

# ***Flite-Veyor***<sup>®</sup>

**LOW PROFILE DRAG CONVEYORS**

**MODELS 1012 - 1812**

## **INSTALLATION & OPERATING INSTRUCTION MANUAL**

Manufactured in the U.S.A. by



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Orders are subject to the approval of Sweet Manufacturing Company in writing at Springfield, Ohio, U.S.A., or by shipment of goods. All orders are considered firm contracts. Shipping dates are only our estimate based upon time required for production, and we shall not be liable for any claims for delays beyond our control, nor shall we accept cancellations or suspensions unless agreed upon, at the same time protecting us against loss caused by such cancellation or suspension.

The title and right to possession of the goods covered by order shall remain with Sweet Manufacturing Company until complete and final payment therefore shall have been paid to Sweet Manufacturing Company in cash, including any interest or other auxiliary charges provided for. All goods covered by order will be considered as personal property until completely paid for, regardless of mechanical attachment to real estate.

No material shall be returned without our authorization. Where written consent of Sweet Manufacturing Company is given for the return of unused goods, the purchaser will pay a minimum handling charge of fifteen percent (15%) of the original purchase price of the goods returned.

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A minimum charge of Fifty Dollars (\$50.00) net, exclusive of transportation charges, will be made on all orders, unless otherwise noted on invoice for the value of such material as less than this amount.

All prices are F.O.B. Springfield, Ohio, U.S.A., unless otherwise agreed. Additional charges may be made for special handling, extra packing, or unusual services. Open account terms will be extended subject to approval of our Credit Department. Any federal or state taxes, sales, use, or other taxes will be added to invoice when and if assessed. All prices are subject to change without notice.

### **Sweet Manufacturing Company**

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# ***Flite-Veyor***<sup>®</sup>

## **LOW PROFILE**

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Purchase Date \_\_\_\_\_ Model \_\_\_\_\_

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

## INTRODUCTION

The purpose of this Owner's Manual is to advise and instruct owners of the Flite-Veyor® Low Profile Drag Conveyors (hereafter referred to as Low Profile Flite-Veyor®) and accessories in the recommended installation, operation, and maintenance of the equipment.

The instructions and drawings provide a step-by-step method of installation procedures. Even though installation procedures may vary because of different applications, it is suggested that if there are any questions, you refer to the instructions in this manual. To ensure long life and trouble-free operation, it is recommended that you perform regular maintenance as discussed in this manual.

**IT IS THE INSTALLER'S RESPONSIBILITY TO BE AWARE OF ALL FEDERAL, STATE, AND LOCAL SAFETY AND ELECTRICAL CODES DURING THE INSTALLATION AND USE OF THE LOW PROFILE FLITE-VEYOR®.**

## CHECK & INSPECT YOUR ORDER

Each order or shipment is double checked before leaving the factory. All parts, pieces, and components are listed item by item on our packing list, which accompanies each order. The number and description of each item, package, container, skid, etc. are listed on the bill of lading. **IN SIGNING THE BILL OF LADING, THE CARRIER ASSUMES FULL RESPONSIBILITY FOR SAFE DELIVERY OF ALL GOODS TO DESTINATION IN THE SAME ORDER AS CARRIER WAS TENDERED BY THE SHIPPER.** In the event of damage or shortage, have the transportation company note the same on the freight bill. You should then file a claim against the carrier for such loss and/or damage.

You will find a packing list attached to one of the items in the shipment. Check each item against the list. Check by description, specification, quantity, count, etc. Should there be any discrepancies, notify us immediately. If an order or shipment includes more than one Low Profile Flite-Veyor®, the parts for each conveyor will be keyed or marked on the packing list for easy identification.

Small parts and items such as bolts, washers, bushings, and keys are just as important to an installation as the other components. Make sure these are located and checked before disposing of any containers or packing. We cannot be responsible for loss of items that are listed and included on our packing list.

Should there be some delay between the time an order is received and the ensuing installation, store parts in a protected area so they may be easily located and identified. **RETAIN PACKING LISTS FOR THIS REASON, AS WELL AS FOR FUTURE PARTS REFERENCE.**

## TYPICAL INSTALLATIONS

The typical uses are shown in Figure A.

### Unloading of bins.

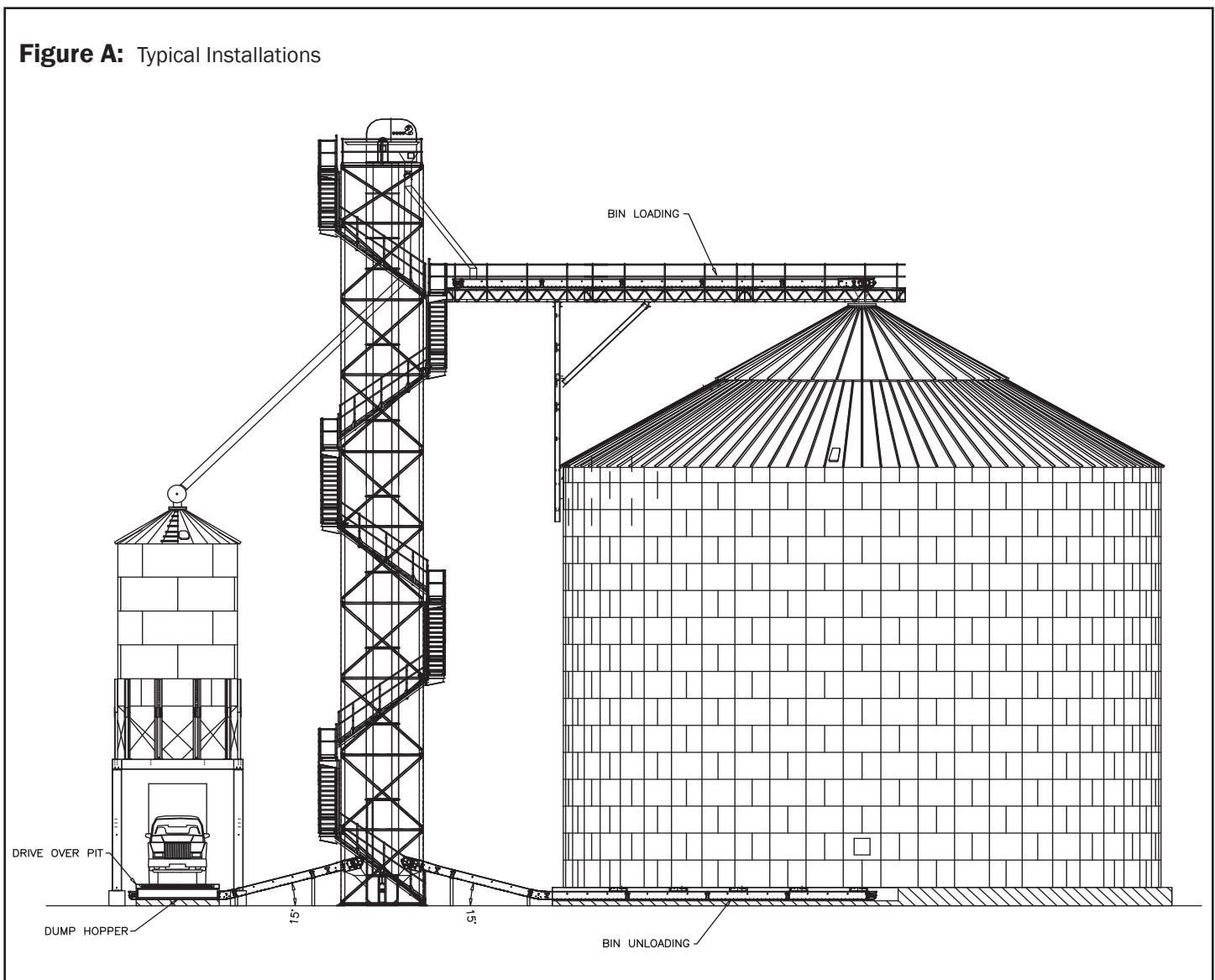
Use of multiple openings in the bin floor rather than a single center dropout will reduce the amount of material left in the bin as it is emptied. **CAUTION!** Always unload bin from the center dropout first to prevent structural failure of the bin.

