



PLANT REPORT



Slough Heat & Power

Push Floor

Slough Heat & Power supply electrical power and some district heating within the Slough Trading Estate area. They have an existing boiler plant but have recently installed a new boiler dedicated to burning waste materials. This waste is largely shredded and partially densified paper, cardboard and plastics. This is stored in a Saxlund Push Floor bunker mounted at ground level so it can be loaded either from tipping vehicles that drive onto the Push Floor area or from overhead conveyors. The machine discharges on demand at a metered rate to the boiler bunker via a system of conveyors. The plant is operated by an SH&P subsidiary called Fibre Fuel Ltd.

Saxlund products for silo and conveying technology:

Solids Handling Pumps ● Troughed Chain Conveyors

Screw Conveyors ● Combustion Plants

Sliding Frames ● Control Systems

Push Floors ● Rotary Valves

Elevators ● Tubefeeders





Slough Heat & Power

TECHNICAL DATA

Saxlund project ref. no.:	SUK 1022
Year of construction:	2002
Power Station Output:	10MWe
Material:	Shredded waste
Bulk density:	120 - 320 kg/m ³
Humidity:	15%
EQUIPMENT	
1 x Push Floor (Long)	
Type:	ZB
Number of Push Floors:	4
Length x width:	approx. 19685mm x 1507mm
Pusher bar profile:	150mm x 30 mm
Discharge capacity:	max. 41m ³ /hr each push floor
Hydraulic cylinder type:	220 dia. x 110 rod x 700 stroke x 90 pin
1 x Push Floor (Short)	
Type:	ZB
Number of Push Floors:	3
Length x width:	approx. 11806mm x 1507mm
Pusher bar profile:	150mm x 30 mm
Discharge capacity:	max. 41m ³ /hr each push floor
Hydraulic cylinder type:	180 dia. x 90 rod x 700 stroke x 90 pin
HYDRAULIC POWER PACK	
Capacity of oil reservoir:	500L
Drive Capacity:	22kW (Long) and 18.5kW (Short)
Pump Capacity:	65 l/min (Long) and 46 l/min (Short)
Max. Pressure:	200 bar

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