

# CITY COUNCIL AGENDA ITEM REPORT

Council Meeting Date: 2-22-2022

Agenda Item Number: \_\_\_\_\_

Originator: Troy Cannon

Title: PW Director

Discussion  Action Required

Department: PW

Old Business  New Business  Resolution  Ordinance  Public Hearing

Subject: Rental Proposal \* BW22-004

Comments:  
Rental of One (1) 1.7 Meter Trailer Mounted  
Bell Filter Press Unit  
\* Separates water from solids from sewer  
lagoon.

Staff Recommendation:  
Council review and approval.



# RENTAL PROPOSAL

## 1.7 Meter Trailer Mounted Belt Filter Press

Date: February 01, 2022

Proposal #BW22-004

City of Tenino  
Old Highway 99 SE  
Tenino WA, 98589

Contact: Troy Cannon  
Phone: 360.561.1506  
Email: [Tcannon@cityoftenino.org](mailto:Tcannon@cityoftenino.org)

We hereby submit specifications and estimates for: Rental of One (1) 1.7 Meter Trailer Mounted Belt Filter Press unit. The sludge cake will be disposed of by the customer and the customer will supply all chemicals and sludge cake transportation.

### RENTAL SCOPE OF SUPPLY

#### -One (1) P50-6700-8D (1.7 Meter) Dual Belt Filter Press,

- ✓ Stainless Steel Frame & Roller Construction (Three Year Warranty)
- ✓ Patented 50% Open Area Drainage Roll,
- ✓ Patented High Efficiency Radius Wedge Zone
- ✓ Stainless Steel "Grip Strut" Walkways, Elevated for Viewing Gravity Deck
- ✓ 5 HP Direct Gear Drive System
- ✓ Pneumatic Belt Tension & Tracking
- ✓ Two Belt Wash Stations
- ✓ Eight (8) Pressure Rollers
- ✓ Dodge Bearings
- ✓ Four (4) Plow (Chicane) Assemblies
- ✓ E-Stop Safety Cable Switch & Cable

#### -One (1) Skid Platform

- ✓ Epoxy Coated Carbon Steel Construction
- ✓ Slip Resistant Tough Coated Operator Area
- ✓ Stainless Steel Effluent Sump
- ✓ Stainless Steel "Grip Strut", Cantilevered, Skid Walkways
- ✓ Stainless Steel Handrails with Toe Kick Plate
- ✓ Inclined Ladder Access to Upper Walkways on both sides of the Press
- ✓ Pre-Wired and Plumbed for Quick Setup

#### -One (1) 48 Foot Single Drop Deck Trailer

- ✓ 102" Total Width
- ✓ Air Ride Suspension
- ✓ Independent Rear Leveling Jacks

#### -One (1) Master Control Panel (MCP)

(Controls shall be included for all Equipment Purchased from this Proposal)

- ✓ Hoffman Stainless Steel NEMA 4X Enclosure
- ✓ Fused Disconnect
- ✓ Allen Bradley MicroLogix 1400 PLC
- ✓ 10 Inch Color Touch Screen
- ✓ PLC Modem for Customer Support
- ✓ Short Circuit Protection, VFD's, Motor Starters, Etc... for all equipment listed



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- One (1) **Press Mounted Multi-Function Operator Control Station (at the gravity deck)**  
Start and Stop the System, Adjust Belt, Sludge Pump & Polymer Speeds, Display Alarms and more
- One (1) **Polymer Feed & Blend System (Instant Mix Emulsion Type Polymers)**
  - ✓ Stainless Steel Cabinet
  - ✓ Electronic Pulse Metering Pump
  - ✓ Polymer Concentration Controlled at MCP & Belt Press Remote
- One (1) **3 KVA Transformer and 120 VAC Lighting Receptacle**
- One (1) **Wash Down Hose Reel, 25' Hose, Runs off from Booster Pump**
- One (1) **Inline Pneumatic Mixer with 4-Port Polymer Injection**
- One (1) **Boerger Rotary Lobe Sludge Feed Pump**
  - ✓ 7.5 HP, 200 GPM Sludge Pump
  - ✓ Maintain in Place Wear Liners, VFD Drive System
  - ✓ No Piping Removal for Servicing the Pump
  - ✓ VFD and Controls Included in MCP
- One (1) **Magnetic Sludge Flow Meter**  
Sludge GPM, Total Gallons Processed are Displayed on Touch Screen
- One (1) **Belt Wash Centrifugal Booster Pump**
  - ✓ 15HP, non-potable water capable
  - ✓ Tungsten Carbide Mechanical Seal for superior wear resistance
  - ✓ Single Stage Centrifugal Pump will pass up to 3/16" solids
- One (1) **Schedule 80 PVC Sludge Retention Manifold**
  - ✓ Aids in sludge mixing and allows proper polymer contact time
- One (1) **Jenny (Formerly Emglo) 1 ½ hp Air Compressor, 30 Gallon Receiver & Controls**
- One (1) **36 Inch, Stainless Steel Folding Rear Discharge Conveyor (20' length)**
  - ✓ Parallel to the skid mounting
  - ✓ 12 Foot discharge height
  - ✓ 7.5 Foot discharge distance beyond the rear of the trailer
- One (1) **Operational/Maintenance Manual**



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## 1.7 Meter Trailer Mounted Belt Filter Press

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1.7 Meter Trailer Mounted Belt Filter Press Skid Unit: **Rental \$4,200.00 Per Week  
(60 Hours of Operation per Week)**

-One (1) Boerger Twin Shaft Sludge Grinder/Heavy Trap: ..... Rental \$600.00 Per Week

- Mobilization of System to Tenino, WA.....\$ 10,500.00

- Demobilization & Inspection of System in Hopkins, MI.....\$ 10,500.00

-2 days onsite Customer Training (Required for first rental) \$ 5,000.00  
Additional Training will be billed on a per day basis at \$ 1,000.00 per day + Expenses

### Clarifications, Exceptions & Recommendations:

The customer is responsible for Insurance of the Equipment for \$350,000.00

This is a trailer mounted unit. Removal from the trailer as a rental unit is prohibited. Folding discharge conveyor is setup for rear discharge. Side discharge applications can be custom tailored for an additional charge based on site requirements.

