



METALFAB, INC.

P.O. BOX 9 © PRICES SWITCH ROAD
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METALFAB INC.

FLEXIBLE SCREW CONVEYOR

INSTALLATION AND OPERATING MANUAL

THIS MANUAL PROVIDES INSTRUCTION ON HOW TO INSTALL, OPERATE AND MAINTAIN THE EQUIPMENT SUPPLIED BY METALFAB INC. NORMALLY, A RECOMMENDED SPARE PARTS LIST IS PROVIDED TO HELP YOU DETERMINE WHICH PARTS SHOULD BE KEPT ON HAND. THE FSC HAS ONLY 2 WEAR PARTS, THE HELIX AND THE TUBE, WHICH ARE NOT EASILY SHIPPED OR STORED THEREFORE, NO SPARE PARTS ARE LISTED.

WHEN CONTACTING METALFAB INC. FOR PARTS OR SERVICE, PLEASE REFERENCE THE EQUIPMENT SERIAL NUMBER. THE SERIAL NUMBER IS STAMPED ON THE METALFAB INC. NAMEPLATE AFFIXED TO THE EQUIPMENT.

FOR ASSISTANCE ON PARTS ORDERS OR SERVICE CONTACT METALFAB AT:

METALFAB INC.
P.O. BOX 9
VERNON NJ 07462

PHONE: (973) 764-2000
FAX: (973) 764-0272
sales@metalfabinc.com

RECEIVING YOUR EQUIPMENT

AS SOON AS THE EQUIPMENT IS RECEIVED IT SHOULD BE CAREFULLY INSPECTED TO MAKE CERTAIN THERE ARE NO VISIABLE DAMABE FROM SHIPPING, IT IS IN GOOD CONDITION AND ALL ITEMS LISTED ON THE PACKING LIST ARE RECEIVED. ALL DAMAGES OR SHORTAGES SHOULD BE NOTED ON THE BILL OF LADING. PURCHASER SHOULD TAKE IMMEDIATE STEPS TO FILE REPORTS AND CLAIMS WITH THE CARRIER. ANY DAMAGE INCURRED TO A UNIT IN TRANSIT IS THE RESPONSIBILITY OF THE COMMON CARRIER SINCE IT IS METALFAB INC. POLICY TO MAKE SHIPMENTS F.O.B. OUR FACTORY VERNON NJ; I.E., OWNERSHIP PASSES TO THE PURCHASER WHEN THE UNIT IS LOADED AND ACCEPTED BY THE TRUCKER. ANY IN-TRANSIT DAMAGE OR SHORTAGE CLAIMS MUST BE BROUGHT TO THE ATTENTION OF THE CARRIER BY THE PURCHASER.

STORAGE

INSIDE STORAGE OF EQUIPMENT IS RECOMMENDED. IF OUTDOOR STORAGE IS REQUIRED, PRECAUTIONS SHOULD BE TAKEN TO PROTECT ALL EQUIPMENT FROM THE ELEMENTS.

ASSEMBLY AND INSTALLATION

1. IF NOT FULLY ASSEMBLED UPON DELIVERY MOUNT DRIVE ASSEMBLY WHERE REQUIRED, AIMING THE DISCHARGE TOWARDS THE RECEIVING VESSEL.
2. LOCATE AND SECURE THE HOPPER IN ITS LOCATION.
3. TIGHTEN ALL FASTENERS AT TUBE INLET AND DISCHARGE.
4. MAKE ANY NECESSARY CONNECTIONS TO THE INLET HOPPER COVER (IF SUPPLIED) AND DISCHARGE.
5. CONNECT ELECTRICAL WIRING AND CONTROLS (IF SUPPLIED, REFER TO CONTROL MANUAL FOR OPERATION).
6. CHECK MOTOR WIRING FOR PROPER VOLTAGE, MOST MOTORS ARE DUAL VOLTAGE AND SHOULD BE CHECKED. ALSO CHECK DIRECTION OF MOTOR ROTATION, AND REVERSE IF NECESSARY. **CAUTION—KEEP HANDS CLEAR OF AUGER WHILE IN OPERATION. NEVER ALLOW CONVEYER TO RUN EMPTY AS PREMATURE WEAR WILL RESULT.**
7. PLACE MATERIAL TO BE CONVEYED IN HOPPER.

Disassembly for Cleaning or Repair

1. Turn off power complying with all rules relative to “lockout / tagout.”
2. Disconnect the wire from the motor.
3. Disconnect screw discharge stub from downstream process
4. Loosen the three bolts from the hopper sleeve and pull out the entire motor, gearbox, flexible tube and screw assembly.
5. Drop the entire motor, gearbox, flexible tube and screw assembly to the floor or workbench.
6. Using a flathead screwdriver, pop off the shaft bolt access cover on the gearbox.
7. Using a 7/16” wrench or ratchet, unscrew the shaft bolt.
8. Move to the bottom of the sleeve / screw assembly and pull out the screw and shaft from the gearbox keyway and sleeve. (Be careful to look for the key as it may stay attached to the shaft, fall out into the tube or stay in the gearbox.)
9. Clean out the tube. (Note: The access port cover may be unbolted and taken off to aid in the cleaning process.)

Reassembly After Cleaning or Repair

1. Reverse the instructions above. (Note: be sure to clean the shaft, key and keyway slot areas and add anti-seize compound (aluminum oxide lubricant.))
2. It is advisable to unbolt the access port cover to aid in lining up the shaft and key into the keyway slot in the gearbox.