



# Model DSP Screw Press



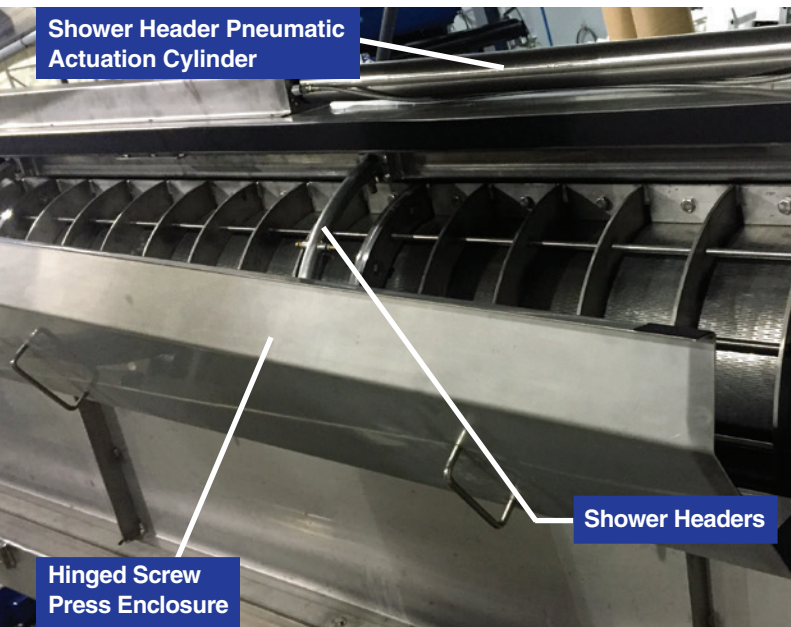
Industry Leader in Design and Manufacture of Thickening, Dewatering, and Composting Systems

# BDP Model DSP Screw Press



Filtrate recycle pump

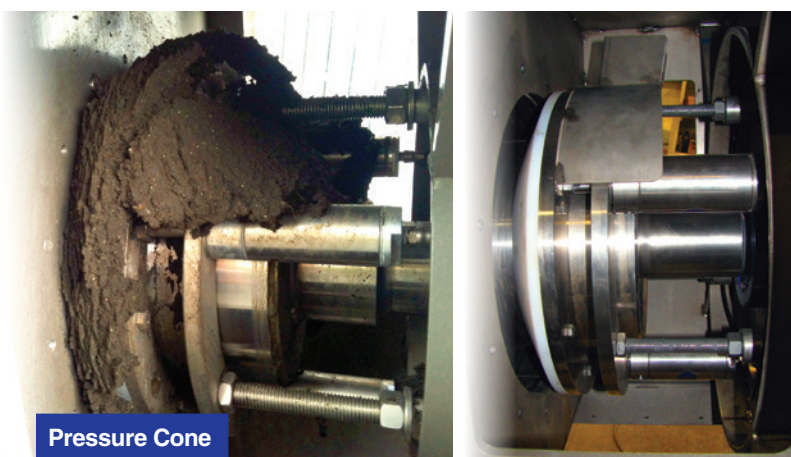
Pressure section filtration collection



Shower Header Pneumatic Actuation Cylinder

Shower Headers

Hinged Screw Press Enclosure



Pressure Cone

Developed especially for:  
**biosolids and challenging dewatering applications.**

**High capacity and excellent solids capture in a fully enclosed system for simplified operation.**

- Odor Hoods trap odor and vents pull
- Three Screw Press diameters available – 12", 18" and 30"
- Stainless steel construction for excellent corrosion resistance
- External bearings for easy access and contamination control
- Enclosed design for odor and moisture control
- PLC control for unattended operation
- Superior solids handling – all with a small footprint

## **FILTRATE POLISHING SYSTEM:**

- Increases solids capture by recycling filtrate from the screw press high pressure section back to the inlet of the RDT
- Capture rates above 95%

## **TAPERED SCREW DESIGN:**

- Reduced plugging: tapered screw core compresses cake against the screen rather than the flights
- Consistent pressure profile
- Accelerated filtrate extraction: tapered core reduces cake thickness as it progresses toward discharge

## **BASKET SCREEN DESIGN:**

- Unique slotted dewatering screen
- Multiple patterns for custom dewatering
- Tapered profile slots for optimized solids capture and eliminates plugging
- Split basket design allows for flight maintenance without removal of screw auger

## **SCREW SHOWER SYSTEM: Low water usage.**

- Optional RDT Filtrate Recycling: filtrate from RDT recycled to reduce wash water consumption
- Automated Wash System: showers use preprogrammed cycle to eliminate shut down of flow to screw press
- Pneumatically actuated showering system
- Nozzle designed to wash baskets and enclosure interior