The customer shall provide the following at the job site: All required utilities, hoses, polymer, miscellaneous labor, system operators (unless otherwise noted), site rigging, all solid waste disposal and transportation, local filtrate disposal or connection from our supplied system, level area to place equipment and any/all equipment and/or services not listed below. Cake solids shall be conveyed at a maximum of 15 feet (combined vertical & horizontal length) with system supplied conveyor.

Customer is liable for damage to equipment caused by foreign objects in the sludge such as tramp metal or rocks. If the sludge contains hard materials larger than 1/2 Inch diameter a sludge grinder is recommended.

The customer is responsible for Cleaning and Maintenance of the equipment, as specified in the operation manual supplied, while it is in their possession. Damage caused by loading, unloading, improper operation, abuse, lack of maintenance, neglect or excessive wear shall be repaired at the customer's expense. Upon examination after return if any damage of this sort is found the customer will be responsible and invoiced for parts and labor required to repair said damage and any additional hours of operation recorded.

UTILITIES REQUIRED:                   WATER 60 GPM for Belt Wash @ 5 – 40 PSI (non-potable but low TSS)  
  WATER 15 GPM Potable for Polymer System (5 GPM Typical)  
  ELECTRICAL 460 VOLT 3 PHASE AT 60 AMPS Min.  
  DISCHARGE 6" Gravity Drain from BFP Skid Sump

Operation is not recommended in below freezing temperatures. The customer is responsible for all damage caused by freezing. Operation in heated environments is strongly recommended when or if outdoor temperatures may go below freezing.



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## 1.7 Meter Trailer Mounted Belt Filter Press

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This unit is designed for the treatment of materials with a pH range of 5.0–10.0. Processing of material with pH outside of this range can cause accelerated wear of parts and potential damage. It shall be the responsibility of the customer to balance materials appropriately prior to processing. Any costs associated with accelerated wear and/or damage due to unbalanced materials being processed will be the responsibility of the customer.

Lines and Pumps must be completely drained and winterized before returning the equipment and when the equipment is not in operation.

All equipment installation, off-loading and interconnecting wiring and piping between all equipment listed and other ancillary equipment shall be by others.

Any required polymers, testing fees, etc. not listed as included in Bright Technologies Equipment Scope of Supplies shall be provided and paid for by others.

Customer is responsible for all maintenance and repairs while the equipment is in their possession and will be billed for any damage caused by abuse, neglect, freezing, improper operation or lack of maintenance.

Unless listed otherwise any and all equipment, installation, supplies and/or services shall be provided by others, and are not part of Bright Technologies scope of supply.

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**Rental Terms:** 4-week rental of the press and the sludge grinder, training, mobilization & demobilization charges to be paid prior to machine shipment plus a **\$10,000.00** security deposit is required, which will be refunded if the equipment is returned clean and in good working order and all rental payments and charges are paid in full. This is a total of \$37,800.00 or \$40,200.00 with grinder.

Rental period from then forward will be billed in two (2) week increments in advance. Hours of operation allowance is 60 hours per week rental. Additional hours shall be billed at \$55 per additional hour.

**A signed Proposal and Certificate of Insurance must be received along with the initial payment prior to shipment of the machine.**



# RENTAL PROPOSAL

## 1.7 Meter Trailer Mounted Belt Filter Press

Date: February 01, 2022

Proposal #BW22-004

**Delivery:** Several units are available at the time of this proposal. Delivery is subject to availability, first come, first served. Insurance papers, Initial payment and a signed proposal must be received before shipment.

Payment terms may not be changed without the written authorization of Bright Technologies. Any shipments delayed by Purchaser, Bright Technologies reserves the right to invoice and pass title to the purchaser; Purchaser agrees to remit the amount due at the times stated, as if equipment had shipped. Any and all cost of storage shall be at the purchaser's expense. Unauthorized retention of payment by Purchaser for any reason shall be subjected to a service charge of 2% compounded per month and any collection expenses will be added to total amount due. Venue of any action to enforce the terms of this proposal shall lie in the court of proper jurisdiction in Allegan County, Michigan USA.

All work to be completed in a professional manner according to standard practices. Any alteration or deviation from the above specifications which involve extra costs will be made only upon receipt of an authorized, written change order and will be shown on subsequent invoices as amounts over above the original estimate. It is understood that we will not be penalized for delays caused by strikes, accidents or other delays caused by acts of God. Our workers are covered by Worker's Compensation insurance. Owner agrees to furnish all other appropriate and necessary insurance coverage's.

Receipt of a purchase order from the purchaser for this proposal is deemed the same as signing this Acceptance of Proposal and no changes shall be allowed by Bright Technologies unless agreed in written form on Bright Technologies letterhead.

