



# Choice Bagging Equipment, Ltd.

Industrial Bag Packaging Equipment, Systems, Support, & Service

## Model 510 Bulk Bag Fillers

### Unit Description:

Gravity Style Bulk Bag Filler for Packaging 1,000-4,400 lbs (454-2,000KG) Bulk Bags (Super Sacks) and Gaylord Boxes with Free Flowing Powders, Granular & Pelleted Materials at a Rate of up to 10 Bags per Hour (Depending on Machine Options Selected).

### Examples of Proper Application Include:

- Fertilizer, Corn, Soybeans, Salt, Sugar
- Sand, Limestone, Refractory Materials, Plastic Pellets

### Technical Specifications:

- Proper Application - Free Flowing Granules, Flakes & Powders  
Fill Rate Up to 10 Bags Per Hour (Depending on Product Characteristics and Options Selected)
- Weight Range 500-4,400 Lb. (250-2,000KG) Bulk Bags (Super Sacks)
- Base Unit Capable of Handling Bags with Dimensions Up to 48" (121 cm) X 48" (121 cm) X 66" (167 cm) [NOTE: Options May Affect Overall Usable Height]
- Typical Scale Weight Accuracy +/- .5% of Target Weight
- Control Air - 80 PSI @ 1 CFM per Bag Fill Cycle
- Electrical Requirements - 110 Volt / 1 Phase / 60 Cycle (Units w/ Vibratory Bag Densifier also Require 220V or 440V / 3 Ph / 60 Cycle)
- Recommended Dust Collection - 600 CFM Minimum



**NOTE: This machine does not close or seal bags. Bulk bags and liners are typically tied closed by hand upon completion of the bag fill.**

### Principle Of Operation:

The Model 510 Gross Weigh Bulk Bag Filler is especially designed for filling spout style bulk bags with powdered and / or granular, free-flowing or semi-free flowing materials. Product can be fed to the machine by various types of feeding devices such as slide gates, auger, or rotary air lock (depending on the application). When a fill cycle is initiated, the product is filled and weighed simultaneously. When the target weight is reached, the flow of product will stop automatically. Removal of filled bags from the basic machine is a manual process, however, discharge of the filled bulk bag can be automated with additional functionality offered on the options / accessories page of this quotation

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## Standard Features:

- Carbon Steel Contacting Surfaces
- Digital Load Cell Weighing Scale
- Tubular Steel Framework
- Forklift Portable (Lift Pockets Built Into Scale Base)
- 8" Dia Fill Head Assembly (M/S; Non Dust Tight)
- Designed to Handle Bag Sizes up to 45" (122 cm) Long x 45" (122 cm) Wide x 72" (183 cm) Tall  
(Maximum Size Not Including Bag Straps--Assuming 10" (25 cm) Long Bag Strap Loop)
- NEMA 12 Electrical Enclosures
- Powder Coated Fabricated Components
- 1 Year Limited Warranty

## Standard Options:

- 104-300 4693 Single Filler Controller
- 501-700 Powered Fill Head Height Adjustment
- 502-200 8" OD Fill Head Assembly (304 S/S; Non Dust Tight)
- 502-300 8" ID x 12" OD Dust Tight Fill Head Assembly w/ Inflatable Bag Seal Cuff (M/S Contact)
- 502-400 8" ID x 12" OD Dust Tight Fill Head Assembly w/ Inflatable Bag Seal Cuff (304 S/S)
- 503-100 Bulk Only (Single Stage) Slidegate Material Flow Cutoff Assembly (M/S)
- 503-200 Bulk Only (Single Stage) Slidegate Material Flow Cutoff Assembly (304 S/S)
- 503-300 Bulk & Dribble (Two Stage) Slidegate Material Flow Cutoff (M/S)
- 503-400 Bulk & Dribble (Two Stage) Slidegate Material Flow Cutoff (304 S/S)

*NOTE: This filler is capable of bagging both flowing and non-free-flowing materials. However, additional specialized product feeding devices may be required. The standard design is designed to handle materials that are dry, free-flowing and of low humidity content.*

## Sequence of Operation:

The operator will manually hang an empty bulk bag on the filler and secure the inlet sleeve to the filling spout. Then the operator will depress the start button. The weighing scale will automatically "zero" and immediately after activate the designated feeding device (slide gate, auger, rotary air lock, etc) and initiate the start of the bag fill. Product will then be delivered (by gravity or mechanical conveyance) to the machine from the supply bin above into the empty bag below. When the target weight is reached, the flow of product to the weighing scale will be cut off automatically. The digital controls will signal the feeding device to close or shut off. The operator will then manually dis-engage the sleeve of the bag from the filling spout and a forklift will remove the bag from the machine so that the process can be repeated.

