



# Portable & Stationary Bulk Bin

## Owner's Manual



### Bulk Bin Models:

#### Portable Bulk Bins

1.5 Ton Portable  
3 Ton Portable  
Super 3 Ton Portable

#### Augers

Portable Auger  
Stationary Auger  
Auger Extension

#### Stationary Bulk Bins

1.5 Ton Stationary  
3 Ton Stationary  
Super 3 Ton Stationary  
5 Ton Stationary

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Serial Number \_\_\_\_\_

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# **SAFETY AND OPERATION RULES**

## **GENERAL SAFETY GUIDELINES AND STATEMENTS**

**Safety precautions are essential when the use of any mechanical equipment is involved.**

**Precautions are necessary when using, storing, transporting, filling, and servicing mechanical equipment. Using this equipment with the respect and caution demanded will considerably lessen the possibilities of personal accident or injury. If safety precautions are overlooked or ignored, personal injury, death, or property damage may occur.**

**A Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) is designed for specific applications; to transport, transfer, and store feeds, pellets, fertilizers, and grains. It should not be modified and/or used for any application other than intended design. If there are any questions regarding its application, please call. If you have any question regarding intended design do not use this product until you have been advised. For more information, call (660) 542 – 0967.**

**Read this entire manual carefully - know your equipment and how to operate it. Consider the application, limitations, and the potential hazards specific to your unit. Our customer's safety is of prime concern to us. The manual will present some of the day-to-day work problems encountered by the operator and other personnel in contact with the unit. This manual is intended to aid the user in understanding safe operating procedures specific to King Ag Products, Inc. Bulk Bins (Portable or Stationary) and/or Auger (Portable or Stationary). We want you as our partner in safety. A copy of this manual should be presented to and made readily available to all persons who may operate this piece of equipment.**

**It is your responsibility as an owner, operator, or supervisor, to know what specific requirements, precautions and work hazards exist. Additionally, make these known to all other personnel working with the equipment or in the area, so that they too may take any necessary safety precautions that may be required. Alterations to the equipment are not recommended and should be strictly avoided. Such alterations may create a dangerous situation where serious injury or death may occur.**

## SIGNAL WORDS

Note the use of the signal words **DANGER**, **WARNING** and **CAUTION** with safety messages. The appropriate signal word for each message has been selected using the following guidelines:

**DANGER** – An immediate and specific hazard, which will result in severe personal injury or death if proper precautions are not taken.

**WARNING** – A specific hazard or unsafe practice, which could result in severe personal injury or death if proper precautions are not taken.

**CAUTION** – Unsafe practices which could result in personal injury if proper precautions are not taken, or a reminder of good safety practices.

## SAFETY ALERT SYMBOL



The Symbol Shown Above Is Used To Call Your Attention to Instructions Concerning Your Personal Safety. Watch This Symbol - It Points Out Important Safety Precautions. It Means ATTENTION! Become Alert! Your Personal Safety Is Involved! Read The Message That Follows And Be Alert To The Possibility Of Personal Injury Or Death.

Anyone who will operate or work around a Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) shall first read this manual! This manual must be delivered with the equipment to its owner. Failure to read this manual and its safety instructions is a misuse of equipment.

## SAFETY EQUIPMENT

Be sure ALL safety shields and protective devices are installed and properly maintained. If you find any shields or guards damaged or missing, contact King Ag Products, Inc. at (660) 542 -0967 for the correct replacement parts.

## SERIAL NUMBER

To ensure efficient and prompt service, please be ready to provide us with the unit size and serial number of your King Ag Products, Inc., Bulk Bin (Portable or Stationary). The Serial Number is located on the inside frame of the Bulk Bin (Portable or Stationary).

