GENERAL SAFETY STATEMENT

This manual was written with the safety of the operator and others who work with the equipment as our prime concern. The instructions presented will help the reader learn SAFE day to day work practices. We want you as our partner in safety.

It is your responsibility as an owner, operator or supervisor to know what specific safety requirements and precautions exist and to make these known to all other personnel working with the equipment or in the area, so that they too may safely perform their duties and avoid any potentially hazardous situations.

Please remember safety equipment provides important protection for persons around a grain handling system that is in operation. Be sure that ALL safety shields and protection devices are installed and properly maintained. If any shields or guards are damaged or missing, contact your dealer to obtain the correct items.

Avoid any alterations of the equipment. Such alterations may create a dangerous situation where serious injury or death may occur.

SAFETY ALERT SYMBOL

The symbol shown below 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.

BE ALERT! YOUR SAFETY IS INVOLVED.

WARNING

Anyone who will operate or work around this machine 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 the equipment.
HUTCHINSON | MAYRATH

POLICIES and PROCEDURES

Prices: Prices in effect at time of shipment will apply. Prices are subject to change without notice. All prices are F.O.B. Clay Center, Kansas. Orders shipped from locations other than Clay Center, Kansas will be subject to additional charges, such as back freight and/or additional freight.

Service Charge: A service charge will be assessed for all past due balances as permitted by state law not to exceed 1-1/2% per month.

Minimum Order: Processing and handling costs necessitate a minimum charge of $15.00 net on all orders.

Back Orders: Back orders will be shipped as they become available. Contact Hutchinson, Mayrath Customer Service for alternative shipping options or if cancellation is desired.

Damaged Goods: It is the consignee’s responsibility to check all shipments thoroughly upon receipt of goods. If any damage is discovered, it must be noted on the freight bill of lading before signing. The consignee must make necessary claims against the respective freight line. All damage claims must be submitted within 30 days of delivery receipt.

Shortages: All shortages must be noted at time of delivery. Shortages must be noted on the freight bill of lading before signing. Hutchinson, Mayrath must be advised of all concealed shortages upon discovery. Once notified of concealed shortages Hutchinson, Mayrath will advise corrective action to be taken.

Return of Goods: All returns must be approved by Hutchinson, Mayrath prior to shipment. All return requests will be issued a return authorization number. NO RETURNS WILL BE ACCEPTED WITHOUT A RETURN AUTHORIZATION NUMBER AND PRIOR AUTHORIZATION FROM THE FACTORY. All returns must be shipped prepaid. A 15% restocking charge will be applied to all returned merchandise. Custom Products may not be returned for credit. Only current products in new and salable condition may be returned. No safety devices may be returned for credit.

Modifications: It is the policy of Hutchinson, Mayrath to improve its product whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring the obligation to make such changes, improvements and modifications on any equipment sold previously.

Limited Warranty: (a) For a period of (1) year after receipt of goods by the original consumer buyer, Hutchinson, Mayrath will supply free of charge replacement parts for parts that prove defective in workmanship or material. Defective parts must be returned freight prepaid to a specified Hutchinson, Mayrath location. Only Hutchinson, Mayrath original repair parts may be used for warranty repairs.

(b) This limited warranty does not extend to parts designed to wear in normal operation and be replaced periodically; or to damage caused by negligence, accident, abuse or improper installation or operation.

(c) GOODS NOT MANUFACTURED BY HUTCHINSON, MAYRATH CARRY ONLY THE MANUFACTURER’S WARRANTY.

(d) THIS UNDERTAKING IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

FAILURE TO FOLLOW THE INSTRUCTIONS CONTAINED IN THE OWNER’S & OPERATOR’S MANUALS AND THE ITEMS LISTED BELOW WILL RESULT IN THE VOIDING OF THIS LIMITED WARRANTY.

(1) Improper assembly, including failure to properly install all safety equipment.

(2) Improper installation.

(3) Unauthorized alternations of goods.

(4) Goods operated when obviously in need of repair.

(5) Use of unauthorized repair parts.

(6) Irresponsible operation.

