



SEPARATION

**EFFICIENT AND
ECONOMICAL
SLUDGE TREATMENT**

POWERDRAIN GRAVITY BELT THICKENER

ANDRITZ

ENGINEERED SUCCESS

Efficient and economical solution for sludge thickening

The PowerDrain is engineered and delivered by ANDRITZ Separation, a company with decades of experience in sludge treatment. It is a heavy-duty unit that operates in a size range of 5–20 m² drainage area. The large open area, special feeder, and adjustable ploughs optimize the drainage effect. There is easy access for maintenance and cleaning. ANDRITZ Separation has the expertise and experience to customize the PowerDrain and its auxiliaries for any sludge treatment application.

VARIOUS MODELS



PowerDrain Mini

Throughput up to 30 m³/h. Works well in combination with PowerPress G and PowerPress E type dewatering belt presses.



PowerDrain M & L

Throughput up to 90 m³/h.



PowerDrain XL

Throughput up to 180 m³/h. One of the highest capacity and active surface for any belt thickener.

YOUR BENEFITS

- Modular design for ease of configuration and installation
- Quick and easy installation leads to fast start-up
- Rugged and reliable construction
- Uniform feed and flow for trouble-free performance
- Flexible operation (variable-speed drive)

OPERATION

After the sludge is flocculated in the feeding pipe, it enters the gravity zone where most of the liquids and solids are separated. A spreader plate ensures uniform distribution over the working width of the belt. PowerDrain units can be equipped with two to four rows of ploughs which compact, rearrange, and deflect the sludge. The thickened sludge is scraped from the belt. The filtrate is discharged on the drive side. A washing chamber with flat jet nozzles cleans the belt. As an option, the spray bar can be equipped with a selfcleaning device. The thickened sludge is now ready to be processed by dewatering equipment.

MAIN APPLICATIONS

- Thickening before a filter press
- Thickening of municipal or industrial wastewater sludge
- Thickening in small wastewater treatment plants
- Thickening before anaerobic digestion
- Dewatering (when combined with PowerPress)

Your full-service provider

With ANDRITZ Separation, you gain access to one of the world's largest OEM manufacturers for solid/liquid separation systems, including such well-known brands as 3Sys Technologies, Bird, Delkor Capital Equipment (Pty) Ltd., Escher Wyss dryers, Frautech, Guinard Centrifugation, KHD Humboldt Wedag, Krauss-Maffei centrifuges, dryers, and filters, Lenser, Netzsch Filtration, Rittershaus & Blecher, Royal GMF Gouda, Sprout Bauer, and Vandenbroek. Whether you need spare parts, rentals, local service, repairs, upgrades, or modernization of your equipment,

ANDRITZ Separation is your true full-service provider. From initial consulting through to service agreements, process optimization, and training programs, we are always looking for ways to minimize downtime and increase predictability in operations while raising your overall production efficiency. Wherever you operate, our network of 550 service specialists and global service centers ensures we'll always be there to support you for many life cycles to come. Let's sit down and see how we could take your operations to the next level.



LOCAL SUPPORT



REPAIRS & UPGRADES



SECOND-HAND & RENTALS



TRAINING



OEM SPARE PARTS



SERVICE AGREEMENTS



PROCESS OPTIMIZATION



LAB AND ON-SITE TESTS





WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

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