Serial # Label

## **SAFETY PROCEDURES**

1. Use proper equipment to fill the Bulk Bin (Portable or Stationary).
2. Do not use makeshift systems to handle feed or equipment as you may create an unsafe condition.
3. Do not attempt to raise or tip the Bulk Bin (Portable or Stationary) by hoist, tractor, or forklift or any other method unmentioned.
4. When transporting the Bulk Bin (Portable or Stationary) do not exceed 45 miles per hour.
5. Always stage and fill the Bulk Bin (Portable or Stationary) on a level surface.
6. Lower the jack stands on both ends of the Bulk Bin (Portable) and block wheels to secure in place when parking or staging for use.
7. Do not operate unit without safety shields or guards in place at all times.
8. Do not allow any riders on or in the Bulk Bin.
9. Do not enter the hopper while it is being filled or when it has product in it as grain suffocation could result.
10. Be aware of pinch points to avoid and prevent injury.
11. Be aware of fall risks associated with ladders. Use caution when climbing ladder and always keep 2 hands on the ladder at all times.
12. Do not climb on any part of the Bulk Bin (Portable or Stationary) other than the designated ladder that is designed for safe climbing purposes. If the Bulk Bin (Portable or Stationary) model owned by the customer is not equipped with a ladder when manufactured, it was determined not safe to climb or to design the model in question with a ladder. These models were not designed for any form of climbing.
13. Be aware of up-ending risks associated with Bulk Bins (Portable and Stationary).
14. Replace any worn or damaged decals/safety decals.
15. Replace any broken or damaged parts immediately to avoid injury.
16. When moving/transporting the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), always be aware of the risks associated with towing equipment and inspect all tires, hitch, and auger (if applicable) before transport.
17. In case of any defect or awareness of potential danger, please contact the King Ag Products, Inc., at (660) 542-0967 immediately.
18. Do not allow children to play around, climb on, or enter the tank of the Bulk Bin (Portable or Stationary) to prevent danger, injury, or death.
18. Do not enter a feeding area while livestock is present, as livestock can be unpredictable, dangerous, and cause injury or even death to operators and themselves. Especially when in enclosed or tight spaces.
19. Do not mount a Stationary Bulk Bin to a trailer for usage. This creates unsafe conditions.
20. Do not enter the hopper while auger is on, always turn auger off and disconnect power from the motor on the auger before attempting to service.
21. Keep hands, feet, hair, tools, objects, and loose clothing away from moving auger. Disconnect power source to auger before servicing.
22. Do not allow, children, pets, livestock, or persons that have not read and understand this manual access to the Bulk Bin (Portable or Stationary) or Auger (Portable or Stationary). This can create a dangerous situation resulting in accident or fatality.

23. Do not unhook the Bulk Bin (Portable) from the towing vehicle on a hillside or incline. Always park on flat ground, block wheels, and lower jacks before unhooking.
24. Do not stand between towing vehicle and Bulk Bin (Portable) when hooking or unhooking for transport.
25. Do not attempt to mount a Bulk Bin (Stationary or Portable) and/or Auger (Stationary or Portable) onto makeshift “risers” for added height or more clearance. King Ag Products, Inc., designed these Bulk Bins (Portable and Stationary) and/or Augers (Portable & Stationary) for GROUND USE ONLY. If user needs additional length added to an Auger (Portable or Stationary) King Ag Products, Inc., offers an auger extension for that purpose.

## **LIGHTING AND MARKING**

It is the responsibility of the user to know the lighting and marking requirements of the local highway regulations and to provide compliance. Add extra lights and reflectors when transporting at night or during periods of limited visibility.

## **OPERATOR QUALIFICATIONS**

Operation of this Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) shall be limited to competent and experienced persons. In addition, anyone who will operate or work around a Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) must use good safety practices. In order to be qualified, they must also know and meet all other requirements, such as:

1. Regulations specify that no one under the age of 18 may operate power machinery. This includes Bulk Bins (Portable or Stationary) and/or Augers (Portable or Stationary). It is your responsibility to know what these regulations are in your own area or situation.
2. Current OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee or user in the safe operation and servicing of all equipment with which the employee or user is, or will be involved.”
3. Unqualified persons are to stay out of the work area.
4. A person who has not read and understood all operating and safety instruction is not qualified to operate the machine or enter the work area.

## **SAFETY OVERVIEW**

YOU are responsible for SAFE operation and maintenance of your King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

YOU must ensure that you and anyone who is going to operate, maintain, or work around the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) must be familiar with the operating, maintenance, and safety information contained in the manual. This manual will take you step by step through your working day and alerts you to all good safety practices while operating the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

Remember YOU are the key to safety. GOOD PRACTICES protect not only you but also the people around you. Make these practices a working part of your safety program. Be certain EVERYONE operating this piece of equipment is familiar with the procedures recommended and follows safety precautions.

Remember, accidents can be prevented. Do not risk injury or death by ignoring any information addressed.

Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) owners must give operating instructions to operators before allowing them to operate the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). They must be reviewed at least annually thereafter per OSHA regulation 1928.57.

