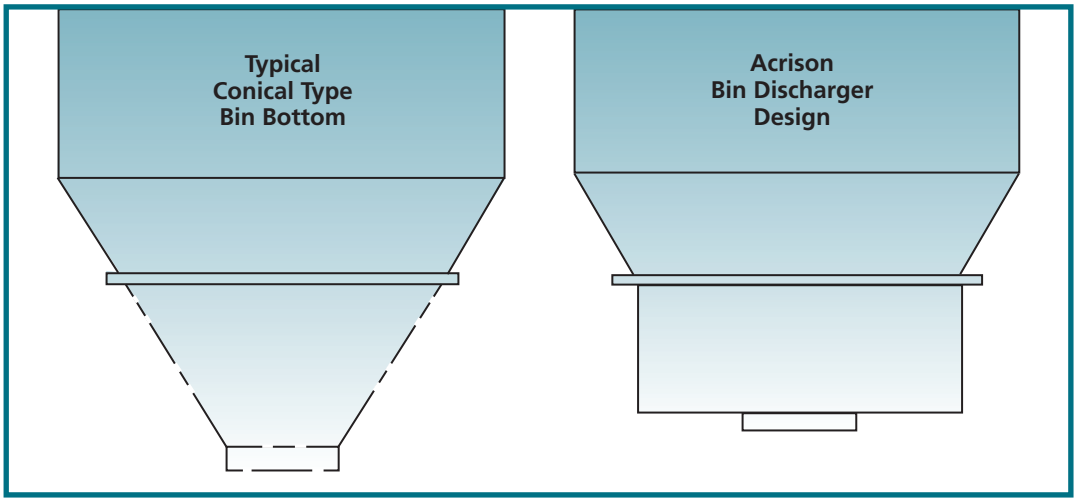
In operation, the Auger/Agitators generate multi-directional internal forces resulting in opposing vertical vectors in the central and perimetric areas within the body of the Bin Discharger. The centrally directed downward vector promotes product discharge, while the opposing vector generates agitating forces upwards into the product stored above. The extent to which such upwards agitation aids in the promotion of downward flow is dependent upon the physical characteristics of the product in conjunction with the design of the storage bin (hopper) onto which the Bin Discharger attaches.

Bin Dischargers may also be available with integral Storage Hoppers, with size selection based on the physical handling characteristics of the product, and application parameters.

Multiple Auger/Agitator Bin Dischargers

Acrison Multiple Auger/Agitator Bin Dischargers have proven extremely effective in promoting the flow of a very broad assortment of dry solid materials typically…

- **When the physical characteristics of a product are such that common methods of removal from storage are unsuccessful.**
- **When the resultant forces created by the action of vibratory flow-inducing devices are problematic.**
- **When head-room is restricted or at a premium.**
- **When flexible sleeves are undesirable and/or when direct flange-attachment to a storage bin and/or auxiliary equipment is preferred.**
- **When internal pressure is a requirement (nominal).**



The basic design of Acrison's Multiple Auger/Agitator Bin Dischargers completely eliminates the convergence typical of conical, pyramidal and wedge type bin bottoms, a primary cause of flow-related difficulties, especially when handling dry solid products that possess poor flow characteristics.

Standard Design Features

- Capable of use with any type hopper, bin or silo, Acrison Multiple Auger/Agitator Bin Dischargers are available with inlet (mounting) flanges measuring 2, 2.5, 3, 4, 5, 6 and 8 feet, round or square.
- Within the body of the Bin Discharger, uniquely configured multiple augers/agitators, operating at a slow speed, generate bi-directional flow-inducing agitation to the product for positive discharge through a centrally located bottom outlet.
- Flanged rigid attachments on both the inlet and outlet eliminate the necessity (and maintenance) associated with flexible connections.
- Individual heavy-duty drives for each auger/agitator.
- Access door(s) can be provided in the body of a Bin Discharger.
- Designed for long, maintenance-free operation.

