

## **BULK STORAGE SERIES** **VARIABLE SPEEDS ADJUST TO** **FLOW RATE**

Screw Conveyors are designed to convey flowable solid materials. The units give you maximum efficiency when moving materials from their source to process. Our Screw Conveyors offer variable speeds to adjust the flow of material to match the speed of other machines and systems. Our extensive line of auger systems feature coreless, solid core, and specialty augers.



### **Features**

- Coreless Auger or Solid Core Auger (Varies By Model)
- Heavy Duty 14 Gauge Construction
- Two Way Fork Lift Entries
- Stacking Pads for Feeding from Portable Bins
- Dust Seals and Industrial Bearings On Idler Ends
- Various Degrees of Auger Incline
- Quick Disconnect Tube and Auger for Ease of Cleaning
- Complete Drive and Control Packages Available: Price Separately
- Painted Warm Gray

### **Options**

- Available In Various Materials Of Construction
- Special Paint
- Drive Packages Available In Top Or Bottom Drive Position
- Level Indicators
- Covers
- Special Configurations For Difficult Flowing Material
- Tube & Screw For Additional Discharge Height Available
- Bag breaking grate or bag breaking grate with blade
- Anti-bridging agitation (120V 1ph or 480V 3 ph)
- Various drive packages
- Control packages, control box, power bin (120V 1ph, 480V 3ph, or 240V 3ph)



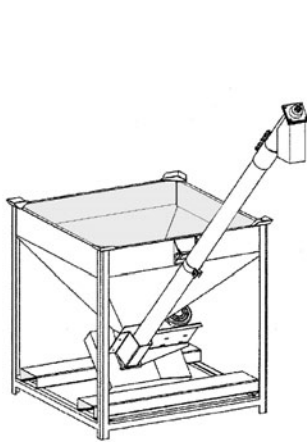
## BULK STORAGE SERIES



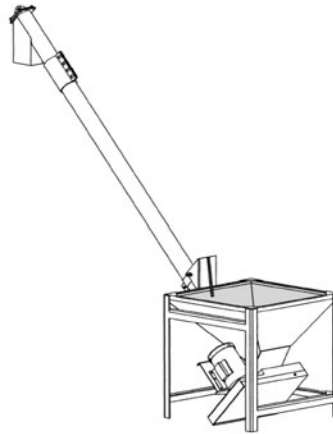
### SPECIFICATIONS

Capacity, cu. ft.	Auger	Type	Drive	Incline	Discharge Height
15	3.5" coreless	Std. easy-flo	Bottom	45°	7'8"
15	3.5" coreless	Std. easy-flo	Bottom	30°	8'
15	3.5" coreless	Std. easy-flo	Bottom	60°	9'4"
15	3.5" coreless	Std. easy-flo	Top	45°	7'8"
15	3.5" coreless	Std. easy-flo	Top	30°	8'
15	3.5" coreless	Std. easy-flo	Top	60°	9'4"
10	3.5" coreless	Live-bottom easy-flo	Bottom	30°	7'5"
10	3.5" coreless	Live-bottom easy-flo	Bottom	45°	10'7"
10	3.5" coreless	Live-bottom easy-flo	Bottom	60°	13'8"
5	3.5" coreless	Mighty-mite easy-flo	Bottom	45°	9'4"
5	3.5" coreless	Mighty-mite easy-flo	Bottom	60°	9'4"
15	4" L.D. solidcore	Std. easy-flo	Bottom	45°	7'
15	4" L.D. solidcore	Std. easy-flo	Bottom	60°	8'
15	4" L.D. solidcore	Std. easy-flo	Top	45°	7'
15	4" L.D. solidcore	Std. easy-flo	Top	60°	8'
5	4" L.D. solidcore	Mighty-mite easy-flo	Bottom	45°	7'
5	4" L.D. solidcore	Mighty-mite easy-flo	Bottom	60°	8'
15	4" H.D. solid core	Std. easy-flo	Bottom	45°	6'8"
15	4" H.D. solid core	Std. easy-flo	Bottom	60°	8'
15	4" H.D. solid core	Std. easy-flo	Top	45°	7'
15	4" H.D. solid core	Std. easy-flo	Top	60°	8'
5	4" H.D. solid core	Mighty-mite easy-flo	Bottom	45°	6'8"
5	4" H.D. solid core	Mighty-mite easy-flo	Bottom	60°	8'
15	5" coreless	Std. easy-flo	Bottom	45°	7'8"
15	5" coreless	Std. easy-flo	Bottom	30°	8'
15	5" coreless	Std. easy-flo	Bottom	60°	9'4"
15	5" coreless	Std. easy-flo	Top	45°	7'8"
15	5" coreless	Std. easy-flo	Top	30°	8'
15	5" coreless	Std. easy-flo	Top	60°	9'4"
10	5" coreless	Live-bottom easy-flo	Bottom	30°	7'5"
10	5" coreless	Live-bottom easy-flo	Bottom	45°	10'7"
10	5" coreless	Live-bottom easy-flo	Bottom	60°	13'8"
5	5" coreless	Mighty-mite easy-flo	Bottom	45°	9'4"
5	5" coreless	Mighty-mite easy-flo	Bottom	60°	9'4"
15	6" L.D. solid core	Std. easy-flo	Bottom	45°	6'8"
15	6" L.D. solid core	Std. easy-flo	Bottom	60°	8'
15	6" L.D. solid core	Std. easy-flo	Top	45°	6'8"
15	6" L.D. solid core	Std. easy-flo	Top	60°	8'
5	6" L.D. solid core	Mighty-mite easy-flo	Bottom	45°	6'8"
5	6" L.D. solid core	Mighty-mite easy-flo	Bottom	60°	8'
15	6" H.D. solid core	Std. easy-flo	Bottom	60°	8'
15	6" H.D. solid core	Std. easy-flo	Bottom	45°	6'8"
15	6" H.D. solid core	Std. easy-flo	Top	60°	8'
15	6" H.D. solid core	Std. easy-flo	Top	45°	6'8"
5	3" light duty	Verta Auger	5:1 direct gear	Vertical-12°	8'

