Cleveland Equipment

Inline Conveyor with Plastic Table Top Belt

Operation Manual

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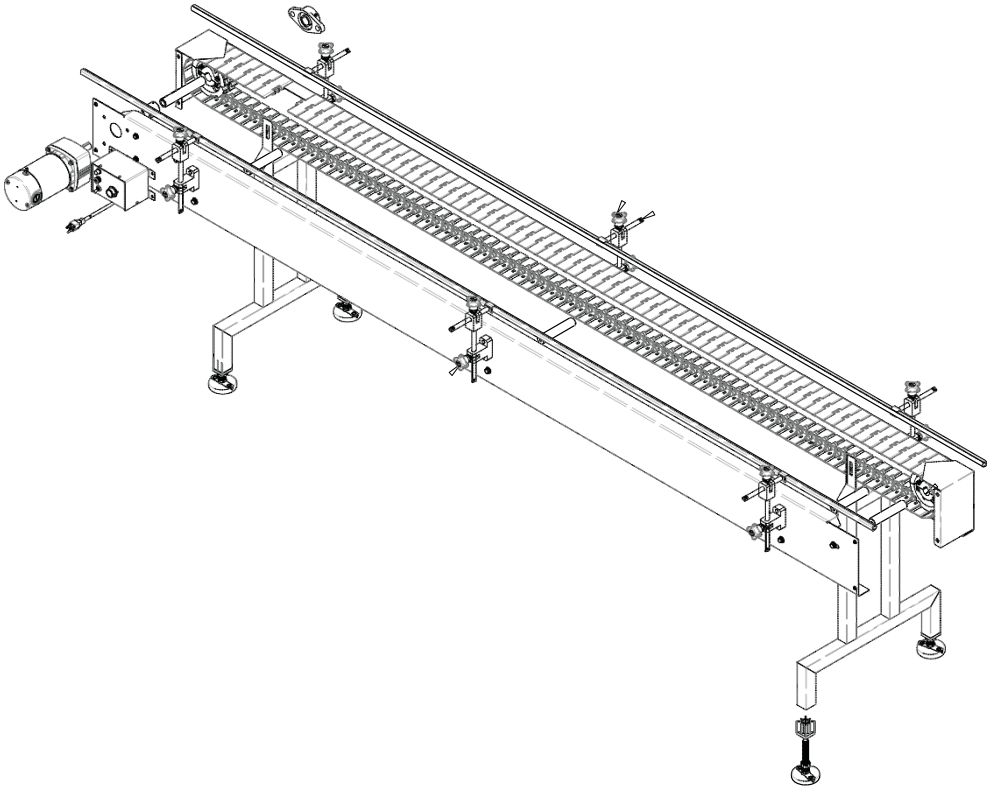


This manual is designed to assist in making the installation, setup, operation and troubleshooting of your equipment as easy and informative as possible.

Contents

SAFETY

To ensure the safety of qualified personnel it is imperative that they understand the dangers, warnings and caution notices. Therefore, it is important to understand the signal words, which will be seen through-out this manual. The safety of equipment and plant facilities should be considered during equipment operation, change of product, and any approved equipment modification.

Before attempting to perform any operation, maintenance, or inspection of this equipment, it is imperative that all safety precautions and warnings herein be adhered to. If you have any questions or concerns regarding the information in this manual, do not hesitate to contact us.

Signal words and symbols that you should become familiar with before continuing:

Lock Out – Tag Out Standard Procedures

It is standard procedure that any individual engaging in the maintenance, repair, cleaning, servicing, or adjusting of machinery or equipment, will follow the procedures outlined in this document. These procedures are designed to meet or exceed applicable OSHA standards and SORM guidelines for safe work practices. The primary purpose is to help ensure that all individuals within the facility are protected from injury or death resulting from the accidental or unexpected activation of equipment during maintenance, repairing, cleaning, servicing, or adjustments.

Definitions:

Lock out - The practice of using keyed or combination security devices (“locks”) to prevent the unwanted activation of mechanical or electrical equipment.

Tag out - The practice of using tags in conjunction with locks to increase the visibility and awareness that equipment is not to be energized or activated until such devices are removed. Tags will be non-reusable, attachable by hand, self locking, and not easily removed.

The Safety of personnel, equipment, and plant facilities should be considered with each change of product, and any approved machinery modifications.

Read and understand Operation and Safety Manual before operating this machine.

Do NOT move without additional personnel or mechanical assistance.

Never operate this machine without all safety guards and covers in their proper positions.

Refer servicing to qualified original manufacturer's service personnel.

Disconnect and lockout all power and air sources prior to any service or maintenance work.

Keep hands and foreign objects away from all moving parts and pinch points.

Always wear OSHA approved eye/ear protection when operating this machine.

Do not make any changes or modifications to this machine.

Never operate this machine with long hair, jewelry or loose clothing.

This machine may start automatically or remotely at any time.

Never stand or climb on machine or conveyor - use only an OSHA approved stepladder.

Machine design including controls and logic should not be changed or modified since it may result in machinery damage.

NOTE: All conveyors with slat belts are designed to allow complete belt lifting from sliders pan. When lifting belts be sure to:

1. Disconnect main power supply.
2. DO NOT disengage belt(s) from the head or tall sprockets.
3. DO NOT attempt to energize the conveyor with the belt lifted from the tracking slot.

SPECIFICATIONS

MAIN FEATURE

- MADE IN USA WITH 100% UL CERTIFIED COMPONENTS
- STAINLESS STEEL FRAME
- UP TO 200 FT/MIN
- DUAL POST STAINLESS STEEL WELDED BASE (IDEAL FOR LIGHTER AND HEAVIER LOADS)
- ADJUSTABLE LEVELING PADS
- TRANSFER END PLATES FOR CONTAINER TRANSITIONING
- TOOLLESS ADJUSTABLE RAIL BRACKETS
- CHAIN RETURN GUIDES
- LOW FRICTION ACETAL (DELRIN) TABLE TOP PLASTIC BELT
- BODINE DC DRIVE

TECHNICAL DATA

- BODINE DC MOTOR, 3/8 HP, 83 RPM, 248 LB/IN
- MACHINE ELECTRIAL REQUIREMENTS: 115 VOLTS / 1 PH / 60 HZ
- CONVEYOR STANDARD LENGTH: 4’, 6’, 8’, 10’, 12’, 20’ (OTHER SIZES UPON REQUEST)
- CONVEYOR STANDARD WIDTH: 4.5”, 7.5”, 12” (OTHER SIZES UPON REQUEST)
- CONVEYOR STANDARD BELT: LOW FRICTION ACETAL (DELRIN) TABLE TOP PLASTIC BELT (OTHER OPTIONS UPON REQUEST)
- FLOOR TO BELT HEIGHT 35”TO 40”
- ADJUSTABLE GUIDE RAIL OPENING: 0”TO 5/8” WIDER THAN BELT
- ADJUSTABLE GUIDE RAIL HEIGHT: 0”-5”
- MAX WEIGHT CAPACITY: 150LBS / LINEAR FEET

OPTIONAL FUTURE

- HAND PACK STATION
- DUAL GUIDE RAIL
- 4” STAINLESS STEEL GUIDE RAIL
- STAINLESS STEEL CHAIN, MATTOP BELT, FLEXIBLE BELT
- SIDE TRANSFER PLATE CONVEYOR TO CONVEYOR
- WASH DOWN MOTOR AND SPEED CONTROL
- X-PROOF MOTOR AND SPEED CONTROL
- LOCKING CASTERS

SETUP

READ THIS GUIDE BEFORE BEGINNING THE INSTALLATION!

It is the responsibility of the installer to follow the manufacturer's guidelines and requirements. Failure to observe these guidelines and requirements could compromise some or all warranty considerations. Refer to any special component installation instructions that may be included with job documents for more details regarding special issues.

1. After uncrating and unpacking, examine all components of the system
2. Use the ASSEMBLY drawings to identify and determine the location and orientation of the components. This is the time to determine how the components actually fit and to plan any modifications, alterations, or additions that may be required. Once unit has been assembled, place unit where is needed. 110 VAC electricity will be required near the electrical box.
3. Level the machine, making sure all bases are firmly on the floor and unit does not teeter or rock.
4. Height and level adjustments are made with the adjustable bases on the welded legs.
5. Now it is time to connect your unit, please make sure to check the voltage requirements and that this part of the set up is done by the appropriate personnel.
6. Now that the installation process has been completed you can now make adjustments to your guide rails as necessary, with our tool-less bracket design.
7. The unit is now ready to be put in service.
8. Turn the switch to the On position and adjust to desired speed with the knob on the variable speed control.

Speed adjustments are easily made during the course of a run, but production supervisors often keep a sheet of notes on machine settings to optimize production rates and reduce set-up times. It is recommended therefore that the machine that feeds this conveyor be turned on, set at its normal production speed, and then the belt speed of the Bottomless Conveyor be set just a little faster, and noted for future set-ups.

Troubleshooting

PROBLEM	POSSIBLE CAUSE	REMEDY
Motor won't run	1. Power off 2. Limit switch activated 3. Blown fuse	1. Restore power 2. Remove object & adjacent linkage 3. Replace fuse
Motor runs; Belt does not	1. Set screw on drive pulley loose 2. Gear box oil Set screws thru bearing to drive shaft loose	1. Tighten screw 2. Check oil & refill if required - Repair leak & inspect gears Tighten set screws
Motor runs intermittently	1. Loose wire connection	1. Check wires
Belts do not run smoothly	1. Excessive slack 2. Drive chain has excessive slack 3. Object under belt	1. Remove slack by adjusting 2. Remove slack 3. Remove object
Belt squeals while running	1. Slider pan surface dirty	1. Clean with shela shine polish
Belt does not move	1. Speed control knob loose	1. Tighten knob

MAINTENANCE

For general cleaning :

•Clean stainless steel surfaces with a soft cloth and a mild detergent intended for use with stainless steel.
•Flush with clean water or wipe down with a clean wet cloth, and then wipe dry to avoid streaking and spotting.
•Chlorinated detergents and sanitizing agents will damage stainless steel unless thoroughly flushed or wiped away.

Do not spray water onto the motor, speed control, flange bearing or electrical connections.

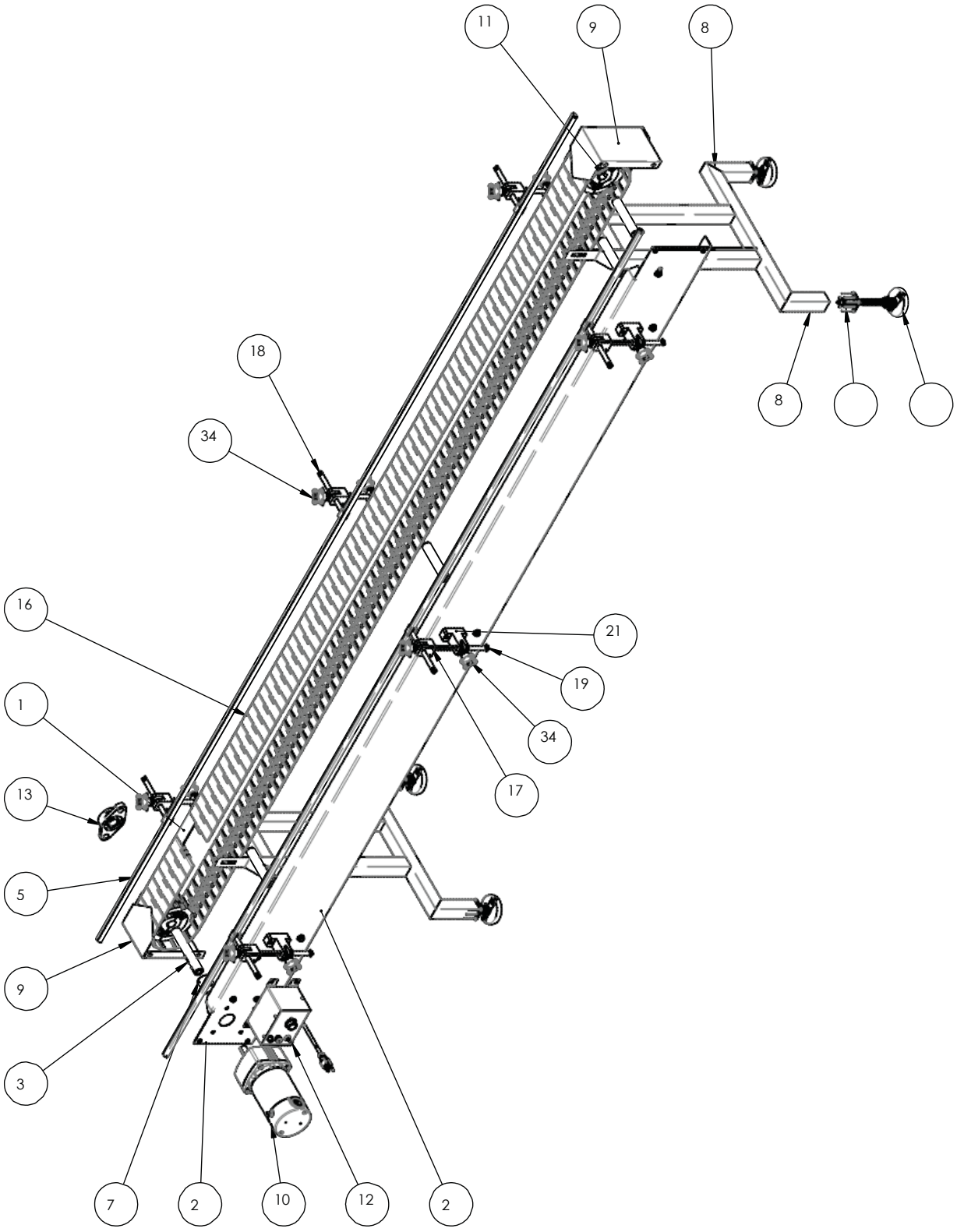
Strong solutions used during the warewashing or cleaning processes should be regularly checked for pH levels. Any pH value below 4.5 or above 9.0 will damage the stainless steel and plastic parts of the machines. If it is necessary to use a strong solution to clean the surfaces, all residue should be thoroughly flushed away from all surfaces and components immediately, and the table surfaces should be wiped down with a soft cloth to prevent corrosive damage to the components and to avoid water spotting.

