# 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 on 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 receipt. 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 saleable 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 (power & wiring included)
3. Unauthorized alterations of goods.
5. Use of unauthorized repair parts.
6. Irresponsible operation.
7. Used to handle materials other than free flowing, non-abrasive 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 TO 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.
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 all 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.

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.
# TABLE OF CONTENTS

- General Safety Statements ....................................................................................................... 1
- Safety Symbol .......................................................................................................................... 1
- Operator Qualifications .......................................................................................................... 3
- Sign-off Sheet .......................................................................................................................... 3
- Machine Inspection ................................................................................................................ 4
- POWER REQUIREMENTS ....................................................................................................... 4
- DESIGNATED WORK AREA .................................................................................................. 4
- OPERATING PROCEDURES ................................................................................................. 5-6
  - Start-up ............................................................................................................................... 5
  - Operating Capacities .......................................................................................................... 5
  - Shutdown ............................................................................................................................. 6
  - Lockout ............................................................................................................................... 6
- TROUBLE SHOOTING ........................................................................................................... 7
- ASSEMBLY INSTRUCTIONS ............................................................................................... 8-10
- NOTICE TO DEALER / ASSEMBLER .................................................................................. 11
- PARTS LIST .......................................................................................................................... P-1 thru P-3
OPERATOR QUALIFICATIONS

Operation of this auger shall be limited to competent and experienced persons. In addition, anyone who will operate or work around this system 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 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 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 of this auger. We include this sign off sheet for your convenience and personal record keeping.

<table>
<thead>
<tr>
<th>DATE</th>
<th>EMPLOYER SIGNATURE</th>
<th>EMPLOYEE SIGNATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
MACHINE USE

Utility Augers are primarily designed as portable units. They are not designed for permanent installations and are not available in special lengths. Whenever you are selecting an auger for permanent installation we recommend the Custom-Built Distributing Auger. A utility auger has many and varied uses. Since it is not sold with an undercarriage or other means of support, it must be supported by the user adequately for the particular job to be done. Always be sure to fasten the discharge end and intake end in place so the auger will remain in position during operation.

MACHINE INSPECTION

After delivery of your new auger and/or completion of assembly and before each use, inspection of the machine is mandatory. Use the assembly instructions in this manual as a reference to determine that the auger is assembled properly. This inspection should include, but not be limited to:

1. Check to see that all guards listed in the assembly instructions are in place, secured and functional.
2. Check all safety signs and replace any that are worn, missing or illegible. The safety signs are listed in the back of this manual. Safety signs may be obtained from your dealer or ordered from the factory.
3. Are all fasteners tight?
4. Are drive belts properly adjusted? (See Maintenance Section.)

Obtain any needed replacement parts from your dealer and install before using the machine.

DESIGNATED WORK AREA

Before starting the auger, a designated work area should be established around it.

Under no circumstances should persons not involved in the operation be allowed to trespass into the work area.

It shall be the duty of all operators to see that children and/or other persons stay out of the work areas! Trespass into the work area by anyone not involved in the actual operation, or trespass into a hazard area by anyone, shall result in an immediate shut down 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 accidental tripping and/or falling. It shall also be their responsibility to keep the work area clean and orderly during the operation.

DO NOT enter the grain bin unless all power driven equipment has been shut down and locked out.

HORSEPOWER REQUIREMENTS

6" UTILITY AUGER

<table>
<thead>
<tr>
<th>AUGER LENGTH</th>
<th>MOTOR HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>11'</td>
<td>3/4</td>
</tr>
<tr>
<td>16'</td>
<td>1</td>
</tr>
<tr>
<td>21'</td>
<td>2</td>
</tr>
<tr>
<td>27'</td>
<td>3</td>
</tr>
<tr>
<td>33'</td>
<td>5</td>
</tr>
<tr>
<td>41'</td>
<td>5</td>
</tr>
</tbody>
</table>

The horsepower recommendations are based on clean, dry shelled corn or wheat. High moisture grain (above 15%) will require greater power. The maximum possible capacity will be less with high moisture grain than with dry grain.
OPERATING PROCEDURES

ELECTRIC MOTOR DRIVE INFORMATION

Always use a motor with required H.P. suggested in the chart on the previous page. Use a motor that operates at 1750 RPM. Electric motors and controls shall be installed by a qualified electrician and must meet the standards set by the National Electrical Code and all local and state codes. Reset and Motor Starting Controls may be mounted directly to the auger or in a nearby area, but they must be located so that the operators have full view of the entire operation from the control location.

