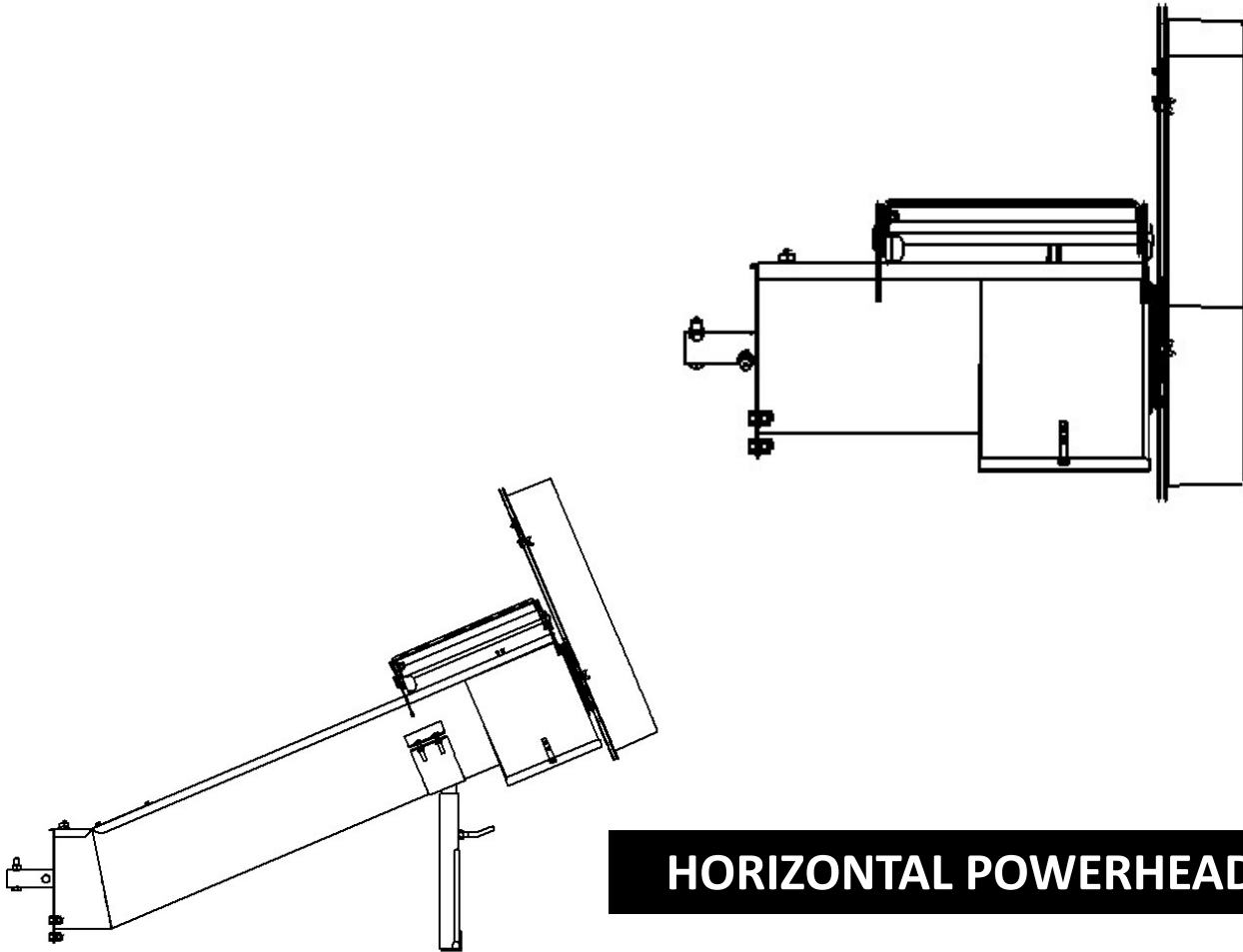


**INSTALLATION AND
OPERATING INSTRUCTIONS**

**THE Grain
Handler™**

***HEAVY DUTY
POWERHEADS***



HORIZONTAL POWERHEADS

INCLINE POWERHEADS

HYDRAULIC DRIVES

PNEUMATIC TIRES

ASSEMBLY INSTRUCTIONS:

HEAVY DUTY POWERHEADS



Congratulations! You have just purchased the finest grain handling equipment components available today! With proper use and service, this equipment is designed to give you many years of trouble-free service. All Grain Handler™ unloading equipment is built to the highest standards and incorporates the most current safety features. For your safety and convenience, please read the following assembly, installation, and operating instructions. Familiarize yourself with the use of this equipment and the standard safety features before attempting to operate it.

- **NEVER enter the storage structure while this equipment is in operation.**
- **Be certain all guards are in place before connecting power or starting this equipment.**
- **NEVER allow children or any personnel who are unfamiliar with the features or hazards of this equipment to operate it without proper supervision.**
- **Lock out all power sources before attempting to service this unit.**

The Grain Handler™ powerhead comes partially assembled from the factory. Minor assembly is required. A few basic tools are required to complete assembly of this equipment: a slotted screw driver, a pliers, a wrench set up to 1", a crescent wrench, and a set of allen wrenches. Torque settings of 35 ft. lbs. is recommended for all hardware.

Horizontal models:

- Attach black shield back plate and yellow shield assembly to powerhead housing using hardware provided.
- Install the driven sheave on the powerhead input shaft and leave set screws loose until motor is installed. Install motor sheave (3.2" or smallest diameter you can fit on the motor output shaft) on the motor, and install the motor on the motor mount plate. Slide the motor forward until the sheaves are aligned and bolt securely. You may need to move both sheaves to align. Proper alignment is required for longer belt life. Check belts to be sure that they are matched (same brand and number i.e. Gates B-54...B-56...etc.) Install the belts and evenly tighten setscrews on the sheaves at this time.
- Adjust the belt tension. Move the motor mount up or down on the hinge pin brackets as required. Lock in place with rod clip. Check the belt tension with the over center handle. Choose the slot that allows the best tension and press the handle up to lock in place. Do not over tighten; belt damage could result. Belts "squeal" when they become loose or worn out. Tighten belts only enough to eliminate any slip and noise.
- Close belt guard and secure in place using two wing nuts (provided). Never remove this guard unless servicing or replacing belts. Replace guard immediately after servicing this equipment.
- Consult an electrician to install a proper pigtail plug-in or hard wire your powerhead to the electrical source. Provide adequate, fusible protection for each motor. Read all warning decals attached to this equipment.

Incline models:

A-E. Follow steps above.

F. U-Trough models:

On a level surface, support the discharge spout securely about 20" above grade. Mount the stand assembly (with stand adjusting lock handle toward the discharge spout) to the brackets provided on the powerhead housing using the four 1/2"x3" carriage bolts and nuts provided. Tighten evenly and securely. There may be a small gap between the half band and the powerhead brackets; this is normal. Do not over tighten. This stand can be used as an adjustable permanent stand or as a transport.

Tube models:

Stand assembly should be mounted 4"-6" back from the discharge spout. On a level surface, support the discharge spout securely about 20" above grade. Place upper half band assembly over tube and insert the four 1/2"x3" carriage bolts provided. Place the stand assembly under the powerhead with the stand adjusting lock handle toward the discharge spout. Install nuts and lock washers provided. Tighten evenly and securely. There may be a small gap between the half band and the powerhead stand assembly; this is normal. Do not over tighten. This stand can be used as an adjustable permanent stand or as a transport.

- Pneumatic tires are optional and are installed by sliding the tires over the axles and installing the washers and hairpin cotter.