(7) Used to handle materials other than free flowing, nonabrasive and dry materials, as intended.

(8) Damaged through abusive use or accident.

Limitation of Liability: BUYER AGREES THAT IN NO EVENT SHALL HUTCHINSON, MAYRATH HAVE LIABILITY FOR DIRECT DAMAGES IN EXCESS OF THE CONTRACT PRICE OF THE GOODS IN RESPECT OF WHICH CLAIM IS MADE. BUYER FURTHER AGREES THAT IN NO EVENT SHALL HUTCHINSON, MAYRATH ON ANY CLAIM OF ANY KIND HAVE LIABILITY FOR LOSS OF USE, LOSS OF PROFITS, OR FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.
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SAFETY INFORMATION

GENERAL SAFETY STATEMENT

Watch This Symbol. It Points Out Important Precautions. It means "ATTENTION - Become Alert! Your Safety Is Involved."

Occupational safety is of prime concern to Hutchinson. This Feed-R-Systems Manual was written with the safety of the operator and others who come in contact with the equipment as our prime concern. The manual presents some of the day-to-day work problems encountered by the operator and other personnel. We wrote this manual to help you understand safe operating procedures for augers. We want you as our partner in safety.

It is your responsibility as an owner or operator or supervisor, to know what specific requirements, precautions and work hazards exist and to make these known to all other personnel working with the equipment or in the area, so that they too make take any necessary safety precautions that may be required. Avoid any alterations of the equipment. Such alterations may create a dangerous situation where serious injury or death may occur.

Failure to read this Manual and its Safety Instructions is a misuse of the equipment.

OPERATOR QUALIFICATIONS

Operation of this system shall be limited to competent and experienced persons. In addition, anyone who will operate or work around it must use good common sense. In order to be qualified, he must also know and meet all other requirements, such as:

1. Some regulations specify that no one under the age of 16 may operate power machinery. This includes augers. 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 in the safe operation and servicing of all equipment with which the employee 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 instructions is not qualified to operate the machine.

*Federal Occupational Safety & Health Standards for Agriculture Subpart D, Section 1928.57 (a) (6).
SIGN OFF SHEET

As a requirement of OSHA it is necessary for the employer to train the employee in the safe operation and safety procedures with this auger. We include this sign off sheet for your convenience and personal recordkeeping.

<table>
<thead>
<tr>
<th>DATE</th>
<th>EMPLOYER SIGNATURE</th>
<th>EMPLOYEE SIGNATURE</th>
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<tbody>
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CAUTION

1. READ AND UNDERSTAND THE OPERATOR'S MANUAL BEFORE OPERATING.
2. KEEP ALL SAFETY SHIELDS AND DEVICES IN PLACE.
3. MAKE CERTAIN EVERYONE IS CLEAR BEFORE OPERATING OR MOVING THE MACHINE.
4. KEEP HANDS, FEET, AND CLOTHING AWAY FROM MOVING PARTS.
5. SHUT OFF POWER TO ADJUST, SERVICE, OR CLEAN.
6. DISCONNECT POWER BEFORE ResetsTING MOTOR OVERLOADS.
7. MAKE CERTAIN ELECTRIC MOTORS ARE GROUNDED.
8. NEVER CLEAN, ADJUST OR LUBRICATE A MACHINE THAT IS IN OPERATION.
9. KEEP OFF OF THE EQUIPMENT AT ALL TIMES.
10. KEEP VISITORS AND ALL UNTAINED PERSONNEL AWAY FROM MACHINE WHILE IN OPERATION.
DESIGNING FEED-R-SYSTEMS

The Feed-R-System is a flexible system allowing you to design any particular custom feeding unit from standard items. In order to assist you in designing Feed-R-Systems we suggest the following checklist:

I. HORIZONTAL FEED-R-SYSTEM.

A. Length. After determining the length of the horizontal system, use one 4100A Basic for each run. Add the 4121A, 4122A or 4123A extensions for the required length.

B. Drive. The drives are available with four different auger pulleys. Proper selection can be made by referring to the RPM chart on Page 14. Do not forget to order the motor pulley when selecting the motor from the horsepower chart.