A magnetic starter should be used to protect your motor when starting and stopping. It should stop the motor in case of power interruption, conductor fault, low voltage, circuit interruption, or motor overload. Then the motor must be restarted manually. Some motors have built-in thermal overload protection. If this type motor is used, use only those with manual reset.

Reset and motor starting controls must be located so that the operator has full view of the entire operation.

A main power disconnect switch capable of being locked only in the OFF position shall be provided. This shall be locked whenever work is being done on the Horizontal Bin Unloading Auger.

START-UP INFORMATION - CONT.

Start the electric motor that operates the auger. Then, begin to open the control gate. Position the control gate so an adequate amount of grain flows into the auger. Do not overload the motor by overfeeding the auger.

During the operation of the auger, one person shall be in a position to monitor the operation. Inspect the drive before adding power and know how to shut down in an emergency. (See page 6.) Visually inspect the auger periodically during operation.

BREAK-IN INFORMATION

Any screw conveyor when it is new or after it sets idle for a season should go through a “break-in” period.

Never operate the auger when empty for any length of time, as excessive wear will result. If at all possible do not stop or start the auger under load, especially before the flight and tube become well polished, as this may cause the auger to “freeze-up”.

Operate auger at proper flight speeds. (See flight speed information below.)

OPERATING CAPACITIES

The results or capacities of screw conveyors or augers can vary greatly under varying conditions. Different materials, moisture content, amount of foreign matter, methods of feeding and speed all play a role in the performance of the auger. Twenty-five (25%) moisture could cut capacity back by as much as 40% under some conditions.

FLIGHT SPEED INFORMATION

Use a 3.5” motor pulley for a recommended auger speed of 510 RPM. Motor pulleys are not furnished with the auger. Proper auger flight speed is important for efficient operation of the auger. Auger speeds in excess of 700 RPM should be avoided as excessive wear will result. Auger speeds below 450 RPM require a flow control to restrict intake to the auger. High torque is required to turn the flighting if it is permitted to “load up” at low speed and damage to the auger can result. An optional control gate is available for this purpose.

START-UP INFORMATION

Make certain everyone is clear before operating equipment.

The operator shall be aware of any unusual vibrations, noises and the loosening of any fasteners.

Keep all safety shields and devices in place.

Keep hands, feet and clothing away from moving parts.

Shut off and lock out power to adjust, service or clean.

1028041-5
OPERATING PROCEDURES

FULL LOAD OPERATION

TO START AUGER
1. Start electric motor before conveying grain.

NORMAL OPERATION
1. Open the control gate that allows grain to fill the auger until fully loaded. Always close the control gate to allow the auger to empty before stopping.
2. Monitor all the grain flow into the auger and be aware of any foreign materials that may cause restrictions or plugging.

TO STOP AUGER
1. Close the control gate to allow the auger to empty before stopping.
2. Shut off electric motor and lockout.

WARNING: If the operator must leave the work area, or whenever servicing or adjusting, the auger must be stopped and the power source turned off. Precaution should be made to prevent anyone from operating the auger when the operator is absent from the work area.

SHUTDOWN

A. NORMAL SHUTDOWN
Make certain that the control gate is closed to permit the auger tube to clean out before stopping the unit. Before the operator leaves the work area, the power source shall be locked out. (See LOCKOUT).

B. INTERMITTENT OPERATION SHUTDOWN
When an auger is stopped and restarted under full load, it may result in damage to the auger. Therefore, if intermittent operation is to be carried out, it is advisable to reduce the load level. When kept from absolute filling, auger start-up is easier and operation is more efficient.