### Conveying materials across the top of bins from a bucket elevator.

By using this method, the overall height requirement for the bucket elevator may be reduced. Separate dropouts can be used for each of the bins. Material should be allowed to drop out at the end to avoid accumulation causing the conveyor to plug when using intermediate dropouts (discharges).

### With drive-over pit.

Material is unloaded into the hopper mounted directly on the Low Profile Flite-Veyor®. Sweet manufactures dump hoppers for use in these applications.

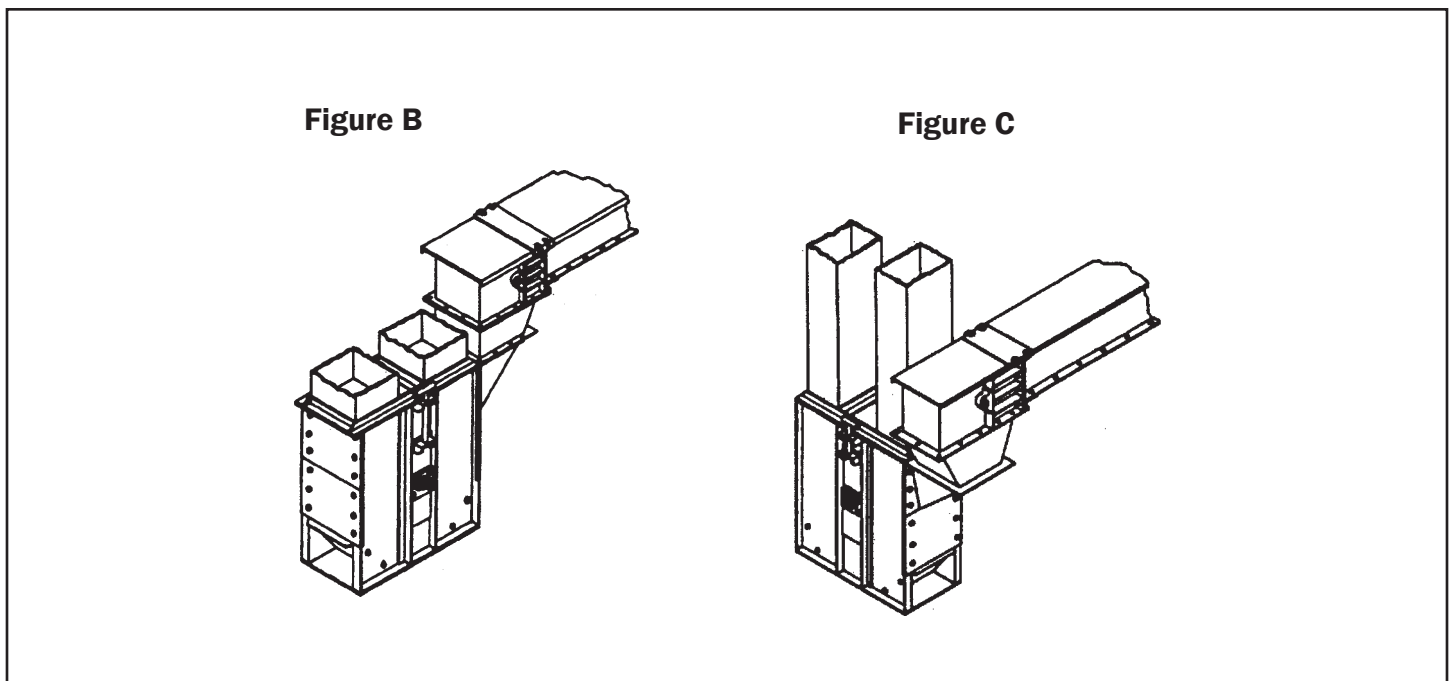


## SELECTING THE PROPER CONVEYOR

The following items should be noted to properly select the conveyor: 1) type and volume of material to be conveyed, usually in bushels per hour; 2) the slope of the conveyor (horizontal to 7-8 degrees standard or up to 15 degrees using a curve section); and 3) the number and location of dropouts and type of inlets.

The Low Profile Flite-Veyor® may feed the boot of a bucket elevator by any of three different configurations:

- Figure B The head drive of the Low Profile Flite-Veyor® is butted up against either the up or down trunking of the elevator. In this case, a discharge transition may be used to match the boot inlet hopper.
- Figure C The boot is placed perpendicular to the Low Profile Flite-Veyor®. The hopper height required will depend upon the model of the elevator and whether the boot is being fed on the downside or the upside.