C. Head Discharge. For the discharge on the head of the horizontal auger the 4125A 90° discharge spout is recommended.

D. Feed Drops. For the intermediate feed drops select either the 4130A, 4131A or 4132A drops. These are located on the feeder run at the time of installation. Cut drop out holes after drop location has been determined.

E. Inlet. Either the 4135A or 4136A inlets are convenient inlets to transfer feed from the supply auger. A length of flex tubing is a good connection at this point as it allows some adjustment during installation. The 4172A hopper tail piece is larger and has a 6" x 10" top opening. The larger 4137A hopper is also an excellent receiving hopper. The larger size allows more flexibility in some cases. When using the 4137A hopper you can either remove 18° of the auger housing or use one of the extension flights listed. In many cases it is advisable to use the half-pitch flight in this hopper. The half-pitch flight will limit the capacity of the auger one-half. In the cases where the feed is bulky or 90° corners are used this will assure smooth operation.

F. Automatic Switches. There are several types of automatic switches available which automatically control the Feed-R-System. The 4145A switch mounts in the head discharge for manual start and automatic stop or for completely automatic operation. When the last feeder fills, this switch will shut-off the system. It can be wired so that it will also control the supply auger. The 4146A and 4147A switches are designed to be located in the feeder or hopper for automatic stop and start operation. As the level of feed reaches the switch in the last feeder the system will shut-off the auger. See Page 11.

G. Accessories. There are a number of accessories available to complete the system. These will vary from job to job and can be selected to fit the particular application. See Pages 12-13.

II. VERTICAL FEED-R-SYSTEM.

A. Length. The length of the vertical or inclined auger is generally short as it will only convey from the storage unit or bulk tank into the horizontal feeder run. The 4101A Basic may be long enough. If extensions are needed the 4121A, 4122A or 4123A will extend this unit.

B. Drive. The drives are available with four different auger pulleys. Proper selection can be made by referring to the RPM chart on Page 14. Do not forget to order the motor pulley when selecting the motor from the horsepower chart.

C. Head Discharge. For the discharge on the head of the vertical or inclined auger the 4126A 45° discharge spout is recommended.

D. Inlet. The flight on the vertical auger is extended beyond the housing. When used in a bulk tank or bulk storage unit it will serve as the pick-up. If the auger is used in the vertical position it is advisable to use the 4161A Intake Guard with bearing. This will keep the flight centered and also keep it off the floor. The 4155A Vertical Hopper is also available.

E. Automatic Switches. The vertical auger may be controlled by the switch on the horizontal auger. If a separate switch is required the 4145A, 4146A or 4147A switches will adapt to this use. See Page 11.

F. Accessories. There are a number of accessories available to complete the system. These will vary from job to job and can be selected to fit the particular application. See Pages 12-13.
OPERATING INSTRUCTIONS

NOTE: For recommended auger speeds and motors, see Page 14.

1. Check the assembly instructions to see that all parts are assembled correctly.
2. Make sure all shields are in place and properly adjusted for belt and pulley clearance.

⚠️ CAUTION Make certain everyone is clear before operating or moving the machine.

3. Do not run the auger at full capacity until several hundred bushels of grain have been augered to polish the flighting assembly and tube.
4. Never operate the auger empty for any length of time as excessive wear will result.
5. To maintain the economy and efficiency of your Hutchinson auger, regular and correct lubrication is a necessity. Neglect leads to reduced efficiency, excessive wear, and needless down time.

⚠️ CAUTION Never clean, adjust, or lubricate a machine that is in operation.

⚠️ CAUTION Electrical controls and wiring should be installed by a qualified electrician. The motor disconnect switches and conductor cables should comply with the National Electrical Code and any local codes, which apply. Motor starting control stations should be so located that the operator can see that all personnel are clear of the equipment.

ASSEMBLY INSTRUCTIONS

BASIC UNITS

1. The discharge end section of 4" auger housing is 10' 6" long. The head end has a discharge hole. The horizontal unit contains a flight with short rods welded near the discharge end. The inclined or vertical unit contains a flight with one paddle at the discharge end.

