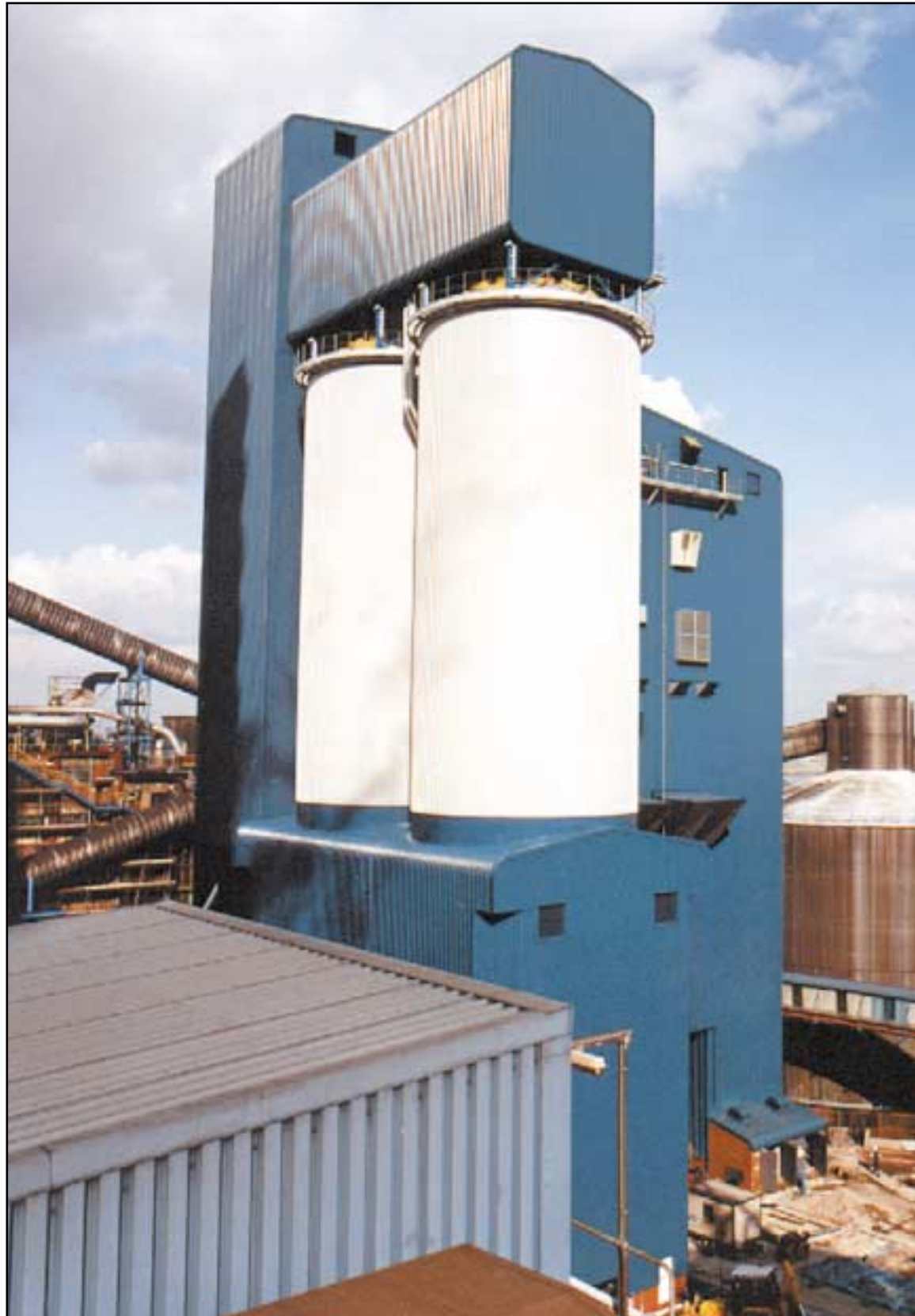


**Project  
Profile**

**Tate & Lyle Sugars,  
Thames Refinery,  
London.**

®  
Portasilo



**Portasilo Bulk Handling Systems has completed a £2.9 million sugar storage and handling system for Tate & Lyle Sugars, at the Thames Refinery, Silvertown, London Docklands to the most stringent storage, mass flow, conditioning and bulk loading criteria.**

**Portasilo's contract formed part of one of the biggest schemes ever undertaken at Thames Refinery, an expansion programme which totalled £15 million.**

The Portasilo scheme centred on two, site-built 2500 tonne capacity sugar storage and conditioning silos, of mass flow design, capable of taking granulated sugar from process at 125 tonnes/hour with temperatures between 40-50°C and high relative humidity levels. These are the largest steel fabricated sugar storage vessels in the UK. They have been designed to discharge on a mass flow principle ensuring a controlled discharge of sugar on a first in, first out basis.

The stainless steel mass flow cones for the silos are currently the only ones in the world on silos of such a capacity, handling such a difficult product as sugar. The success of this ingenious design confounded all the predictions of the specialist design consultants.

Portasilo's contract included extensive mechanical handling equipment and instrumentation for each of the sugar silos and process vessels. These included sugar conditioning plant, discharge conveyers and rotary valves, continuous level detection equipment and instrumentation for continuous monitoring of pressure, temperature, humidity and movement. Further associated areas of equipment, designed, manufactured, installed and commissioned by Portasilo included loading, dust and distribution hoppers, each designed to provide fast, predictable flow.

Now proven in successful operation, the Portasilo plant had both to fulfil exceptionally

demanding design criteria and be operational within a strict project timescale, on a tightly confined site and while existing production remained operational 24 hours/day, throughout the project. All this was achieved using Portasilo's extensive site-building capabilities and with a multi-disciplined Portasilo project team working closely and effectively with the Client's own staff.

This project, successfully completed for a client of Tate & Lyle's stature, emphasises Portasilo's design and manufacturing capabilities, in world markets, for large capacity bulk materials handling systems.



# Portasilo<sup>®</sup>

## Bulk Handling Systems

**Find out how Portasilo can solve your bulk handling and storage problem by contacting The Sales Manager**

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