



## Haarslev Sludge Drying Concept

Discover the solution for industrial and/or municipal sludge pile-ups. The highly efficient system of the Rotadisc drier.

It's simply ideal for adhering materials that are difficult to dry.

A system of scrapers and paddles prevent accumulation on heating surfaces by gentle mixing of the product. High thermal effectiveness is achieved by uninterrupted contact between the material to be dried.

The Rotadisc stands out due to its ease of use, low maintenance and ideal size and length ratio.

The many Rotadisc driers

delivered worldwide prove the efficiency this system offers in terms of output, space and energy expenditure.

Our laboratory and test driers are available for testing purposes of the performance.

Tell us about your requirements and we will provide you with a solution covering your exact needs.

### **Haarslev Industries**

Since the acquisition of Atlas-Stord A/S in 2006 we have integrated the drier programme of Atlas-Stord in the Haarslev range of driers. Sharing know-how and experience enable us to develop and optimise

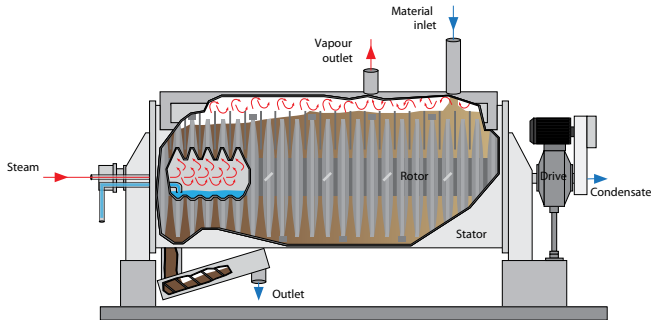
machine and process design.

Our solutions are designed for improved product quality, reduced environmental impact and energy consumption.

