Model DSP Screw Press

Model DSP 3012 Screw Press

Two (2) Model DSP 3012 Screw Presses

Discharge Solids from the Screw Press

Industry Leader in Design and Manufacture of Filtration Equipment
Big performance in a small package...

BDP developed the Model DSP Screw Press for biosolids and other difficult dewatering applications.

Provides high capacity and excellent solids capture in a fully enclosed system with simplified operation.

**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

**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

**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 orientation designed to wash baskets and enclosure interior

**REPLACEABLE FLIGHTS:**
- Simplified maintenance
- Custom material design
- Extended life of the flight
OPTIONAL INDEPENDENT PRE-THICKENING:
Enhanced capacity and dewatering performance, while providing Dual Mode capability.

- Pre-thickens slurry, reducing volumetric flow to screw
- Higher hydraulic throughputs
- Increased time under pressure leading to higher discharge cake solids
- Dual Mode operation – can operate as a thickener or dewatering in one unit.

Standard Screw Press Configuration

Optional Rotary Drum Thickener Configuration:
provides higher capacity and Dual Mode capability
A Leader in Solids Dewatering.

BDP Industries is an OEM supplier of solids thickening, dewatering, and composting equipment. With a 40,000 sq. ft. manufacturing facility and the most hands-on experience in the industry, BDP has evolved into one of the most modern and complete solids handling equipment suppliers in the world.

BDP Industries produces a range of high quality products and services:
- Gravity Belt Thickeners
- Belt Presses
- Screw Presses
- Rotary Drum Concentrators
- Lime Stabilization Systems
- Polymer Systems
- Compost Turning Equipment
- Pulp & Paper Stock Thickeners
- Conveyors
- Process Control Panels
- Equipment Restoration
- On-Site Service
- Mobile Dewatering Demonstrations

Model DSP 3618 Screw Press

<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Dimensions, ft.</th>
<th>Weight</th>
<th>Drive, hp</th>
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</thead>
<tbody>
<tr>
<td>DSP 3012</td>
<td>11’ 6” 4’ 3” 7’ 8”</td>
<td>5,500 lb</td>
<td>1.5</td>
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<tr>
<td>DSP 3618</td>
<td>17’ 4’ 3” 9’</td>
<td>9,000 lb</td>
<td>3</td>
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<tr>
<td>DSP 3630</td>
<td>18’ 8” 5’ 7” 10’ 5”</td>
<td>14,500 lb</td>
<td>5</td>
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</table>

* Capacity is a function of the type of sludge and other parameters, please contact BDP for design parameters.

DSP Screw Press Configuration

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