![BASIC HORIZONTAL](image)

<table>
<thead>
<tr>
<th>BASIC HORIZONTAL</th>
<th>BASIC VERTICAL</th>
</tr>
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<tbody>
<tr>
<td>4100A 20 ga. Tube and Flight</td>
<td>4101A 20 ga. Tube and Flight</td>
</tr>
<tr>
<td>4102A 16 ga. Tube and Flight</td>
<td>4103A 16 ga. Tube and Flight</td>
</tr>
</tbody>
</table>
AUGER EXTENSIONS

1. The Auger Extensions include auger housing with a connecting band and an extension flight with a removable connecting stub to extend the basic FEED-R-SYSTEM.

<table>
<thead>
<tr>
<th>Length</th>
<th>Material</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5'</td>
<td>20 ga. Tube and Flight</td>
<td>4121A</td>
</tr>
<tr>
<td>10' 6&quot;</td>
<td>16 ga. Tube and Flight</td>
<td>4181A</td>
</tr>
<tr>
<td>19' 6&quot;</td>
<td>20 ga. Tube and Flight</td>
<td>4122A</td>
</tr>
<tr>
<td></td>
<td>16 ga. Tube and Flight</td>
<td>4182A</td>
</tr>
<tr>
<td></td>
<td>20 ga. Tube and Flight</td>
<td>4123A</td>
</tr>
<tr>
<td></td>
<td>16 ga. Tube and Flight</td>
<td>4183A</td>
</tr>
</tbody>
</table>

DRIVE UNITS

NOTE: If a No. 4145A Automatic Stop - Manual Start Switch is used, see Page 14.

1. Bolt head bearing and retainers to head plate assembly using 3-5/16" x 3/4" carriage bolts with lockwashers and nuts. See Figure 1.
2. Position rods in head plate assembly so that motor will be behind and above drive pulley. Hold rods in place with 4-5/8" nuts. Position two above and two below the head plate.
3. Slide head plate assembly over discharge end of auger housing. Bolt on head plate with 4-1/4" x 1-1/4" bolts and nuts.
4. Slide flighting shaft through head bearing enough to install pulley on shaft with 5/16" x 2" drive pin.
5. Tighten lock collar on bearing.
6. Position motor mount straps (top) and motor mount clips (bottom) on rods and clamp together with 5/16" x 1-1/2" carriage bolts and nuts.
7. Install and tighten belt, lock with 5/8" nuts. Place support strap assembly on tube directly behind head plate assembly using half band with 2 — 1/4" x 1-1/4" bolts and nuts. Slide rod support over ends of motor mount rods. Bolt rod support to support strap assembly with 5/16" x 3/4" carriage bolt, flat washer, lock washer and nut.
8. Insert one belt guard clamp bar between rod assembly and pulley. Clamp to rod assembly with motor mount clip using one 5/16" x 1-1/2" bolt and nut. Position guard to clear belt and hold in place with clamp bar using 2 — 1/4" x 3" bolts and nuts.
HEAD DISCHARGE SPOUTS

1. These spouts attach to the motor mount brackets for the end discharge. Order either the 90° or the 45° spout.

   4125A  90° Head Spout  (Attaches to Mount)
   4126A  45° Discharge Spout  (Attaches to Mount)

2. Before completely assembling the basic auger and extensions, determine the position of intermediate feed drops and cut holes in the tube to match holes in feed drops. Clamp drops to tube. Connect auger extensions together. Bolt flighting together so that the ends of the flight are approximately one half turn apart using 5/16" x 1-1/2" bolt, lock washer and nut.

INTERMEDIATE FEED DROPS

These outlets are for intermediate drops in the FEED-R-SYSTEM. They will not attach to the motor mount. These drops are complete with a backband so that they can be attached any place on the auger.