The most important safety device on the equipment is a SAFE OPERATOR. It is the operator's responsibility to read and understand ALL instructions in the manual and to follow them. Accidents can be avoided!

Any person who has not read and understood all operation and safety instructions is not qualified to operate the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). An untrained operator exposes himself and bystanders to possible serious injury or death.

**Do not modify the equipment in any way.** Unauthorized modifications may impair the functions and/or safety and could affect the life of the equipment.



## **SAFETY AFFIRMATION**

I have read and understand the operator's manual and all safety signs before operation, maintenance, adjusting, transporting, and filling the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

I will allow only trained persons to operate the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). An untrained operator is not qualified to operate this equipment.

I have access to a fire extinguisher.

I have all guards in place and will not operate the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) without them.

I will not allow riders on or in the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

I understand the danger of moving parts and the associated pinch points.

I understand that any accidents that occur with the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) are my responsibilities.

I understand the danger associated with bulk product stored inside a hopper and of moving grain and I will not enter the hopper while it is being filled or has product inside of it.

I understand the danger associated with upending due to weight distribution.

I understand the fall risks associated with ladders.

I understand the danger associated with augers.

I understand that King Ag Products, Inc., will not be held responsible of any accidents that involve the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

I understand that livestock can be dangerous, and will not enter the feeding area or work area while livestock are present.

I understand that King Ag Products, Inc., will not be held responsible for accidents occurring with any form of livestock.

I understand that King Ag Products, Inc., will not be held responsible for accidents occurring due to lack of adhering to safety procedure, misuse of, or modification of any King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

## **SIGN OFF SHEET (This must be signed annually as part of your safety program)**

As a requirement of OSHA it is necessary for the employer to train the employee in the safe operation and safety procedures with the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). We include this sign off sheet for your convenience and personal record keeping.

DATE	EMPLOYER SIGNATURE	EMPLOYEE SIGNATURE

## **PRODUCT INSPECTION**

After delivery of your new King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) and before each use, inspection of the machine is mandatory. This inspection should include, but not be limited to:

1. Check to see that all guards are in place, secured and functional.
2. Are all fasteners tight?
3. Check that all tires are properly inflated and road worthy.
4. Check that hitch is secured
5. Check that all doors are locked and secured
6. Check that Auger (Portable or Stationary) is in the folded locked position or unfolded locked position, all bolts are tight, and wire and power connections are in clean working order.
7. Check that Bulk Bin (Portable or Stationary) is parked securely and/or stabilized properly.

## **SAFETY DECALS**

1. Keep safety decals clear and legible at all times.
2. Replace decals and signs that are missing or have become unreadable.
3. Safety signs are available from your Dealer or the Manufacturer.

## **HOW TO INSTALL REPLACEMENT OR ADDITIONAL SAFETY SIGNS**

1. Be sure that the installation area is clean and dry.
2. Decide on the exact position before you remove the backing paper.
3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
5. Small air pockets can be pierced with a pin and smoothed out using a piece of decal backing paper.

# INTRODUCTION

## **PURPOSE:**

The King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) serves as a bulk transfer system for seed, grain, feed, fertilizer, and other dry products. It allows the user to store dry products, move his product from point A to point B, and transfer product to other containers and dispensing/feeding equipment. This process accelerates delivery and handling time, and eliminates the inconvenience of bag feeding.

**Thank you for choosing the King Ag Products, Inc., as your exclusive Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) manufacturer. This manual provides information in regard to the operation and maintenance of the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). All information in this manual is based on the latest production information available at the time of printing. For the latest version of this catalog please call (660) 542-0967 or visit [www.KingAgProducts.com](http://www.KingAgProducts.com) for an electronic version of the owner's manual.**

**King Ag Products, Inc., reserves the right to make design, informational, and price changes at any time without notice and without incurring any obligation. Please become familiar with all safety, operating, maintenance, transporting, and troubleshooting information within this manual. This will ensure your safety and long life for the system.**

## FEATURES:

1. **Hopper** - Designed for flow-ability in cone and proper angle of repose on top.
2. **Top Door/ Lid** - This unique design protects the product stored inside the bulk bin from moisture and is easily opened and closed from the ground.
3. **Auger** - Designed to transfer feed with ease to other points of the operators choosing.
4. **Ladder** - Allows the user to look into and access the hopper.
5. **Sight Glass** - Allows you to monitor the product level within the Bulk Bin without having to climb on top of the Bulk Bin.
6. **Lower Door** - Releases and controls feed flow either into buckets, dispensing equipment, or into the Auger if applicable.
7. **Rain Guard** - Rain guard is located just above the lower door to prevent moisture from entering the bulk bin through the lower door.
8. **¾ Horse Motor** - Allows for mobility and use of the Portable Auger through battery power where no electricity is present.
9. **110 Volt Motor** - Allows for user to connect Auger to 110v electrical outlet for power source on Stationary Augers.
10. **Wireless Remote** - Allows for user to control the Portable Auger attachment wirelessly.