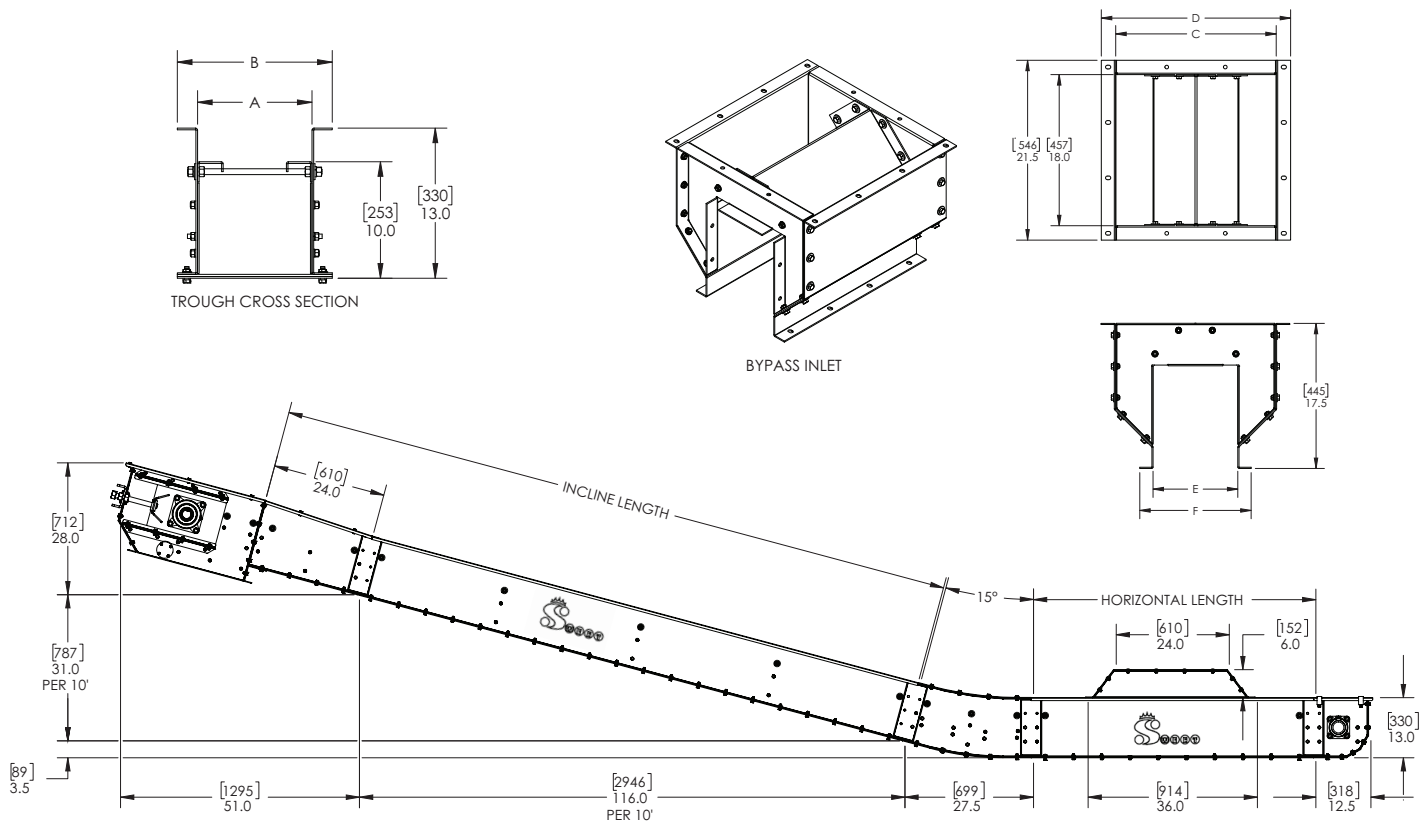


**\*TYPICAL CONVEYOR HEAD AND ELEVATOR BOOT SHOWN FOR DRAWINGS PURPOSES\***

## MODEL DIMENSIONS & CAPACITY

Use Figure D for capacities and dimensions.

**Figure D**



### DIMENSIONS

| Model | A           | B           | C           | D           | E           | F           |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1012  | 10.0" [254] | 13.5" [343] | 19.0" [483] | 22.5" [572] | 10.0" [254] | 13.0" [330] |
| 1812  | 18.0" [457] | 21.5" [546] | 27.0" [686] | 30.5" [775] | 18.0" [457] | 21.0" [533] |

Dimensions to the nearest 1/2". [ ] denotes dimensions in millimeters.

### CAPACITIES

| Model | Capacity       | BPH<br>TPH<br>MTPH | 1000 | 1500 | 2000 | 2500 | 3000 | 3500 | 4000 |
|-------|----------------|--------------------|------|------|------|------|------|------|------|
|       |                |                    | 48   | 72   | 95   | 119  | 142  | 166  | 189  |
| 1012  | Chain<br>Speed | FPM                | -    | -    | -    | -    | -    | 87   | 99   |
|       |                |                    | -    | -    | -    | -    | -    | -    | -    |

### CAPACITIES

| Model | Capacity       | BPH<br>TPH<br>MTPH | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 7750 |
|-------|----------------|--------------------|------|------|------|------|------|------|------|------|
|       |                |                    | 111  | 123  | 136  | 148  | 160  | 172  | 184  | 191  |
| 1812  | Chain<br>Speed | FPM                | -    | -    | -    | -    | -    | -    | -    | -    |
|       |                |                    | -    | -    | -    | -    | -    | -    | -    | -    |

Based on 48 pcf material.

## GENERAL

Only proper installation can offer the performance intended by the manufacturer. Therefore, a good installation should be of prime concern to the customer and to the installer responsible for the same. **SWEET MANUFACTURING COMPANY CANNOT BE RESPONSIBLE FOR THE INSTALLATION OF A CONVEYOR.** The suggestions and information contained herein are offered solely as a convenience, for we assume no liability as to installation, either expressed or implied.

Unless the location of the equipment has been predetermined by a layout drawing, careful consideration should be given as to the depth of pits, location of inlets, possible obstructions, etc. Plan ahead for the location of supports and bracing.

When the Low Profile Flite-Veyor® is used to feed a bucket elevator or another conveyor, provision must be made for proper clearances to allow for drives, discharges, valves, etc. on all equipment. Also, enough clearance should be provided to allow proper maintenance of equipment after it has been installed. Proper planning prior to installation can eliminate flow plan problems.

Supporting the conveyor on the floor requires bolting the unit down every 10 feet. If necessary, the support feet are available from Sweet Manufacturing Company as an option.

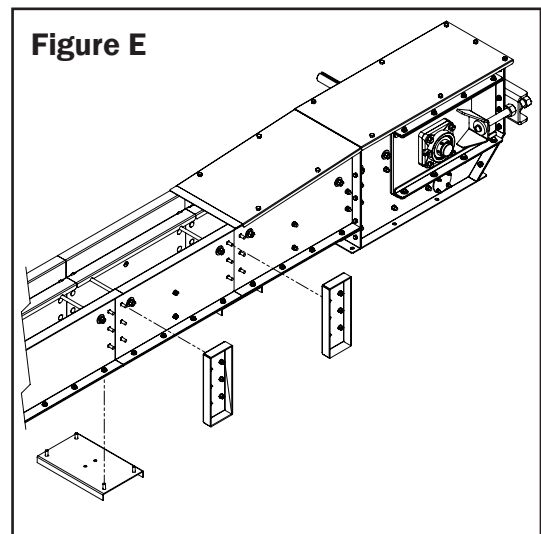
## INSTALLATION & ASSEMBLY OF STANDARD CONVEYORS

Lay out the unit as it is to be used, including the head and tail section. Do not lift trough lengths greater than 40' with a maximum of 20' between lift points. Support should be provided for at least every section, or at a maximum of every 10 feet when installed. (See Figure E for typical bottom splice connections.)

Apply silicone caulk to flanges prior to assembly of section. Loosely install the bolts and nuts. Use a taught line to make sure the conveyor is straight horizontally. Shim, as required, to get correct alignment. Tighten the connecting hardware, making sure that the bottom of each section is no higher than the previous section, so that it will not interfere with the chain flights as they move to convey the material. At the time, check the tightness of all the hardware in the conveyor to ensure that all are properly tightened (such as the set screws in the bearings and sprockets). Conveyor troughs are provided with angle type chain returns.

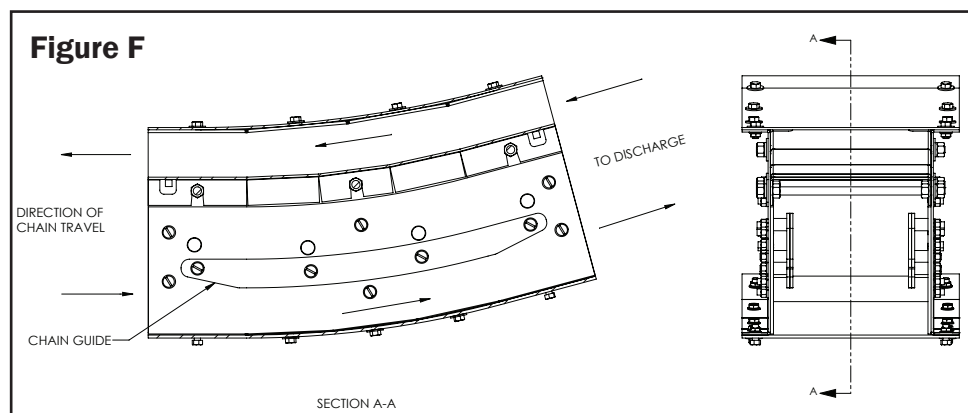
Care should be taken to align the heights of angle returns on adjacent sections to prevent the chain flights from catching.