C. EMERGENCY SHUTDOWN
Should the auger be immediately shut down under load, disconnect and lockout the power source. Make sure grain is cleared away from the discharge opening of the head.

NOTE: Starting the unit under load may result in damage to the auger. Such damage is considered abuse of the equipment.

LOCKOUT

1. Check to see that all guards listed in the assembly instructions are in place and secured and functional.
2. Check all safety signs and replace any that are worn, missing or illegible. The safety signs are listed in the parts section of this manual. Safety signs may be obtained from your dealer or ordered from the factory.
3. Are all fasteners tight?
AUGER VIBRATION

Driving belt may be over tightened, putting head stub and flight in a bind. Damage can occur to the auger flighting, thus causing noise. Damage usually occurs because of foreign material having been run through the auger. It may be necessary to remove the flighting for inspection.

LOW CAPACITY

The auger may not be getting enough grain. Check to make sure the bin well slide gate is open.

Check auger speed. Speeds slower than the recommended speed will result in low capacity.

AUGER PLUGS

The auger may be getting too much grain, causing “jamming” inside the housing.

The motor may be too small or wired improperly. (See HP requirements, page 4.)

If wet grain or other hard-to-move material be being augered, use a larger size motor than recommended for normal use. (See footnote to HP chart, page 4.)

Is the auger free of any foreign material, such as sacks, tarp corners, etc? A plug of the discharge end will cause an auger plug.
6” UTILITY AUGER

1. Bolt head bearing (3) to head plate (2) with two 3/8” x 1” hex head bolts and nylon locknuts.

2. Install the head stub (5) into the head flight (16) using two 3/8” x 1-3/4” long hex head bolts and nylon locknuts.

3. For 41’ Models: Bolt head flight (16) and extension flight (20) together with the connecting stub (19) using two bolts and locknuts.

4. For 41’ Models: Connect the head auger housing (1) and the extension auger housing (17) together with the connecting band (18). Be sure auger housings are tight together. Use bolts already in connecting band. Half the band should be on each housing.

5. Slide the head stub and flight into the housing (1) and through the bearing (3) which is assembled to the head plate. Make sure lock collar (4) is on head stub, but DO NOT tighten at this time.

6. Bolt the head plate (2) to the head end of the flanged housing (1) using six 5/16” x 1” hex headed bolts, flatwashers and non-lock nuts.

7. Attach the belt guard back (7) to the head plate (2) using the four square holes in the belt guard that are located closest to the big round hole.

Attach the belt guard back with four 3/8” x 3/4” carriage bolts and nylon locknuts.
6” UTILITY TANK AUGER

8. Install sheave (8) onto the head stub (5) using the 1/4” key (6). Locate sheave (8) as close as possible to head bearing and when everything is set, tighten lock collar (4) on the head bearing, as well as setscrews in sheave.

9. Attach motor mount support plate (11) to head plate using four 1/2” x 1” hex head bolts and nylon locknuts. Make sure heads of bolts are on the inside with nuts on the outside.

10. Thread 5/8” nut (14) onto threaded rod (13). Position nut close to head of bolt. Install threaded rod (13) into motor mount support plate (11). Position threaded rod all the way into the support plate.

11. Attach the motor mount (15) to the motor mount support plate (11) using the 3/8” diameter x 9-1/4” long pin. Use 1/8” x 1” long cotter pin to secure in place.

12. Install electric motor on motor mount and pulley on motor (not furnished). Install belt (9) and tighten with threaded adjustment rod (13). When belt is tight, use 5/8” nut (14) to lock threaded adjustment rod (13) in place.

13. Slide four Timmerman nuts (25) onto belt guard back lip (7) over the holes. Thread wing bolts (26) into each nut, but DO NOT tighten down. Leave about a 1/4” space wing bolts head and nut.

14. Install belt guard (10) by holding bottom part of guard away from the belt guard back and sliding top part of guard onto belt guard back first using the angle slots in the guard to go over the wing bolts. Once the top of guard is in position, swing bottom of guard onto belt guard back using the slots in the bottom part of the guard to over the lower two wing bolts. Tighten all wing bolts.