**Hopper**



**Top Door/Lid**



**Auger**



**Ladder**



**Sight Glass**



**Lower Door**



**Rain Guard**



**3/4 Horse Motor**



**110 Volt Motor**



**Wireless Remote**

## LIMITED WARRANTY

King Ag Products, Inc., warrants all products manufactured by it to be free of defect in material and workmanship for a period of one (1) year from the date of purchase.

King Ag Products, Inc. warranty does not cover:

1. Parts and accessories supplied by King Ag Products, Inc., but manufactured by others. King Ag Products, Inc., will facilitate the other manufacturer warranty for the benefit of the purchaser but will not be bound thereby (example: augers, motors, trailers, inoculation tanks, etc.).
2. Products that have been altered by anyone other than King Ag Products, Inc., or are used by the purchaser, for purposes other than what was intended at time of manufacture or used in excess of the "built specifications".
3. Products that are custom manufactured by King Ag Products, Inc., utilizing the purchaser's design which deviates from King Ag Products, Inc., normal production line manufactured or customized features of the products.
4. Malfunctions or damages to the product from misuse, negligence, customer alteration, accidents or product abuse due to incoming material or poor material flow ability or lack of required performance or required maintenance (e.g., poor material flow ability caused by incoming wet fertilizer or hot soybean meal, etc.).
5. Loss of time, inconvenience, loss of material, down time or any other consequential damage.
6. Product use for a function that is different than designed intent.

To activate this warranty, the purchaser must make contact with King Ag Products, Inc., within one (1) year of date of purchase. After contact, King Ag Products, Inc., has the right to determine the cause and qualify the legitimacy of the claim. King Ag Products, Inc., upon acceptance of a warranty claim, shall have a reasonable time to plan any repair or replacement and may affect repair or replacement out of its factory or through contract with a local repair service. If a purchaser, after warranty notice is made, chooses to make the repair itself, King Ag Products, Inc., must approve any expenses before they are incurred to be responsible for customer reimbursement. King Ag Products, Inc., shall be liable on a warranty claim for repair or replacement of any defective products and this is the purchaser's sole and exclusive remedy. King Ag Products, Inc., will not be liable for any other or further remedy including claims for personal injury, property damage or consequential damage. **The law of the State of Missouri shall govern and any such claim and any issues with regard to the same shall be resolved in the Missouri District Court for the county of Carroll.**

## **CONSEQUENTIAL OR SPECIAL DAMAGE**

**King Ag Products, Inc.**, shall not be held liable for any **Consequential or Special Damage** which purchaser/owner may suffer or claim to suffer as a result of any defect in a King Ag Products, Inc., Product.

“**Consequential**” or “**Special Damages**” are herein defined as, but not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost income, increased overhead, labor and incidental costs, operational inefficiencies, loss of consortium, property damage, equipment (including vehicle) damage, or health and/or death of livestock.

## **RETURN OF MERCHANDISE**

Products manufactured by King Ag Products, Inc., may not be returned directly to King Ag Products, Inc., by the customer. In the instance of a return, customer must contact their local distributor to discuss warranty claims and resolution. The local distributor will contact King Ag Products, Inc., to resolve any incidents that may arise.

## **RECEIVING MERCHANDISE AND FILING CLAIMS**

When receiving product, it is important to check both the product and their description with packing slip to ensure correct products and quantity were sent.

When the product leaves the factory it becomes the property of the purchaser. It is the responsibility of the purchaser to contact King Ag Products, Inc., on any possible damage, loss, or defects upon arrival.

## **MODIFICATIONS**

It is the intention of King Ag Products, Inc., to improve its products whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without the obligation to make such changes, improvements and modifications on any equipment sold previously.