Authorized Signature: Brandon Woods

Brandon Woods  
Bright Technologies

While Sebright Products Inc. strives to make the information provided on processing of your waste or recycling stream, as timely and accurate as possible, the company makes no claims, promises, or guarantees about the accuracy, completeness, or adequacy of any of the provided information, and expressly disclaims liability for errors and omissions in the content of the information, or analysis provided to your company. It is solely the responsibility of each recipient of the information Sebright Products, Inc. has provided to satisfy itself as to the accuracy of the information provided by Sebright Products, Inc. and as to the efficacy of the product(s) for the use(s) intended.

**NOTE: This proposal may be withdrawn if not accepted in writing within 30 days.**

ACCEPTANCE OF PROPOSAL - The above prices, specifications and conditions are satisfactory and are accepted. You are authorized to do the work as specified and payments will be made as outlined above.

Signature \_\_\_\_\_ Date of Acceptance \_\_\_\_\_

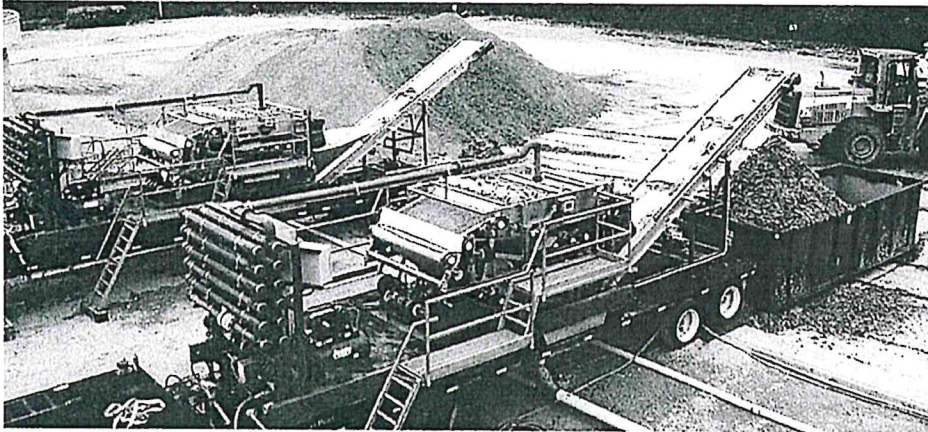
Title \_\_\_\_\_

## Belt Filter Press Dewatering System Specifications:

<i>System Size</i>	<i>Typical Throughputs Lbs. dry/hr *</i>	<i>Process Rate GPM *</i>	<i>Belt Speed Feet/Min.</i>	<i>Sludge Pump Size</i>	<i>Weekly Project Size</i>
0.8 Meter	500-800	60-160	5-30	140 gpm	150,000 gallons
1.2 Meter	800-1500	80-220	5-30	220 gpm	200,000 gallons
1.7 Meter	1200-2000	120-220	5-30	220 gpm	250,000 gallons
1.7 Meter (XL)	1500-2500	150-300	5-30	300 gpm	375,000 gallons
2.2 Meter	2000-3000	200-400	7-40	400 gpm	500,000 gallons

\* Throughput, Process Rate, and Project size are based on 2-4% Anaerobic Digested Municipal WWTP Sludge, processed to meet paint filter test under contract dewatering conditions. Highest cake solids will be achieved at lower process rates

A Growing Problem with sludge build-up can be solved with a Belt Filter Press Rental system. [Click here to read the article on Sludge Build-up.](https://www.mlive.com/sponsored/2017/03/a_growing_problem_with_sludge.html)  
([https://www.mlive.com/sponsored/2017/03/a\\_growing\\_problem\\_with\\_sludge.html](https://www.mlive.com/sponsored/2017/03/a_growing_problem_with_sludge.html))



For more information or a quotation on Bright Technologies Belt Filter Press rental contact one of the following:

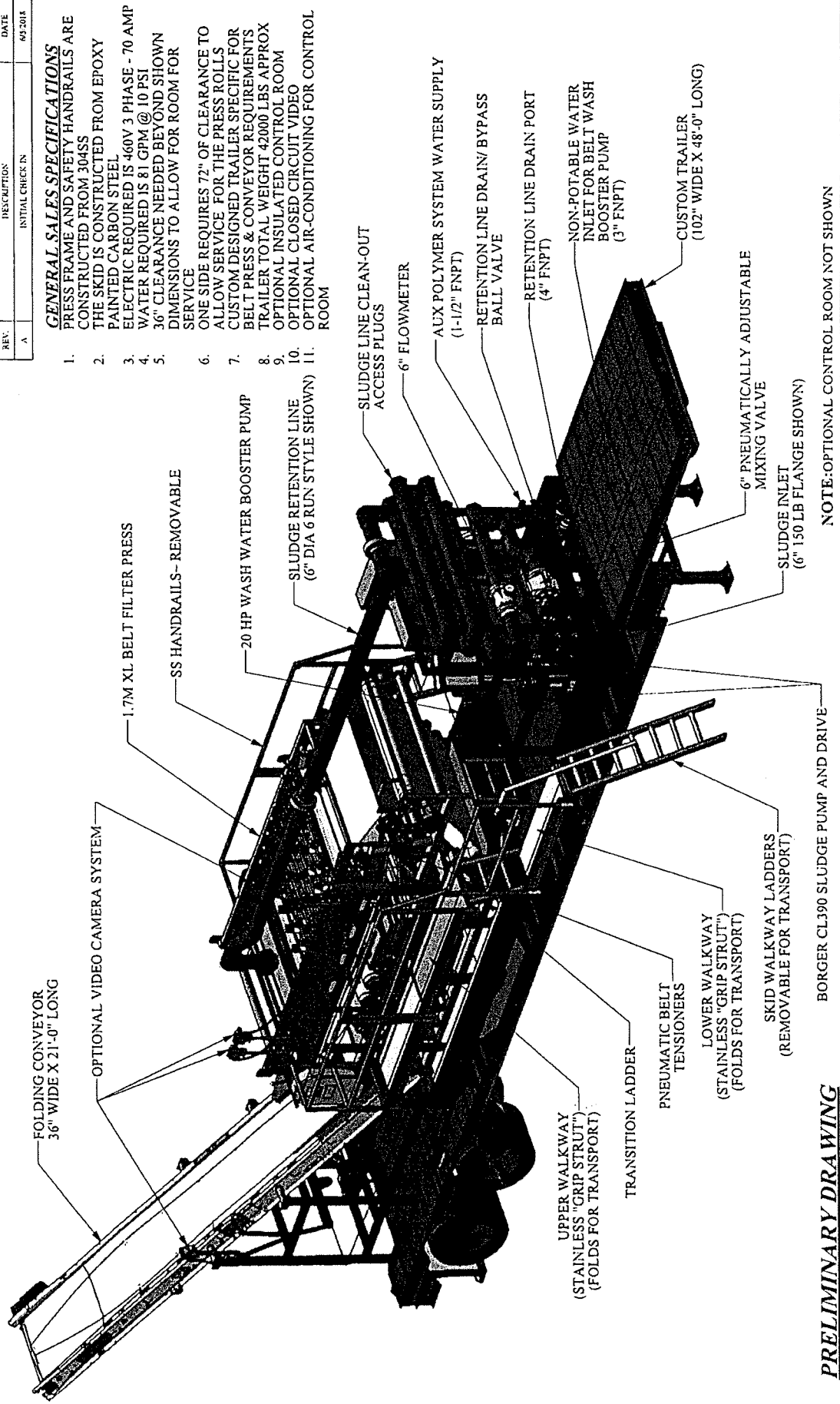
**Stuart Sebright**  
General Manager  
Phone 269-682-0196  
[stuart@sebrightproducts.com](mailto:stuart@sebrightproducts.com) (mailto:stuart@sebrightproducts.com)

**Brandon Woods**  
Sales  
Phone 269-682-0196  
[bwoods@sebrightproducts.com](mailto:bwoods@sebrightproducts.com) (mailto:bwoods@sebrightproducts.com)

**Julie VanderMoore**  
Inside Sales  
Phone 269-682-0196  
[julie@sebrightproducts.com](mailto:julie@sebrightproducts.com) (mailto:julie@sebrightproducts.com)

REV.	DESCRIPTION	DATE
A	INITIAL CHECK IN	6/3/2018

- GENERAL SALES SPECIFICATIONS**
- PRESS FRAME AND SAFETY HANDRAILS ARE CONSTRUCTED FROM 304SS
  - THE SKID IS CONSTRUCTED FROM EPOXY PAINTED CARBON STEEL
  - ELECTRIC REQUIRED IS 460V 3 PHASE - 70 AMP
  - WATER REQUIRED IS 81 GPM @ 10 PSI
  - 36" CLEARANCE NEEDED BEYOND SHOWN DIMENSIONS TO ALLOW FOR ROOM FOR SERVICE
  - ONE SIDE REQUIRES 72" OF CLEARANCE TO ALLOW SERVICE FOR THE PRESS ROLLS
  - CUSTOM DESIGNED TRAILER SPECIFIC FOR BELT PRESS & CONVEYOR REQUIREMENTS
  - TRAILER TOTAL WEIGHT 42000 LBS APPROX
  - OPTIONAL INSULATED CONTROL ROOM
  - OPTIONAL CLOSED CIRCUIT VIDEO
  - OPTIONAL AIR-CONDITIONING FOR CONTROL ROOM



NOTE: OPTIONAL CONTROL ROOM NOT SHOWN

**PRELIMINARY DRAWING**  
 DUE TO PRODUCT IMPROVEMENT, THE MANUFACTURER RESERVES THE RIGHT TO ALTER OR AMEND WITHOUT THE NOTICE OF ANY OF THESE SPECIFICATIONS AND/OR DIMENSIONS.