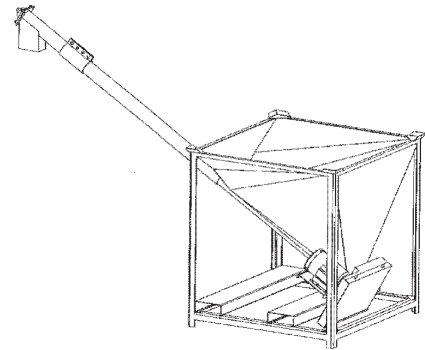
**BULK STORAGE SERIES**



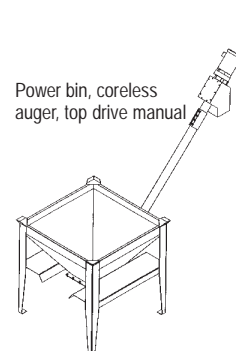
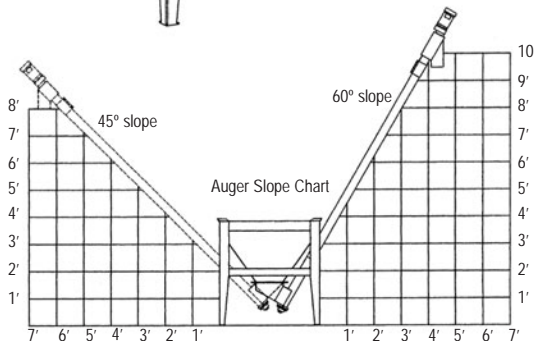
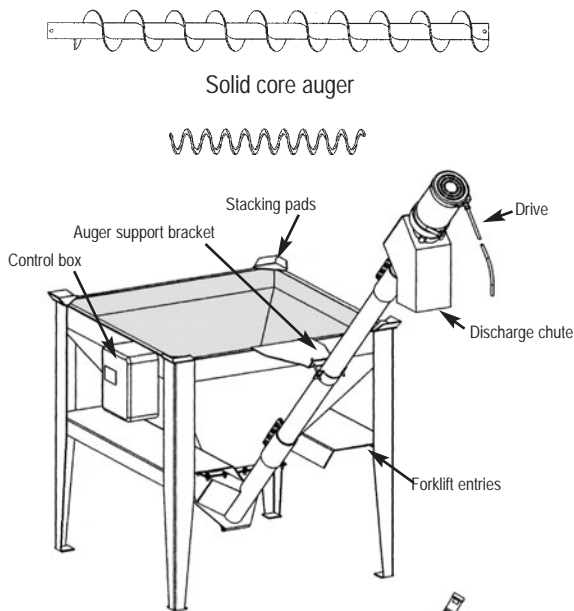
Standard Easy-flo power bin



