

## CELLULOSIC SLUDGE HANDLING AND DEWATERING

AARLE-RIXTEL WWTP, NETHERLANDS



2x SPIROPRESS<sup>®</sup> 315 (customized) & 2x receiving U420 conveyors



U420 outloading conveyor

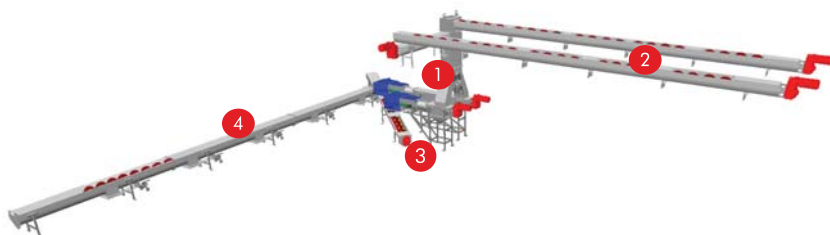
### APPLICATION DETAILS

An increase in sewage at the wastewater treatment plant in Aarle-Rixtel, made it necessary to upgrade the plant to boost capacity. Instead of a costly traditional expansion BWA chose a more sustainable solution.

They installed ten fine screens that retrieve 5.000kg of cellulose fibers daily. This screening process relieves the purification process and allows more sewage than previously to be handled. The cellulose recovered from toilet paper is captured in large containers and can be recycled.

### SOLUTION

SPIRAC in collaboration with BWA was asked to provide a system that can handle cellulosic sludge from toilet paper tissue from 10 belt screens and dewater them from 8% Dried Solids (DS) to 30 - 50% DS. The customized SPIROPRESS<sup>®</sup> (SP) 315 is able to dewater 2m<sup>3</sup>/hr and has got a max. capacity to handle 17,5m<sup>3</sup>/hr. without dewatering.



### SPIRAC PRODUCTS USED

1. 2x SPIROPRESS<sup>®</sup> SP315 customized
2. 2x U355 receiving shaftless conveyors
3. U420 transfer conveyor
4. U420 outloading shaftless conveyor



SP315 customized Presshead



Compressor with valves to control the pneumatic cylinders



Toilet tissue from screen receiving inlet



Auma controlled slide gate