

# FOCUS



## ECONOMY:

- Service life
- Disposal costs
- Service hours



## ENVIRONMENT:

- Co<sub>2</sub> emission
- Process



## CSR:

- Service-friendliness
- Automation
- Obnoxious smells

**PRE-TREATMENT**

PROCESS

SLUDGE TREATMENT

OUTSIDE THE FENCE

SERVICE

# COOPERATION WITH **value**

At Stjernholm A/S, we want to make sure that our shared competencies are fully utilised, ensuring that we always deliver sustainable solutions with regards to economy, environment and CSR.

## COOPERATION

That is why we base our cooperation with our customers on **mutual respect, and open and honest dialogues.**

In order to ensure optimal coherence between the customer's strategies, KPIs and goals, along with the options offered by the industry and the advisers, we suggest a larger scale tender divided into six phases:



Through the dialogue, we evaluate whether or not other factors influence the decision, e.g.

- How much screen material is currently disposed of?
- Can the screen material be washed and compressed so that it may be treated as standard waste?
- How is the screen material handled?
- Do special KPIs or goals make up the basis for the final decision?

In this way, we ensure that the final solution is selected based on sustainable and long-term optimisation of supply operations – to the delight of the consumers and the supply staff.

# value

When you cooperate with us, you know that we are focusing on delivering a solution to you that adds value to your facility.



### ECONOMY

#### SCREENINGS WASHING PRESS

- Service life of 15-20 years with a calculated payback time of 4-6 years.
- Disposal savings of up to 25% based on increased dry matter content of up to 45% and a screen material reduction of up to 80%.
- Automatic operation reduces the number of service hours. Combined with discharge directly in Longofil bags, according to experience time consumption for inspection and handling is reduced by up to 2 hours per week.



### ENVIRONMENT

- Engines that fulfil EU requirements related to energy saving engines by law as of January 2017 contribute to reducing the total CO<sub>2</sub> emission from the facility.
- Screen material reduction leads to significantly reduced transport and disposal costs, thereby reducing the total CO<sub>2</sub> emission of the facility.



### CSR

- Service-friendliness, operational reliability and the closed system minimise smells and the need for staff to touch the medium, thereby creating better working conditions and reducing absenteeism due to illness.

Wash off organic material and compress the screen material in cooperation with Stjernholm A/S to achieve a sustainable solution!

## TENDER SUGGESTION

Machine equipment tenders must always be drawn up as procurements based on operational needs. The providers must be allowed to visit the plant and discuss the installation prior to final compilation of the procurement materials.

In addition, the providers must be allowed to present and explain their offer to the developer and the adviser prior to the order being placed.

The offers must be evaluated with a focus on the areas included in the section "The facts".

# Screenings Washing Press

## "THE FACTS"

Screenings Washing Press from Stjernholm is utilised in many purification plants. Everywhere, it achieves very good results, e.g. up to 45% dry matter and a screen material production of up to 80%.

The facility is simple and ensures efficient and optimal transport and washing of the screen material for organic material, at the same time increasing the dry matter content in the washed screen material.



The Screenings Washing Press from Stjernholm is made of strong materials, is extremely hard-wearing and offers a verified long service life. In addition, Stjernholm AIS offers extra operational guarantees. The strong screw conveyor is made of steel quality S35J2G3 to ensure efficient transport and compression. In the washing section, technical water is used to remove remaining organic matter.

### TABLE FOR COMPARISON WITH OWN REQUIREMENTS OR OTHER SCREENINGS WASHING PRESS.

FACTS	SCREENINGS WASHING PRESS
Service life	15-20 years
Material standard	AISI 304 / S35J2G3
Gear type	SEW Helical gear unit
Engine	230 / 460 V - 60 Hz
Dry matter	Up to 45%
Screen material reduction	Up to 80%
Handling strategy	Washing and compression durations, adjusted to fit the conditions.
Handling	Local control panel / SRO
Hygiene	Closed system
HC code:	84212100
Producer / country	Stjernholm A/S - Denmark



Discharge of compressed screen materials into Longofil bags which are well-suited as disposal bags for screen material. Continuous liner of plastic bags.