Hydraulic drives:

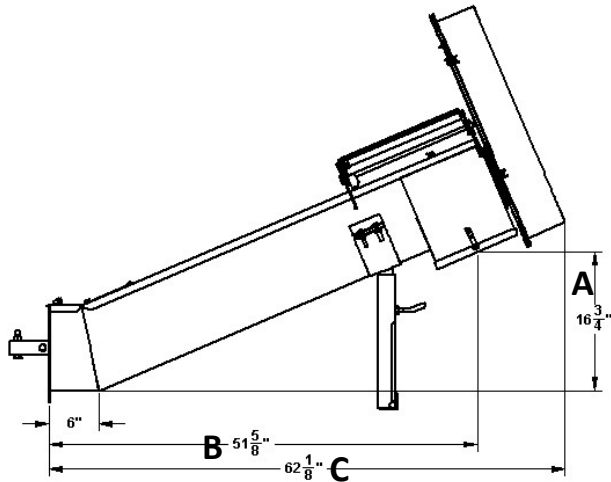
- Hydraulic drives are assembled at the factory. Attach hydraulic lines and flow controls. Check the motor manufacturer's recommendation for proper flow rates and PSI ratings.

Note: If any warning or safety decals become lost or damaged, please contact us for free replacements.

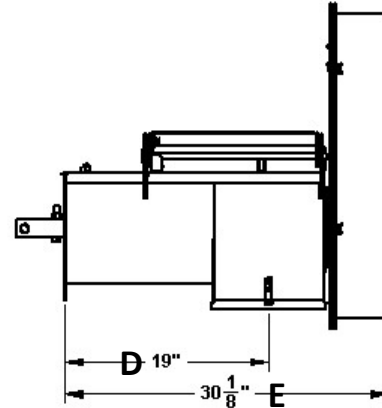
HORSEPOWER REQUIREMENTS

STANDARD UNLOAD TUBES & POWERHEADS

BIN DIA.	6"		8"		10"	
	HORIZ.	INCL.	HORIZ.	INCL.	HORIZ.	INCL.
18'	1.5	5.0	3.0	7.5	5.0	10.0
21'	1.5	5.0	3.0	7.5	5.0	10.0
24'	2.0	7.5	3.0	7.5	5.0	10.0
27'	2.0	7.5	3.0	7.5	5.0	10.0
30'	2.0	7.5	3.0	10.0	5.0	15.0
33'	2.0	7.5	3.0	10.0	5.0	15.0
36'	3.0	7.5	5.0	10.0	5.0	15.0
42'	3.0	7.5	5.0	10.0	7.5	15.0
48'	3.0	7.5	5.0	10.0	7.5	15.0



INCLINE POWERHEAD



STRAIGHT POWERHEAD

INSTALLATION/OPERATING INSTRUCTIONS:

POWERHEADS: Check unload screw to be sure it is straight and in good, serviceable condition. Attach unload screw to the output shaft with bolts provided in output shaft. Use lock washer or a lock nut to provide a secure connection. Attach powerhead flange to unload tube flange with the bolts provided in angle flanges. On the tube style units, use convenient (optional) flange clamps for quick connections. Be certain that no one is in the storage structure. With the slide gates closed, start the powerhead/auger assembly and open the center well slowly. Unload the bin through the center well until grain quits flowing freely and then open the intermediate well(s). Close all gates and allow auger to run for 30 seconds before turning off power to the powerhead. Do not start and stop equipment under load! Instruct all personnel that the over center handle can be used as emergency shut off. Simply pull the handle down to stop the auger.

WARNING!

Exposed screw conveyors, belts, and chains can cause severe injury or death. Lock out all power before entering storage facility or removing guards.

LIMITED WARRANTY EFFECTIVE MARCH 1, 2008

The Grain Handler, hereinafter referred to as "Agent". The manufacturers of the Grain Handler™ auger equipment warrants each Grain Handler™ product to be free from defects in materials and workmanship for a period of twelve (12) months on parts and labor at the allowed labor rates. The warranty will be extended on manufacturers parts only for an additional period of 24 months for a total of 36 months on all parts, excluding belts, shear bolts, bearings and other normal wear-and-tear items. The "defect" must be reported to the manufacturer, the manufacturer's "Agent", or the "Agent's" representative within the 12 month parts and labor warranty or the 36 month extended parts warranty period commencing on the date of the original sale. All whole goods items must be registered by the dealer at the time of sale. The warranty registration card must be filled out at the time of installation and mailed back to validate and record the date of installation and start the warranty period. Failure to fill out and return the warranty registration card will result in the warranty being void.