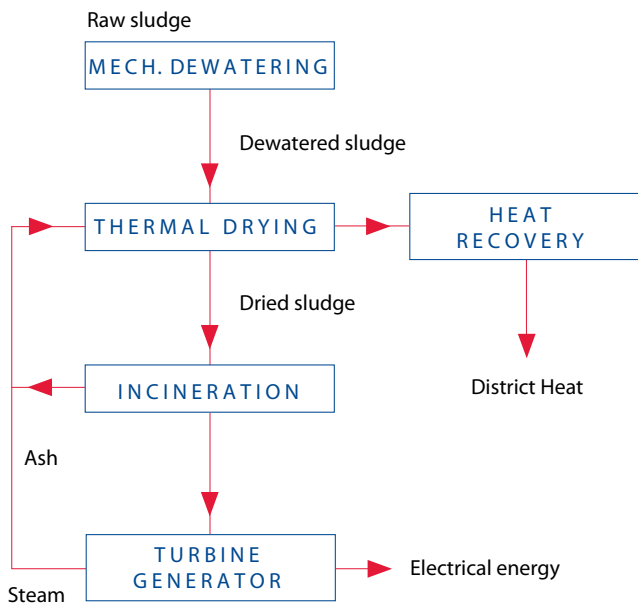
# ROTADISC® Drying of Sludge

## Part Drying

PART DRYING



## Mass Balance

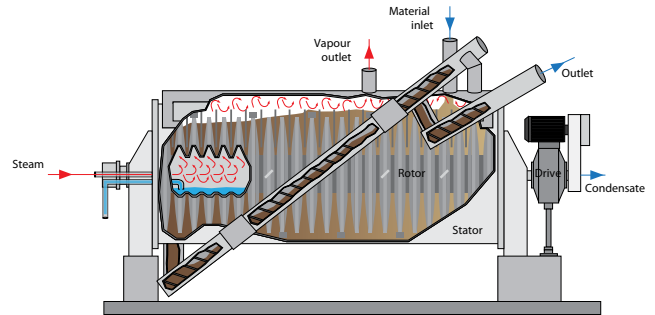


## WWTP Lynetten Denmark

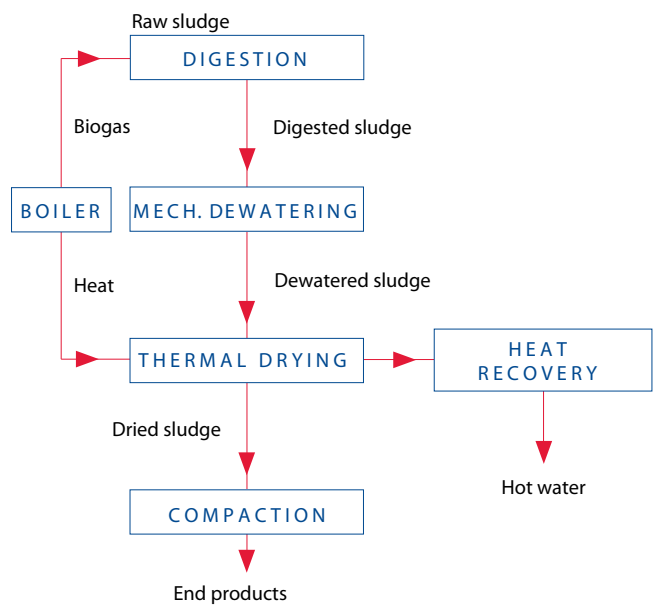


## Full Drying

FULL DRYING



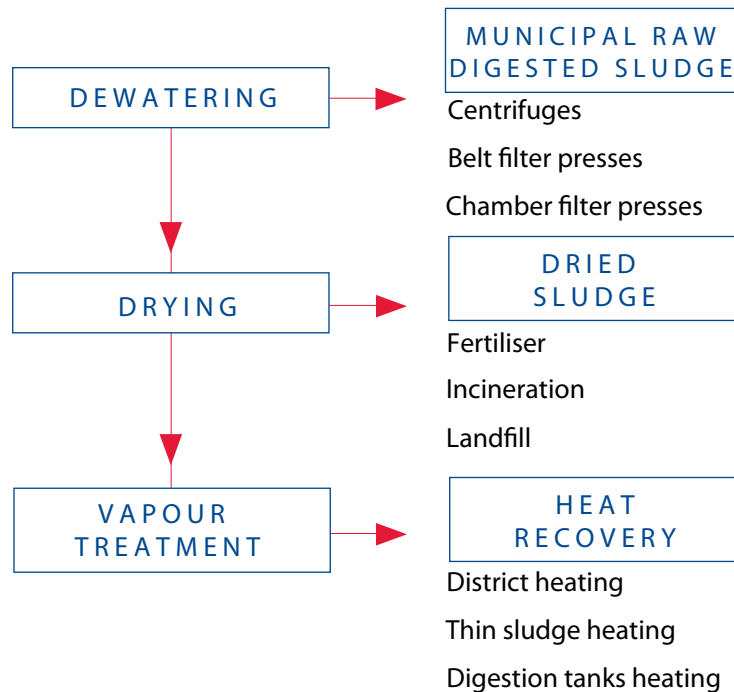
## Mass Balance



## WWTP I.V.A.R. Norway



# A Dry Theme with Interesting Prospects



## Why choose the Rotadisc®?

- Custom designed end product: paste, powder, granules or large briquettes
- Self-cleaning rotating heating surface even with difficult sludges
- Easy operation - one slow rotating part
- Simple system, low maintenance
- Safe system - inert drying
- Compact design resulting in minimal building requirements
- Supreme energy efficiency - due to a minimum of heat loss
- High recovery of heat from drier exhaust vapour
- Proper hygenisation.
- High availability due to superb reliability
- Easily automated, resulting in a minimum of operator attendance
- Low consumption of electric power, steam, lubricants and spare parts
- Low cost + long life

Thermal dewatering of sludge is now used in a large number of applications, ranging from partial dewatering of sludge prior to incineration to full drying of sludge up to 95% DS. In each case the heart of the process is the Rotadisc® drier. Due to its unique construction the Rotadisc® can easily be converted from drying a paste to drying a powder.

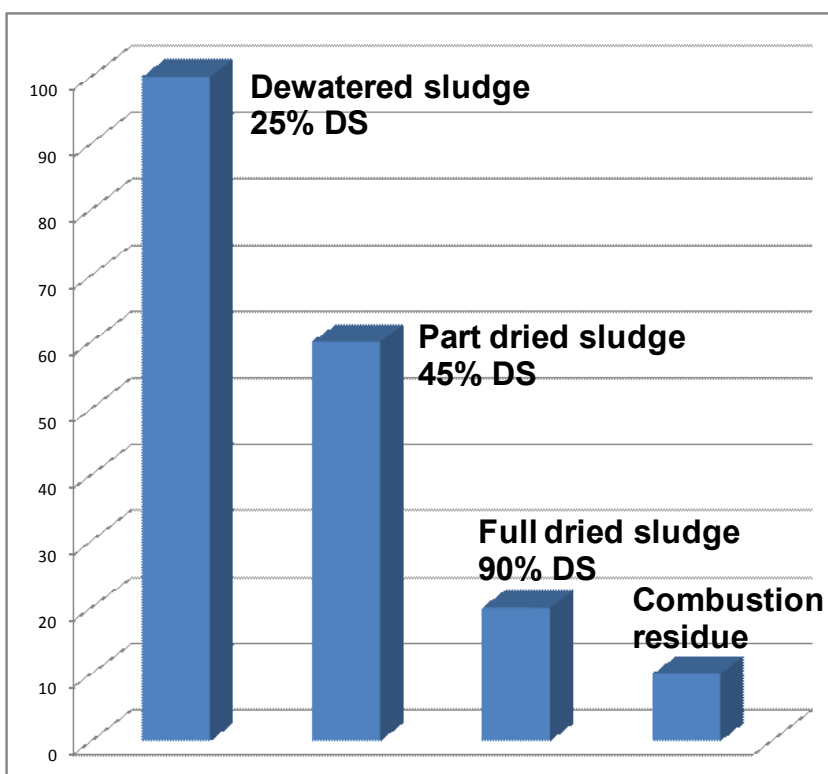
## References

More than 1200 Rotadisc® driers have been sold for various applications throughout the world. About 10% of these driers are now in operation for various sludge drying applications.

## Dried product

The output from the Atlas-Stord Rotadisc® drying system is designed to suit most applications. This means that the product can be formed to paste, powder, granules, pellets or briquettes of any designed size, allowing a great variety of applications of the dried sludge. Key figures for the dried sludge ( per kg DS):

**N:** 2-4%      **P:** 1-3%      **K:** 0,1-0,3% on a dry matter basis  
 Colorific value: Undigested: 12500 kJ Digested: 8300 kJ (Coal: 29000 kJ)



We reserve our right to alter the specifications at any time without prior notice.

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