   4130A  90° Std. Drop  4131A  90° High Cap. Drop  4132A  Drop with Slide Gate  4133A  45° Drop

1. Attach inlet to auger. For a standard or high capacity inlet, cut hole in auger housing to match hole in inlet. Install tail stub in flight using 5/16" x 1-1/2" bolt, lockwasher and nut. Bearing attaches to end cap with 2 — 5/16" x 3/4" bolts, lockwashers and nuts. Install end cap with bearing to end of auger housing using 5/16" x 1-1/2" bolt and nut. Maintain approximately 3/8" of clearance between end of flighting and bearing.

NOTE: Frequently the auger housing and/or the auger flighting will have to be shortened to fit the feeding system. Always be sure there is about 3/8" clearance between the end of the flighting and the end bearing. It is usually necessary to weld the flighting to the auger center shaft where the cut was made and to drill a hole for the tail stub or an extension flight.

2. If an 18” long extension flight is used at the inlet, bolt it to the standard auger flighting offset approximately one half turn. If the 18” x 18” hopper is used without an 18” long extension flight, cut back the auger housing approximately 18” and install hopper and tail stub.

3. Normally an inclined or vertical auger will have only a short length of exposed flighting for an inlet. The amount of exposed flighting will vary with the situation and type of material being conveyed. In cases where a depth of feed rests over the auger intake it is a good practice to use an 18” length of one-half pitch flighting at the inlet. This can prevent over-feeding and resulting overloading or plugging. When the auger is feeding another auger it is often desirable to use an 18” length of one-half pitch flighting at the inlet. This will help to prevent over-feeding the second auger.
INLETS

The Inlets attach to the inlet end of the horizontal FEED-R-SYSTEM.

4135A Standard Inlet w/ End Cap, Bearing & Intake Stub

4136A High Capacity Inlet w/ End Cap, Bearing & Intake Stub

4172A Hopper Tail Piece w/ Bearing & Intake Stub
(6” x 10” Top Opening)
4173A Hopper Tail Piece Lid

4137A 18” x 18” x 18” Hopper less Flight w/ Bearing
and Intake Stub
1637A Cover for 18” x 18” x 18” Hopper

4138A 3-1/4” O.D. Full Pitch Flight x 18” long & Intake Stub

4139A 3-1/4” O.D. Half Pitch Flight x 18” long & Intake Stub

4141A 18” x 18” x 18” Transfer Hopper. This includes
2 Intake Stubs, 2 Auger Clamps and 2 End Caps with Bearings.

When the 90° Miter Gear corner is used be sure to observe the input and output markings. It is not
necessary to to disassemble this unit to connect it to the auger. The gears should be greased occasionally
with a good grade of grease. Keep the gears properly meshed for longer gear life with occasional gear
adjustments as the gears wear. It is a good practice to use an 18” length of one-half pitch flighting at the
inlet. This can prevent over-feeding and resulting overloading or plugging.

4154A 90° Miter Gear Corner
AUTOMATIC SWITCHES

NOTE: The switches on this page will accommodate up to 1 H.P. motors and can be wired into the motors to provide automatic operation.

I. 4145A Automatic Stop - Manual Start Switch. Mounts only in the head (drive end) of a horizontal unit.

1. To install, use the holes in the back band of the head plate assembly as a pattern for cutting duplicate holes in the top side of the 4" auger housing. Attach head plate assembly to auger tube and bolt switch bracket in place. Use four 3/16" x 1/2" stove bolts with lockwashers and nuts. Attach switch paddle. See Figure 2.

2. Connect wiring to switch as shown in Figure 4. Wrap insulating material around micro switch and insert into switch housing. See Figure 3. Attach switch and housing to bracket. Install switch cover. Use screws, lockwashers and nuts found in switch housing box to assemble complete switch with cover plate.

3. Slide pipe with 1/4" x 3/4" bolt welded to it onto motor mount rod. Install flat washer, cable pulley, flat washer, lockwasher and nuts. Use bronze cable sleeves to secure cable at both ends.

II. 4146A Automatic Stop-Automatic Start Switch. Mounts on the end of a 4" x 1' tube to be used in a hopper or surge chamber. See Figure 5.