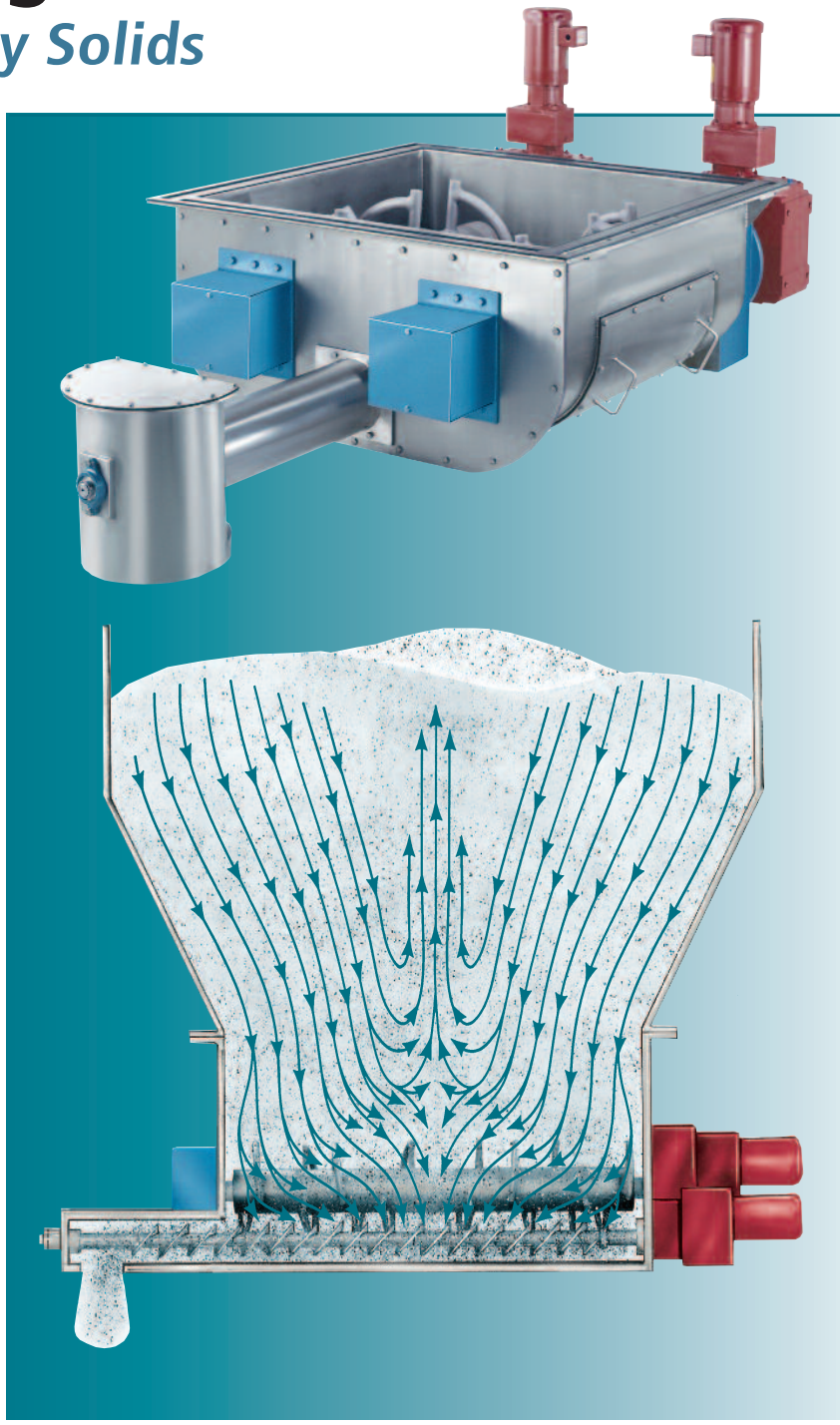
Acrison®

Multiple Auger/Agitator Bin Discharger Feeders

For Dry Solids

For both Discharging and Metering Dry Solid Materials from Storage

Models BDF-2, BDF-2.5, BDF-3 and BDF-4



Operation

Bin Discharger Feeders combine the broad scope versatility and functionality of Acrison's Multiple Auger/Agitator Bin Dischargers (see page 2) with an integral Metering Auger to provide both positive flow and feed of an extremely wide assortment of dry solid products. This configuration also eliminates the additional height and hardware required to mount a separate dry solids feeder beneath a Bin Discharger.