15. Bolt tail stub (21) into intake end of auger.

16. Slide intake guard assembly (23) on intake end of auger housing. Clamp assembly to auger housing with 5/16” x 1-1/2” long hex head bolts and nuts.
MOTOR MOUNT DETAIL

Use the drawing and table below to determine proper placement of motor.

Motor Mount Plate Detail
(Refer to table below.)

MOTOR MOUNT HOLE LOCATION - (Reference Motor Mount Plate Detail Drawing)

<table>
<thead>
<tr>
<th>MOTOR SIZE HP</th>
<th>MOTOR FRAME SIZE</th>
<th>BOLT DIA. REQ'D.</th>
<th>MOUNT IN HOLES MARKED (*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>143T</td>
<td>3/8&quot;</td>
<td>*  *  *  *</td>
</tr>
<tr>
<td>1 1/2 -2</td>
<td>145T</td>
<td>3/8&quot;</td>
<td>*  *  *  *</td>
</tr>
<tr>
<td>3</td>
<td>182T</td>
<td>3/8&quot;</td>
<td>*  *  *  *</td>
</tr>
<tr>
<td>5</td>
<td>184T</td>
<td>3/8&quot;</td>
<td>*  *  *  *</td>
</tr>
<tr>
<td>7 1/2</td>
<td>213T</td>
<td>3/8&quot;</td>
<td>*  *  *  *</td>
</tr>
</tbody>
</table>
TO DEALER / ASSEMBLER

NOTICE

The assembly of the auger is complete if all the applicable assembly steps in this manual have been followed.

Before delivery to the owner, it is a good practice to check the following.

A. Be sure all safety shields and devices are installed properly.

B. Check all safety decals to see if they are clean and readable. If any are missing, damaged, painted over, etc. replace them. See page P-1 for safety sign location. Decals may be obtained from your dealer, distributor or ordered from the factory.

C. Check all bolts and fasteners to see they are tightened and secured properly.

Deliver this Assembly and Operator’s Manual to the owner, along with the auger.

TO THE OWNER

Use the assembly instructions in this manual as a reference to determine that the auger is assembled properly.
SAFETY DECALS

Check components as specified below to insure that safety decals are present and in good condition. If a decal cannot be easily read for any reason or has been painted over, replace it immediately. Decals may be ordered through your dealer.

“DANGER ROTATING AUGER”
Decal Part No. 1001985

“CAUTION” Decal
Part No. 1002301

1. READ AND UNDERSTAND THE OPERATOR’S MANUAL BEFORE OPERATING.
2. DO NOT REMOVE OR MODIFY ANY GUARDS.
3. MAKE CERTAIN EVERYONE IS CLEAR BEFORE OPERATING OR MOVING THE MACHINE.
4. KEEP HANDS, FEET, HAIR AND CLOTHING AWAY FROM ROTATING AUGER.
5. STOP MACHINE AND LOCKOUT POWER TO ADJUST, SERVICE OR CLEAN.
6. DISCONNECT POWER BEFORE SETTING MOTOR OVERLOAD.
7. MAKE CERTAIN ELECTRIC MOTORS ARE GROUNDED.
8. KEEP CHILDREN WELL CLEAR OF WORK AREA.
6” UTILITY AUGER
## 6” UTILITY AUGER