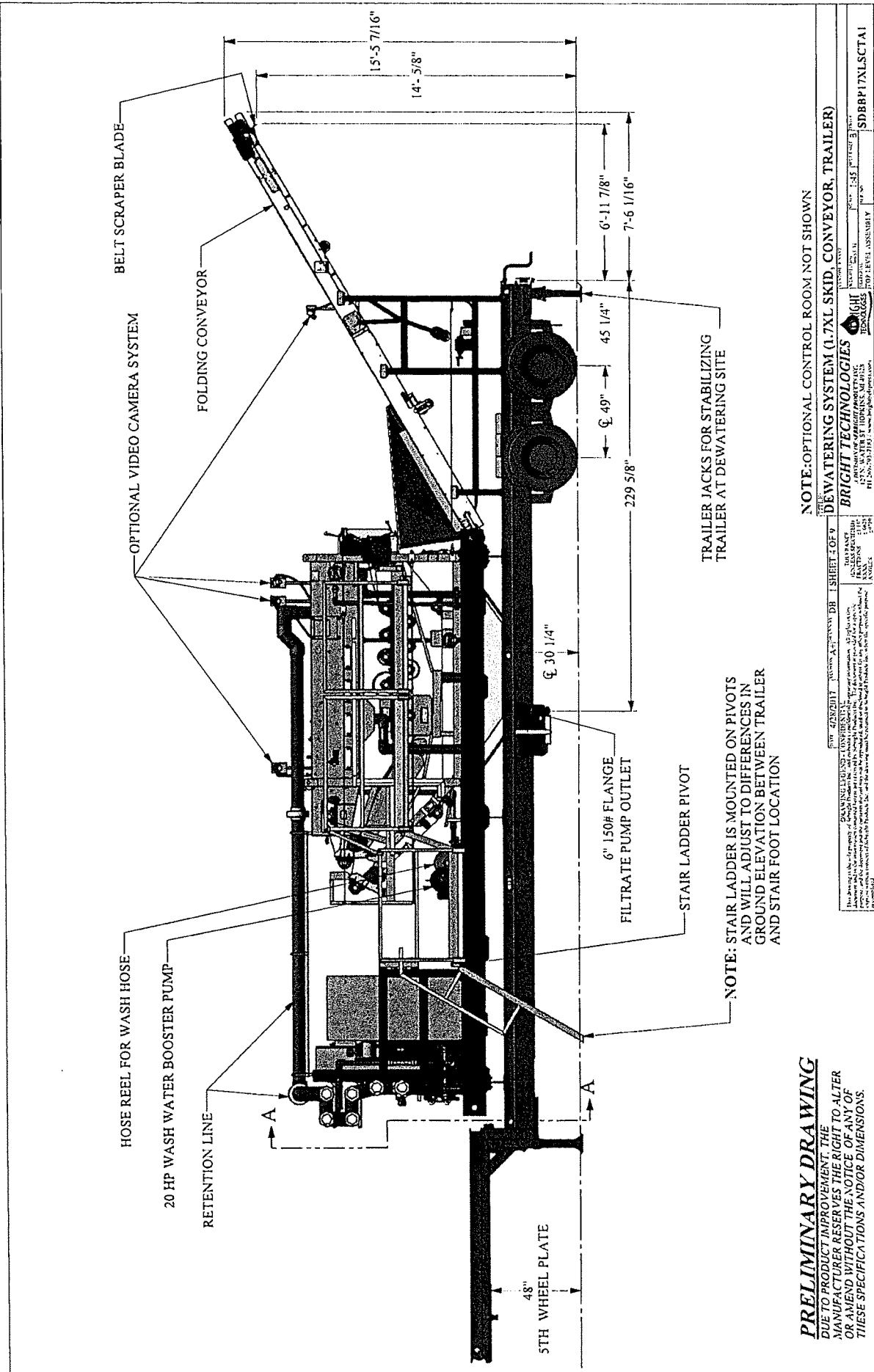
BRIGHT TECHNOLOGIES  
 10000 W. 10TH AVENUE, SUITE 100, DENVER, CO 80202  
 TEL: 303.752.1131 WWW.BRIGHTTECHNOLOGIES.COM

DEWATERING SYSTEM (1.7XL SKID, CONVEYOR, TRAILER)  
 SHEET 1 OF 9  
 PROJECT: 22870017 - 2018-06-01

BRIGHT TECHNOLOGIES  
 10000 W. 10TH AVENUE, SUITE 100, DENVER, CO 80202  
 TEL: 303.752.1131 WWW.BRIGHTTECHNOLOGIES.COM







NOTE: STAIR LADDER IS MOUNTED ON PIVOTS AND WILL ADJUST TO DIFFERENCES IN GROUND ELEVATION BETWEEN TRAILER AND STAIR FOOT LOCATION

TRAILER JACKS FOR STABILIZING TRAILER AT DEWATERING SITE

**PRELIMINARY DRAWING**  
 DUE TO PRODUCT IMPROVEMENT THE MANUFACTURER RESERVES THE RIGHT TO ALTER OR AMEND WITHOUT THE NOTICE OF ANY OF THESE SPECIFICATIONS AND/OR DIMENSIONS.

NOTE: OPTIONAL CONTROL ROOM NOT SHOWN

DEWATERING SYSTEM (1.7XL SKID, CONVEYOR, TRAILER)

