BRUKS Siwertell
BULK HANDLING & WOOD PROCESSING



SIWERTELL SHIP UNLOADER - INDONESIA

SIWERTELL SYSTEMS KEEP INDONESIAN CHEMICAL PLANT CONTAMINATION-FREE

PT Asahimas Chemical required a ship unloading system capable of securing clean, high-capacity coal handling at its import terminal in Cilegon, Indonesia. The coal is destined for the company's new power-generation facility, which delivers energy to its chemical plant.

Challenge

PT Asahimas Chemical required an extremely high-capacity installation to handle the intake of coal necessary to meet the chemical plant's energy demands. Coal, of all grades, is supplied on barges, so any system needed to be able to unload these efficiently.

The operator also needed a dust-free environment, because any significant amount of coal dust would have the potential to contaminate the chain of production processes at the chemical plant. As an indicator of the importance placed on cleanliness, the coal stock is stored undercover in a warehouse.

Any system had to be delivered within a short time and the installation would require high levels of cooperation and negotiation with other contractors.

Solution

A Siwertell ST 790-D ship unloader was almost self-selecting because of its exceptional environmental performance and high levels of through-ship efficiency. Also, combining a Siwertell screw-type unloader with a new-design of modular, covered belt conveyors arguably delivered the cleanest possible solution for the power plant.

The main advantage of this conveyor system is the huge reduction in the time it takes to pre-assemble and install the modules. To keep dust creation to a minimum, the conveyor system incorporates belt lifters with dust-extraction filters.

Results

As part of the delivery, Bruks Siwertell also undertook commissioning, testing, and operator training, as well as supplying a stock of essential spare parts.

The new unloader handles coal at a continuous rated capacity of 1,400t/h. It

FACTS

CATEGORIES:

- **Ship Unloading**

MATERIALS:

- **Coal**

CUSTOMER:

PT Asahimas Chemical, Jakarta, Indonesia

ADDITIONAL FACTS:

Unloader model	ST-790-D with two parallel 211m-long modular belt conveyor system
Unloading capacity	1,400t/h
Maximum ship size	12,000 dwt

PRODUCTS:

- Ship unloading

LOCATION:

Cilegon, Banten, Indonesia

FOR MORE INFORMATION, PLEASE CONTACT US

Regional Sales Manager, East Asia
Ola Jeppsson
+46 709741183
ola.jeppsson@bruks-siwertell.com

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is transferred to the warehouse via two parallel 211m-long and 1.6m-wide belt conveyors, forming an integral part of the total cargo handling supply chain to the plant's boilers. The double conveyor system provides redundancy and allows for an increase in capacity in the future.

With its new unloader and conveyors fully operational and securing its coal supply line, the power station is able to meet its capacity requirements and provide for the increasing power demands of the chemical plant. It also achieves this in the most environmentally friendly way possible.