

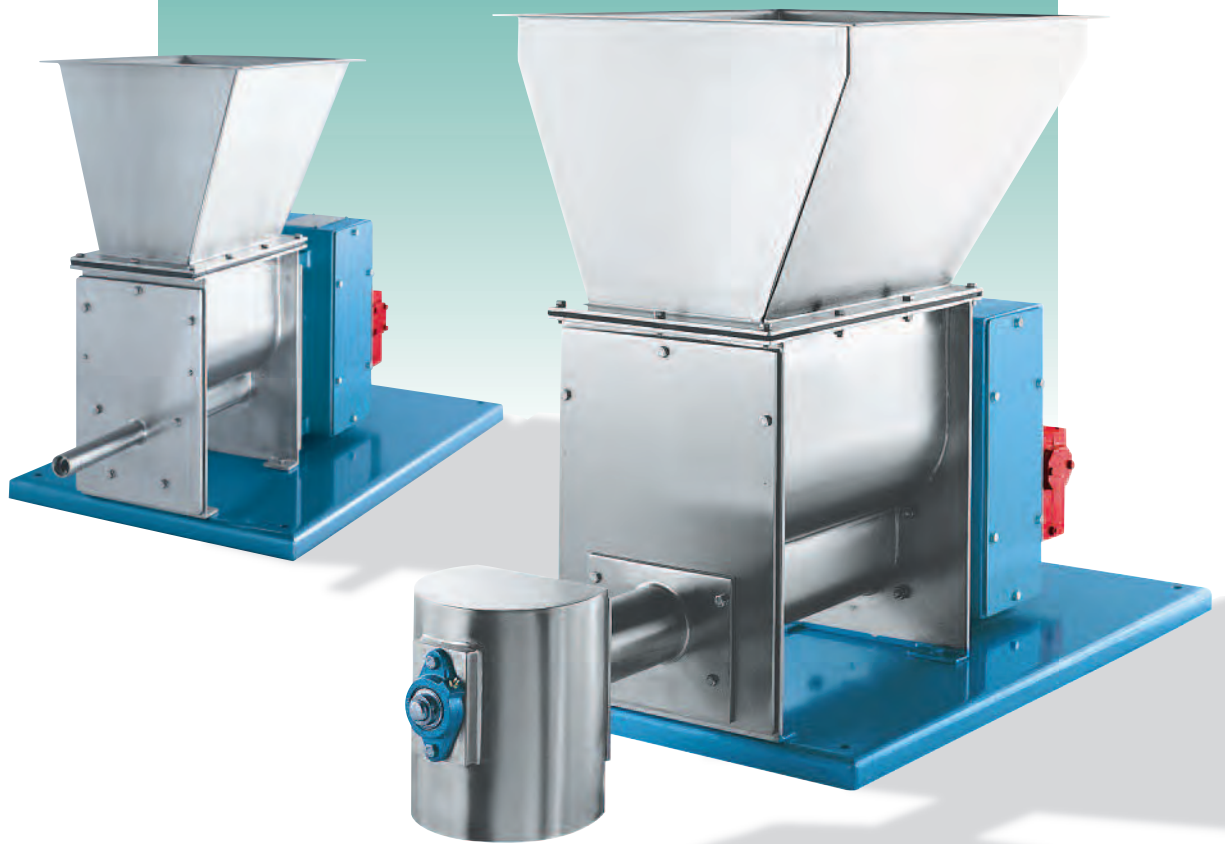
Acrison®

Design Specifications
1-200-0481

VOLUMETRIC FEEDERS

Model 1015 Series

For Dry Solid Materials



A versatile, rugged-duty volumetric dry solids feeder series featuring a dissimilar speed, metering auger/conditioning agitator mechanism, specifically configured to ensure both product flow and feed, and to self-empty.

