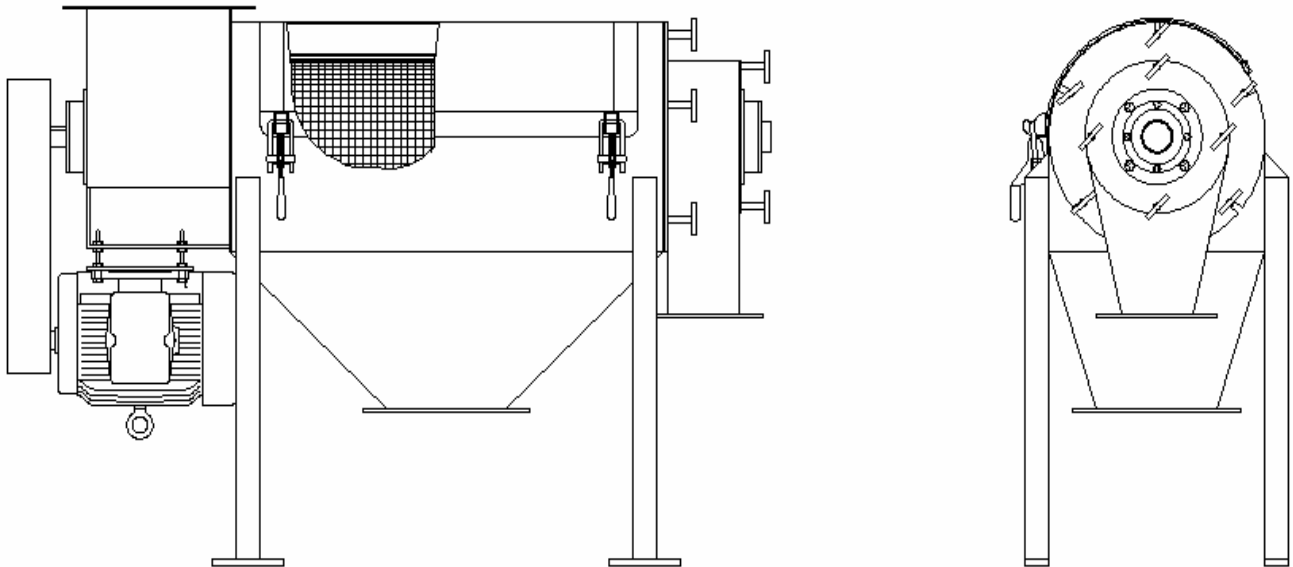




Centrifical/Rotary Screener Manual



BOLTS & T-HANDLES

All bolts on the screener are secured with lock washers or some other type of locking mechanism. After the machine has been in operation for two weeks it is wise to re-tighten all bolts and “T”-handles to assure they are tight. Loose bolts break.

BEARING REPLACEMENT

When purchasing a bearing please make sure the number of the bearing you are replacing matches the number of the bearing you purchased to replace it.

LUBRICATION

This type of drive uses a sealed for life bearing, and does not require any lubrication

DISASSEMBLY

1. Disconnect the power to the motor.
2. Tag out or lock out the motor while servicing.

BEARING REMOVAL

DRIVE END BEARING

1. Remove the Belt Guard (item 9) and Belt (item 16).
2. Remove the drive sheave and drive bushing (items 11 & 12) from the shaft (item 4). It may be useful to mark the location of the bushings on the shaft.
3. Loosen set screws securing bearing cartridge (item 7) to shaft (item 4).
4. Remove Belt Guard Backplate (item 24).
5. Remove Bearing from Body: Unbolt bearing studs from bearing. Remove bearing from main body (item 1), and slide bearing (item 7) off end of shaft (item 4). It may be useful to mark the location of the bearing on the shaft. Exercise care to protect bearing surface of shaft; do not allow shaft to drop, or bearing surface to become marred.

DISCHARGE END BEARING

1. Loosen set screws securing bearing cartridge (item 7) to shaft (item 4).
2. Remove Bearing from Discharge Housing: Unbolt bearing studs from bearing. Remove bearing from discharge end plate (item 8), and slide bearing (item 7) off end of shaft (item 4). It may be useful to mark the location of the bearing on the shaft. Exercise care to protect bearing surface of shaft; do not allow shaft to drop, or bearing surface to become marred.

REMOVAL OF OVERS HOLD-BACK ROTOR:

1. Remove Discharge End Plate: While supporting the shaft, unbolt “T” handles (item 5) and remove the end plate (item 8) from the discharge housing (item 22).
2. Remove Hold Back Rotor: The overs hold back rotor (item 10) is now accessible and can be adjusted or removed as needed by loosening the collar set screws.

SCREEN FRAME REMOVAL:

1. Remove Discharge Housing: Remove T-hand nuts (item 6) and remove the discharge housing (Item 22).
2. Remove Screen Frame: While supporting the shaft (item 4), slide screen frame (item 3) out of body (item 1) along its runners. Care should be used to not damage screen (item 21).
3. Shaft should be blocked securely in place until screen frame is replaced. Care should be taken to protect bearing surface of shaft; do not allow shaft to drop, or bearing surface to become marred.

SCREEN CLOTH REMOVAL

1. Carefully loosen the stainless steel screen band clamps (item 23) holding the the screen in place and remove the screen.

REASSEMBLY

SCREEN CLOTH INSTALLATION

1. Starting at the 2” screen stops along the top of the frame (item 3), wrap the screen cloth (item 21) around the screen frame. Center the screen from side to side, insuring at least 1” overlap with body to allow for the band clamps (item 23).
2. Snug up screen clamps and make any adjustments to insure that all openings are covered by screen.
3. Starting at center, pull the center of screen taut up to screen stop and tighten center band clamp. Doing one side at a time, repeat process of pulling screen tight and securing with band clamp.
4. Final screen should be tight, with no opening or gaps, and should not intrude into inner diameter of screen frame as this will interfere with rotation of shaft blades. After screen is properly installed, secure all screen clamps.

SCREEN FRAME INSTALLATION:

1. While supporting the rotor shaft (item 4), slide the screen frame (item 3) into the body (item 1) along its runners. Exercise care that the screen be allowed to pass freely into the body past the shaft blades. Mount frame onto bolt studs.

OVERS HOLD BACK ROTOR INSTALLATION:

1. Mount discharge housing (item 22) onto bolt studs on body. Secure with “T” handles (item 6).
2. Place hold back rotor (item 10) onto shaft and locate as desired. Tighten collar set screws.
3. Replace end plate (item 8) and secure with “T” handles (item 5).

BEARING INSTALLATION

1. Slide discharge bearing (item 7) onto shaft and bolt to end plate (item 8).
2. When both sides of the shaft have the bearings bolted in place, center the shaft in the body. Verify shaft rotates freely and does not bind or contact the screen frame. Tighten the set screws on the bearing cartridges.
3. Replace bushings, sheaves, drive belt, and belt guard as required.

SCREEN CLOTH SELECTION

Screen cloth selection is very important in order to obtain proper results, to eliminate screening problems, and to avoid costly maintenance and replacement. Screen cloth should be selected by considering three aspects.

FIRST:

The first aspect is maximum open area. When the open area is maximized, the capacity and efficiency of the screen are at their peak; however, the screen life is greatly reduced, and frequent replacement will be required. The open area of a screen cloth can be increased by decreasing the wire size used in making the screen cloth.

SECOND:

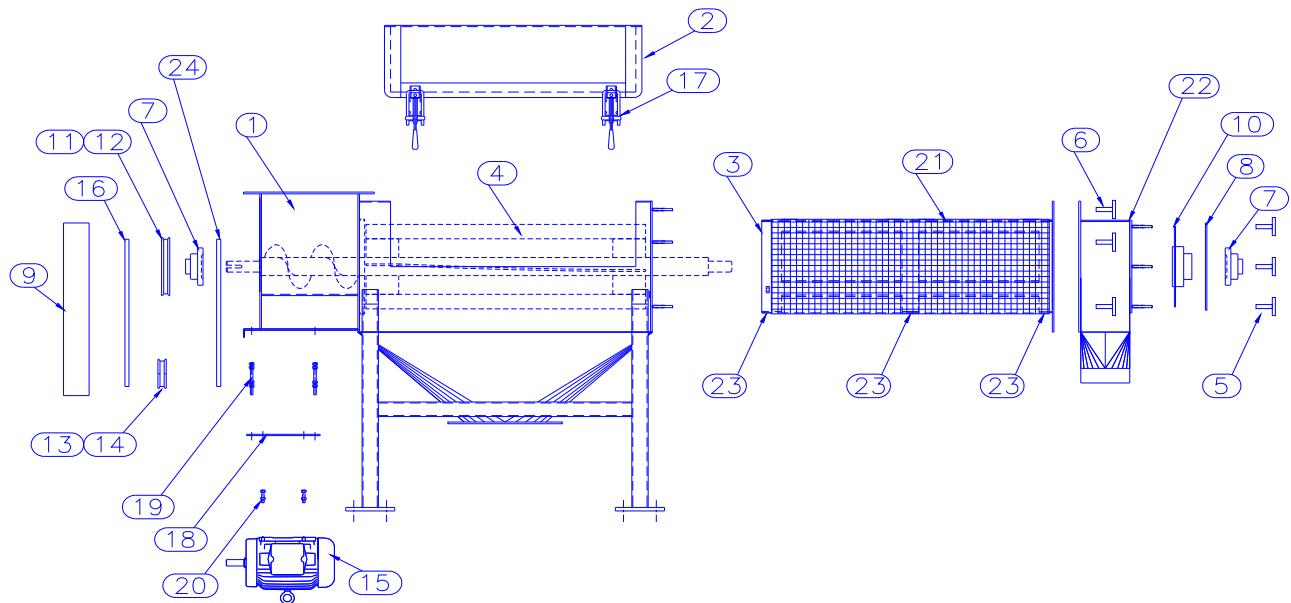
The second aspect is maximum screen life. When screen life is at its maximum, the life of the screen is increased causing less frequent screen replacement, and fewer down times. However, when screen life is high the capacity of the screen is low. Screen life in a screen cloth can be increased by increasing the wire size used in making the screen cloth.

THIRD:

The third aspect is corrosion resistance. With a high corrosion resistant screen the screen will hold up longer from chemical materials such as water or acid. Yet a screen with a high corrosion resistance is costly, and may be hard to locate, and have a long delivery schedules.

In addition to this, specialty screens can be furnished for your particular needs. Some of these types of screens are perforated plate, slotted screens, music wire screens, flat top screens, synthetic screens, and many others. If you need further information on screen cloth selection consult the factory.

Rotary Parts List



Item	Quantity	Description	Part Number
1	1	Main Body Assembly	24331
2	1	Main Door Assembly	24333
3	1	Screen Frame	24901
4	1	Main Shaft Assembly	24904
5 *	4	"T" Handle – 2" Tee	207-134-2"Handle
6 *	5	"T" Handle – 1 1/2" Tee	207-134-1 1/2"Handle
7 *	2	Bearing	C4F108ZM-1 1/2
8	1	Discharge Housing - End Plate	24902-ITEM2
9	1	Belt Guard	SUPP
10 *	1	Hold Back Rotor - Disc	24913 - P81695
11	1	Drive Sheave	360-094
12	1	Drive Bushing	341-150
13	1	Motor Sheave	360-034
14	1	Motor Busihing	343-088
15	1	Motor	730-180
16 *	1	Belt	370-047
17	2	Latch Clamp	255-170
18	1	Motor Mounting Plate	24912
19	4	Bolts	Bolt - 3/8-16 X 4 NC
20	4	Bolts	Bolt – 5/16-18 X 4 NC
21 *	1	Screen – 4 mesh	24901 / P81772
22	1	Discharge Housing	24902
23 *	3	SS Band Clamp – 12"diam.	710-150
24	1	Belt Guard Back Plate	SUPP

* Recommended Spare Parts List