Acrison Bin Discharger Feeders, like its Bin Dischargers, consist of two large Auger/Agitators individually powered by heavy-duty gearmotors operating at relatively slow constant speeds, and a separate centrally positioned Metering Auger. The Metering Auger, which is also powered by a heavy-duty gear-motor, operates at a variable speed.

The overall output capacity for Acrison Bin Discharger Feeders referenced above, ranges between 0.3 and 1700 cubic feet per hour. Depending upon application parameters, higher output capacities may be available.

Larger model Bin Dischargers (sizes, 5, 6 and 8 feet round or square) are not available with integral Metering Augers. However, they are available with an Acrison single auger Model 130C Volumetric Feeder mounted transversely beneath the entire bottom of the Bin Discharger, perpendicular to the Auger/Agitators. Such units are not called Bin Discharger Feeders.

Bin Discharger Feeders are each available with various size integral Storage Hoppers, with size selection based on the physical handling characteristics of the product, and application parameters.

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 Dischargers Feeders are Bin Dischargers Equipped with an Independent Metering Auger to Provide both Positive Flow and Feed



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 130 cubic feet per hour.

Model BDF-2.5

Feed rates up to 300 cubic feet per hour.

Model BDF-3

Feed rates up to 600 cubic feet per hour.

Model BDF-4-1

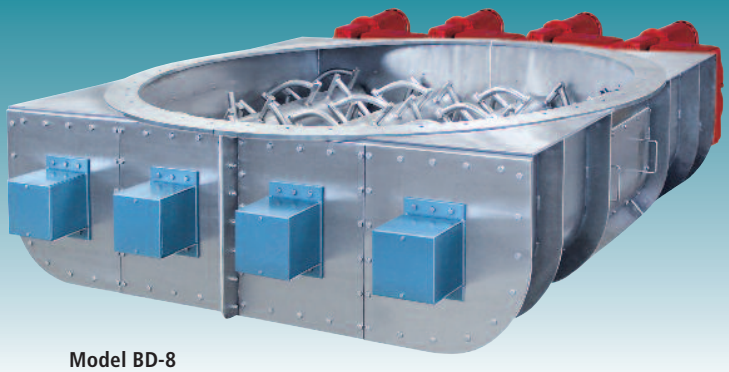
Feed rates up to 1700 cubic feet per hour.

Bin Dischargers and Bin Discharger Feeders

Acrison Multiple Auger/Agitator Bin Dischargers and Bin Discharger Feeders are designed with full throat product inlets (flanged) without any internal convergence



