Screw Press for Municipal Sludge

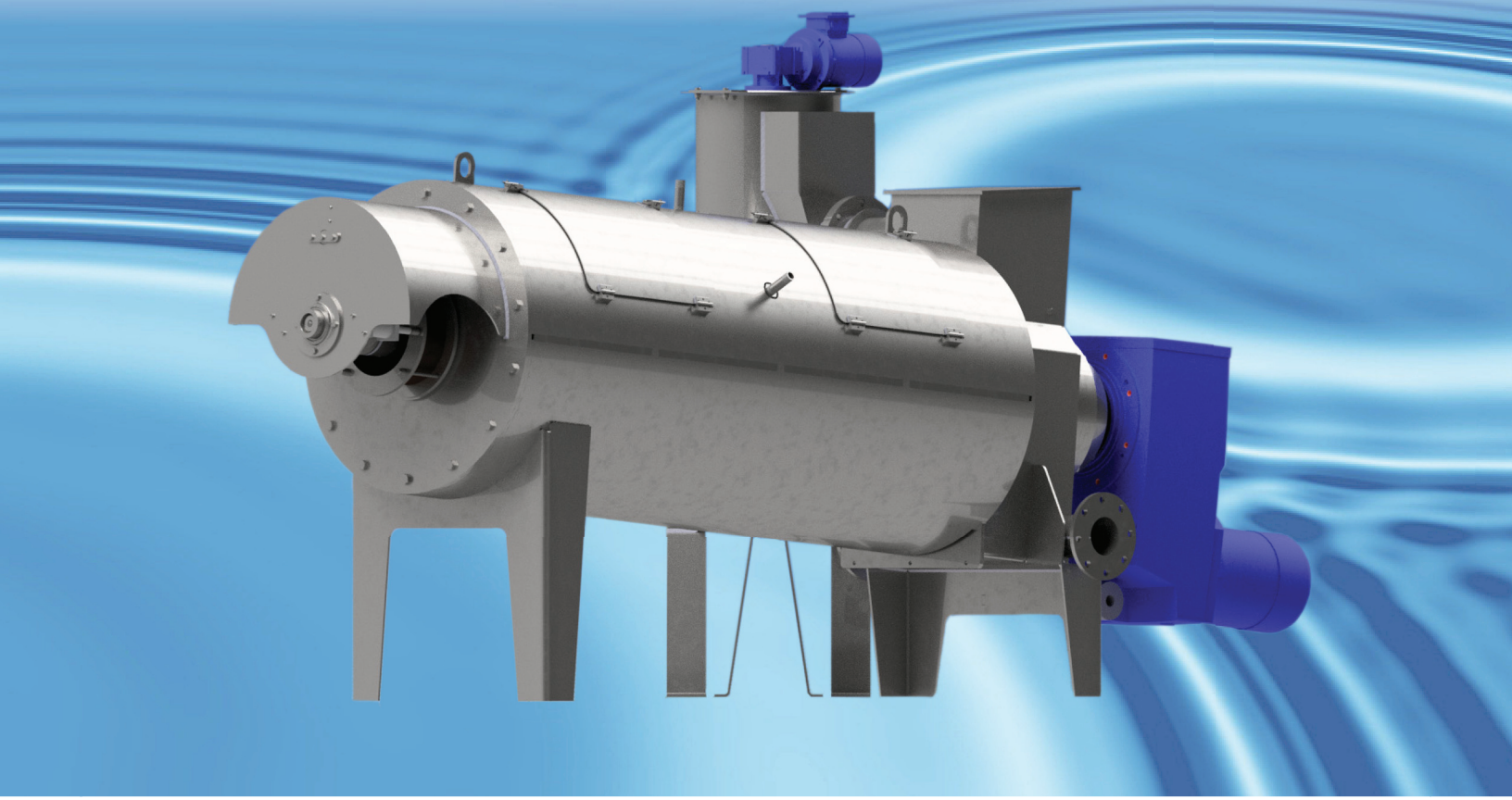
MS Style
Screw Press for low friction Dewatering Applications

PT&M

Press Technology & Manufacturing, Inc.

Dewatering Equipment

www.presstechnology.com



- *Primary Sludge* – raw feces and organic material
- *Secondary Sludge* – waste activated sludge from clarifiers
- *Digested Sludge* – Anaerobic / Aerobic bacteria breaking down organic material into methane or carbon dioxide

Through hard work, experience and a 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 from 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

Press Technology 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 PT&M is leading that charge. Our innovative screw presses incorporate cutting edge and functional technology that assures flexibility of application.