— Built to Last —

VOLUMETRIC FEEDERS

Model 1015 Series

For Dry Solid Materials

Featuring a dissimilar speed, dual auger/agitator metering mechanism in a self-emptying configuration.

Introduction

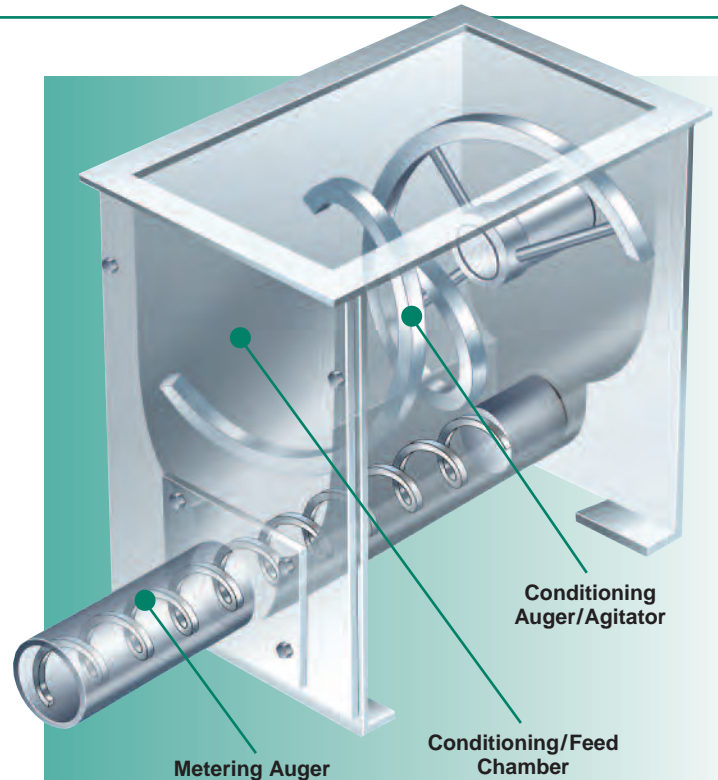
Acrison's Model 1015 Series of Dry Solids Volumetric Feeders feature a "conditioning" auger (or agitator) mounted above a smaller metering auger in a specially contoured feed chamber.

Rotation of the conditioning agitator produces bi-directional agitation of product within the feeder's feed chamber ensuring positive downward flow of product while simultaneously, filling the metering auger with material of consistent density.