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1016505-0F</td>
<td>Auger Housing for 11’ Model (10’ long)</td>
</tr>
<tr>
<td>1</td>
<td>1016506-0L</td>
<td>Auger Housing for 16’ Model (15’ long)</td>
</tr>
<tr>
<td>1</td>
<td>1016506-0R</td>
<td>Auger Housing for 21’ Model (20’ long)</td>
</tr>
<tr>
<td>1</td>
<td>1016506-0Y</td>
<td>Auger Housing for 27’ Model (26’ long)</td>
</tr>
<tr>
<td>1</td>
<td>1028029</td>
<td>Auger Housing for 33’ Model (32’ long)</td>
</tr>
<tr>
<td>1</td>
<td>1016506-0R</td>
<td>Auger Housing for 41’ Model (upper section) (20’ long)</td>
</tr>
<tr>
<td>2</td>
<td>1027803</td>
<td>Head Plate</td>
</tr>
<tr>
<td>3</td>
<td>6818D</td>
<td>1” Bearing, 2-hole Flange with Lock Collar</td>
</tr>
<tr>
<td>4</td>
<td>- - -</td>
<td>Lock Collar for Bearing</td>
</tr>
<tr>
<td>5</td>
<td>6332G</td>
<td>Head Stub, 1” dia. x 10” long</td>
</tr>
<tr>
<td>6</td>
<td>4045A1</td>
<td>Key, 1/4” Square x 2” long</td>
</tr>
<tr>
<td>7</td>
<td>1027782</td>
<td>Belt Guard Back</td>
</tr>
<tr>
<td>8</td>
<td>40149</td>
<td>Sheave, 1-Groove 12” O.D. x 1” Bore</td>
</tr>
<tr>
<td>8</td>
<td>40151</td>
<td>Sheave, 2-Groove 12” O.D. x 1” Bore</td>
</tr>
<tr>
<td>9</td>
<td>40118</td>
<td>Belt, B-52</td>
</tr>
<tr>
<td>10</td>
<td>1027801</td>
<td>Belt Guard - Plastic</td>
</tr>
<tr>
<td>11</td>
<td>1027777</td>
<td>Motor Mount Support Bracket</td>
</tr>
<tr>
<td>12</td>
<td>1016578</td>
<td>Pin, 5/8” Dia. x 9-1/4” long</td>
</tr>
<tr>
<td>13</td>
<td>1027780</td>
<td>Adjusting Rod</td>
</tr>
<tr>
<td>14</td>
<td>D1170</td>
<td>Nut, 5/8” Non-lock</td>
</tr>
<tr>
<td>15</td>
<td>1027779</td>
<td>Motor Mount Plate</td>
</tr>
<tr>
<td>16</td>
<td>1701C</td>
<td>Flighting Assembly for 11’ (10’-10 1/2” long) (less stub)</td>
</tr>
<tr>
<td>16</td>
<td>1701D</td>
<td>Flighting Assembly for 16’ (15’-11” long) (less stub)</td>
</tr>
<tr>
<td>16</td>
<td>1702C</td>
<td>Flighting Assembly for 21’ (20’-11” long) (less stub)</td>
</tr>
<tr>
<td>16</td>
<td>1018109</td>
<td>Flighting Assembly for 27’ (26’-11” long) (less stub)</td>
</tr>
<tr>
<td>16</td>
<td>1018110</td>
<td>Flighting Assembly for 33’ (32’-11” long) (less stub)</td>
</tr>
<tr>
<td>16</td>
<td>1702C</td>
<td>Flighting Assembly for 41’ (upper section) (20’-11” long) (less stub)</td>
</tr>
<tr>
<td>17</td>
<td>6306A</td>
<td>Auger Housing (lower section) (20’ long)</td>
</tr>
<tr>
<td>18</td>
<td>6809A</td>
<td>Connecting Band</td>
</tr>
<tr>
<td>19</td>
<td>1722C</td>
<td>Flight Connecting Stub (1” x 9 1/2” long)</td>
</tr>
<tr>
<td>20</td>
<td>60560</td>
<td>Flighting Assembly for 41’ with stub (lower section) (20’ long)</td>
</tr>
<tr>
<td>21</td>
<td>6813D</td>
<td>Intake Stub for Flighting (1” x 7” long)</td>
</tr>
<tr>
<td>22</td>
<td>5046A1</td>
<td>Half Band, 4” wide</td>
</tr>
<tr>
<td>23</td>
<td>6489A1</td>
<td>Intake Guard</td>
</tr>
<tr>
<td>24</td>
<td>6303D</td>
<td>1” Bronze Bushing</td>
</tr>
<tr>
<td>25</td>
<td>1013133</td>
<td>Nut, Tinnerman - 1/4”</td>
</tr>
<tr>
<td>26</td>
<td>1013131</td>
<td>Bolt, Wing -1/4”</td>
</tr>
</tbody>
</table>