## **TIRE SAFETY**

1. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death.
2. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
3. Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.
4. Always order and install tires and wheels with appropriate capacity to meet or exceed the anticipated weight to be placed on the equipment.
5. If you have questions on appropriate tires for your Bulk Bin (Portable or Stationary) contact King Ag Products, Inc.

## **TRANSPORTING BULK BIN**

**DANGER:** Do not transport King Ag Products, Inc., Bulk Bin (Portable or Stationary) at speeds in excess of 45 MPH and comply with your state and local regulations governing marking, towing, speeds, lighting and maximum width. Observe safe driving and operation practices. Always tow with approved vehicles and be aware of the differences in weight, length, acceleration, braking, and overall driving practices when towing equipment of any kind.

**DANGER:** Be alert to overhead obstructions and electrical wires. Failure to do so may result in accidents or electrocution. Maintain at least fifteen (15) feet of clearance at all times.



# **DESIGNATED WORK AREA**

## **WORK AREA**

Before using the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), a designated work area should be established. The work area should be a perimeter in which no persons, pets, or livestock should be allowed unless directly involved in the operation of the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). All persons in the work area must have read and understand this manual and its content.

## **PROCEDURES FOR SAFE WORK AREA**

Under no circumstances should persons not involved in the operation of the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) be allowed to enter into the work area. It shall be the duty of all operators to see that children and/or other persons and animals stay out of the work area! Entrance into the work area by anyone not involved in the actual operation, or trespass into hazard area by anyone, shall result in immediate shut down of operation by the operator. It shall be the responsibility of all operators to see that the work area has secure footing, is clean and free of all debris, and tools, which might cause tripping and/or falling. It shall also be their responsibility to keep the work area clean and orderly during the operation.

# OPERATING PROCEDURES

## STARTUP AND BEGINNING OPERATIONS

It is essential to inspect your King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), before adding power, and know how to shut down the equipment in an emergency. During the operation of your King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), one person who has read and understood this manual shall be in a position to monitor the equipment operation. An auger when new or after it sets idle for a season should be allowed an “acclimation” period. The auger should be run at half capacity until a few bushels of product have been augured through the system. The “acclimation” period allows for the internal components to be polished and smoothed by the product. When the internal components are polished, the auger can be run at full capacity. Never operate the auger without product running through it for any length of time, as excessive wear will result.

**CAUTION:** During the initial startup and “acclimation” period, the operator shall be aware of any unusual vibrations or noises that would indicate a need for service or repair. Keep all safety shields and devices in place. Keep hands, feet, hair, and clothing, and other objects away from moving parts. The operator should have a full view of the work area and check that all personnel are clear of designated work area before adding power.

**DISCONNECT POWER AND LOCKOUT TO ADJUST, SERVICE, OR CLEAN.** 

## **BULK BIN TRANSPORTATION**

### **CAUTION!**

The center of gravity is much higher with a loaded or unloaded Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). Much care should be taken in the way the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), is parked, staged, used, towed, and the way the towing vehicle is driven to prevent accidents involving but not limited to rolling, tipping, and upending.

If the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), is to be used in hilly country, do not unhitch an empty, loaded or partially loaded Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), as it could roll away and cause it to flip, or create other dangerous conditions.

The Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), should sit evenly and squarely on flat level ground whether parked, filling, towing, staging, or using. It is necessary to lower all jacks and block tires when parking and unhooking.

When transporting the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), keep in mind the auger extends forward, be aware of objects two tall in the towing vehicle. Use caution when passing oncoming traffic or going near obstructions like wires, doors, other vehicles, and overhead obstacles.

### **OPERATING GUIDELINES**

King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary), is designed to safely and efficiently transport bulk feed, seed, grain, fertilizer, and other dry goods from the point of filling to the point of use. Following all safety and operating guidelines within this manual should ensure many years of safe and affordable use.

## **PRE-OPERATION CHECKLIST**

When operating the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) for the first time, and each time you use it, the following information should be reviewed and followed carefully.

