



**acrison**<sup>®</sup>  
international

## Volumetric Feeders For Dry Solids

Models 105 and 140

World class dry solids  
volumetric feeders  
featuring Acrison's  
unique, dissimilar speed  
double concentric  
auger metering  
mechanism for  
accurate, dependable  
and versatile metering  
performance



## Models 105 and 140 Series Volumetric Dry Solids Feeders

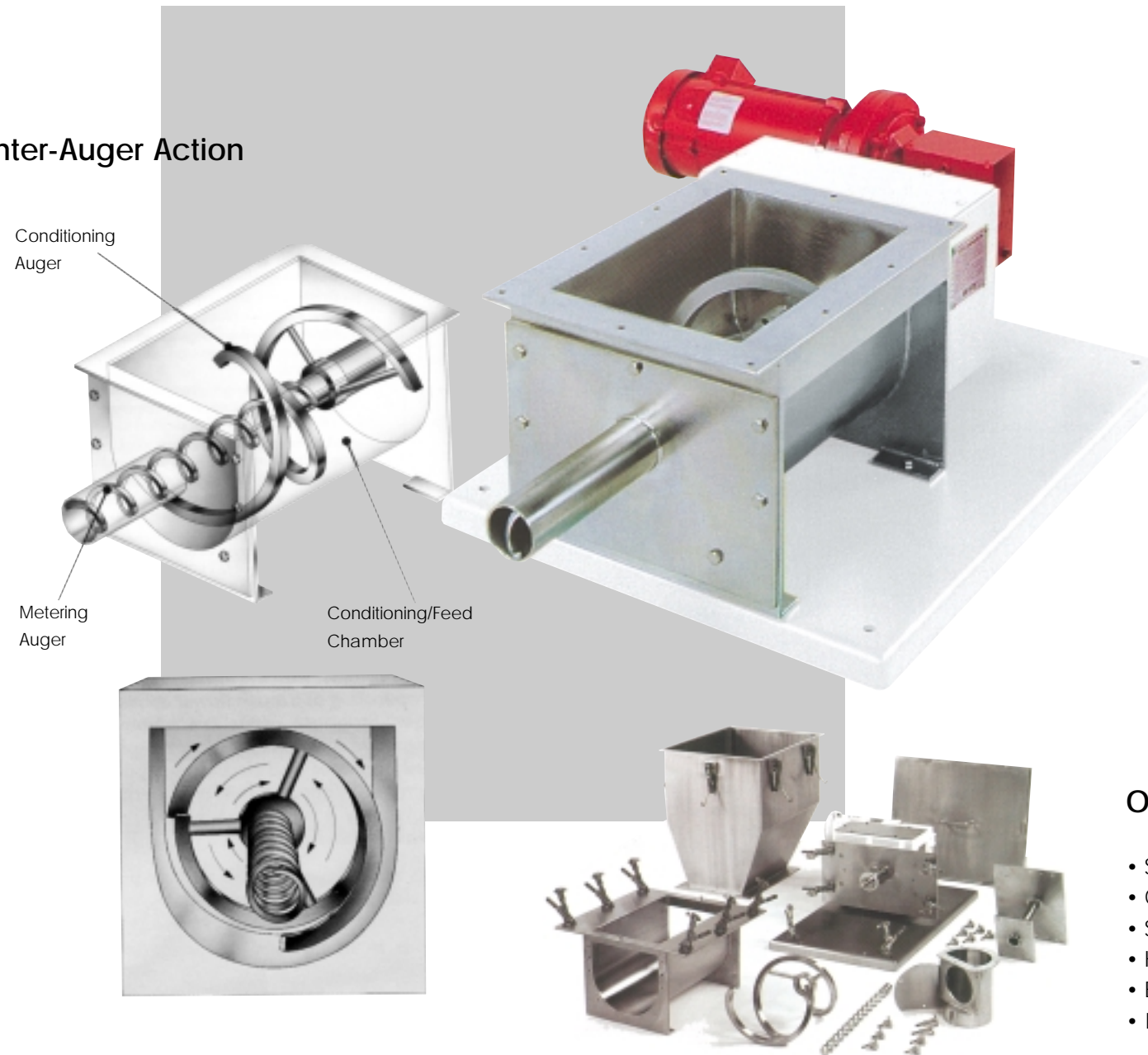
### Double Concentric Auger Feeders with Inter-Auger Action

Acrison's dissimilar speed double concentric auger metering mechanism generates a unique 'Inter-Auger-Action'. This gently 'conditions' the material to a uniform density while simultaneously filling the centrally located metering auger from a full 360 degrees.