This limited warranty is made expressly in lieu of all other warranties, whether expressed or implied but not limited to, warranties of merchantability and fitness for a particular purpose, and of all other obligations or liabilities on the part of the "Agent". The customer's rights and remedies are governed exclusively by the terms and conditions of this limited manufacturer's warranty, and the customer expressly waives for himself, and any subsequent purchaser, any claim based upon contract, tort, strict liability, or otherwise. "Manufacturer's" obligation and sole remedy under this warranty is exclusively limited, at "Manufacturer's" option, to either repair or replace any part or product found to be "defective" providing that such part or product be returned to the "Agent's" place of business in Horace, North Dakota, Transportation Charges Prepaid, or to the selling dealer or distributor's place of business from whom the purchase was made. All corrective work on products must be approved in writing by "Agent" prior to such repairs. No allowances will be made for corrective work that has been completed without this express approval.

Improper lubrication, improper installation, deterioration by chemical action, and premature wear caused by the presence of abrasive materials does not constitute "defects".

This warranty shall not render "Agent" liable for any consequential damages including, and without limitation to; personal injury, expenses of removing the product, loss or damage resulting to the equipment or structure(s) in which the "Manufacturer's" products have been installed, loss of such equipment or structure, loss of commodity, or loss of profits.

This warranty shall not apply to any products which have been altered or repaired by anyone other than an authorized "Manufacturer's" service representative, and any product which has been subject to abuse, misuse, neglect or accident, nor to any product which shall be found not to have been installed or operated in accordance with the printed manuals.

This warranty shall be declared null and void immediately if the purchaser or a representative of the purchaser, or anyone else shall modify or install, or cause to be modified or installed replacement parts not sold, distributed, or approved by the "Manufacturer".

This warranty shall not be extended to gearboxes, batteries, drive belts, tires, inner tubes, electrical controls, or any purchased component that carries it's own manufacturers warranty. The warranty on these products shall be limited only to the term of the published warranties on these products.

Manufacturer is not responsible for installation of the product, and is not liable for any loss or damage attributed to improper installation.

"Agent" neither assumes nor authorizes anyone to assume for "Agent", any liabilities in connection with the sale of its products.

All claims under this limited warranty must be presented in writing within 30 days of the date of assumed failure to: The Grain Handler, Horace, North Dakota 58047. Failure to do so will result in customer's claim being waived and not enforced.

This warranty is subject to existing conditions of supply, which may directly affect the ability of the "Manufacturer's" to obtain materials or manufactured replacement parts.

Customer agrees to incorporate the terms of this warranty into any subsequent sale or transfer of these products to a third party such that the "Agent's" liability shall be expressed, limited to the terms and conditions of this limited warranty, as well as the choice of law and choice of jurisdiction provisions of this agreement. If any party brings an action against the "Agent", for other than those set forth in this limited warranty, the customer agrees to defend the "Agent" against such claims at customer's expense, including attorney's fees and to hold "Agent" harmless against any such claims and/or judgments thereon. In no event shall the "Agent's" liability extend beyond the terms and conditions of the warranty provided to "Agent's" original customer.

Customer agrees that Customer's rights and responsibilities, in regard to this transaction, shall be governed by the laws of the State of North Dakota and shall be the Exclusive jurisdiction for bringing any dispute in regards to this transaction.

Customer acknowledges that he is knowledgeable concerning the goods purchased from "Agent". Customer has reviewed the limited warranty and that the remedies provided are adequate and acceptable to customer. "Agent" is not responsible or liable for any claim of personal injury or death.

This writing constitutes the entire representation of warranties, oral or written, express or implied, statutory or otherwise. This limited warranty may be modified only in writing, signed and notarized by the manufacturer or the "Agent" at the home office in Horace, North Dakota.