1. Make sure the unit is secure and will not slide, roll off, or tip over.
2. Make sure lids and doors are properly latched.
3. Make sure the shields are properly installed.
4. Make sure the auger is secure before transporting.
5. Make sure you understand the operation of electric motors and their source of power.
6. Carefully study and understand this manual.
7. Do not wear loose-fitting clothing which may catch in moving parts.
8. Always wear protective clothing and proper shoes.
9. It is recommended that suitable protective hearing and (eye protection) sight protectors be worn.
10. The operator may come in contact with certain materials which may require additional safety equipment, relative to the handling of such materials (examples: extremely dusty, molds, fungus, bulk fertilizers, etc.).
11. Keep wheel lug nuts or bolts tightened to specified torque.
12. Assure that the tires are inflated evenly and to the proper PSI.
13. Give the unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.
14. Be sure there are no tools or foreign objects lying on, in, or around the equipment.
15. Do not use the unit until you are sure that the area is clear, especially of children and animals.
16. Because it is possible that this equipment may be used in dry areas or in the presence of combustibles, special precautions should be taken to prevent fires and firefighting equipment (fire extinguisher) should be readily available.
17. Don't hurry the learning process or take the unit for granted. Take the needed time to become familiar with your new equipment before operating.
18. Practice operation of your Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). Familiarize yourself and other operators with its operation before using.
19. Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.
20. Securely attach the unit to the towing vehicle using the appropriate pin hitch or ball hitch with the proper rating and always use safety chains.

## DURING OPERATION

1. Beware of bystanders, **PARTICULARLY CHILDREN!** Always look around to make sure it is safe to start the motor/auger of the unit, or moving the towing vehicle to transport the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).
2. **NO PASSENGERS ALLOWED-** Do not carry passengers anywhere on, or in, the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).
3. Keep hands, legs, clothing, hair, tools, all other objects, persons, pets, and livestock clear of moving parts.
4. Do not clean, lubricate, adjust, or do any kind of maintenance while the motor/auger is running and/or connected to the power source. Always unhook the motor/auger from the power source before performing any maintenance task.
5. When halting/parking while towing the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) even if momentarily, **ALWAYS** set the towing vehicles breaks, shut off the engine, and remove the ignition key.
6. Be especially observant of the operating or permanent setup area and terrain – look for holes, rocks or other object that may cause you to trip and fall. Always inspect area prior to operation.
7. Pick the most level route when transporting across fields, or on roadways. Avoid the edges of ditches or gullies, inclines, steep hillsides, muddy/wet spots, and uneven terrain.
8. Always maneuver the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) at safe speeds.
9. Avoid overhead wires or other obstacles. Contact with overhead lines, or overhead obstacles can cause serious injury or death.
10. Allow for the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) additional length when making turns.
11. Do not walk under, stand under, or work on raised components or attachments/auger.
12. Keep all bystanders, pets and livestock clear of the work area.
13. Never leave running equipment unattended.
14. Be aware that towing any object affects the driver's ability to stop, accelerate, turn, and all other aspects of day to day driving. Familiarize yourself with how to safely and properly tow equipment before towing the (Portable or Stationary) and/or Auger (Portable or Stationary) to prevent accidents.
15. As a precaution, always recheck the hardware on the equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.
16. Only use approved vehicles to tow the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) Full Sized Pickup Trucks and Tractors are the only vehicles permitted for safe transport of a Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

17. Do not attempt to tow or move the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) using any other method other than the intended design of the tongue and approved pin hitch or ball hitch.
18. Do not attempt to shove on, bang on, push, move, chain to, hoist, lift, tug on, pull on, tip, lean, ram, or any other action not aforementioned that could affect the stability of the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). Do not attempt to perform any of the aforementioned actions using any form of equipment, vehicle, tool, any object, or one's self. Doing this is considered misuse of the King Ag Products, Inc., Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) and can result in serious injury or death as proper safety guidelines are not followed.
19. Do not climb on the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) unless using the designated ladder to do so. Be aware of fall risks associated with ladders and always climb with caution using both hands.
20. NEVER allow any person - PARTICULARLY CHILDREN or animals to enter the hopper of the bulk bin. This is considered extremely dangerous. **GRAIN SUFFOCATION CAN BE DEADLY!**
21. If the hopper is in need of service and the qualified operator must enter to resolve a problem- The hopper MUST be completely empty, auger MUST be disconnected from power, the bulk bin MUST be properly stabilized on level ground and operator MUST have another qualified individual in the work area who is familiar with the manual to ensure safety of the operator while inside the hopper. **OPERATOR ENTERS AT HIS OWN RISK - NEVER ENTER A HOPPER OR GRAIN BIN ALONE!**
22. Be aware of upending risks associated with Bulk Bins (Portable or Stationary) and/or Augers (Portable or Stationary). The center of gravity is much higher creating a greater chance of tipping over (upending risk), always operate on smooth, debris free, level ground to prevent accidents.
23. Ensure the ground is level and free of any holes, rocks, or objects when staging the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) for operation/use. Ensure that all jacks are lowered and secured and wheels are blocked as extra precaution to prevent rolling.
24. To avoid injury from spark or short circuit, disconnect battery ground cable before servicing any part of the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary). Never short circuit the battery. It may explode.
25. Protect battery terminals, battery charger terminals, and cables against accidental contact which can cause sparks, explosions, or component damage.
26. Wear safety glasses when working with batteries.
27. Never jumpstart a frozen battery.
28. Keep all sparks and flames away from the battery, as the gas given off by electrolyte is explosive.
29. Avoid contact with battery electrolyte: wash off any spilled electrolyte immediately. Battery acid is corrosive and can cause severe chemical burns.
30. Always use correct battery size and type.