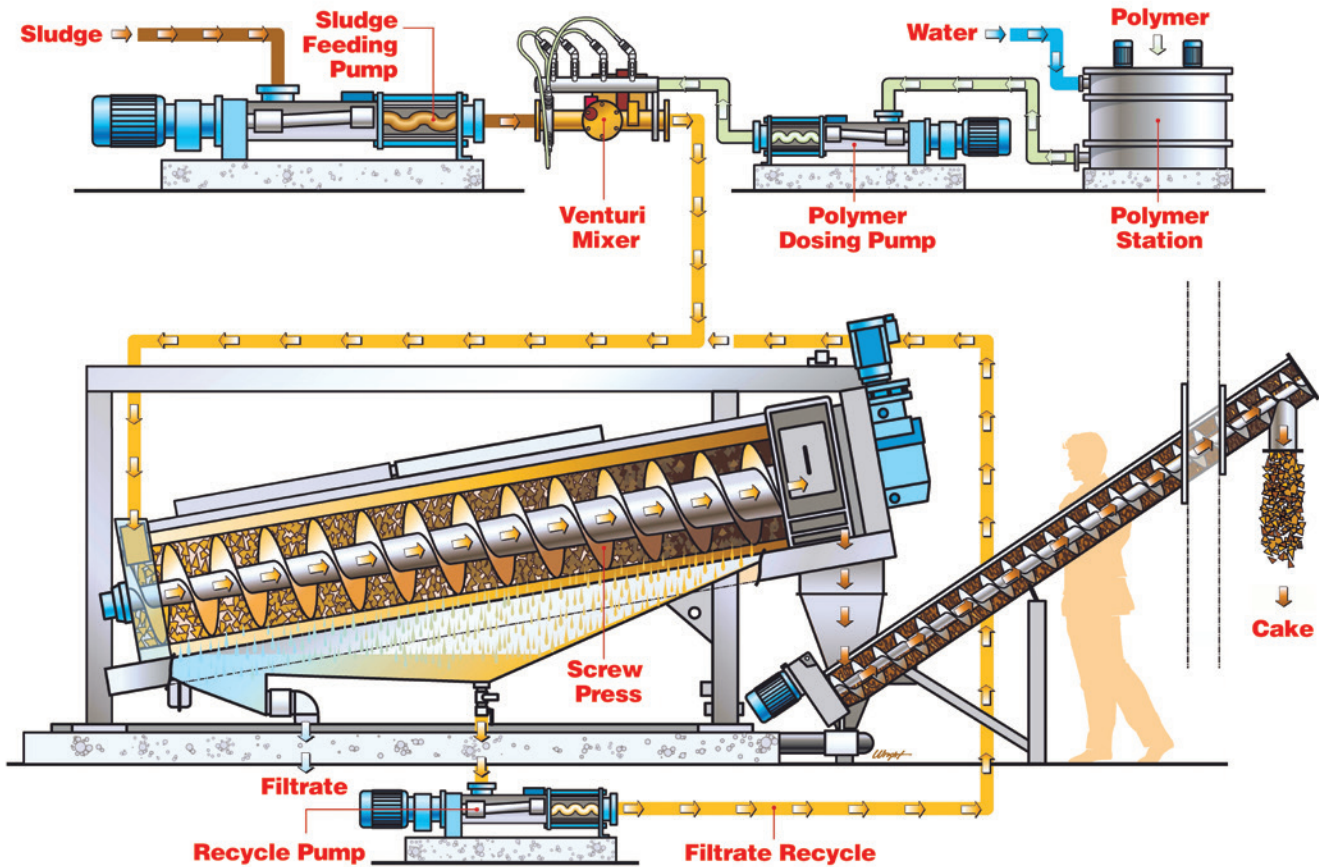
## **REPLACEABLE FLIGHTS:**

- Simplified maintenance
- Custom material design
- Extended life of the flight

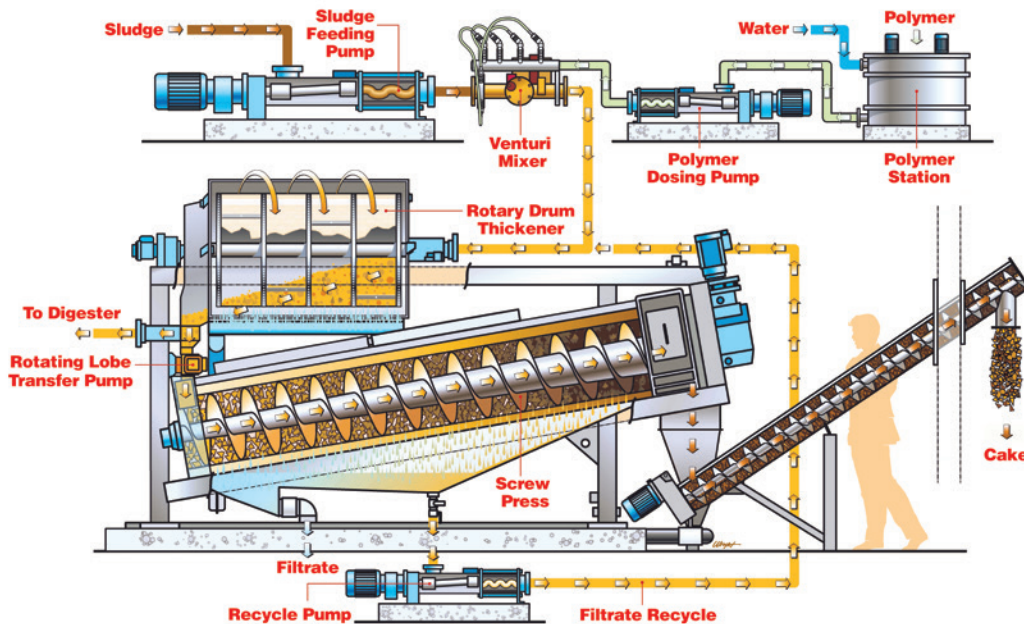
## **PRESSURE CONE:**

- Self-compensating, pneumatically actuated discharge cone enhances dewatering
- Maximize cake solids with adjustment of pneumatic regulator
- Actuates in both directions via selector switch for fast hassle-free clean up

## Standard **Screw Press Configuration**



## Optional **Configuration with Rotary Drum Thickener**



### OPTIONAL **INDEPENDENT PRE-THICKENING:**

- Enhanced capacity and dewatering performance
- Pre-thickens slurry, reducing volumetric flow to screw
- Higher hydraulic throughputs
- More time under pressure resulting in higher discharge cake solids
- Dual Mode operation – operate as a thickening or dewatering system



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