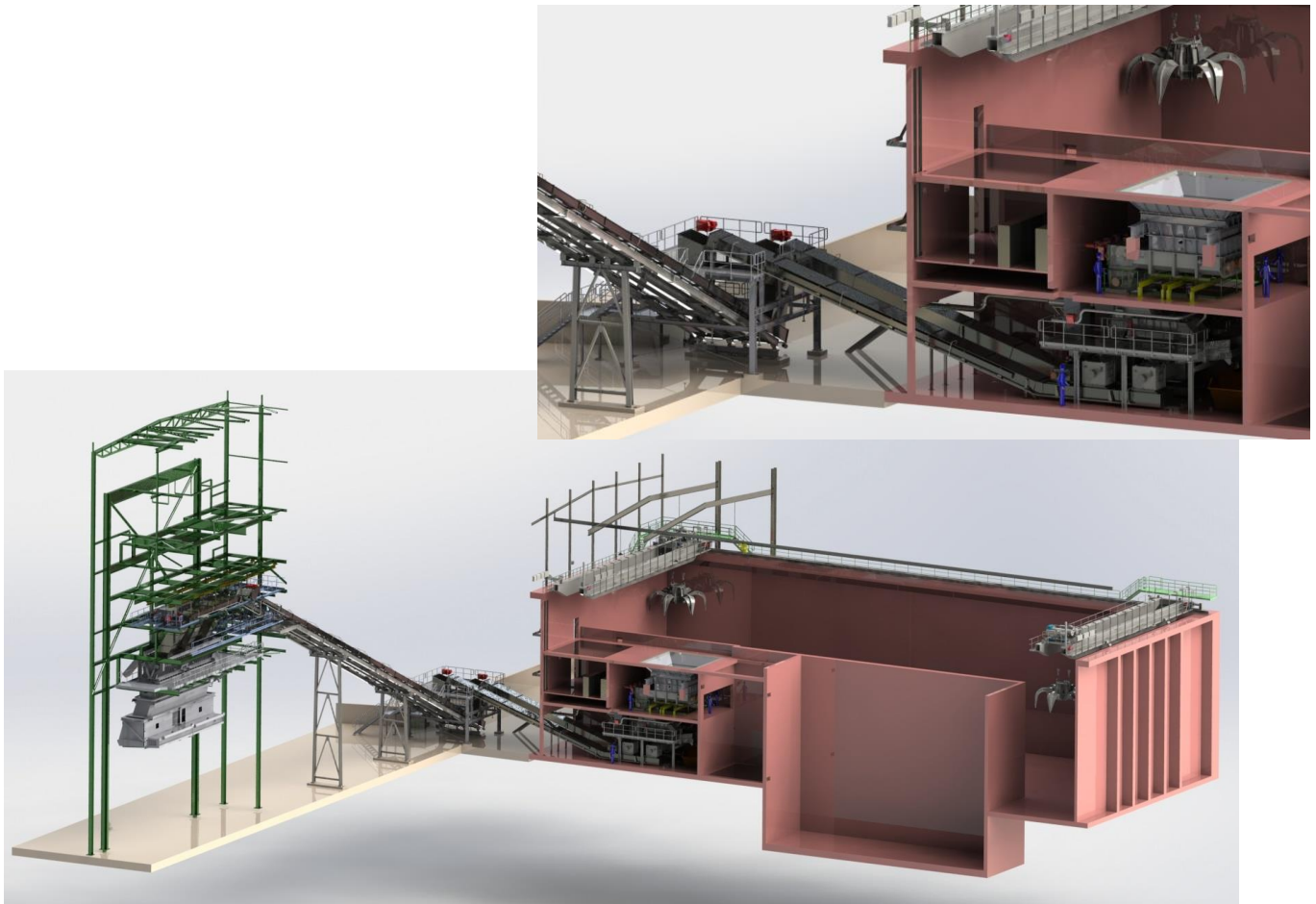


PLANT REPORT



Biomass power plant in Teesside Great Britain

SAX 4200-4201



TECHNICAL DATA:

| | |
|----------------------|------------------------------|
| Year of construction | : 2017 |
| Material | : Wood chips from wood waste |
| Bulk density | : 185-300 kg/m ³ |
| Particle Size | : P63 |
| Humidity | : 15...35 % |

2 Portal cranes

| | |
|----------------|-----------------------------------|
| Wheel base | : 25000 mm |
| Conveying rate | : 420 m ³ /h per crane |

1 Receiving funnel with Discharging Screw

| | |
|--------------------------|-------------------------|
| Silo capacity | : 52 m ³ |
| Discharge rate | : 184 m ³ /h |
| 4 Discharge screw, type | : DA |
| 1 Collection screw, type | : TM |

Babcock & Wilcox Vølund built a biomass power plants in the North-East of England for waste wood with a heat output of 125 MW. For this purpose, SAXLUND supplies the conveyor systems from the storage with 2 portal crane systems and the entire conveying path into the boiler.

The shredded waste wood is delivered by truck. Two portal cranes distribute the fuel in storage and supply the receiving bin.

A screw bottom underneath the funnel discharges the material and feeds it to a disk separator.

1 disk separator

Conveying rate : 184 m³/h
Width : 1200 mm

2 Distributor screws

Conveying rate : 184 m³/h per screw
Screw type : TAZ mm

2 Through Chain Conveyor lines with steel structures

Wheel base : 26000 mm, 0°-18°
Wheel base : 52100 mm, 25°
Wheel base : 19400 mm, 25°-0°
Conveying rate : 184 m³/h
Trough width : 1200 mm
Chain conveyor : 2 Strand forked strap
Drive rate : 9,2 kW; 22 kW; 11 kW

The material flow can be bypassed by means of a distribution flap in the bypass chute.

Screw conveyors distribute the wood chips to one of the two conveyor lines, each consisting of 3 trough chain conveyors.

The wood chips are conveyed from the storage building into the boiler house via the trough chain conveyors and distributed to the boiler feed funnel on three points each.

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Companies and Agencies

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Products for silo and conveying technology:

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