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



Model BD-8
Bin Discharger

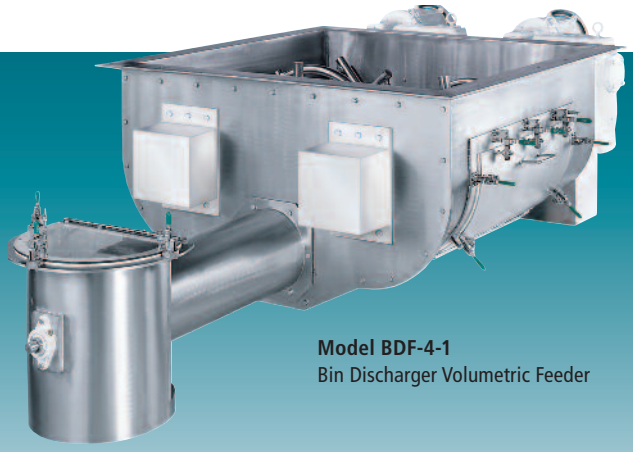


Model 404X-BDF-2
'Weight-Loss' Weigh Feeder

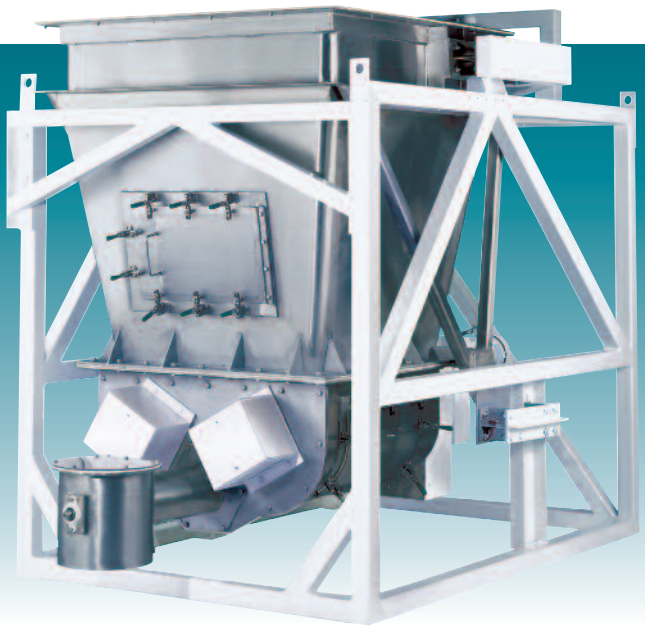


Model 403-BDF-3
'Weight-Loss' Weigh Feeder

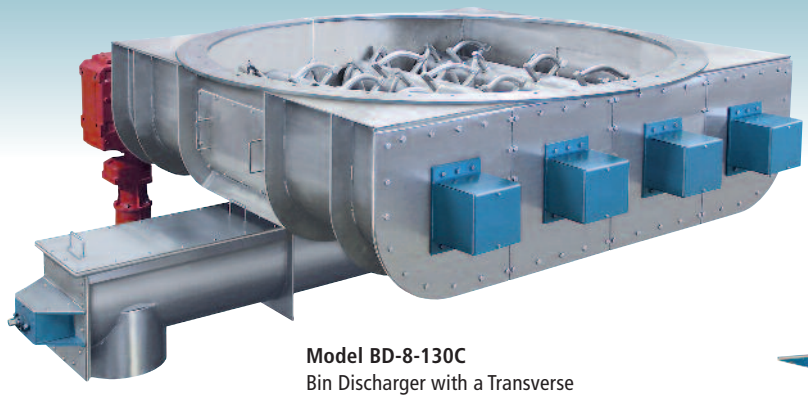
Certain Model Bin Discharger Feeders are used as the Metering Mechanisms for various Acrison 'Weight-Loss' Weigh Feeders



Model BDF-4-1
Bin Discharger Volumetric Feeder



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



Model BD-8-130C
Bin Discharger with a Transverse
Model 130C Feeder



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



Model 403-BDF-4-1
'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



Joseph Street 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 905-18 Volumetric Feeder
- Bin Discharger Feeders
- Model 200 Weigh Belt Feeder Series
- Model 203B Weigh Auger Feeder Series
- Model 270 In-Line Weigh Feeder Series
- Models 402 and 404 Series, 405, 406, 407X, 408 and 410 'Weight-Loss' Weigh Feeders
- Model Series 403 'Weight-Loss' 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
- Models 500, 515, and 580X 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

"Visibly Different... Measurably Better"

Acrison®, Inc.

20 Empire Blvd., Moonachie, NJ 07074
201-440-8300 • Fax: 201-440-4939
Toll Free: 800-4ACRISON
Email: informail@acrison.com
www.acrison.com

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