

V-FOLD



Folding Belt Filter Press



Simple Design

Forgiving Nature

Easily Operated

Easily Maintained

Built to Last

Cost Effective

Slurry Dewatering Made Simple
www.vfoldinc.com

V-FOLD Folding Belt Filter Press

The V-FOLD Folding Belt Filter Press is a simple way to continuously dewater slurries. The patented design is forgiving of many process upsets that cause problems for other filters.

Its unique design gives the V-FOLD filter some unusual advantages:

Forgiving Nature

The V-FOLD folding belt design is "forgiving" of feed variations that can upset conventional dewatering equipment. The feed cavity simply fills a little more or less depending on slurry conditioning. This can make the difference between frequent operator intervention and leaving the filter to run almost unattended.

Easy Automation

Slurry feeding is unusually simple to automate. An optional "automation package" uses ultrasonic level sensing to measure sludge level in the feed cavity and automatically controls the feed rate. Prevents slurry overflows and "unattended" operation can be a real option in many applications.

Self-Tracking Belt

The combination of horizontal and vertical rollers makes the filter belt "self-tracking". No special tracking devices are needed on the V-FOLD.

Simple Installation

V-FOLDS are available with factory fitted control options from "bare" models for site electrical wiring and control, to "dewatering system control automation" models. A small footprint (from 3ft. x 10ft.) and optional factory mounting of many ancillaries to the filter frame make it simple to install.

Cost Effective

The simple design, 316 stainless steel frame and slow moving belt make a reliable filter with little maintenance or operating labour needed. Power requirement is so low the filter belt drive can run on single phase power.

Performance

Like all dewatering devices, performance depends on the feed. V-FOLDS are operating on slurries from approximately 1% DS to 10% DS and have feed rates up to 800 gallons/hour.

Simple Design

- Easy to operate
- Easy to maintain
- Easy to install
- Compact

Forgiving Nature

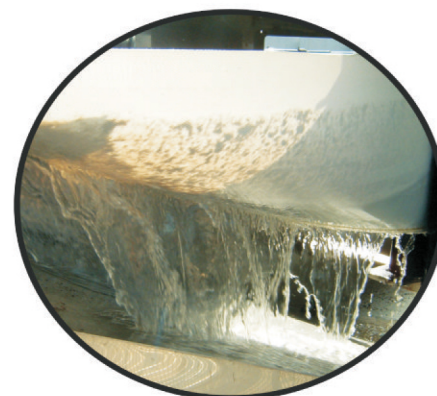
- Forgiving of process upsets
- Continuous operation
- Automation available



Automation available to control feedrate and dewatering system

Filter belt is "self-tracking"

Simple slow moving parts



Low power consumption (1/2 hp. drive)

Built to last with 316 stainless steel frame



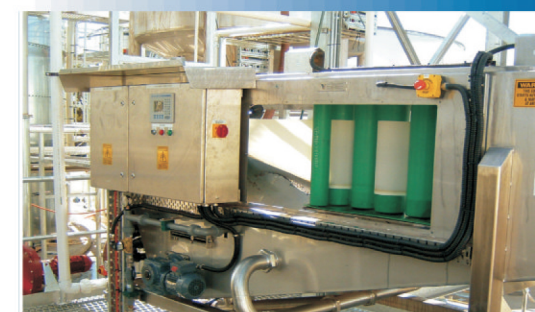
How It Works

The V-FOLD is like a conveyor with filter fabric as the belt. It differs from other belt presses by using a single belt made from conventional filter fabrics with a reinforced centre-line. As it moves slowly forward the belt folds along the centre to form a "V-shaped" cavity that can hold feed slurry.

Initial dewatering is by gravity draining in the feed cavity. Sludge is then trapped between the sides of the belt and squeezed as it passes around a series of vertical rollers where pressure and shear form a filter cake.



Simple to install, maintain and operate.



Optional automation packages available.



Built to last with 316 stainless steel frame.

Slurry Dewatering Made Simple

V-FOLD Folding Belt Filter Press

"Overall sludge disposal costs reduced by more than 75% and the system paid for itself in less than a year."

Typical Dewatering Applications

- Municipal sewage treatment
- Winery wastewater
- Abattoir wastewater
- Food manufacturing wastewater
- Tannery wastewater
- Metal finishing wastewater
- Cardboard & Printing wastewater
- Many others

"The V-FOLD is a great piece of equipment... very tolerant of slurry quality."



Mobile dewatering packages are available