

# HYDREUTES S.A.U. – TSURUMI ESPAÑA TANNERY PLANT

Navarra, Spain

<b>EQUIPMENT</b>	Multi-Disc Screw Press Dehydrator MDQ-352C(1)
<b>TYPE OF SLUDGE</b>	Tannery wastewater treatment process
<b>INITIAL SLUDGE AMOUNT</b>	12 m <sup>3</sup> /day
<b>DS LOAD</b>	1200 kg DS/day
<b>DS CONCENTRATION</b>	10%
<b>START OF OPERATION</b>	July 2019

## ISSUE

Sludge from the tannery production waste water treatment plant was filtered with use of a chamber filter press. A large amount of lime used along with complex operation and low automatization level have led to dissatisfaction and search for another dewatering technology. Additional aspect to consider was the future plans for the tannery plant capacity increasement, that the new dewatering solution should be able to deal with.

## SOLUTION

After pilot tests, which were performed in January 2019, Multi-Disc Screw Press dewatering technology was selected for renovation. MDQ unit showed high productivity and dewatering efficiency at the same time with good quality of the filtrate.

A unique feature of MDQ is the ability to increase productivity by installation of additional screws. Taking into account future increasement in productivity, the MDQ-352C(1) with one screw and a free slot for the second one was offered to the Customer with perspective extension to MDQ 352. This has allowed the Customer to reduce initial CAPEX.

In July 2019 the new dewatering system based on Multi-Disc Screw Press Dehydrator MDQ-352C(1) has been commissioned under EKOTON expert's supervision.

## RESULTS

<b>CURRENT UNIT'S DS PRODUCTIVITY</b>	150-180 kg DS/h
<b>CAKE DS CONCENTRATION</b>	35 %
<b>OPERATION MODE</b>	6-8 h/day
<b>AVERAGE POLYMER DOSE</b>	4,5-7 kg/1000 kg DS
<b>DS CAPTURE RATE</b>	99,6-99,9 %