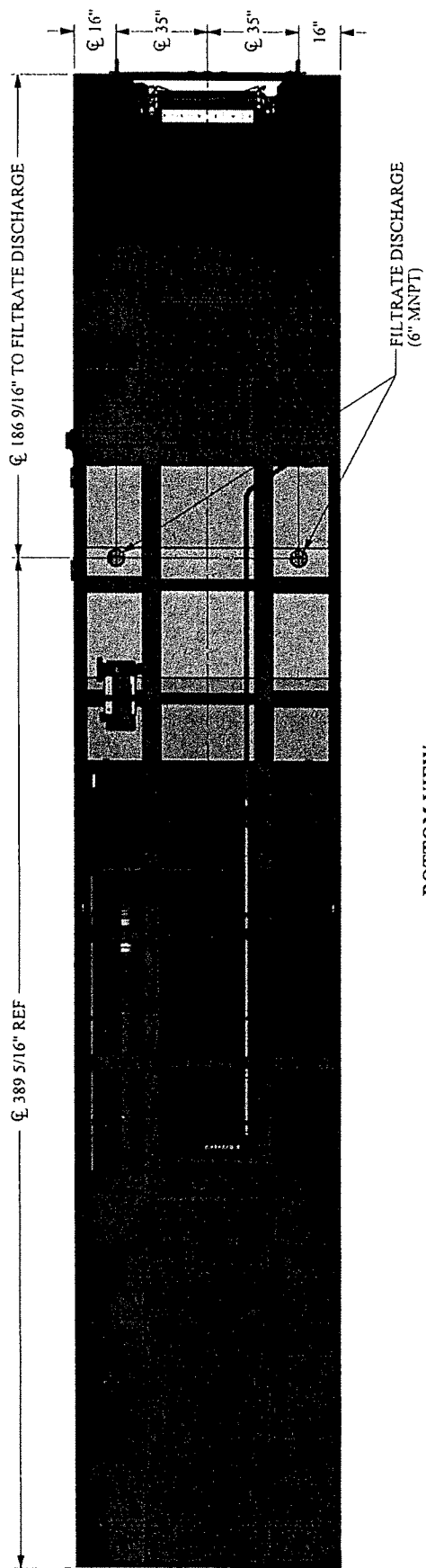
REV. 4/28/2017	REVISED AS PER REVISED DRAWING	SHEET 3 OF 9	PROJECT NO.	5DBRP17XLSCTAI
REV. 10/2016	REVISED AS PER REVISED DRAWING	SHEET 3 OF 9	PROJECT NO.	5DBRP17XLSCTAI
REV. 10/2016	REVISED AS PER REVISED DRAWING	SHEET 3 OF 9	PROJECT NO.	5DBRP17XLSCTAI
REV. 10/2016	REVISED AS PER REVISED DRAWING	SHEET 3 OF 9	PROJECT NO.	5DBRP17XLSCTAI
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REV. 10/2016	REVISED AS PER REVISED DRAWING	SHEET 3 OF 9	PROJECT NO.	5DBRP17XLSCTAI

**BRIGHT TECHNOLOGIES**  
 A DIVISION OF WRIGHT PROPERTIES, INC.  
 11120 N. 30th St., Suite 100, Phoenix, AZ 85018  
 PH: 602-998-1111 FAX: 602-998-1112  
 WWW.BRIGHTTECH.COM









BOTTOM VIEW

NOTE: TRAILER SHOWN IN TRANSPORT SET-UP

**PRELIMINARY DRAWING**  
 DUE TO PRODUCT IMPROVEMENT, THE MANUFACTURER RESERVES THE RIGHT TO ALTER OR AMEND WITHOUT THE NOTICE OF ANY OF THESE SPECIFICATIONS AND/OR DIMENSIONS.

NOTE: OPTIONAL CONTROL ROOM NOT SHOWN

PROJECT: DEWATERING SYSTEM (1.7XL SKID, CONVEYOR, TRAILER) DRAWING NO.: <b>BRIGHT TECHNOLOGIES</b> 1275 W. WILSON ST. HOPKINS, MI 48148 TEL: 248.341.1111 FAX: 248.341.1112		SHEET NO.: 3 TOTAL SHEETS: 3 DATE: 01/11/2017
DRAWING TITLE: DEWATERING SYSTEM (1.7XL SKID, CONVEYOR, TRAILER) DRAWING NO.: <b>BRIGHT TECHNOLOGIES</b> 1275 W. WILSON ST. HOPKINS, MI 48148 TEL: 248.341.1111 FAX: 248.341.1112	SHEET NO.: 3 TOTAL SHEETS: 3 DATE: 01/11/2017	PROJECT NO.: SDBRP17XLSCTAI



# BELT FILTER PRESS

FOR SUPERIOR RESULTS\*

WWTP Primary - Cake solids of up to 37%

Aerobic Digested - Cake Solids of up to 24% TS

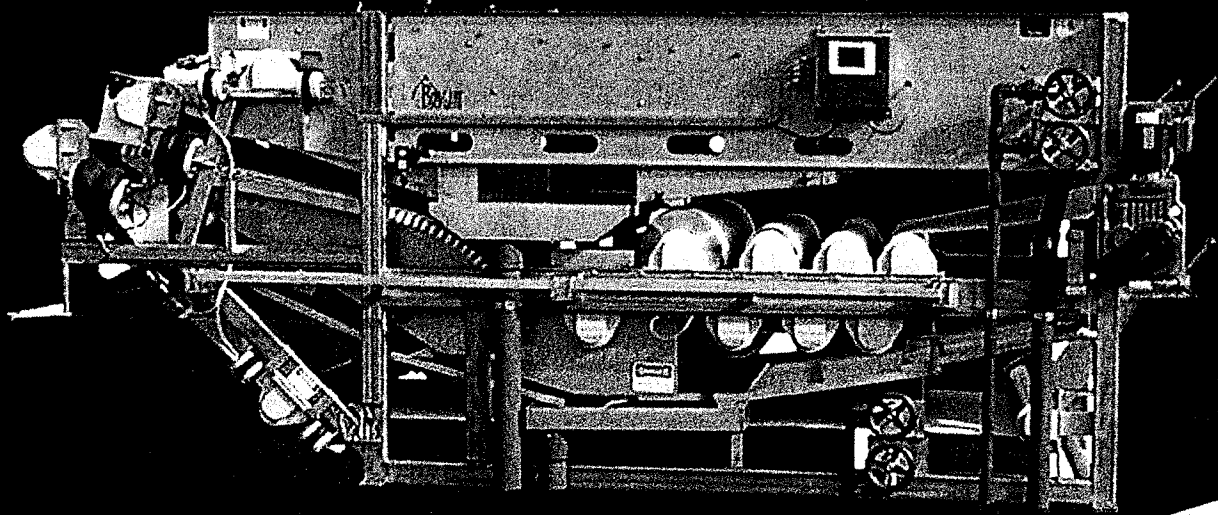
ATAD Process - Cake solids 30% @ 2,000 lbs./hr/meter

Lagoon Sludge - Solids loading of 2500 lbs./hr/meter producing 20% solids

Mineral Sludge - Cake solids of 50 -70% TS at rates of 6,000 lbs./hr/meter

Lime Treated Septage - Cake solids 47% @ 1,400 lbs./hr/meter

\*While the above results have been attained with our belt filter press equipment, results may vary with the characteristics of the sludge and other process variables.



