SCREW PRESS

Advanced Screw Press Technology for Effective Solids Removal

FEATURES OF PT&M PRESSES

- Thrust Bearing At Inlet End For Easy Maintenance
- 9:1 Screw Diameter To Screen Length. Increased Hydraulic Capacity
- All Screen Cages Split for Easy Maintenance & Shaft Removal
- Backing Ribs On All Screen Cages. Increased Screen Support For Split Cages
- Pneumatic Cone With A Bi-Directional Air Regulator. Consistent Discharge Solids Regardless Of Inlet Flow Rates
- PT&M Offers A Heavy-Duty Design Resulting In Less Maintenance & Longer Life

Through hard work, experience and hands on approach, we are constantly developing screw presses for the specific needs of our customer. Press Technology & Mfg., Inc. is experienced in completing comprehensive liquid/solid separation projects cost effectively. Our equipment is the most efficient in the industry and our goal is to maintain 100% customer satisfaction resulting in unequaled service and support. We would welcome the opportunity to provide solutions for your liquid/solid dewatering problems.
SCREW DEWATERING PRESS

The State of the Art

PressTech has the experience and knowledge to solve all liquid/solid separation problems. We go a step further than other screw press manufacturers by configuring our products to our customer's specifications and load requirements.

The Right Technology

Alternative uses for screw presses are being developed everyday, and PressTech is leading that charge. Our innovative screw presses incorporate cutting edge and functional technology that assures flexibility of application.

Tailored Products

Specific materials require a certain screen type, shaft compression ratio, press length and RPM of the shaft. Through lab analysis or on-site testing with our portable test equipment, PressTech can determine the correct press design for each application.

Providing Solutions

We welcome the opportunity to provide solutions to your rejects, stock thickening or sludge waste dewatering challenges. Call us today at (937) 327-0755 if you’re interested in our Screw Presses, having problems with your current screw press, or just want to discuss your liquid/solid separation problems. Our engineers are always ready and willing to help.

ADVANTAGES:

Reduced Landfill Costs
45-60% Dryness on Discharged Solids
Reduced Down Time
Rugged Heavy Duty Construction
304 or 316 Stainless Steel
Easy Maintenance
Reliability
Greater Hydraulic Capacity
Air Driven Cone
Guaranteed Consistent Dryness
GENERAL FEATURES OF THE STANDARD PT&M SCREW PRESS
PRESS TECHNOLOGY & MFG., INC.

Specifications

Press Technology & Manufacturing, Inc. (PT&M) is a manufacturer of durable screw presses used for liquid/solid separation with applications in the pulp & paper industry, municipal waste treatment and other industries. These industries require equipment that is durable and easily maintained. Appropriately lubricated, Press Technology screw presses will operate continuously for 3 to 5 years between maintenance repairs and have useful life of over 20 years. Press Technology manufactures screw presses in a variety of makes and models with screw diameters from 4 inches through 48 inches.

The standard material used in the construction of a PT&M Screw Press is 304 Stainless Steel on wetted surfaces with a carbon steel base. When requested, other grades such as 316 Stainless Steel are available on all surfaces of the press. PT&M Screw Presses are built with a 9:1 ratio of screen area length to diameter of screw. This gives the PT&M Screw Press an advantage over the competing screw presses in its hydraulic capacity. PT&M Screw Presses are sized by their hydraulic and mechanical capacity; the hydraulic capacity is the limiting factor determining size.

Screw Shaft

The screw shaft body is tapered and the flight pitch is decreased to create a gradual volume reduction. Stainless Steel is on all wetted surfaces. The discharge flights are hardfaced with Stoody VanCar 0 hardface. PT&M manufactures its large sludge presses with center shaft drainage at the discharge end of the screw. Large sludge presses have a thick discharge cake that does not provide for uniform dryness. The center shaft drainage reduces by half the path moisture needs to travel. The additional dryness obtained with center shaft drainage will improve the energy value of the sludge when it is used as fuel or reduce landfill cost.

Exclusive Split Backpressure Cone Assembly

Two air cylinders drive the back pressure cone to control the discharge dryness. The air pressure is controlled manually or automatically and is operated from a bi-directional air regulator from 0 to 125 psi. The regulator will regulate the air pressure at the set value in both directions; thus the pressure on the cone is constant regardless of the cone position. The cone is split and can be unbolted and the bushing material can be replaced without removing the shaft.

The pneumatically regulated cone gives the PT&M Screw Press a big advantage over screw presses with fixed or spring loaded cones. The PT&M Screw Press can handle changes in feed consistencies without affecting the discharge dryness.
Screw Press - Model 36L200 at Press Technology’s Factory in Springfield, Ohio USA

BACKGROUND
Press Technology & Mfg., Inc. (PT&M) was incorporated in February 1992 by George J. Berner, P.E. to develop, engineer and manufacture screw presses. PT&M has developed and installed screw presses for pulp & paper, food processing, animal manure, municipal sludge, spent grain and other industrial applications. Most manufacturers of screw presses build just a few models and then try to match those models to different applications. The result is that a large percentage of the screw presses do not specifically meet the customer's needs. Press Technology & Mfg., Inc. will configure the screw press to meet the true needs of the customer; thus we offer a variety of types and sizes of screw presses.