



VOLUTE™ DEWATERING PRESS

SCREW PRESS 2.0



COMPACT
INSTALLATION



FOR MUNICIPAL
& INDUSTRIAL
SLUDGES



ENERGY
EFFICIENT

PWTECH VOLUTE™ DEWATERING PRESS – COMPACT FOOTPRINT

Features Dewatering Drum Designed for Efficiency



A REVOLUTION IN MUNICIPAL AND INDUSTRIAL SOLIDS HANDLING

The Volute Dewatering Press is a groundbreaking advancement in municipal biosolids handling, offering a compact, efficient, and highly reliable solution for sludge dewatering. Originally developed in Japan and now used in thousands of installations worldwide, this revolutionary screw press features a Volute Drum that allows for a much more compact and efficient installation with significantly lower operator and maintenance requirements than other screw presses and more conventional dewatering technologies.

Because of the efficiency of the design, the Volute Press is particularly suited to dewatering thin sludges and can be installed to handle both wasting and dewatering duties – taking sludge as dilute as 0.1% solids directly from a treatment process, such as an oxidation ditch or clarifier, and producing a fully dewatered cake. The unique Dewatering Drum design is also useful when sludges have a high oil and fat content that would blind filter materials.

DEWATERING DRUM DESIGN

Standard screw presses have a static casing with openings to allow fluid release from the sludge that continually plug with the solids in the sludge. This results in an oversized, inefficient dewatering operation and maintenance-intensive cleaning systems. The superior design of the Volute Press Dewatering Drum consists of a casing made of rings that constantly move preventing plugging of the openings allowing for a much more compact and efficient dewatering operation while minimizing and simplifying maintenance requirements.

FULLY AUTOMATIC SYSTEM

The Volute Dewatering Press was developed to operate in unmanned treatment plants and is capable of starting up, operating and shutting down with no operator intervention. Standard controls for the Volute are supplied by PWTech to provide a full dewatering system that operates with a minimum of operator attention (pumps, polymer dosing, solids conveying, etc.).

KEY BENEFITS

- ✓ Compact Installation due to Volute Drum efficiency
- ✓ Up to 95% less power consumption than other dewatering processes
- ✓ Requires minimal maintenance
- ✓ No need for regular operator attendance
- ✓ Expandability and built-in redundancy
- ✓ High-quality filtrate
- ✓ Dewateres fatty and oily sludge, organic and inorganic sludges; thin <0.2% and thick >5% sludges



Learn
more.

ABOUT US

Process Water Technologies LLC (PWTech) is based in Rosedale, MD. Along with our flagship Volute technology for sludge dewatering and thickening, we supply sludge handling and CSO / SSO products that are simple, effective and easy to maintain.

Volute and the AMCON, Inc. logo are registered with the U.S. Patent and Trademark Office as trademarks of AMCON, Inc., Yokohama, Japan.

☎ 1.833.888.2651

✉ info@PWTech.us

💻 pwtech.us

PROUDLY REPRESENTED BY: