

## PARTICULARLY FOR SMALL SEWAGE PLANTS: ACAT Screw Press for Everyone



Until now for sewage treatment plants with a capacity below 10.000 PE no economic solution for an own sludge draining plant was available.

In the course of a project study of small municipal sewage treatment plants ACAT has intensively dealt with this issue and based on the results of this research we have developed a sludge draining plant, which fulfills all requirements:

- low investment costs
- easy handling
- suitable for unattended 24-hour operation

- high degree of operational reliability
- the working parts which need to be replaced is kept to a minimum
- lowest efforts in operating and maintenance

The system technology which has been available until now and the associated investment costs, prompted the decision to have the sludge commission dewatered in other plants, with the well-known problems (short-time heavy load of filter with return sludge, scheduling difficulties, cost etc.)

## PARTICULARLY FOR SMALL SEWAGE PLANTS: ACAT Screw Press for Everyone



*Screw press type AS 0250 is developed especially for plants of 500 up to 10.000 PE*

We are convinced we offer a solution with the ACAT screw press type AS 0250, developed especially for these applications (plant of 500 up to 10.000 PE) This small screw press combines all the existing benefits of dewatering technology, which is already well positioned in the market.

The complete dewatering system (dewatering performance is 0,5 to 1,5m<sup>3</sup>/h depending on sludge quality) is installed on a base frame and is delivered with all required additional components to the customer where it can be put into immediate operation. The system designed for unmanned continuous 24-hour operation and with the slow working speed (approx. 1rpm) wear is minimized.

### **ACAT screw press: General Information**

#### **• Fully automatic and continuous dewatering**

Depending on sludge quality in municipal sewage plants with throughputs of 0, 5 to 1, 5 m<sup>3</sup>/h dewatering results between 18% and 24% dry solids can be achieved. The dewatered sewage sludge is discharged from the screw press into a container placed below or it is transported to a sludge pit with an automatic conveyor system.

#### **• Low maintenance**

The slow speed screw (speed 0,5 – 1,5 rpm) and the fix-mounted dewatering screens guarantee low wear costs (only few mobile parts).

## PARTICULARLY FOR SMALL SEWAGE PLANTS: ACAT Screw Press for Everyone

### • *Easy START / STOP Operation*

The low working speed and the torque resulting from it allow stopping the screw press at any time without restarting rinsing immediately.

### *Advantages of the ACAT screw press:*

- continuous, safe and fully automatic operation
- noise level < 60dB(A)
- low wear (speed < 2 rpm)
- long working life
- ready accessibility for maintenance purposes
- very low electric drive power (approx. 3 kW for the total sludge draining )
- all product-contacting parts are designed in stainless steel 1.4301

### *Standardized Equipment Versions:*

- compact design of the complete sludge dewatering equipment on a base frame
- compact design of the complete sludge dewatering equipment on a two-axle trailer (for transport by car)
- compact design of the complete sludge dewatering equipment in an isolated 15 foot Container
- Optional: double throughput by installing two screw presses on one unit

For further information or if you are interested in a concrete proposal for one of our screw presses please contact an assistant of the ACAT- plant engineering department.