31. Remove battery if expected to not be used for a lengthy period of time.
32. Do not install the battery cables to the wrong terminals.  
Correct install Red to (+) Black to (-)
33. Use recommended practices when charging a dead battery.
34. Remove any corrosion from terminals posts with a wire brush.
35. Do not stick objects or limbs into upper door, lower door, or auger of the bulk bin in attempt to “break feed loose” or create better flow.
36. Before each time filling or operating your Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) ensure no persons or animals have entered the hopper. Moving grain is dangerous and can cause suffocation and death.

**\*\*BULK BIN (PORTABLE AND STATIONARY) AND/OR AUGER (PORTABLE AND STATIONART) MAY NOT BE SUITABLE FOR STICKY MOLASSES TYPE FEEDS, DENSE POWEDERED PRODUCT, OR LIGHT WEIGHT “FLUFFY” PRODUCT, PLEASE CONTACT KING AG PRODUCTS, INC. WITH QUESTIONS OR CONCERNS ABOUT SUITIBLE PRODUCT TYPES \*\***

## **OPERATING PROCEDURE**

### **Operating the Bulk Bin (Portable or Stationary) without Auger Attachment**

1. Review the manual and understand its contents before operating.
2. Ensure that the Bulk Bin (Portable or Stationary) is properly stabilized before each use.
3. Ensure no children or animals are within the workspace or inside the hopper before operating.
4. If not already filled with dry product of your choosing – fill the Bulk Bin (Portable or Stationary) using proper filling guidelines to ensure safety.
5. If operating the Bulk Bin (Portable or Stationary) without Auger (Portable or Stationary), remove the snapper pin from the lower door handle.
6. Place desired bucket/container below the lower door to fill.
7. Raise lower door handle small increments at a time to release product. Raising the lower door handle all at once can cause spillage and bucket/container overflow.
8. Once bucket/container is filled to desired volume, lower the lower door handle to stop product flow.
9. Replace the snapper pin to keep lower door handle locked to prevent accidents and spillage.

### **Operating the Bulk Bin (Portable) with Auger Attachment (Portable)**

1. Review the manual and understand its contents before operating.
2. Ensure that the Bulk Bin (Portable) and Auger (Portable) are properly stabilized before each use.
3. Ensure no children or animals are within the workspace or inside the hopper before operating.
4. If not already filled with dry product of your choosing – fill the Bulk Bin using proper filling guidelines to ensure safety.
5. Ensure there are no overhead hazards or overhead lines before extending the Auger (Portable) to avoid accidents and electric shock hazards.
6. Unpin the Auger Spout (Portable) from the Bulk Bin Frame (Portable)
7. Fully Extend the Auger (Portable), by swinging the top half (with spout) out away from the Bulk Bin (Portable) horizontally until it meets the bottom half.
8. When Auger (Portable) halves meet, ensure the connection meets evenly all the way around.
9. When connected properly, tighten bolt and nut fasteners at the Auger Connection (Portable) to complete the auger extension process.
10. Connect Auger to power source: Portable – Connect Battery Cables from Motor to Battery following Battery and Auger safety guidelines.
11. Place desired container for filling below the auger spout.
12. Unpin the Lower Door Handle.
13. Open the Lower Door by Raising the Lower Door Handle and pin to first setting.
14. Promptly press either button on the Wireless Remote Control to switch the Auger (Portable) ON/OFF.
15. Raise Lower Door to higher settings and replace pin as needed after initial start up to adjust product flow to Auger.
16. When container has filled to desired volume- unpin and close the Lower Door by lowering the Lower Door handle.
17. Promptly Press either button on the Wireless Remote Control to turn the Auger (Portable) ON/OFF.
18. Re-Pin the Lower Door Handle into the Closed Position.
19. Unhook the Auger (Portable) from the power source: Portable- Disconnect Battery Cables from Motor to Battery following Battery and Auger safety guideline.
20. Loosen bolt and nut fasteners at Auger (Portable) connection point.
21. Swing upper half of Auger (with spout) horizontally towards Bulk Bin (Portable).
22. Secure Auger (Portable) Spout to Bulk Bin (Portable) Frame using Snapper Pin
23. Ensure Bulk Bin (Portable) is properly stabilized and power is disconnected if leaving parked.
24. If towing Bulk Bin (Portable) after use, double check all pins and fasters to ensure all parts are secured, power is disconnected, all tires are in working order, and follow safe towing guidelines.