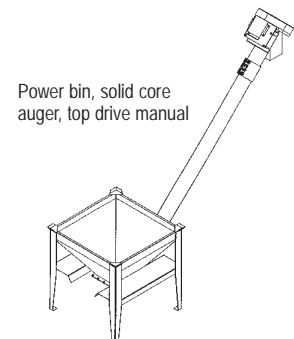
Mighty Mite Easy-flo power bin



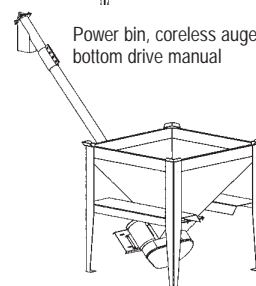
Live bottom power bin manual



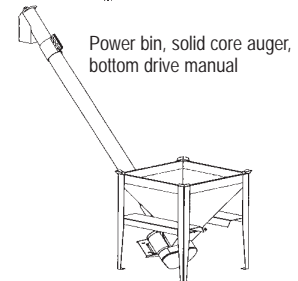
Power bin, coreless auger, top drive manual



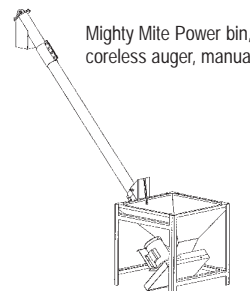
Power bin, solid core auger, top drive manual



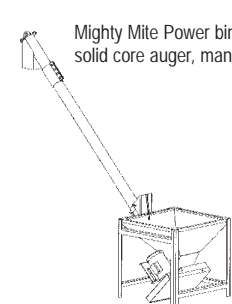
Power bin, coreless auger, bottom drive manual



Power bin, solid core auger, bottom drive manual



Mighty Mite Power bin, coreless auger, manual



Mighty Mite Power bin, solid core auger, manual



## BULK STORAGE SERIES

### DRIVE PACKAGES

VS/FS	HP	Voltage	Phase
VS	5	230	3
VS	5	460	3
FS	1		1
VS	1	230	1
VS	1	230	3
FS	1.5		1
FS	1.5		3
VS	1.5	230	1
VS	1.5	230	3
VS	1.5	460	3
FS	2		1
FS	2	480	3
FS	3	480	3
VS	2	230	1
VS	2	230	3
VS	2	460	3
VS	3	230	3
VS	3	460	3

### VERTA AUGER POWER BIN

- Vertical to 12° off vertical
- Includes 3.5" tube and 3" screw for a 8' discharge height
- 3/4 HP, 1 phase, 1725 RPM, 5:1 direct gear drive
- 20" x 24" x 40"
- One piece piano hinge cover
- Adjustable flow control
- 4" heavy-duty casters
- Palm button on/off
- 14 gauge construction
- 60 cu. ft./hr conveying capacity

### AUGER SYSTEM POLICY

Sterling standard augers and auger systems are designed to move dry, granular materials.

Modifications to augers, bins, and tubing or troughs will accommodate many other material types and bulk densities. To ensure the performance of augers and auger system, a sample of material should be sent to Sterling.

Contact your salesperson to arrange material testing. (All materials to be shipped prepaid.)

Upon testing completion, a test report will be faxed to the customer and materials will be shipped collect to their origination point. Stock augers or auger systems purchased without material testing or preauthorization by Sterling are subject to a 20% restocking fee, refurbishing charge and all shipping expenses, if returned for performance deficiency.

Custom auger or auger systems purchased without material testing or preauthorization by Sterling are subject to a no return policy for performance deficiency.

This Auger System Policy is designed to expedite auger systems design, and minimize unacceptable product performance.

Forward any material flow questions to the Sterling Engineering Department.



# BULK STORAGE SERIES

## MATERIAL DATA SHEET



DATE \_\_\_\_\_

COMPANY \_\_\_\_\_

STREET \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

NAME/TITLE \_\_\_\_\_

TELEPHONE (\_\_\_\_) \_\_\_\_\_

FAX (\_\_\_\_) \_\_\_\_\_

INSTALLATION LOCATION (if different from above):

COMPANY \_\_\_\_\_

STREET \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

### IMPORTANT

**PLEASE SEND A SAMPLE OF ACTUAL MATERIAL TO BE CONVEYED, WITH MSDS SHEET IF APPLICABLE.**

### MATERIAL CHARACTERISTICS

(Generic and manufacturer trade name or product number):

\_\_\_\_\_

\_\_\_\_\_

#### MATERIAL FORM

Pellet  Irregular

Powder  Fiber

Granular  Blend

Flake (please check all material comprising blend)

