

# Sludge handling

Instruments for future cost savings



# The challenge: Reducing sludge disposal costs

Industrial sludges can be disposed of in three basic ways: landfilling, incinerating, or land-spreading. The total dryness of the sludge has a direct impact on the method chosen and also on the sludge handling costs.

Increasing sludge dryness ...

- Reduces transportation and disposal costs (landfilling and land-spreading)
- Reduces fossil gas consumption (incinerating)

With this in mind, you can realize significant savings by taking a closer look at your sludge handling equipment!

**Simple upgrades to your sludge handling equipment can increase dryness and save you money:**

	Current situation	Improved dryness	Savings
Production	100 bdmt/d		
Consistency	50%	52%	<b>2 %</b>
Total weight	200 t/d	192 t/d	<b>8 t/d</b>
Disposal costs	50 EUR/t		
Total disposal costs per day	10,000 EUR/d	9,600 EUR/t	<b>400 EUR/d</b>
Total disposal costs per year (350 day/a)	3.5 MEUR/a	3.36 MEUR/a	<b>140,000 EUR/a (11.666 EUR/month)</b>

A sample of our customer's operating experience  
**Payback time can be less than 4 months!\***

\* Additional benefits please see in the blue box on the right side.

# The solution: ANDRITZ engineered services for sludge dewatering

**ANDRITZ upgrades for the sludge handling plant:**

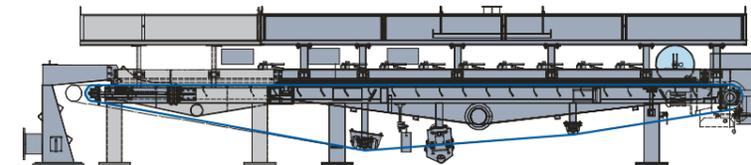
- Lengthening the existing gravity table
- Supplying a gravity table (or adding tables)
- Adding a floating roll
- Installing improved S-Roll and/ or S-Nip rolls
- Increasing the number of press nips
- Installing external press module
- Installing Polyscan (polymer dosing system)

**Our services are targeted to help you to...**

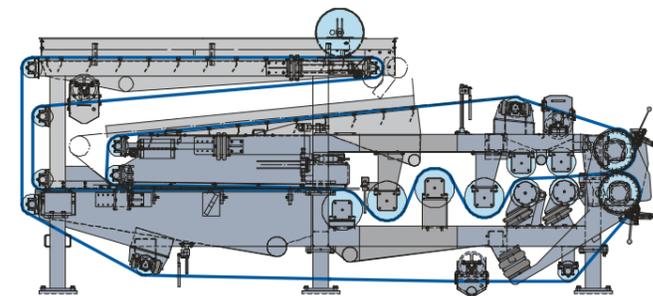
- Reduce sludge transportation and disposal costs
- Increase the total capacity and outlet dryness of your sludge plant
- Reduce energy consumption
- Reduce polymer consumption

## Your benefits

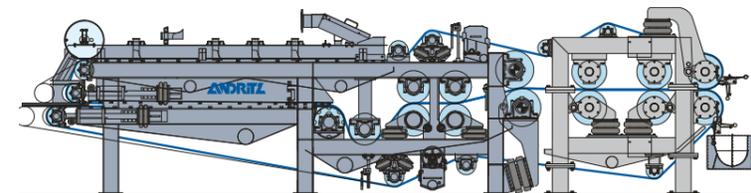
- Higher constant outlet dryness and production rates
- Better production efficiency
- Reduced sludge transportation and disposal costs
- Reduced energy consumption
- Accelerated economic payback
- High reliability
- Well-engineered and proven solutions
- Easily operated and maintained



▲ Gravity table elongation and floating roll



▲ Installation of additional gravity table and additional S-nip



▲ Continuous pressure filter including external basis press module with 3 press nips



▲ Complete service for sludge screw presses



Upgrade of Stora Enso Hylte's sludge plant (2007)

*"Working with professionals certainly made the project achievable in a relaxed yet fast-paced atmosphere."*

Tommy Johansson, Deinking Technician at Hylte Mill.

# Sludge handling

## Service and products at first hand

ANDRITZ PULP & PAPER is a full-line supplier to the pulp and paper industry. We apply this full range expertise to every project – whether we are assisting you with a simple retrofit or providing complete machine upgrades. This ensures that everything will work together as promised and in the most efficient way. If you need a partner concerning sludge handling ANDRITZ can help with a huge variety of upgrade products and long experience in service.

### The ANDRITZ portfolio

- Service
- Spare parts
- Wear parts
- Used machines
- Rebuilding
- Upgrades
- Audits
- Service contracts



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