### **Operating the Bulk Bin (Stationary) with Auger Attachment (Stationary)**

1. Review the manual and understand its contents before operating.
2. Ensure that the Bulk Bin (Stationary) and Auger (Stationary) are properly stabilized before each use.
3. Ensure no children or animals are within the workspace or inside the hopper before operating.
4. If not already filled with dry product of your choosing – fill the Bulk Bin using proper filling guidelines to ensure safety.
5. Ensure there are no overhead hazards or overhead lines before use to avoid accidents and electric shock hazards.
6. Place desired container for filling below Auger spout.
7. Unpin the Lower Door Handle
8. Open Lower Door by Raising the Lower Door handle and pin to first hole
9. Promptly connect Auger (Stationary) to Power.
10. Connect Auger to Power Source: Stationary – Auger will automatically switch on when cord is plugged into a 110V power outlet. Owner/Operator can choose to add an outdoor switch design for operation if they so choose. Be sure to have a certified electrician design this system for you to ensure safety.
11. To turn Auger (Stationary) ON/OFF – Plug into 110V outlet to turn ON, unplug from 110V outlet to turn OFF
12. Raise Lower Door to higher settings and replace pin as needed after initial start up to adjust product flow to Auger.
13. When container has filled to desired volume- unpin and close the Lower Door by lowering the Lower Door handle.
14. Promptly disconnect Auger (Stationary) from Power.
15. Re-Pin Lower Door handle in the closed position.
16. Ensure the Bulk Bin (Stationary) is properly stabilized and disconnected from power source before leaving unattended.

### **LOCKOUT**

The Auger (Portable or Stationary) must be stopped and disconnected from the power source if the operator must leave the work area or whenever servicing. Precaution should be made to prevent anyone or any animal from operating the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary) when the operator is absent from the work area of the Bulk Bin (Portable or Stationary) and/or Auger (Portable or Stationary).

## **HIGHWAY AND TRANSPORT OPERATIONS**

1. Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
2. Reduce speed prior to turns to avoid the risk of overturning.
3. Avoid sudden uphill turns on steep slopes.
4. Always keep towing vehicle in gear to provide engine braking when going downhill.
5. Do not drive, tow, or operate equipment under the influence of drugs or alcohol.
6. Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
7. Use approved accessory lighting, flags, and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport.
8. The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
9. When driving the equipment on the road or highway under 20 MPH at night or during the day.
10. Use flashing amber warning lights and slow moving vehicle (SMV) identification emblem.
11. Plan your route to avoid heavy traffic.
12. Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
13. Be observant of bridge load ratings. Do not cross bridges rated lower than the gross weight at which you are operating.
14. Watch for obstructions overhead and to the side while transporting.
15. Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.

## **LUBRICATION & MAINTENANCE**

1. **WARNING:** Keep all safety shields and devices in place. Never clean, adjust or lubricate a machine that is in operation.
2. Cosmetic – any exposed metal where paint or powder has been chipped, gouged, scratched or worn should be lightly sanded, then primed and painted with good enamel paint. If color is hard to match contact King Ag Products, Inc.
3. Bearings should be examined annually for wear and tear.
4. Replace all shields and guards after servicing and before moving.
5. After servicing, be sure all tools, parts and service equipment are removed.
6. Do not allow grease or oil to build up on any step or platform.
7. Never replace hex bolts with less than grade five bolts unless otherwise specified.
8. Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
9. If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
10. A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this or any equipment.
11. Always use the proper tools or equipment for the task at hand.