The compression pipe is shaped to ensure optimal transport of compressed screen material to the container.

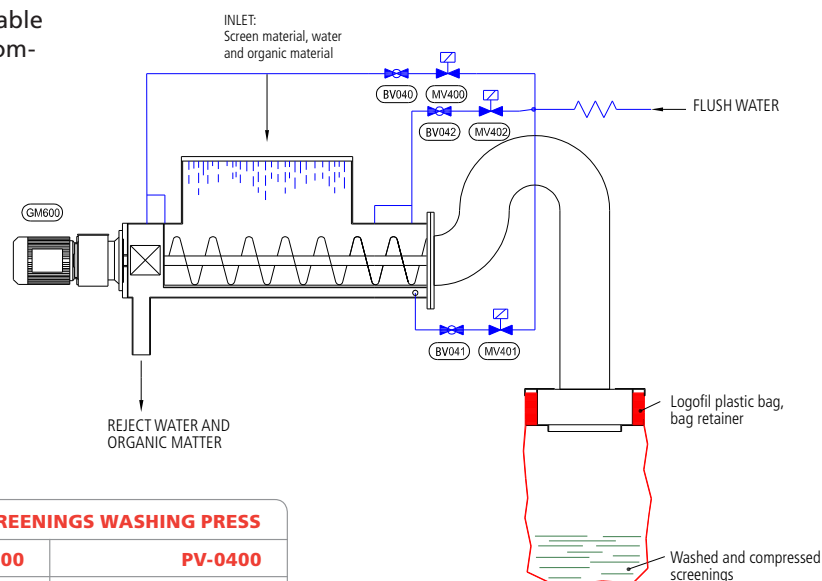
The Screenings Washing Press from Stjernholm is available in various sizes with a high capacity of washed and compressed screenings.

#### TERMS:

GM = Gear motor  
BV = Ball valve  
MV = Motor valve

#### COMPONENT SYMBOLS:

 Motor valve  
 Ball valve, manual  
 Inspection door



#### TECHNICAL DATA:

#### SCREENINGS WASHING PRESS

MODEL	PV-0200	PV-0300	PV-0400
Length in total	81 11/32 inches	113 67/64 inches	114 51/64 inches
Height in total	21 1/2 inches	27 41/64 inches	29 51/64 inches
Width in total	13 25/64 inches	17 63/64 inches	22 1/4 inches
Drive gear	4 HP	7 HP	10 HP
Rpm	21	21	21
Capacity - inlet	265 gal / 35 ft <sup>3</sup> / h	530 gal / 70 ft <sup>3</sup> / h	800 gal / 105 ft <sup>3</sup> / h

## STJERNHOLM A/S

Stjernholm A/S develops, manufactures and markets better technical solutions with a high degree of sustainability. Based on the concept "Value-adding cooperation", we concentrate on the areas in which we know that our knowledge and competencies make a difference: economy, environment and CSR.

We focus on delivering solutions with documented sustainability based on mutual respect, and open and honest dialogues, both externally and internally.

Stjernholm A/S was founded in 1997 and employs approximately 30 dedicated and competent staff members. Our company is financially stable and we are a well-known and well-established player on the market for water treatment. We are noted for our innovative and future-oriented approach to customer cooperation.

## STJERNHOLM SERVICE

Working with Stjernholm A/S as your service partner, all your service needs are covered by one supplier, no matter who delivered the utility machinery and equipment in the first place. We train our service technicians in keeping their eyes and ears open when visiting a plant. In this way, we have a better chance of preventing small problems from growing bigger through proper maintenance and exchange of wearing parts.

(See our product brochure "Stjernholm Service" for additional information)

## SURVEYOR'S REPORT

Based on verifiable sustainability, Stjernholm A/S offers compilation of a surveyor's report for the specific plant in question. Using our professional knowledge, competencies and innovative approach, we offer a complete evaluation of the plant, followed by a report which documents areas of potential optimisation based on sustainable solutions.

(See our product brochure "Stjernholm Surveyor's Report" for additional information)