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international

Volumetric Feeders For Dry Solids

Model 170 Series

World class dry solids volumetric feeders featuring Acrison's rapi-change technology for accurate and dependable feeding of many different poor flowing dry solids in today's flexible processing plants



Model 170 Series Volumetric Dry Solids Feeders

High performance for poor flowing products and rapid product changeovers

A new and technologically advanced dry solids metering mechanism incorporating superior mechanical designs for optimum performance and ease of use. The Model 170 series of 'Flat Bottom' Feeders have the ability to 'self-empty', with the additional facility for 'total and rapid clean-out', yet this unique device has only two moving parts.

Designed with a circular, flat bottom feed chamber with an unrestricted product inlet. The chamber incorporates a slow-speed horizontally rotating conditioning agitator, which ensures positive flow of product from supply hopper into the feed chamber.

The metering auger is located beneath the flat bottom feed chamber, directly below the conditioning agitator and offset to one side. All areas within the feed chamber and metering auger trough are active; consequently, product stagnation does not occur anywhere within the feeder. Complete filling of the metering auger with product of consistent density is ensured by the action of the agitator. The design of this feed chamber ensures almost complete emptying of the feeder via the metering auger, the self empty feature.

When process conditions demand a rapid emptying of the feeder, the secondary discharge port located in the bottom of the feed chamber can be utilised to empty the hopper and feeder by operating the conditioning agitator only.



With the secondary discharge port closed, product is discharged at an accurate rate via the metering auger.

With the secondary discharge port open and the metering auger at rest, the agitator clears any remaining product.

Standard Features

- Circular flat bottom feed chamber for minimal product residue
- Separately driven conditioning agitator for poor flowing products
- Self emptying design
- Secondary discharge port allows rapid emptying off line
- Total and rapid clean-out capability with quick disassembly design
- Metering auger drive easily removable on slide rails
- Only two moving parts
- Modular construction for easy component change
- All stainless steel product contact surfaces
- All steel construction
- Less than 25dbA when empty

Optional or Accessory Equipment

- Active Hopper design utilising high frequency vibration
- Quick disconnect
- Tilt back hopper design
- High temperature construction
- Loss in weight configuration

Some options may not be available on all models.

"Its secondary discharge port makes product changeovers on line much faster than other feeders and has reduced product losses"

The Model 170 Series of Feeders utilise two separate drives – one for the agitator and one for the metering auger. The slow speed agitator is usually driven by a constant speed gearmotor, and the metering auger by a variable speed drive. However, for optimum flexibility in certain applications, both the agitator and metering auger may be powered by variable speed drives, operating in a ratio (adjustable) to each other. In either case, the gear-reduction portion of each drive is permanently lubricated with a synthetic lubricant.

Model Summary

Model Ref	170-00	170-0	170-1	170-2	170-3
Inlet diameter mm	230	330	450	600	760
Conditioning Agitator Drive AC kW	0.18	0.25	0.55	0.75	1.1
Metering Auger Drive DC kW	0.18	0.25	0.55	0.75	1.1
Approx. kgs	80	190	250	300	450
Feed Range l/h	0.1-180	0.5-610	8-1590	28-3360	40-6800

Due to continuous product development, specifications may be subject to change. See data sheet for further technical information.

Acrison – visibly different, measurably better



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Test Centre

We operate a fully equipped test facility at our Manchester, UK headquarters. Customers are encouraged to witness trials on their products, not only at full production rates but also over extended periods, to allow a comprehensive evaluation of feeder performance.



More Support

Should you have an application for which you believe our metering feeders would be suited then please do not hesitate to give us a call or visit our web site at www.acrisonint.net We would be delighted to have the opportunity to tell you more.

Customer Satisfaction

This is our primary aim through offering the very best in solids metering equipment. As testament to this, today thousands of our feeders are giving accurate and reliable performance world-wide. Their performance and dependability is unrivalled, making life easier for those who depend on us and enhancing the quality of their product too.



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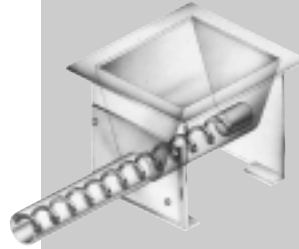
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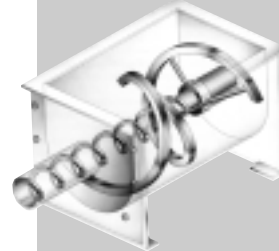
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Other Volumetric Feeders



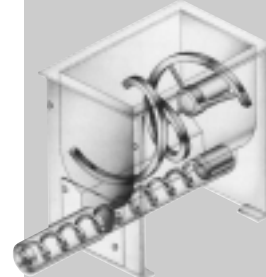
Series 101 and 130

Single metering auger for free flowing granular materials



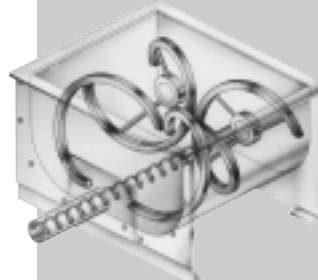
Series 105 and 140

Double concentric augers to accommodate a wide variety of materials



Series 1015

Dual augers for medium free flowing materials and minimal product residue



Series BDF

Dissimilar speed triple auger mechanism for the most difficult non-free flowing materials

Other Acrison Products...

- Models V101 and V130 Fibreglass Feeders
- Model W105 Volumetric Feeder Series
- Model 200 Series of Weigh Belt Feeders
- Model 203B Series of Weigh Auger Feeders
- Models 401, 402 and 404, 405 and 406 ("Weight-Loss-Differential") Weigh Feeders
- Model 403 Series ("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 Dischargers
- Model 500 Series of Polyelectrolyte Metering and Wetting Systems
- Water and Waste Water Treatment Systems
- Volumetric and Gravimetric Feeder Controllers and Control Systems
- Model 270 In-line Weigh Feeder