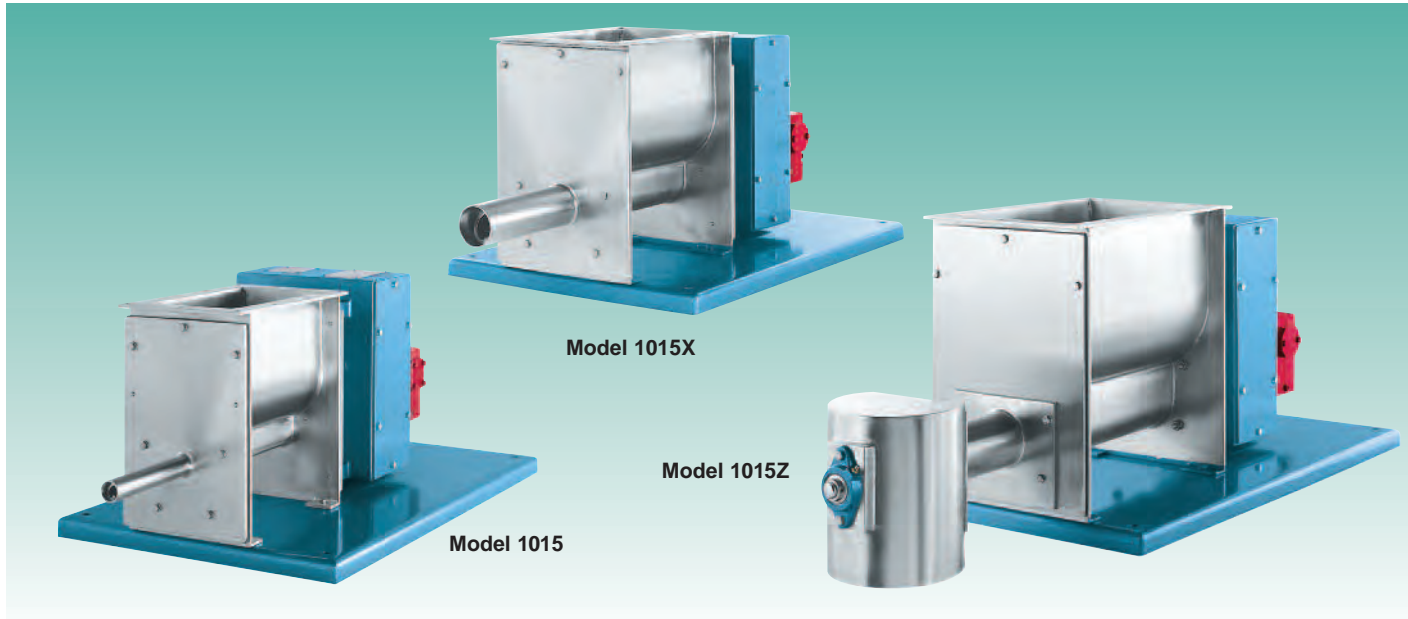
The conditioning agitator and metering auger rotate at *dissimilar speeds*, with the larger conditioning agitator operating at a much slower speed than the metering auger. Stagnant areas are eliminated by the design of the feed chamber in conjunction with rotation of the agitator which continuously circulates product. When the feeder is permitted to feed until empty, only a minimal amount of material will remain within the unit.

For the Models 1015, 1015X and 1015Z, the conditioning agitator is mechanically geared together with the metering auger in a common drive network, powered by a single variable speed gearmotor.

For the Models 1015XX and 1015YY, the conditioning agitator is normally driven by a constant speed gearmotor; the metering auger is powered by a variable speed gearmotor drive. However, based on product handling characteristics and/or application parameters, the conditioning agitator may also be driven by a variable speed gearmotor operating proportionally to the speed of the metering auger.



Models 1015, 1015X and 1015Z Volumetric Feeders



Model 1015

Utilizes a 6 inch diameter conditioning agitator. The feeder is powered by a 1/2 horsepower variable speed gearmotor drive.

Model 1015X

Utilizes an 8 inch diameter conditioning agitator. The feeder is powered by a 3/4 horsepower variable speed gearmotor drive.

Model 1015Z

Utilizes a 10 inch diameter conditioning agitator. The feeder is powered by a 1 horsepower variable speed gearmotor drive.