127 N. Water St. Hopkins, MI 49328

800-253-0532

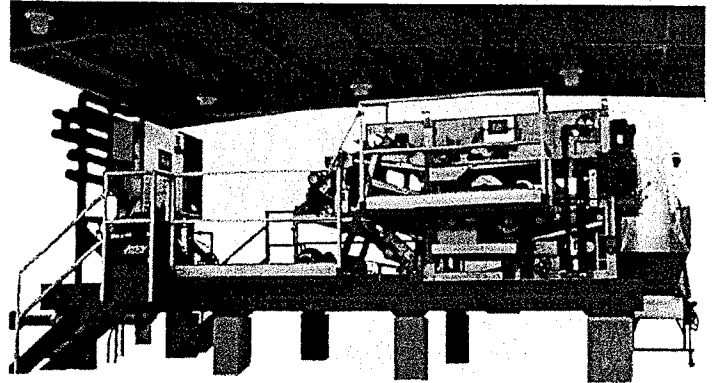
[www.sebrightproducts.com](http://www.sebrightproducts.com)



# BELT FILTER PRESS

## Bright Technologies Belt Filter Press

A modern design that includes (3) US Patents and many innovative features that provide high performance in a compact, high value package. Many competing products are based on 30 year old designs that do not utilize the filtration area effectively.

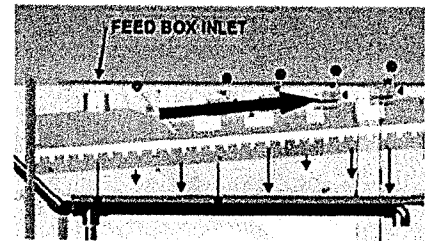


### Features

- Stainless Steel Construction
- Inclined Gravity Section
- Patented Radius Wedge Section
- High Pressure Zone
- Patented Belt Tensioning and Steering
- Patented Drainage Roller
- State of the Art Controls

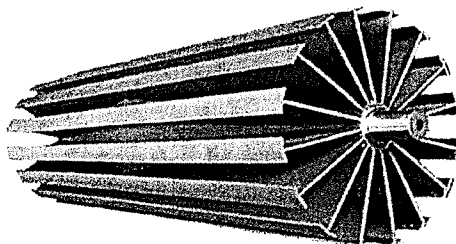
### Gravity Section

The Inclined Gravity Deck features a 1/2" UHMW support bars on 2 1/2" centers designed to maximize drainage by breaking the surface tension and the use of capillary action. The moving belts, in contact with the support bars break the surface tension allowing the water to flow through the pores in the belt. As the water travels through the belt, it creates a vacuum effect on the top side of the belt, pulling in more water. This principle can be illustrated by touching the inside of a wet tent and causing it to leak. The incline of our gravity deck keeps liquids near our feed box and conveys solids out to increase zone retention time. These features make our gravity deck more effective per given unit of the belt area.



### Radius Wedge

Our patented radius wedge section simulates a large diameter roll, which quickly brings the belts together to apply gentle pressure and better condition the sludge for the press section. The Typical straight wedge zone used by others, typically requires operator adjustment and does not apply any pressure over most of its surface area. Our radius design, also supports superior drainage by breaking lower belt surface tension with our radius support grid and does not require additional user adjustments.



