

Bilfinger Water Technologies

Vee-wire[©] Technology in Starch Processing

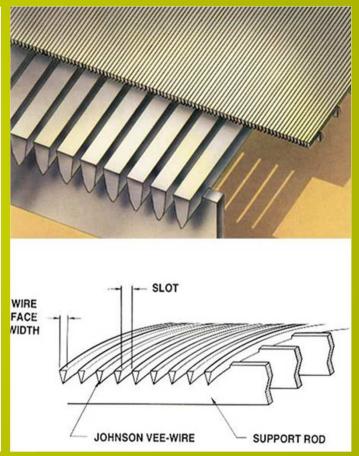
Philip Schofield ACHEMA 2015, Frankfurt am Main | 15 -19 June 2015

Vee-Wire[©] Main Features

High Open Area

- Continous Slot Opening
- > Optimized Screen Design
- Vee-Wire[©] Profile
- Two Point of Contact of Particles
- Smooth Surface
- Strong All-Welded Construction
- Easy Cleaning
- Quick On-Site Installation





Vee-Wire[©] Products in Starch Processing





DSM Sieve Bends 120°

Pressure Boxes for DSM Screens

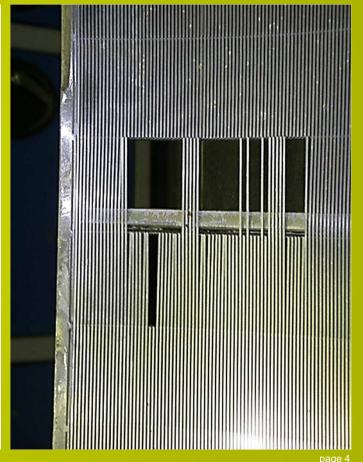
Fugal Screens

Gluten Screens



Gluten Screen

- Increasing production output
 - Before loss of production due to frequent failure
 - Loss of gluten due to presence of wire pieces in gluten product
- Extension of Maintenance Interval
 - Increasing the service life from 2 months to 3 years at the moment, without any significant signs of wear





Gluten Screen

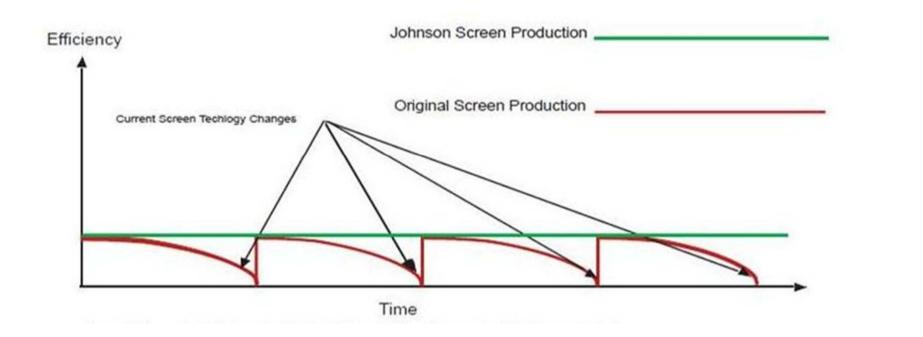
- - **Reduction of Maintenance Time**
 - Modification of the screen construction for easier and faster installation and de-installation

Increasing of Work Safety

• Significant reduction of the risk of injury because of adding handles for easier mounting (Before 2 hand injuries during fitting)







Compare of the lost of efficiency for existing screen technology vs. the improved Vee-Wire[©] technology The service life was increased by 18 times!



Fugal Screen for Horizontal Centrifuge

- Extension of Maintenance Interval
 - Increase the service life from 2 months to 9 months at the moment, without any significant signs of wear
- Increasing of Open Area and Filtration Performance
- Centrifuge A: Wire 0,5mm width and 63µm slot size = 11,03% Open Area
- Centrifuge B: Wire 0,37mm width and 25µm slot size = 6,16% Open Area



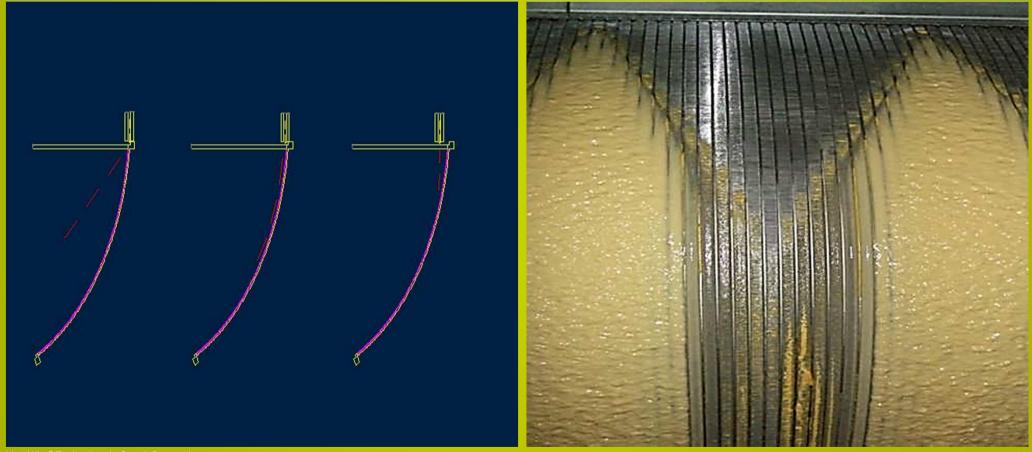


Patented Moveable Nozzles

- Increasing of screening area and wear life by 30%
 - Average cost of 1 screen with 7 months wear life = 1.000 Euro Increased life time = savings 300 Euro per screen
- Flow spreads out as velocity allows
- Non-velocity areas has a collection of build up and will require washing, so less build up = less cleaning required = less down time and maintenance costs







Vee-Wire[©] Technology in Starch Processing



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Thank You for Your Attention!