



# BIOPURE® Screw Press Dewatering Machine

Smart • Compact • Continuous 24×7 Dewatering • Low Energy Consumption

## SYSTEM OVERVIEW & TECHNOLOGY

**BIOPURE® Screw Press Sludge Dewatering Machine** is an energy-efficient, fully automatic dewatering system designed for municipal sewage treatment plants (STP) and industrial ETP applications[cite: 1]. Utilizing a slow-speed screw extrusion mechanism with continuous self-cleaning multi-discs, it achieves up to 90% volume reduction with minimal power, low noise, and zero filter cloth replacement requirements[cite: 1].

✓ Self-cleaning multi-disc design prevents clogging and enables continuous, unattended 24×7 operation with low wash-water demand[cite: 1].

**0.5 - 60 m<sup>3</sup>/h**  
FEED CAPACITY RANGE

**18 - 30% DS**  
DRY CAKE SOLIDS OUTPUT

**SS304 / SS316**  
CORROSION RESISTANT MOC

## BIOPURE® SCREW PRESS DEWATERING UNIT



## ★ KEY SYSTEM ADVANTAGES



### Low Power

Requires only 0.5–5 kW power[cite: 1].



### Self-Cleaning

Anti-clogging multi-disc design[cite: 1].



### Low Wash Water

Minimal wash consumption[cite: 1].



### Low Noise

Quiet operation (<70 dB)[cite: 1].



### High Efficiency Sludge Volume Reduction

Eliminates routine filter cloth replacement while reducing sludge transport costs by up to 90%[cite: 1].



## PRODUCT RANGE SPECIFICATIONS

| MODEL NAME | SLUDGE FEED CAPACITY (M <sup>3</sup> /HR) |
|------------|-------------------------------------------|
| BWSP-101   | 0.5 – 2 m <sup>3</sup> /hr                |
| BWSP-201   | 2 – 5 m <sup>3</sup> /hr                  |
| BWSP-301   | 5 – 10 m <sup>3</sup> /hr                 |
| BWSP-401   | 10 – 20 m <sup>3</sup> /hr                |
| BWSP-501   | 20 – 40 m <sup>3</sup> /hr                |
| BWSP-601   | 40 – 60 m <sup>3</sup> /hr                |

## MULTI-DISC COMPRESSION MECHANICS



Multi-Disc Filter & Gradual Screw Compression Mechanics

## TARGET APPLICATION SECTORS



### Municipal

STP Biological Sludge[cite: 1]



### Industrial ETP

Chemical & Biological[cite: 1]



### Food & Dairy

High-Grease Sludges[cite: 1]



### Textile & Paper

Dye & Fibrous Sludge[cite: 1]