

PLANT REPORT



Reception of imported sludge at WWTP Stuttgart SAX 4004-4008

On Stuttgart main sewage plant SAXLUND an additional way of waste disposal for communal sewage sludge has been created. The imported sludge and internal sludge were dried and burnt in a Mono incineration plant. SAXLUND has provided the complete storage, discharging, conveying and metering facilities.

The imported sludge cake is delivered by tipping truck to a reception bunker equipped with SAXLUND Push Floor Discharge. It is fed efficiently via the combined discharge/pre-press screw to the two SAXLUND Duplex Solids Handling Pumps.

The pumps convey the sewage sludge to the storage silo. From the storage silo, the sewage sludge is pumped via the reliable SAXLUND Sliding Frame discharge and Solids Handling Pump via distributor valves into dryers.

For the protection of following machines a foreign body separator is installed in the pressure pipeline and retains foreign parts exceeding 30mm.

To prevent loss of pressure, the long piping has been fitted with a lubricant dosing device.

Every silo is fitted with a continuous level indicator and a frost protection

Another special feature of this plant is that you can pump with both reception pumps in the silo with high conveying capacity as well as directly in the drying with a high conveying pressure.

TECHNICAL DATA:

Year of construction	: 2012
Material	: sewage sludge
Bulk density	: 1000 kg/
Dry solids content	: 22..40 %

Reception silo (rectangular) with Push Floor Discharge

Silo capacity	: 100 m ³
Discharge rate	: 2x 30 m ³ /h
Discharge/pre-press screw, type	: 2x DDA

2-Cylinder Solids Pump

Duplex Solids Handling Pump, type	: SPx 2250-1500
Conveying capacity	: 30 m ³ /h
Conveying pressure, max	: 40 bar
Motor rating	: 110 kW
Pipework, DN200 PN100	: 2x40 m

Circular Storage Silo with Sliding Frame Discharge

Silo capacity	: 500 m ³
Discharge rate (variable)	: 16 m ³ /h
Discharge screw, type	: DA



The especially foreign sludge developed for large quantities Duplex Solid Handling pump with free cross-sections in the entire loading range of 250 mm combines the advantages of the switch pumps and valve-controlled pumps. Extremely low wear and high availability features of this pump types

2-Cylinder Solids Pump

Solids Handling Pump, type : SP 2180-1000
Conveying capacity (variable) : 16 m³/h
Conveying pressure,max. : 80 bar
Motor rating : 110 kW
Pipework, DN200 PN100 : approx. 100 m



www.saxlund.de

Germany:
Saxlund International GmbH

Heidberg 1, 4 + 5
29614 Soltau-Harber
Tel.: +49 (0) 51 91/98 11-0
Fax: +49 (0) 51 91/98 11-39
E-Mail: info@saxlund.de

Companies and Agencies

Great Britain
Sweden

Other products for silo and conveying technology:

- **Saxlund Int. Sliding Frames**
- **Saxlund Int. Push Floors**
- **Tubefeeder®**
- **Saxlund Int. Rotors**
- **Saxlund Int. Solids Handling Pumps**
- **Troughed Chain Conveyors**
- **Screw Conveyors**
- **Elevators**
- **Rotary Valves**
- **Combustion Plants**
- **Control Systems**