To install, connect wiring as shown in Figure 4. Wrap insulating material around micro switch and insert switch into housing. See Figure 3. Install switch cover. Use screws, lockwashers and nuts found in switch housing box to assemble complete switch.

III. 4147A Mercury Switch (Automatic Stop-Automatic Start) Mounts in a hopper or surge chamber to control the auger.
ACCESSORIES

This full line of accessories will allow you to design a custom FEED-R-SYSTEM from standard items.

4150A  2-Way Pan Valve

4151A  3-Way Pan Valve

4152A  "Y" Spout

4156A  4" Galvanized 20 gauge Tubing (per foot)
       20 gauge Tubing available in 5', 10'6", 14'6" and 19'6" lengths.

4168A  4" Galvanized 16 gauge Tubing (per foot)
       16 gauge Tubing available in 5', 10'6" and 19'6" lengths.

4157A  4" Galvanized Flexible Tubing (per foot)
       Flexible Tubing available in 2', 10' and 50' lengths.

4174A  Adjustable Mounting Bracket
       (2-leg) Adjusts from 26" to 38"
ACCESSORIES (CONT’D)

4158A  End Cap with Bearing and Intake Stub
4159A  4” Mounting Bracket w/ 18” Cross Arm
4160A  4” Mounting Bracket w/ 24” Cross Arm
4161A  Intake Guard w/ Bearing and Intake Stub
4165A  Perforated Hanger Strap (per 10’ rolls)
4163A  Slide Shut-Off
4166A  Bin Well Adaptor (to adapt 6” bin well for 4” auger) (old style)
4134A  Bin Well Adaptor (to adapt 6” bin well for 4” auger) (new style)
4057A  Control Gate
4162A  4” Connecting Band x 12” lg.
4359A  4” Connecting Band x 3” lg.
4170A  Intake Stub (13/16” to 1” x 5-1/2’’)
4164A  Flight Connecting Stub (13/16” x 5-1/2’’)
4171A  Drive Cover and Mounting Bracket
       Fits 4108A, 4110A and 4112A Drives only.
FEED-R-SYSTEM OPERATING DATA

RPM CHART
Based on 1750 RPM motor

<table>
<thead>
<tr>
<th>MOTOR PULLEY</th>
<th>AUGER</th>
<th>PULLEY</th>
<th>SIZE</th>
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<tr>
<td></td>
<td>8&quot;</td>
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<td>12&quot;</td>
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<tr>
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<td>547</td>
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<td>365</td>
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<tr>
<td>3.0</td>
<td>656</td>
<td>552</td>
<td>438</td>
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RECOMMENDED AUGER SPEEDS
A horizontal auger with one or more 90° miter gear corners in the run should operate at a minimum of 350 RPM. A standard horizontal auger should turn at a speed determined by the type of material being conveyed and the capacity desired. For most feeding operations this speed should not exceed 675 RPM. An inclined to horizontal or horizontal to inclined junction using 90° miter gear corner should operate at a minimum of 450 RPM. The 90° corner is not recommended for use at inclines greater than 45°. The minimum operating speed for a vertical auger is 500 RPM.

HORSEPOWER REQUIREMENTS
Based on horizontal speed of 365 RPM and vertical speed of 525 RPM. Lengths recommended are the maximum for the size of motor.

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<tr>
<th>SIZE OF MOTOR</th>
<th>TYPE OF AUGER</th>
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<tr>
<td></td>
<td>HORIZONTAL</td>
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<tr>
<td>½ H.P.</td>
<td>35</td>
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<tr>
<td>¾ H.P.</td>
<td>65</td>
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<tr>
<td>1 H.P.</td>
<td>110</td>
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</tbody>
</table>

The above recommendations are intended to be used as a general guide. Horsepower will vary with the condition of the material being conveyed, moisture content, and method of feeding the auger.

SAFETY DECALS
Check all safety decals to be sure they are in good condition and legible. If any decals are illegible due to damage or deterioration, replace them immediately. They can be ordered from your Hutchinson Dealer. Order information is as follows: “Danger Rotating Auger” Part No. 34020 “Caution” Part No. 2060A1