Holes in the trough are oversized, so adjustment can be made by loosening the nuts on the threaded cross-rods that hold the angles in place. Be sure to tighten all hardware after alignment is achieved.



## INSTALLATION OF CURVED SECTION

Install curved section as shown in Figure F.

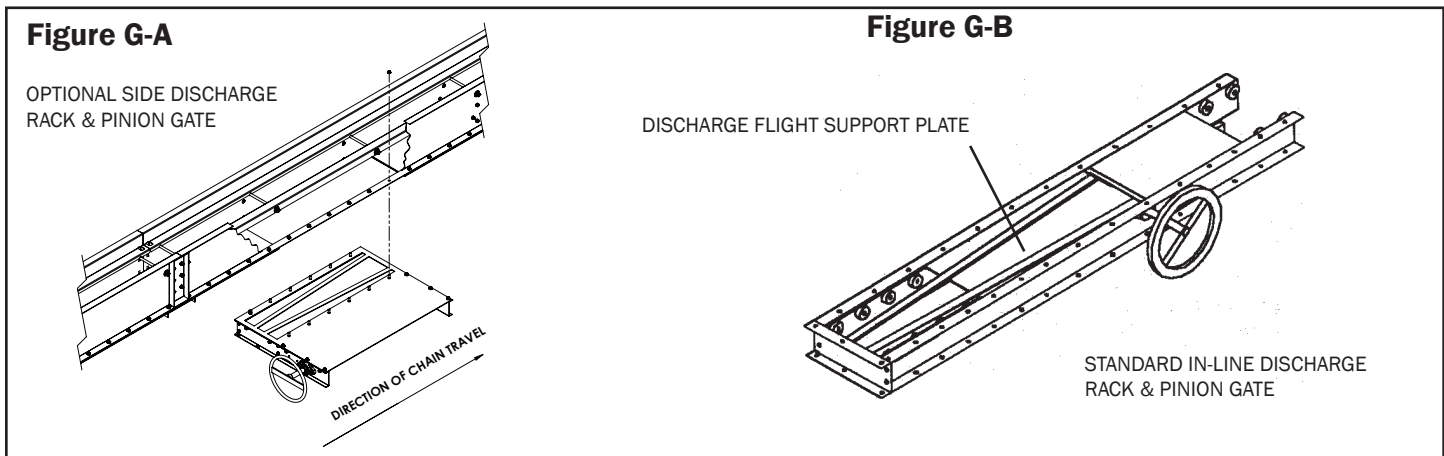




## OPTIONAL INTERMEDIATE DISCHARGE

If intermediate discharges are required, the following procedure should be used.

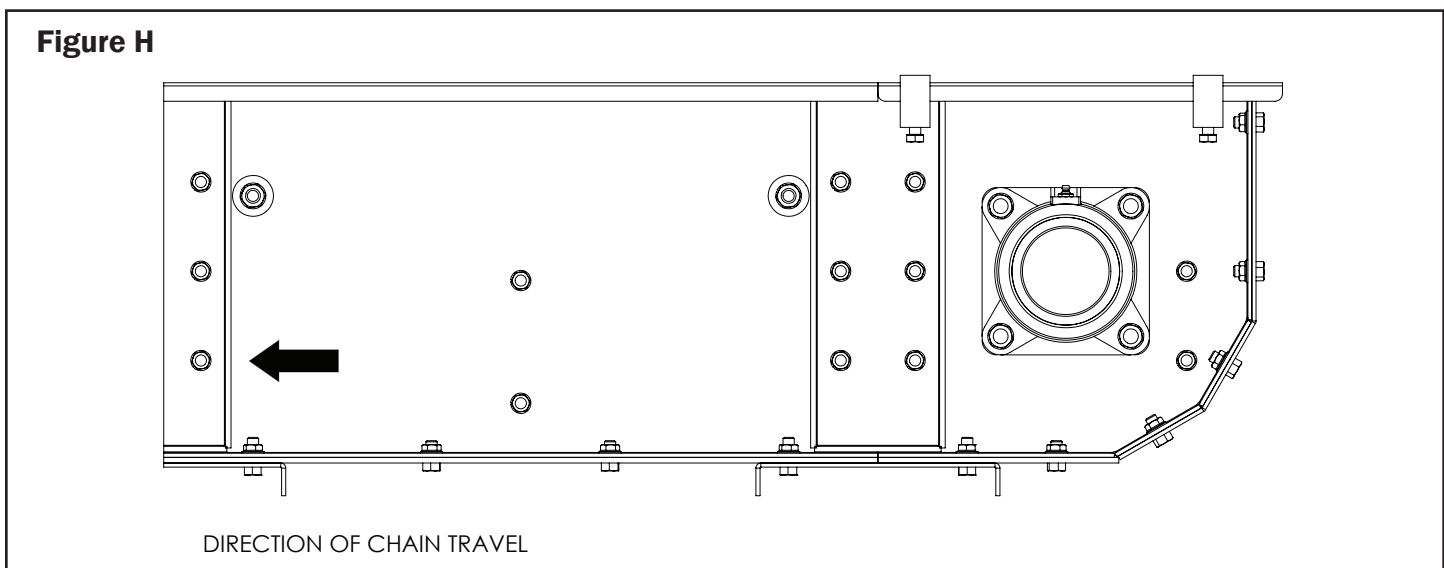
- 1) Determine the location of the center of the intermediate discharge from the tail or head section. Typical intermediate discharge gates are shown in Figures G-A and G-B.
- 2) Locate the discharge flight support plate in the center of the discharge and make a mark at each end of the support plate onto the trough bottom. The standard bottom can then be removed from the trough and cut so the discharge flight support can be installed where the piece was removed. If the existing holes in the trough sides cannot be used, new ones must be drilled to fit the discharge flight support plate and the top flange of the intermediate discharge. The internal cut edge of the trough bottom should be ground smooth to prevent interference with the chain flighting as it passes over the opening.
- 3) Bolt the intermediate discharge and the discharge flight support plate to the trough. The rack and pinion side may extend to either the left or the right side of the conveyor.



Optional brush system available for intermediate discharge. Refer to installation drawing provided when this option is purchased.

## INSTALLATION OF CHAIN

The chain is pre-assembled at the factory. When installing the chain, make sure the head shaft and sprocket are positioned approximately mid-position to allow for adjustment after the chain is installed. Be careful to install it with the direction of travel, as shown in Figure H.

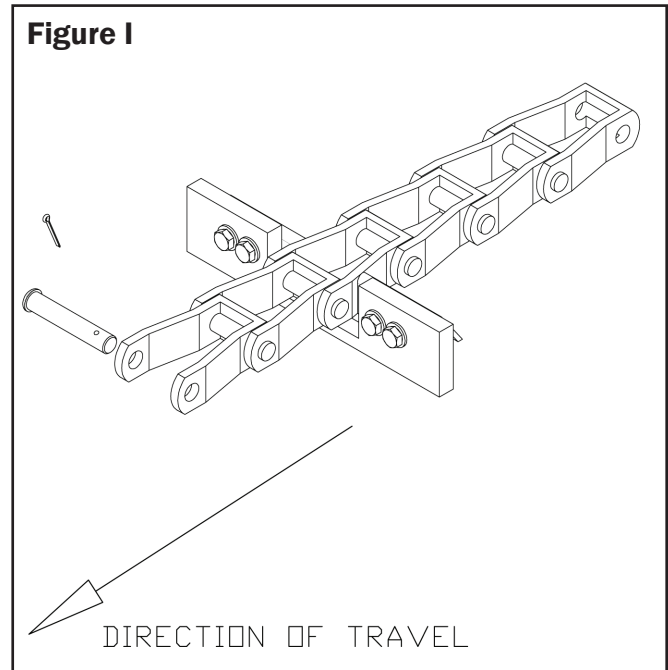


## INSTALLATION OF CHAIN (CONTINUED)

The chain should be placed in the bottom and top of the conveyor and then joined with the connecting pin, as shown in Figure I.

