



EFFICIENT AND ECONOMICAL SLUDGE THICKENING

PowerDrain gravity belt thickener

The ANDRITZ PowerDrain is a heavy-duty gravity belt thickener built on decades of sludge treatment expertise. Available with drainage areas from 5 to 20 m², it combines a large drainage zone, a specially designed feed system, and adjustable ploughs, maximizing thickening efficiency.

Its many benefits make it an ideal solution for efficient sludge treatment:

- Modular design for easy configuration, installation, and maintenance
- Quick and straightforward installation for rapid start-up
- Robust design for reliable operation
- Uniform sludge feed and flow for trouble-free operation
- Flexible operation with variable-speed drive

ANDRITZ

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 self-cleaning device. The thickened sludge is now ready to be processed by dewatering equipment.

VARIOUS MODELS



APPLICATIONS

ANDRITZ offers customized PowerDrain versions and auxiliary equipment for a wide range of sludge treatment applications:

- Sludge thickening before filter presses or anaerobic digestion
- Small wastewater plants as well as municipal and industrial sludge
- Dewatering when combined with a belt press

PowerDrain Mini

Throughput up to 30 m³/h. Works well in combination with PowerPress G and SME-Q dewatering belt presses.

PowerDrain M & L

Throughput up to 90 m³/h. Intermediate model already equipped with a belt tracking system to significantly increase belt lifetime.

PowerDrain XL

Throughput up to 180 m³/h. One of the highest-capacity belt thickeners with one of the largest active surfaces available.

CONTACT

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