

Farnham STW

Storage Silo with Sliding Frame Discharge



The Thames Water Trident Alliance chose Saxlund International to supply this prestigious and unusual limed sludge cake handling system at their Farnham site. Because of a maximum building height on the site and since the silo had to store 800m³ of limed cake material, it was necessary to supply a silo with an 11 meter diameter. To achieve this, Saxlund chose their patented two element Sliding Frame discharge machine - the largest ever constructed for such an application. It was not possible for the collection truck to drive beneath the silo as would normally be the case. A large chain conveyor was therefore supplied to transfer the limed cake from the twin screw arrangement beneath the silo's flat floor and up to the truck loading position within a gantry. The control system was also within the scope of works.



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Here at Saxlund, we thrive on being at the forefront of the bulk solids handling and storage industry. Our dedicated team of professionals are constantly developing new machinery and components, to ensure we give you the customer the best quality possible and keep Saxlund the industry standard.

Over the last 50 years our group have had constant demand from companies worldwide. We offer a complete solution - bespoke design, construction, commissioning and comprehensive "after-sales" support.

Our specialist knowledge, with particular expertise in flat bottom silos and bunkers, can be applied to bulk materials and alternative energy solutions for industries including cement, bioenergy, wastewater and recycling.

Technical Data

Saxlund project ref. no.:	SUK 1038
Year of construction:	2005
Material:	Limed Sewage Sludge Cake
Bulk density:	1000 kg/m ³
Dry solids content:	25 - 35%
Specification	
Filling rate:	15m ³ /hr into silo
Discharge rate:	100m ³ /hr into trucks
Equipment:	
1 x Silo Feed Chain Conveyor	
Type:	TKF 500
Length:	24000 mm
Rate:	15 m ³ /hr
Motor rating:	7.5 kW
1 x Limed Sewage Sludge Cake Storage & Truck Loading Silo with Sliding Frame Discharge Machine (patent)	
Silo diameter:	10866mm
Silo capacity:	1186m ³ gross
Sliding Frame type:	GL-11000-SXX-2DA
Hydraulic cylinder diameter:	2 x 220mm
Hydraulic power pack	
motor rating:	2 x 22 kW
Tank capacity:	400 litres
Discharge screw conveyor type:	DA 500
Length:	5765mm
Discharge screw motor rating:	15 kW
1 x Truck loading Chain Conveyor	
Type:	TKF1200
Length:	18000mm
Rate:	100m ³ /hr
Motor rating:	15 kW

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