Depending on the chain and the application, the flights should be approximately 9" apart on the 667X chains and 10-1/2" apart on the D88K chain. There will be some chain and flighting left over, which should be saved for future use. Adjust shaft and sprocket to snug the chain on sprocket. Install the trough covers and splice plates before operating. Run for two hours without material. Resnug the chain.

Periodically, the chain will have to be retightened and some links removed. However, the chain should be run with some slack.

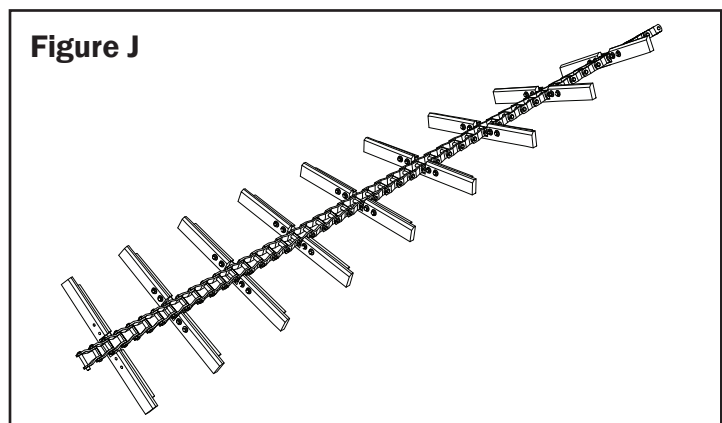


## DANGER

**Exposed conveyor and moving parts will cause severe injury or death. Lockout power before removing cover or inspection door. Make sure to add oil to gear reducer before operating, as it is shipped without oil. Follow the instructions with the reducer, making sure not to overfill.**

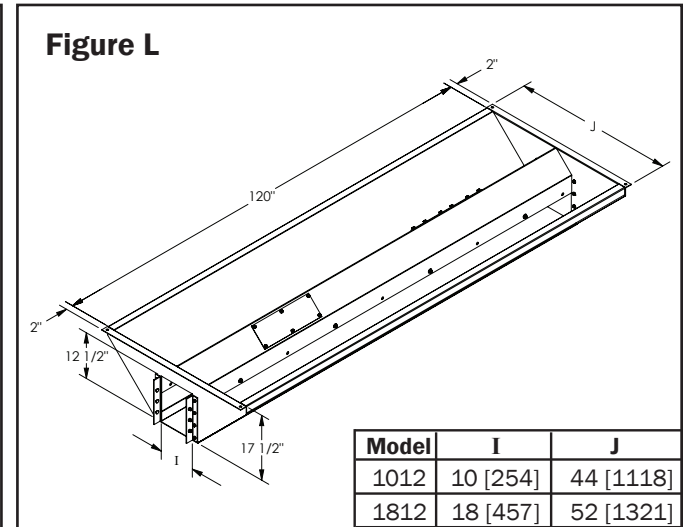
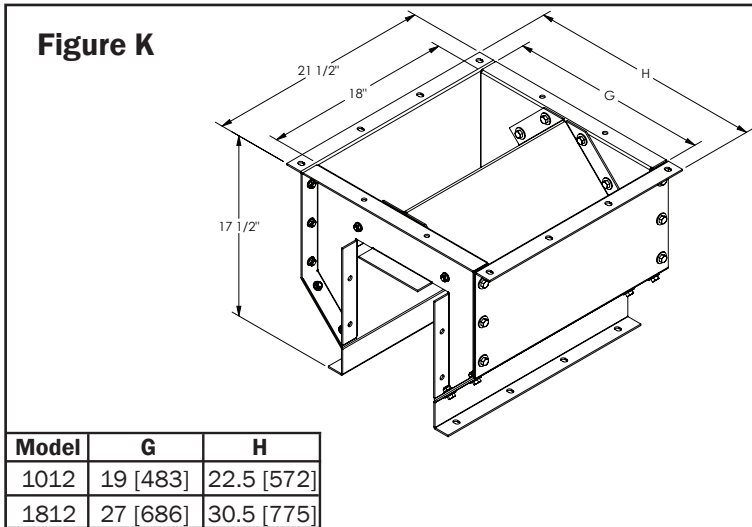
## CHAIN HANDLING

Chain can become twisted if improperly handled. DO NOT turn over a length of chain by twisting one end, as shown in Figure J. This may cause a permanent twist in the chain.



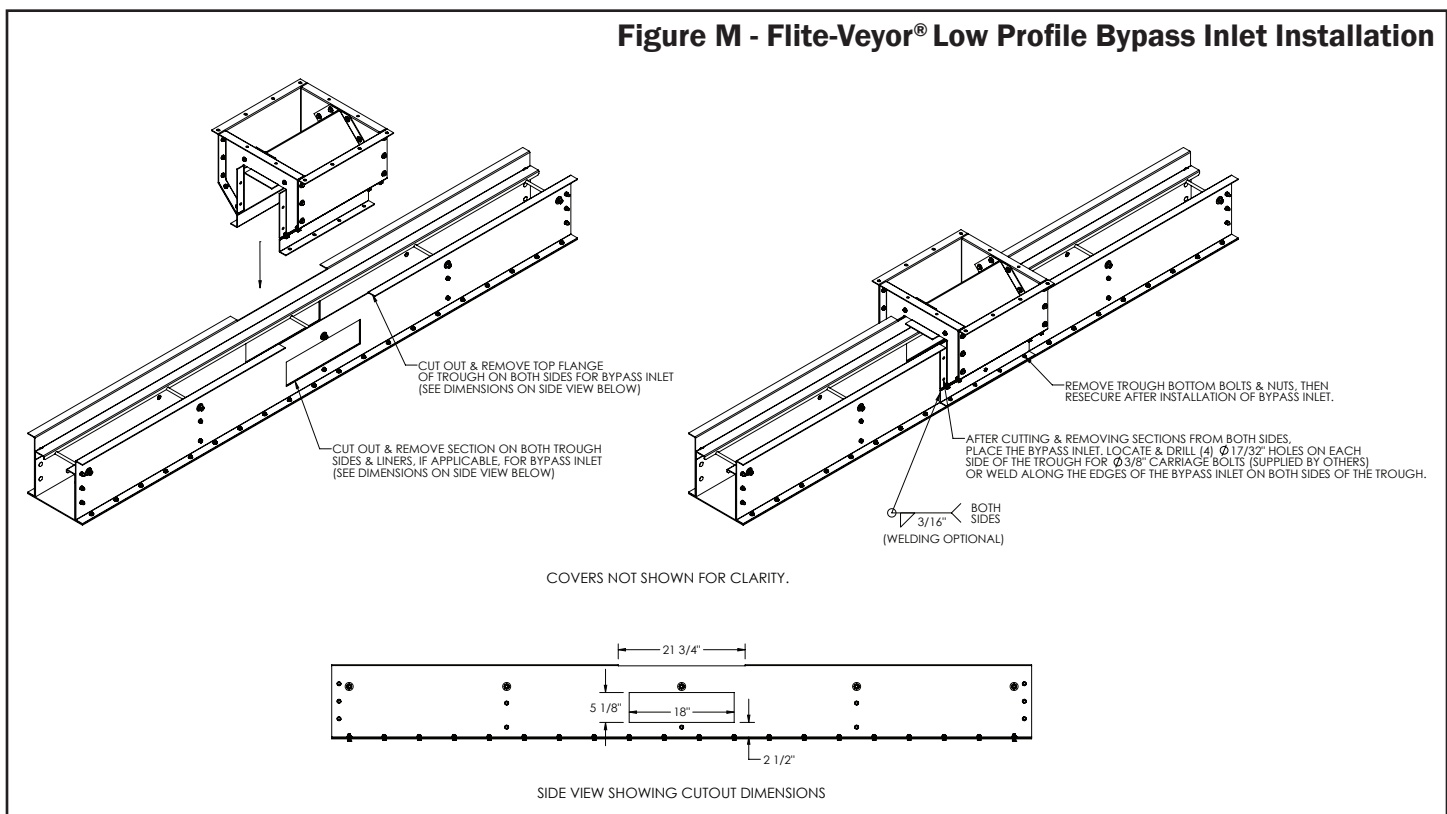
## INLET INSTALLATION

The preferred inlet for the Low Profile Flite-Veyor® is either a bypass inlet (See Figure K) or a dump hopper (See Figure L). Both are available from Sweet Manufacturing. The bypass inlet fits over the trough and requires cutting the trough in a few places to allow for the material to flow around the return side of the chain and feed in the carrying side of the chain. It may be best to install these before the chain is completely installed to prevent damaging the UHMW flights of the chain (See Figure M). The dump hopper, also known as a pit hopper, as shown in Figure L, actually replaces a piece of trough and no additional modifications to the conveyor are necessary.



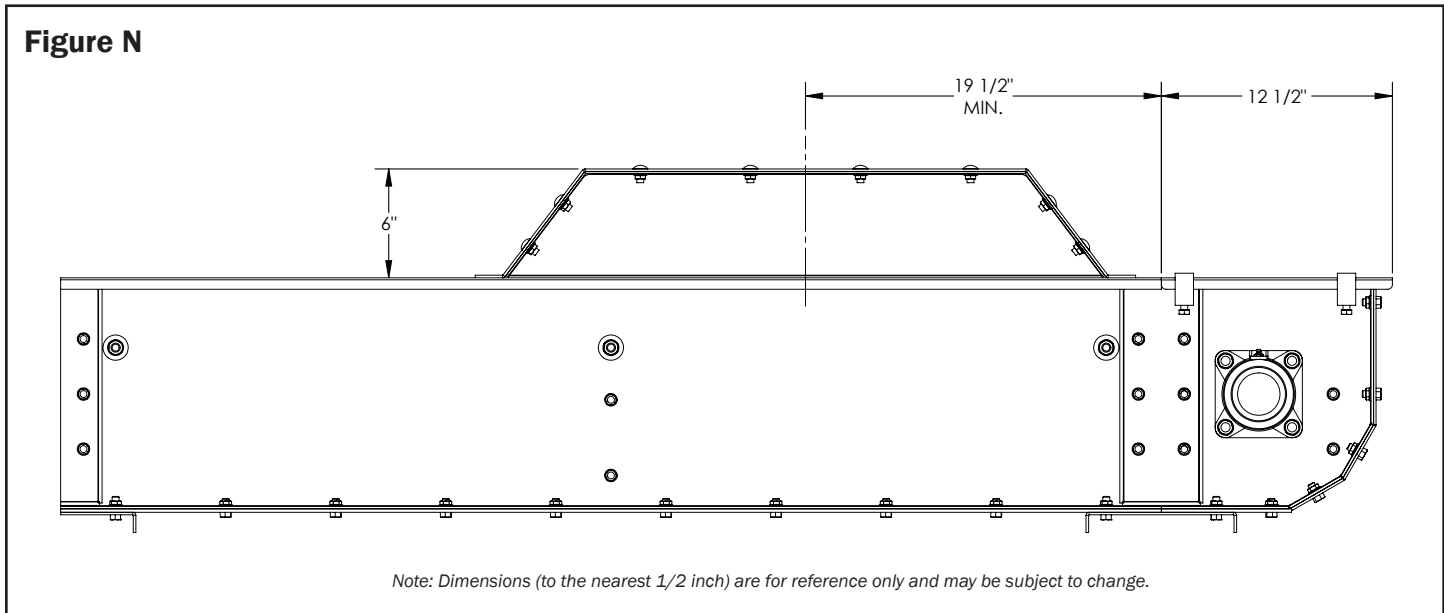
Other lengths available upon request. Contact Sales for price and availability.

Note: Dimensions (to the nearest 1/2 inch) are for reference only and may be subject to change.



## INLET INSTALLATION (CONTINUED)

Field installed inlets should be located at least 19 1/2" from the center of the inlet to the tail section, as shown in Figure N. However, they can be moved toward the head section as needed. Additional inlets may be added at any point in the conveyor trough. Also, see Bypass Inlet in the Options section.



## DRIVE ASSEMBLY - "V-BELT"

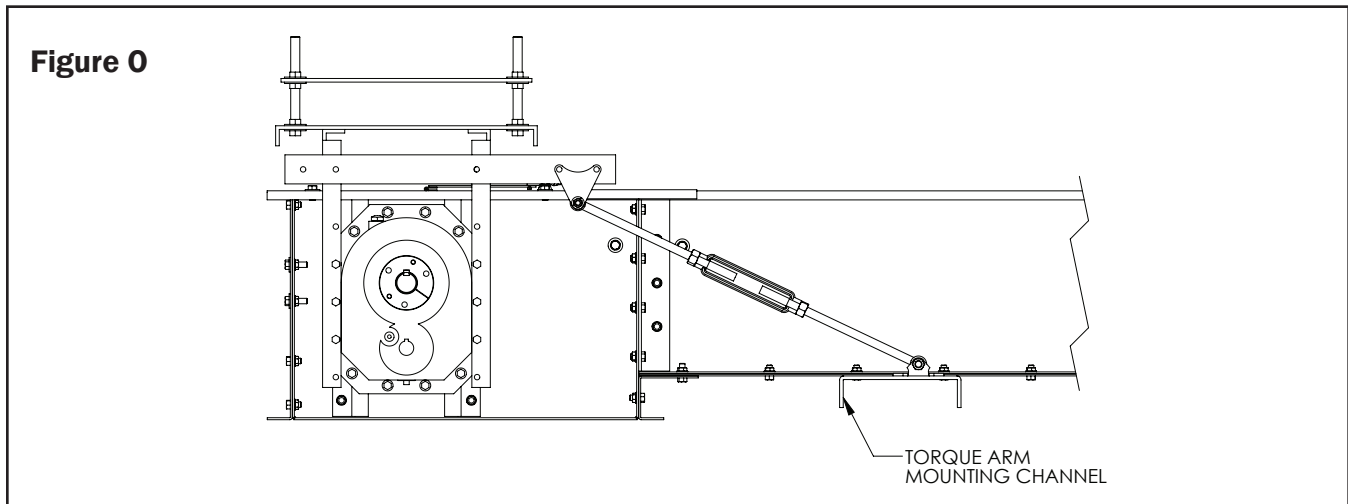
The V-belt drive assembly includes a shaft-mount reducer with torque-arm and reducer bushing, motor mount, sheaves with bushings, V-belts, and belt guard. Torque-arm mounting channel (see Figure O), which bolts to the trough just behind the head section, is supplied on shaft-mounted gear boxes. The standard drive is provided to mount on the lefthand side of the head section (when viewing from the tail section). Provisions for righthand drives can be made at the factory, if so ordered.

