

# PressEyes<sup>®</sup> for shoe press

Vasasensor offers PressEyes<sup>®</sup> for shoe press. PressEyes is a wireless sensor system that monitors the pressure profile in paper machine press nips equipped with a shoe press. PressEyes provides paper manufacturers with valuable information and new variables in real time, enabling optimization of the production process. With PressEyes, the customer gains:

## Improved paper quality

The continuous monitoring of the pressure profile enables a consistent and improved quality of paper production.

## Increased dewatering efficiency

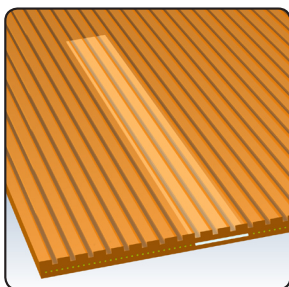
PressEyes' increased control of the paper machine press section allows the press nips to be adjusted to optimal pressure profiles. Through adjustment of the press nips, the operator optimizes the dewatering process of the paper pulp. This leads to increased production and reduced energy costs.

## Decreased machine downtime

During full production, PressEyes can be used as an early warning system, thus reducing unplanned machine downtime. Continuous control of the pressure profile in press nips from the control room reduces time spent trouble-shooting machine defaults.

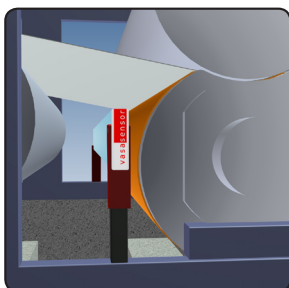
## Reduced amount of spillage

Increased control of the press section and less machine downtime leads to a reduced amount of spillage.



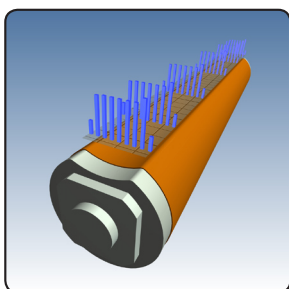
### Shoe press belt with integrated sensor units

The customer orders shoe press belts with integrated sensor units. The integrated sensor units leave no marks on the paper surface and the belt is manufactured in cooperation with a renowned and reliable manufacturer of shoe press belts.



### Receiver unit

A receiver unit is mounted across the paper machine next to the shoe press. When exposed to pressure, a signal proportional to the applied pressure is generated from the sensor units. The receiver unit wirelessly reads the signals from the sensor units integrated in the shoe press belt. Vasasensor delivers and installs the receiver unit following customer consultation.



### Analysis

The signals received by the receiver unit are sent to a stationary computer unit for complex processing. Vasasensor delivers and installs the stationary computer unit following customer consultation.



### Presentation

After acquisition and complex processing, the pressure profile in the press nip is presented on monitors in the control room. The information provides valuable input for adjusting the press nips thus allowing increased production. Installation is made after consultation with the customer.

- Suitable to all paper products
- Pressure profile in cross direction
- Pressure profile in machine direction
- Number of data points in cross direction is optional, typical 5
- Adjustable to all velocities and all pressure ranges in a paper machine.