



# VOLUTE DUO™

## SCREW PRESS 3.0



HANDLES  
DIFFICULT  
SLUDGES



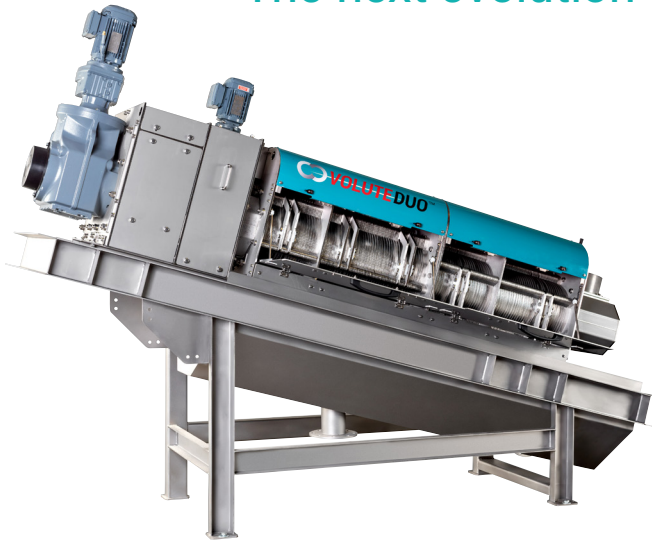
VIRTUALLY  
MAINTENANCE-  
FREE



COMPACT  
FOOTPRINT

# PWTECH VOLUTE DUO™ FOR DEWATERING DIFFICULT SLUDGES

The next evolution of Volute™ technology



## UNIQUE SCREW PRESS TECHNOLOGY

The Volute DUO offers all of the advantages of the Volute Dewatering Press but is specifically designed to handle sludges that other screw presses cannot. It features twin counter-rotating screws within a single drum to break up and move materials that typically bind and harden during pressing. This design enables full mechanical dewatering of even the most difficult sludges without compromising performance or risking operational failure.

## KEY BENEFITS

- ✓ Handles difficult fibrous and inorganic sludge
- ✓ Virtually maintenance-free
- ✓ Highest dewatering capacity screw press available
- ✓ No need for regular operator attendance
- ✓ Compact footprint like the standard Volute Dewatering Press
- ✓ Up to 95% less power consumption than other dewatering processes
- ✓ Completely enclosed, low noise, low odor
- ✓ Can deal with feed sludges from <0.2% to >8%

## DUO DRUM DESIGN

Typical screw presses have a casing around the screw with openings that allow fluid to escape from the sludge during pressing. However, if these openings are too small, they can become clogged with solids, reducing dewatering efficiency and requiring a larger press design. The DUO system addresses this issue by using a casing made of rings that continuously move, preventing wear points and cleaning the fine gaps to avoid clogging. This ensures efficient water release and prevents blockages during operation.

## LOW MAINTENANCE

Unlike the Volute Dewatering Press that utilizes the screw to move the rings, the Volute DUO has a separate mechanism to move the rings. This means that there is virtually no wear on the components of the DUO Drum and major overhauls are not needed for periods up to ~50,000 hours. Like the Volute Dewatering Press, the DUO requires very little operator attention other than periodic inspection and chemical replenishment. As a fully automated process, it controls the feeding of sludge, chemical make-up and dosing, flocculation, dewatering and handling of the dewatered product.

## 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.

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