Keeping the conveyor system clean is essential to proper operation and sanitation guidelines.

During the work periods:

Keep the conveyor relatively clean of accumulated debris.

PARTS



PARTS

ITEM	QTY.	PartNo	Description
1	1	68412-B	SIDE CHANNEL 4.50"X10FT
2	1	68413-B	MOTOR CHANNEL 4.50"X10FT
3	1	IC-001-01-450	DRIVE SHAFT ECONOMY 4.5"
4	4	IC-001-02-450	IDLE SHAFT
5	2	IC-002-05	SIDE GUIDE 10FT
6	1	SNC-001-28	TABLE SUPPORT
7	1	DLC-001-09	DRIVE SHAFT SLEEVE
8	2	IC-001-01-04	LEG 4.50" CHAIN
9	2	9632	END PLATE 450
10	1	5044	GEARMOTOR
11	2	820-21R1-DS	CHAIN SPROCKET
12	1	0791	MOTOR CONTROL
13	1	UCFL-205-16	TWO HOLES FLANGE BEARING DIA 1"
14	5	60945K230	THREADED TUBE INSERT 5/8-11
15	4	6992K19	SWIVEL LEVELING MOUNT M16X2.0
16	158	820 CHAIN	261" X 174 Single hinge Chains
17	6	856	CONNECTING JOINT
18	6	VG-12X150	SUPPORT ROD 12 X 150 mm
19	6	VG-12X200	SUPPORT ROD 12 X 200 mm
20	6	VG-018-02.750	CLIP, RAIL MOUNTING, 5/16 THREAD X 3/4" LG
21	6	857	ROD SUPPORT
22	8	5/16 WSR-SS	5/16 FLAT WASHER SS
23	8	5/16 LWSR-SS	5/16 LOCK WASHER SS
24	8	5/16-18 X 1" HHCS-SS	5/16-18 X 1" HEX HEAD SCREW SS
25	4	1/4 WSR-SS	1/4 FLAT WASHER SS
26	4	1/4 LWSR-SS	1/4 LOCK WASHER SS
27	4	1/4-20 X 1/2" HHCS-SS	1/4-20 X 1/2" HEX HEAD SCREW SS
28	2	3/8 WSR-SS	3/8 FLAT WASHER SS
29	2	3/8 LWSR-SS	3/8 LOCK WASHER SS
30	2	3/8-16 X 1" HHCS-SS	3/8-16 X 1" HEX HEAD SCREW SS
31	8	#10-32 X 3/8" BHCS-SS	#10-32 X 1/2" BUTTON HEAD CAP SCREW SS