Tailored Products

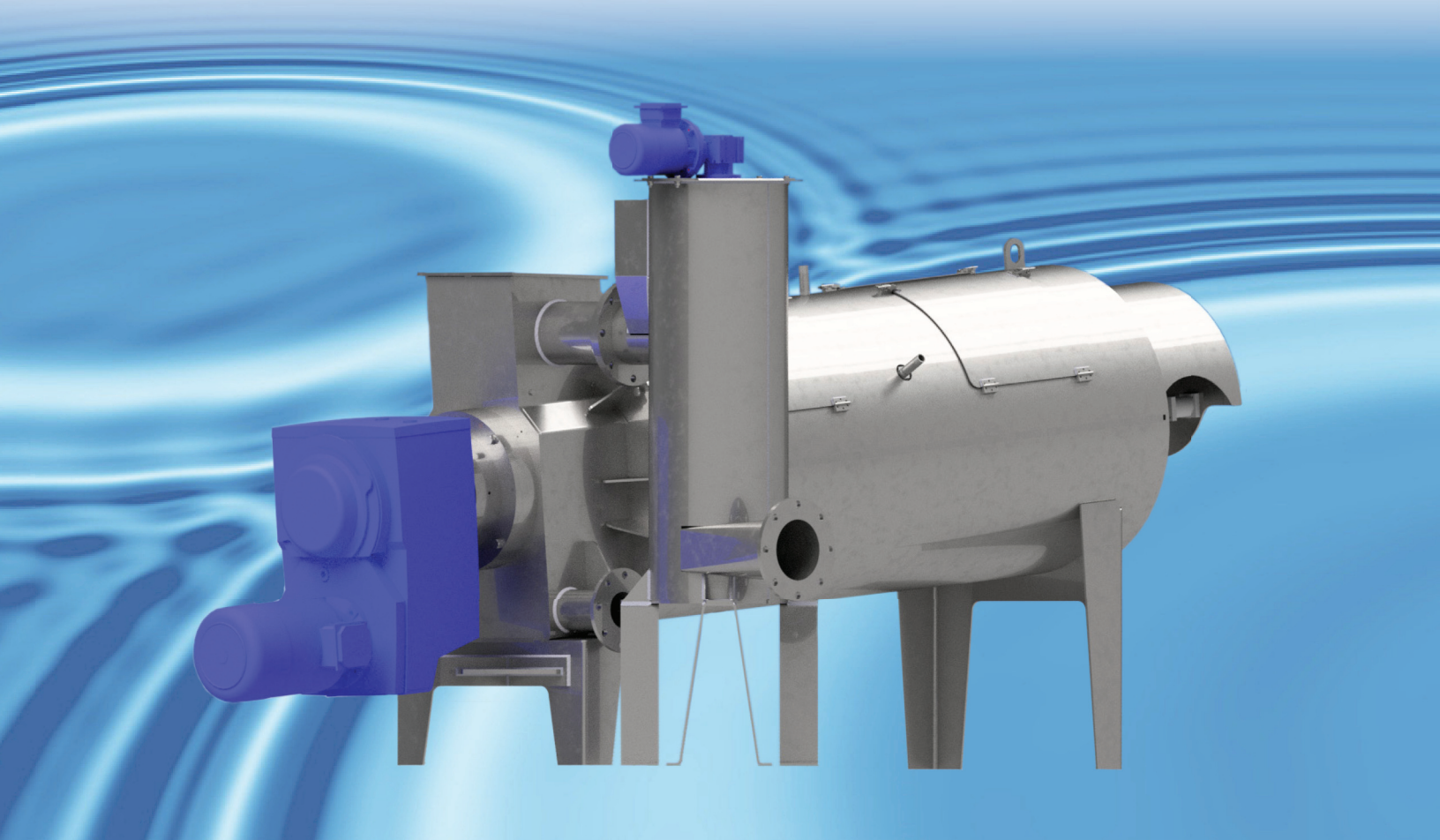
Specific materials require a certain screen type, shaft compression ratio, press length and RPM of the shaft. Through lab analysis or on-site testing with our portable test equipment, PT&M can determine the correct press design for each application.

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:

- Reduction of energy consumption
- Reduced polymer consumption
- Reduced maintenance cost
- High Capture rates
- Minimum water usage
- High discharge solids
- Reduced Odors compared to Belt Presses
- Pre-Thickeners not required
- Reduced operator attention



MS STYLE SCREW PRESS RESULTS

* Rates will vary per type of sludge

Cake Solids (%) Primary Raw	12 - 24%
Cake Solids (%) Anaerobic Digested	22 – 34%
Solids feed (%)	1 – 4%
Solids Capture	90 -98%
Polymer (lb active/dry ton)	15 – 30
Flow rates GPM per unit	1 – 150

Slotted Screen Basket

Pneumatic Driven Cone

Features of MS Style Screw Press

- Gradual Reducing Archimedes Screw
- Multiple sized perforated and slotted screen baskets
- 0.5 HP per dry ton
- Totally enclosed reduced odors
- 304 SS all wetted surfaces
- Pneumatic driven back pressure cone
- Automatic shower
- Shaft mounted gear reducer, low HP

PT&M
Press Technology & Manufacturing

1401 Fotler Street
Springfield, OH 45504
USA

937.327.0755 phone
937.327.0756 fax

Visit our website at:
www.presstechnology.com

MS600 Screw Press for Pilot Testing

Estimated Sizes and Capacities of MS Screw Presses

MS600	0.5 Dry tons @ 2% solids
MS1200	1.5 Dry tons @ 2% solids
MS1800	5 Dry tons @ 2% solids
MS2200	8.5 Dry tons @ 2% solids
MS2800	18 Dry tons @ 2% solids
MS3600	26.5 Dry tons @ 2% solids

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.