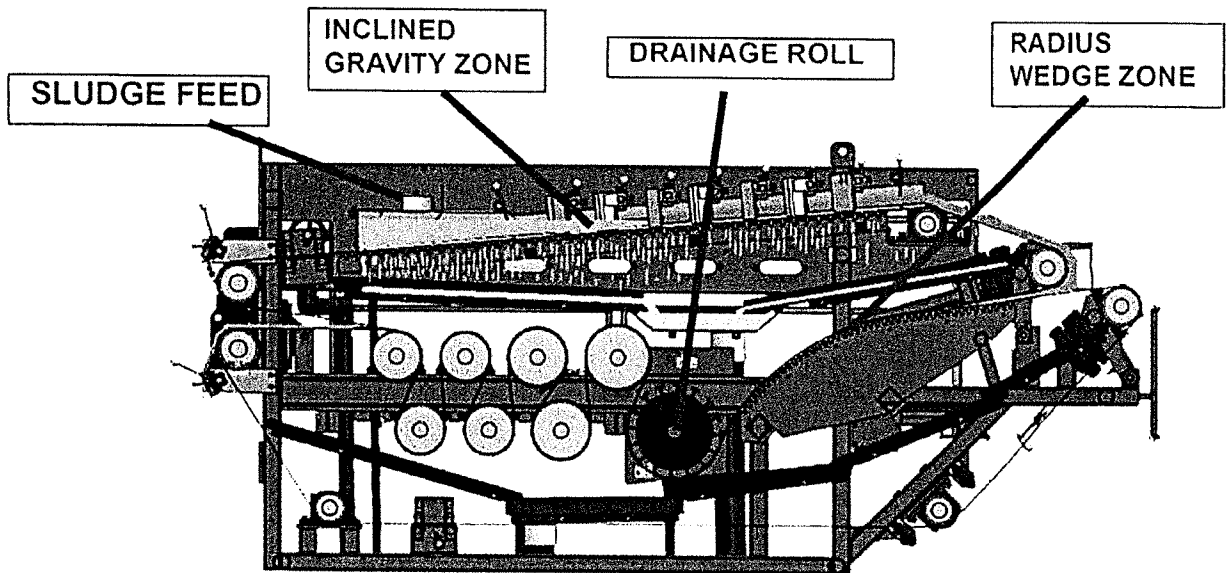
### Drainage Roller

Our patented drainage roller is a large diameter fabricated roll that features 50% open area drainage. Unlike perforated rolls, which are typically 30-35% open area, our patented Wing Roll channels water to the outside of the roll and the roll rotates upward and washes the majority of any solids present out of the roll, so they do not impede drainage in subsequent operation. The Wing Roll is also easy to clean at the end of the day's operation, unlike perforated rolls, which stubbornly retain solids buildup inside the roll leading to diminished dewatering capacity and odors.

# BELT FILTER PRESS

## Bright Technologies Belt Filter Press

Our belt press is designed with long term value and ease of operation in mind. Stainless steel frame and roller construction are standard. An Allen Bradley touch screen and PLC integrate the press and support equipment so that unattended operation and integration into SCADA systems are easily accomplished. The optional press mounted operator walkways and handrails are easily removed for press maintenance and allow the operator good visibility of the process.



### High Pressure Zone

Our presses feature eight pressure rolls that have four decreases in roll diameter, which allow for greater pressure to be applied to the sludge cake.

### Stainless Steel Construction

Stainless steel frame and roll construction is standard on all Bright Technologies Belt Filter Presses

### Pneumatic Bellows

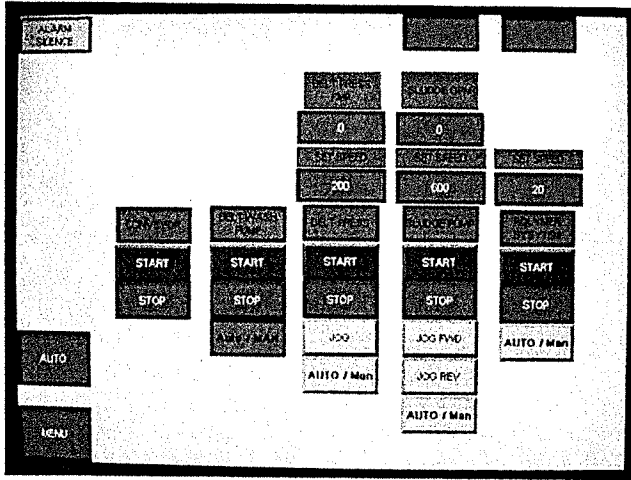
The Belt Tension and steering is accomplished by pneumatic bellow assemblies. These bellows are not subject to "freeze up" from corrosion as may happen with pneumatic cylinders. Further, with the bellows design there is no concern of a leaking hydraulic system.

### Belt Steering

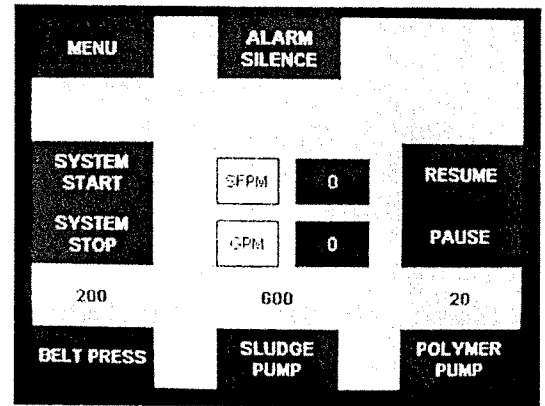
The belt steering is accomplished by a patented belt following assembly that utilizes solid state stainless steel proximity sensors. These sensors activate pneumatic valves that are protected from the environment by a NEMA 4X cabinet. The sensors for Belt Steering, Belt Off Track, and Belt Breakage are identical and easily replaced. The accuracy of our belt steering allows us to have more usable gravity zone width than many other designs.

# BELT FILTER PRESS

## State of the Art Controls



**Main Touch Screen**



**Belt Press Mounted HDMI**

NEMA 4X Control Enclosures Standard

Allen Bradley PLC, Touch Screen, VFD's, BFP HMI and Motor Starters

Ethernet communication included, aids in remote operation and SCADA integration

Belt Press Mounted Operators Station (a monochrome HMI on the belt press which allows the operator to view the gravity deck and make adjustments to the system)

Adjustable feed high probe, automatically pauses the sludge pump and polymer upon high sludge level at the gravity deck. Resumes operation after low level.

Easily expandable control system, the PLC and Touch Screen can be programmed to control more ancillary equipment without adding push buttons and pilot lights etc.

Alarm and system timers are adjustable by the Operator via the touch screen and belt press mounted remote

Alarm History - review the past alarms with time/date stamp via touch screen

Auto / Manual selection of all ancillary equipment by the operator - each piece can be started individually for maintenance

Hour meters for all equipment built into the touch screen for maintenance purposes

All external devices are 24 VDC for Operator Safety

Belt speed displayed in FPM and Percent of Maximum pump speed

Sludge flow G.P.M., gallons processed and resettable gallons processed are displayed on the touch screen with an optional flow meter