Other (specify): \_\_\_\_\_

\_\_\_\_\_

**PARTICLE SIZE** (Mesh or actual dimensions in inches):

\_\_\_\_\_

Similar to (comparable material):

\_\_\_\_\_

**BULK DENSITY** (List one if constant)

Packed (densified) \_\_\_\_\_pounds/cubic foot

Loose (aerated) \_\_\_\_\_pounds/cubic foot

**FLOWABILITY**

Very free-flowing (angle of repose 30° or less)

Free-flowing (angle of repose 30° to 45°)

Semi free-flowing (angle of repose 45° to 60°)

Non free-flowing (angle of repose 60° and above)

**TEMPERATURE**

Ambient

Other (specify): \_\_\_\_°F

**MOISTURE CONTENT**

\_\_\_\_\_%

**ABRASIVENESS**

Extreme

Mild

Not abrasive

**CORROSIVENESS**

Extreme

Mild

Not corrosive

**DEGRADABLE OR BREAKABLE**

(Affecting use or saleability)

**COMPRESSIBLE/RUBBERY**

**AERATES OR BECOMES FLUIDIZED**

**SOLIDIFIES:** if left to sit or if vibrated

for (period of time): \_\_\_\_\_

**PACKS, CAKES, OR SMEARS**

**UNDER PRESSURE**

**BRIDGES OR CAVITATES WHEN HOPPERED**

**INTERLOCKS OR MATTS, RESISTING FLOW**

**RAT HOLES WHEN HOPPERED**

**HYGROSCOPIC**

**HAZARDOUS**

Toxic

Acidic

Flammable

Explosive Dust

Other \_\_\_\_\_

**OTHER CHARACTERISTICS:**

\_\_\_\_\_

\_\_\_\_\_



# BULK STORAGE SERIES

## MATERIAL DATA SHEET



### APPLICATION SPECIFICATIONS

#### CONVEYING CAPACITY

Pounds/hour Min: \_\_\_\_\_ Max: \_\_\_\_\_

Cubic feet/hour Min: \_\_\_\_\_ Max: \_\_\_\_\_

Other \_\_\_\_\_

#### MATERIALS OF CONSTRUCTION

- Carbon steel: painted exterior only (light gray)
- Painted inside and out (light gray)
- Custom color paint
- Other \_\_\_\_\_

#### OPERATIONAL DUTY

- Continuous \_\_\_\_\_ hours/day  
\_\_\_\_\_ days/week
- Intermittent (if known)  
Cycle time on: \_\_\_\_\_ minutes  
Cycle time off: \_\_\_\_\_ minutes
- Batch: \_\_\_\_\_ pounds/batch  
Batch frequency: \_\_\_\_\_ batches  
per (period of time): \_\_\_\_\_

#### ELECTRICAL REQUIREMENTS

Volts: \_\_\_\_\_ Phase: \_\_\_\_\_ Cycle: \_\_\_\_\_

#### ATMOSPHERIC CLASSIFICATION

- Non explosion-proof (TEFC/NEMA 12)
- Wash down (NEMA 4)
- Explosion-proof  
Class: \_\_\_\_\_ Division: \_\_\_\_\_ Group: \_\_\_\_\_

#### SYSTEM DESCRIPTION

##### MATERIAL SOURCE

- Bulk storage  Bin  Silo
- Manually  Drums  Mixer
- Dumped bags  Gaylord  Rotary valve
- Bulk bags  Other \_\_\_\_\_

#### MATERIAL DESTINATION

- Mixer blender  Reactor  Tank
- Packaging machine  Molding machine
- Other \_\_\_\_\_

#### OPTIONAL EQUIPMENT DESIRED

With:

- Hinged cover -  Variable Speed Control  
 with inlet port  AC inverter
- Solid cover -  DC SCR  
 with inlet port  Level sensor(s)
- Bag tray support  Bag dump station
- Hopper vibrator with dust collector
- Hopper agitator  Drum dumper
- Flanged inlet adapter  Gaylord dumper
- Electrical controls  Bulk bag unloading frame
- Other \_\_\_\_\_

#### OPTIONAL EQUIPMENT

- Cost estimate needed for budget only
- Send formal quotation
- Is this process:  New  
 Improvement on existing process

#### COMPANY PROFILE

##### INDUSTRY

- Chemical  Paint
- Food/Beverage  Plastics
- Pharmaceutical  Packaging
- Cosmetics
- Other \_\_\_\_\_

##### CUSTOMER TYPE

- End user  O.E.M.
- Reseller