Standard Features

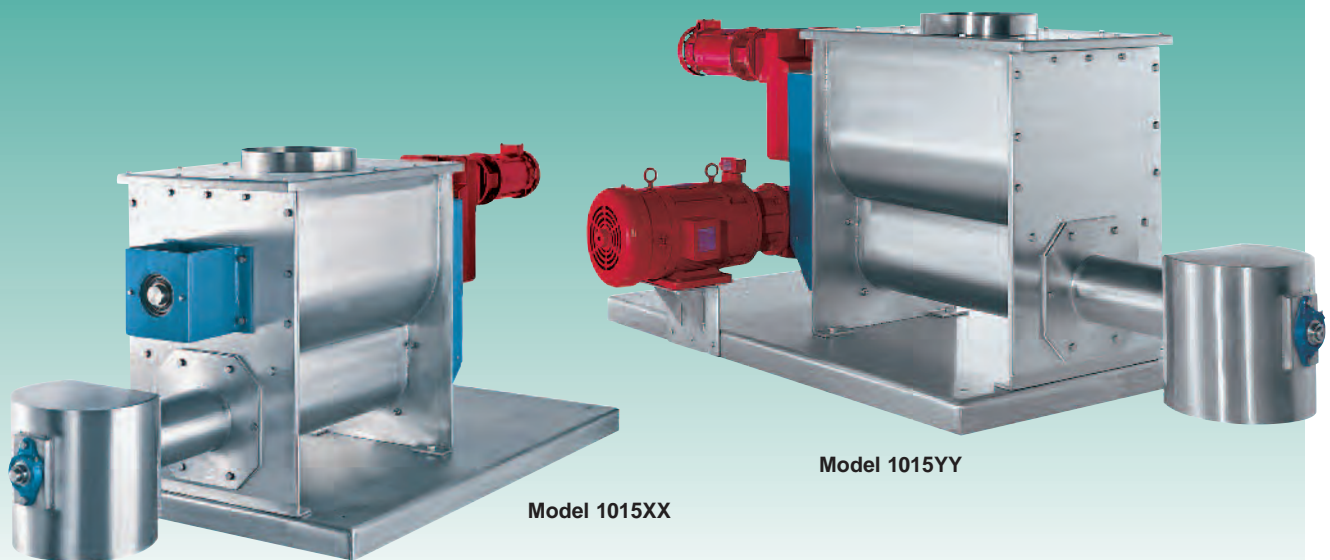
for the Models 1015, 1015X and 1015Z Volumetric Feeders

- All contact parts are 304 stainless steel.
- Furnished with a one cubic foot supply hopper, flanged feed chamber, or a flanged feed chamber with a cover having a circular inlet.
 - Maximum circular cover inlet sizes (OD) are as follows:

1015	.....	6 inches
1015X	.....	8 inches
1015Z	.....	10 inches
 - Flanged rectangular feed chamber inlet sizes (inside dimensions) are as follows:

1015	.....	6 ¹ / ₂ " x 11 ¹ / ₂ "
1015X	.....	8 ¹ / ₂ " x 13 ¹ / ₂ "
1015Z	.....	10 ¹ / ₂ " x 17 ³ / ₈ "
- The two drive shafts and seal components are 304 stainless steel.
- The metering auger is 316 stainless steel.
- The conditioning agitator is flange-attached to its drive shaft. The metering auger utilizes a threaded attachment to its drive shaft.
- Furnished with a variable speed AC or DC gearmotor drive with either a 30:1 or 50:1 speed range.
- Totally enclosed motor.
- Dust-tight, heavy-duty construction.
- Silent when operating.

Models 1015XX and 1015YY Volumetric Feeders



Model 1015XX

Utilizes a 15 inch diameter conditioning agitator, typically driven by a constant speed, 3/4 horsepower gearmotor drive. The metering auger is powered by a 2 horsepower variable speed AC or DC gearmotor. Depending upon the application, the agitator may also be driven by a variable speed AC or DC gearmotor, electronically operated in proportion to the speed of the metering auger.

Model 1015YY

Utilizes an 18 inch diameter conditioning agitator, typically driven by a constant speed, 1 horsepower gearmotor drive. The metering auger is powered by a 3 horsepower variable speed AC or DC gearmotor. Depending upon the application, the agitator may also be driven by a variable speed AC or DC gearmotor, electronically operated in proportion to the speed of the metering auger.

Standard Features

for the Models 1015XX and 1015YY Volumetric Feeders

- All contact parts are 304 stainless steel.
- Furnished with either a flanged (rectangular) feed chamber or a flanged feed chamber with a cover having a circular inlet.
 - Maximum circular cover inlet sizes (OD) are as follows:
 - 1015XX 16 inches
 - 1015YY 20 inches
 - Flanged rectangular feed chamber inlet sizes (inside dimensions) are as follows:
 - 1015XX 16¹/₂" x 29³/₈"
 - 1015YY 20" x 35³/₈"
- The two individually driven drive shafts and seal components are 304 stainless steel.
- The conditioning agitator is flange-attached to its drive shaft.
- The metering auger utilizes a threaded attachment to its drive shaft.
- The metering auger is furnished with a variable speed AC or DC gearmotor drive with either a 30:1 or 50:1 speed range.
- The conditioning agitator is normally driven by a heavy-duty constant speed gearmotor.
- Both motors are totally enclosed.
- Dust-tight, heavy-duty construction.
- Silent when operating.