Proper installation of the speed reducer is essential to provide efficient, economical operation and a long life. Install the reducer as follows:

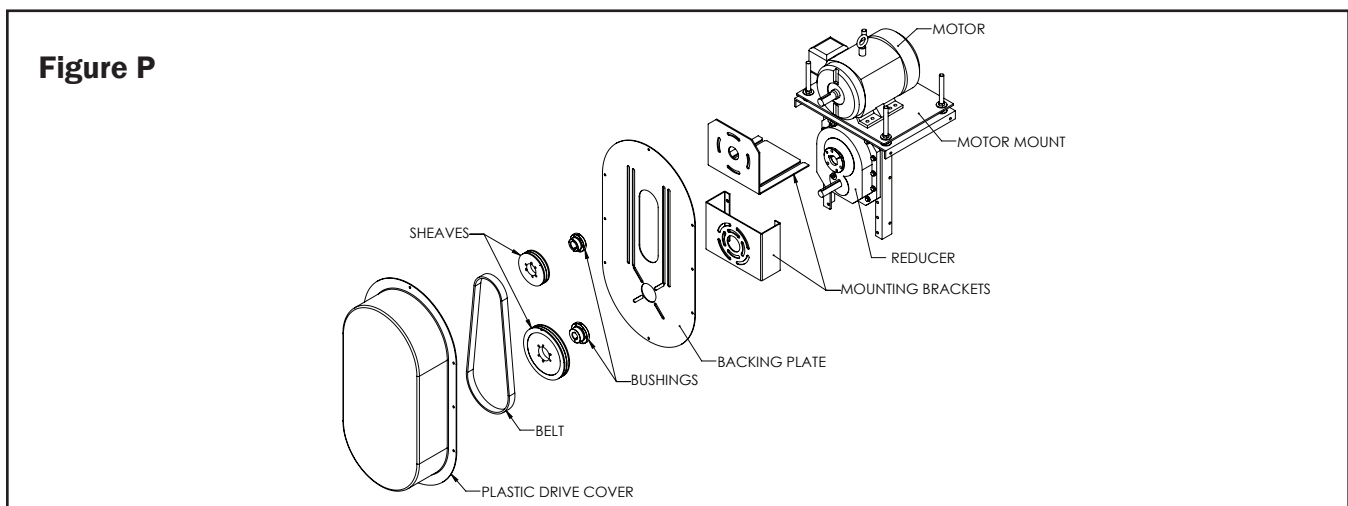
- 1) Make certain that the drive shaft, on which the reducer is to be mounted, is clean and free from burrs. Remove any protective coating on the drive shaft in the hollow speed reducer. Coatings may be removed by using a non-flammable solvent.
- 2) Inspect and locate machine key in drive shaft.  
**CAUTION:** For safe handling of the reducer, use only proper lifting equipment having ample load carrying capacity. Hand lifting is dangerous. It is good practice to avoid excessive overhang on both drive shaft and input shaft by mounting reducer as close as possible to bearing support and the V-belts as close as possible to the reducer. DO NOT force reducer when mounting on shaft, as you may damage the bearings.
- 3) Slide the drive assembly (reducer and motor mount) onto the head shaft.
- 4) When reducer has been properly positioned, secure bushings or set screws against drive shaft. Stake key-seat in drive shaft to prevent key from moving.

## DRIVE ASSEMBLY - "V-BELT" (CONTINUED)

- 5) Install the torque-arm on the torque-arm channel on the first trough section, as shown in Figure O.  
**CAUTION:** Speed reducers are shipped without oil. Be sure to lubricate properly before operation. Refer to the nameplate and service manual for lubrication instructions.
- 6) Torque-arm mounting channel must be welded to bottom of the trough. Paint or cover weld strip with galvanized paint.



- 7) **BEFORE INSTALLING THE V-BELTS AND SHEAVES**, install the rear or back side of drive cover and mounting bracket, following the instructions in Figure P. Install proper sheaves on motor and reducer. Check packing list and sheave carton for markings and identification. Interchanging sheaves will result in improper chain speed and unsatisfactory conveyor operation.



Mount sheaves as close to bearings as possible to minimize overhung loads. Align sheaves by using a straight edge placed across the outer faces of both sheaves. Be sure keys are properly installed and tighten set screw firmly.

**NOTE:** The head shaft speed may be improper due to installing the wrong sheaves on motor and reducer. Refer to packing list for proper placement of sheaves.

- 8) The torque arm may need adjusted after the take-up is calibrated.

## **ELECTRICAL EQUIPMENT**

Emergency stop switches, shut-off switches, dual set point motion detectors, overload devices, and other electrical controls are all necessary considerations for safe conveyor installation. (Controls and switches are usually furnished by conveyor user.)

## **TROUGH ASSEMBLY**

Low Profile Flite-Veyor® troughs are available in up to 10' sections. The desired length and height of conveyor is achieved through a combination of sections. The trough is assembled by bolting splices together using 3/8" bolts and nuts. The bottom is joined using a bottom splice channel. To attach the bottom splice channel, remove the end bolts in the bottom of two adjacent trough assemblies and match splice channel to holes in the two trough sections.

Care should be taken to align the heights of angle returns on adjacent sections to prevent the chain flights from catching. Holes in the trough are oversized, so adjustment can be made by loosening the nuts on the threaded cross-rods that hold the angles in place. Be sure to tighten all hardware after alignment is achieved.

The head and tail assemblies can be attached to the trough in a similar manner.

## **INLET ASSEMBLIES**

### **DUMP HOPPER**

The bypass dump hopper provides a regulated flow of material onto the chain paddles. This reduces material damage, chain shock, and horsepower requirements.

### **BYPASS INLET HOPPER**

The bypass inlet hopper is 18" long, 17-1/2" tall, and 12" wider than the basic conveyor trough. It provides a regular flow of material onto the chain and paddles. Bypass inlet hoppers are field installed, as shown in Figure M on page 11.

### **STANDARD INLET**

The standard inlet is mounted directly on top of the conveyor trough. This should only be used where some other means of controlling the flow is above the inlet (e.g., rack and pinion valve).

## MAINTENANCE

After approximately ten (10) hours of use, retighten all set screws on the bearings for the head and tail shafts, as well as the bushings on the sprockets and reducer. Check the chain slack in the conveyor and the V-belt tension in the drive. This should be repeated after every fifty (50) hours of operation.

### **CAUTION: CORRECT LUBRICATION**

**DO NOT START UNIT WITHOUT FIRST FILLING REDUCER WITH OIL!**

### **SPEED REDUCER**

The shaft-mounted speed reducer is lubricated by an oil reservoir in the housing. The correct amount of oil is important to the proper operation of the reducer. Too much oil may cause leakage or overheating. Too little oil may cause overheating or damage to internal parts. Refer to reducer manufacturer's specific guidelines for a list of recommended lubricants, capacities, and oil change periods.