Many volumetric feeders utilise a single auger located at the bottom of a converging trough, across which amorphous products easily and often bridge, even if the trough is vibrated or agitated. However, the configuration of Acrison's dissimilar speed, double concentric auger feeders assure both positive flow and consistent feeding. Thus they always maintain total control of the product for optimum levels of performance.

The outer, conditioning auger, rotates in the same direction as the inner metering auger, but at a much slower speed. The two augers are mechanically geared together and powered by a single motor.

Metering accuracies generally range between  $\pm 1$  to 2 percent or better (error) for the majority of products. Accuracy is based on a given number of consecutive one minute samples.



### Standard Features

- Large inlet area eliminates bridging potential
- Conditioning auger creates area of constant density and fills the metering auger from 360°
- Oil free Gearbox separated from feed chamber, eliminating potential product contamination
- All steel construction
- Conditioning Auger, discharge cylinder, dual auger drive shafts and seal components are 304 stainless steel
- Metering auger is 316 stainless steel
- Modular construction for easy component change
- Sturdy base plate for stability and ease of installation
- Dust-tight, heavy-duty construction
- Less than 25 dbA when empty

### Optional or Accessory Equipment

- Standard hoppers constructed of stainless steel
- Quick-disconnect construction for ease of cleanout
- Sanitary construction to satisfy USDA and FDA codes
- High temperature construction
- Extended length metering auger
- Loss in weight configuration

### "An extremely effective dry solids metering design..."

For an auger type dry solids volumetric feeder to feed accurately, its metering auger must be uniformly and consistently filled with product. Acrison's dissimilar speed double concentric auger mechanism effectively and efficiently fills the metering auger from a full 360 degrees.

### Model Summary

Model Ref	105-00	105-0	105-1	105-2	140-0	140-1	140-2
Inlet mm	165 x 200	165 x 300	230 x 340	310 x 440	310 x 520	405 x 740	500 x 895
Conditioning Auger mm	150	150	225	300	300	380	460
Std DC Motor kW	0.37	0.37	0.55	0.75	0.75	2.2	3.7
Approx. kgs	90	100	110	150	300	480	660
Feed Range l/h	0.5-980	0.5-980	4.5-4730	13-9200	6800-16990	25490-50980	67970-96290

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

**Acrison – visibly different, measurably better**

## 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](http://www.acrisonint.net) We would be delighted to have the opportunity to tell you more.

## Customer Satisfaction

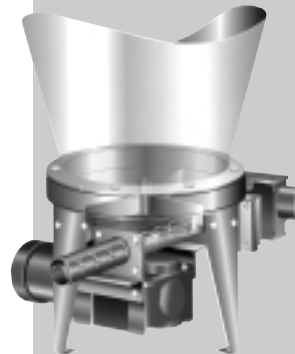
This is our primary aim through offering the very best in solids metering equipment. As testament to this, today thousands of our feeders are giving accurate and reliable performance world-wide. Their performance and dependability is unrivalled, making life easier for those who depend on us and enhancing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



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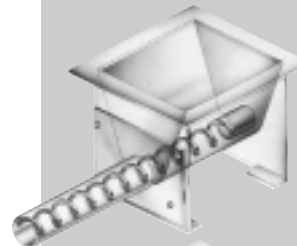
For further information, visit our web site. To discuss an application, give us a call.

## Other Volumetric Feeders



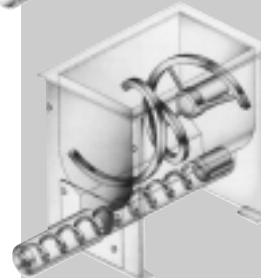
### Series 170

The unique chamber configuration is the basis of ultra-hygienic, self-emptying 'Flavour Applicators' specifically for food industry applications and self emptying 'RapiChange' feeders for the plastics industry



### Series 101 and 130

Single metering auger for free flowing granular 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