Model 1015 Series of Volumetric Feeders



Optional or Accessory Equipment for the Model 1015 Series of Feeders

- Various materials of construction.
- Model 1015 Series of Feeders are available with integral supply hoppers up to eight cubic feet in capacity (depending upon the specific model and material flow characteristics).
- For the Models 1015XX and 1015YY, integral supply hoppers are available. Please contact Acrison.
- Various variable speed AC and DC motor controllers and control modes.
- Quick disconnect construction for ease of cleanout (certain models).
- Sanitary construction to satisfy USDA and FDA codes (certain models). Includes quick disconnect construction.
- Threaded attachment for the conditioning agitator (certain models).
- High temperature construction.
- Pressure construction.

Capacities

The capacity charts indicate the typical output range for each standard size metering auger available with the referenced Model 1015 Volumetric Feeders.

Since the physical properties of the actual product being metered may have an effect upon the exact output, the stated capacities could vary.

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

MODELS 1015, 1015X and 1015Z CAPACITY CHART
(Capacities shown in cubic feet per hour)

Model Size	Minimum Output		Maximum Output
	30:1 Speed Range	50:1 Speed Range	
1015-A	0.002	0.0012	0.06
1015-B	0.005	0.003	0.15
1015-BC	0.0127	0.0076	0.38
1015-BB	0.018	0.0108	0.54
1015-C	0.03	0.018	0.9
1015-CC	0.047	0.028	1.4
1015-D	0.08	0.048	2.4
1015-DD	0.14	0.084	4.2
1015-E	0.2	0.12	6
1015-EE	0.29	0.174	8.7
1015-F	0.47	0.28	14
1015-FF	0.63	0.38	19
*1015-G	0.97	0.58	29
*1015-GG	1.4	0.84	42
*1015-H	1.7	1.02	51
*1015-HH	2.4	1.4	72
**1015-K	3.2	1.9	96
**1015-KK	3.9	2.4	118
**1015-M	5.3	3.2	160
**1015-N	6.7	4.0	202

* Available on the Models 1015X and 1015Z only.
** Available on the Model 1015Z only.

MODELS 1015XX and 1015YY CAPACITY CHART
(Capacities shown in cubic feet per hour)

Model Size	Minimum Output		Maximum Output
	30:1 Speed Range	50:1 Speed Range	
1015XX-NN	8	4.8	240
1015XX-P	11	6.4	320
1015XX-R	20	12	600
1015XX-S	30	18	900
1015XX-T	40	24	1200
1015YY-U	60	36	1800
1015YY-V	80	48	2400
1015YY-W	113.3	68	3400

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



Trafford Park Facility
Manchester, UK



Joseph Street Facility
Moonachie, NJ USA

Acrison products...

- Models 101 and 130 Volumetric Feeders
- 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 of Weigh Belt Feeders
- Model 203B Series of Weigh Auger Feeders
- Model 270 Series of In-Line Weigh Feeders
- Models 402, 404, A405, 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 Dischargers
- Model 170-BD-30 Bin Dischargers
- Model 800 Series of Bulk Bag Unloaders
- Model 500 Series of Polyelectrolyte Preparation Systems
- Water and Waste Water Treatment Systems
- Volumetric and Gravimetric Feeder Controllers and Control Systems
- Accessory Equipment for Acrison Products
- Systems Engineering

Quality built, total performance products to satisfy
your dry solids metering/handling needs.

Acrison®

"Visibly Different... Measurably Better"

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