### **WARNING!!**

**DO NOT USE** lubricants of the EP (extreme pressure) type, those containing slippery additives, or heavy weight (90-140 wt.) gear lube. It is recommended that oil be drained and housing flushed after the first 150 hours of operation and that the oil be changed every 2,500 hours thereafter. Check the oil level occasionally when the unit is not operating and add as required.

### **CAUTION!!**

Keep breather holes clear at all times to prevent pressure buildup in reducer. For dusty, corrosive environments, reducer manufacturer offers different breathers for more protection. If different breathers are needed, contact Sweet Manufacturing Company's Sales Department at +1 937 325-1511 or [sales@sweetmfg.com](mailto:sales@sweetmfg.com) to reorder.

### **WARNING!!**

**NEVER** remove breather plug or oil level plug while the drive is in operation, or personal injury may result! Check these only when drive is not operating.

### **INSPECTION**

An inspection schedule should be established in order to ensure that the equipment is in good operating condition at all times. Regular inspections will help to reveal little things such as loose bolts, damaged paddles, etc. before they become serious and damaging problems. Here are some of the things that should be inspected and maintained regularly:

- 1) Inspect chain and paddles for loose bolts, damaged flights, and chain condition.
- 2) Check chain tension. Remove necessary links if it cannot be adjusted further.
- 3) Inspect V-belts for tension and condition. V-belts should be replaced with a **MATCHED SET OR A BANDED BELT**.
- 4) Check speed reducers regularly for sufficient oil and signs of leakage. **KEEP BREATHERS CLEAN.**
- 5) Check bearings for sufficient lubrication and evidence of overheating.
- 6) Check all sheave and drive attaching parts for sufficient tightness.
- 7) Check all hardware and tighten as required.
- 8) Check all safety labels regularly. When they become illegible, contact Sweet Manufacturing Company's Sales Department at +1 937 325-1511 or [sales@sweetmfg.com](mailto:sales@sweetmfg.com) to reorder.

## SAFETY

### WARNING!

Make inspections when all operations are stopped and lockout and tagout procedures are completed. The importance of exercising **EXTREME CARE** when erecting and maintaining a Low Profile Flite-Veyor® cannot be overemphasized. Working at heights reached by even the smallest installations can be hazardous, unless safety precautions are taken. In any case, **BE CAREFUL - DO NOT HURRY - AND REMEMBER WHERE YOU ARE AT ALL TIMES.**

Your conveyor has been designed to comply with CEMA safety standards. These safety standards can be obtained through the American Society of Mechanical Engineers as ASME B20 (1993).

Operating and maintenance personnel should be thoroughly trained in safe operating procedures, recognition of possible hazards and maintenance of a safe area around the conveyor.

Shown at right is an example of the warning sign attached to conveyor covers. (Refer to #8 under Inspection on Page 15 for instructions to reorder safety labels.)



The following safety guidelines should be followed:

### THESE ARE GUIDELINES ONLY, AND COMPLIANCE WITH SAFETY STANDARDS - FEDERAL, STATE, AND LOCAL, INCLUDING OSHA - IS THE RESPONSIBILITY OF THE USER.

- 1) Maintain a safety program for all operating personnel.
- 2) All operating personnel should be advised of the location of all emergency controls and devices.
- 3) Good lighting, housekeeping, and maintenance contribute to a safe work area.
- 4) Frequent inspections should be made of all conveyor equipment, and all safety devices should be in position and in proper working order.
- 5) Conduct a pre-startup safety check of all conveyor equipment to determine that the machinery and area are safe for operation and that guards and warning devices are in place.
- 6) There should be absolutely **NO** reckless actions or horseplay in the vicinity of conveyors. Most accidents are caused by lack of proper safety training, carelessness, horseplay, or lack of awareness of possible hazards.
- 7) Conveyors should not be operated unless the conveyor housing completely encloses the moving elements and power transmission guards are in place. If the conveyor cover or housing is to be opened, the motor must be locked out/tagged out electrically in such a way that it cannot be restarted by anyone in the vicinity or remotely from the conveyor. Overflow cover sections or doors should not be opened while the conveyor is operating.
- 8) If, because of its application, the conveyor must have open housing, then the entire conveyor must be separated from personnel areas by a fence, and warning signs must be posted.
- 9) Open feed hoppers or spouts for shovel, front-end loaders, or their manual or mechanical loading must incorporate a grating. If the characteristics of the material being handled are such that a grating cannot be used, then the exposed portion of the conveyor must be guarded by a fence and warning signs must be posted.
- 10) **DO NOT** walk or stand on the conveyor cover, grating, or power transmission guards.



## TROUBLESHOOTING

| Problem                   | Cause                                 | Remedy                                                                                                                                                                                                                                                                                                                          |
|---------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Incorrect capacity</b> | Conveyor not running at full capacity | Verify that inlet is not backed up and that the equipment feeding conveyor is not plugged.                                                                                                                                                                                                                                      |
|                           | Incorrect chain speed                 | Verify that the head shaft speed is what was ordered. If within one to two RPM of what was sold, this is not the problem. If the head shaft RPM is drastically different, the causes could be improper sheaves, V-belts slipping, improper gear reduction on reducer, or an electrical problem. Correct situations as required. |
|                           | Improper inlet installation           | Verify that the standard inlet is installed as shown in this manual. Too much material being carried to the tail affects the overall HP requirements and efficiency of the conveyor. If using a standard bypass or dump hopper, verify that the material is feeding into the conveyor areas.                                    |
|                           | Bent or missing flights               | Replace and/or straighten as needed.                                                                                                                                                                                                                                                                                            |
|                           | Conveyor plugged with product         | Verify that the discharge is not clogged or backing up. Conveyor may be running too fast to discharge, allowing material to return on the return side. Slow conveyor down as required to prevent plugging. Also, you may need to regulate feed into conveyor.                                                                   |
| <b>Noisy conveyor</b>     | Flights banging on bottoms            | Improper alignment of conveyor sections.                                                                                                                                                                                                                                                                                        |
|                           | Flights hitting trough covers         | Chain too tight. Chain should not be rubbing covers over entire length of conveyor. Ideally, the chain should ride just below the covers on the trough.                                                                                                                                                                         |
|                           | Conveyor making squealing noise       | Some noise is acceptable. The sound of the flights and bottoms makes this type of noise. However, if the noise doesn't quiet down when running the conveyor with product, there may be other issues. Readjust tension on chain and run again.                                                                                   |
|                           | Damaged flights                       | Replace damaged flights as required.                                                                                                                                                                                                                                                                                            |
|                           | Loose flights                         | Tighten as required.                                                                                                                                                                                                                                                                                                            |
|                           | Chain and/or sprockets worn           | Replace as required.                                                                                                                                                                                                                                                                                                            |

## TROUBLESHOOTING (CONTINUED)

| Problem                              | Cause                                 | Remedy                                                                                                                         |
|--------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Excessive UHMW flight wear</b>    | Conveyor sections misaligned          | Align conveyor sections as required to realign sections.                                                                       |
|                                      | Sprockets not aligned and/or centered | Center sprockets and realign as necessary. Check set screws on bushings to make sure the sprockets do not move from alignment. |
| <b>Sprockets showing uneven wear</b> | Worn chain                            | Replace chain as required.                                                                                                     |
|                                      | Improper sprocket alignment           | Center sprockets and realign as necessary. Check set screws on bushings to make sure the sprockets do not move from alignment. |

**CAUTION: As chain and/or sprockets wear and need replacement, the chain manufacturer recommends replacing both for longer life of the replacement parts.**





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