

Case Stories

FROM HOLMHED SYSTEMS AB



Siam Cement Kao Wong, Plant in Saraburi, northern Thailand.

The Kao Wong Plant owned by Siam Cement Company Ltd, has one of the world's largest cement kilns.

The factory was started in September 1992 and the company bought one Brokk 250 from Holmhed Systems AB, including start-up and training.

A Brokk 250 with a hydraulic hammer and steel tracks was used for debricking of the cement kiln.

Some 25 metres (985 in) of coating and bricks were demolished by one person during three hours of effective working time.

25 metres (985 in) in only three hours!

SIAM CEMENT COMPANY LTD in Thailand is one of the world's largest cement producers with a number of plants all over the country. The latest plant Kao Wong in Saraburi, in northern Thailand, was completed in September, 1992. Siam Cement Company was already familiar with the Brokk-machines when they bought one more – a Brokk 250 on steel tracks equipped with a hydraulic hammer TEX 250 – for this project. At the same time a stationary Brokk 3000 with a TEX 600 hammer as optional was bought for boulder breaking in the quarry.

The relining of the cement kiln had to be done very quickly in order to put the factory in production with a minimum of delay and some 25 metres (985 in) of refractory needed to be stripped.

This initial operation was made by one supervisor from Holmhed Systems AB. The work took only three hours with the Brokk and one skilled operator.

Because of the quick demolishing the kiln could be relined and put in production according to the production plan.

After the commissioning, training was arranged in order to instruct the Siam staff how to do this operation themselves in the future.

Important to mention is the very positive reactions from the staff on how the Brokk-equipment improved the efficiency and working conditions for this kind of operation.

The Brokk-method was compared to old methods which were very inefficient, expensive and often dangerous. This kind of operation would have taken at least three days for 4–5 people.

– We were very satisfied with the operation and the Brokk-method is, for sure, the way we will do this kind of work in the future, says Mr. Somwang Manimonchai, chief production engineer at the Kao Wong plant.

– According to our production we always need to have high quality bricks in the burning zone. This means that the bricks need to be changed more or less every year.

– It's of high importance that the de-

bricking can be made fast and with a high sensibility in the equipment, in order not to destroy intact material.

– The Brokk-equipment can, as far as I can see, guarantee an extraordinary safe operation both regarding the personnel and the kiln, adds Mr. Manimonchai.

With old methods the staff needed to operate in the risk zone for falling bricks.

With the electrified Brokk there are first of all no exhaust fumes that cause problems for the operator. Furthermore, the operation is controlled from a remote control box which puts the operator at a safe distance from falling bricks and crust.

There are many qualities with Brokk and here are some of them:

- **Highly manoeuvrable working arm capable of rotation through a full 360 degree operation range.**
- **Hammer with adjustable impact with tilt for easy and accurate positioning.**



Some 25 metres (985 in) of coating and bricks were demolished by a Brokk 250 and one skilled operator, during only three hours of effective working time.

These are the benefits you can achieve by using Brokk:

- **Decreased downtime, increased productivity.**
- **Much shorter repair time.**
- **No damage to the steel shell and bricks to be kept in place.**
- **Much better working conditions.**

If you need a more detailed presentation of the Brokk products and their capabilities please don't hesitate to contact Holmhed Systems AB. Please see address below.



Pictures are illustrative only and do not necessarily show the configuration of products on the market at the given point in time. Products must be used in conformity with safe practice and applicable statutes, regulations, codes and ordinances.



HOLMHED SYSTEMS AB

Member of the SORB INDUSTRI group • VAT No. SE 556115622401

Box 730, SE-931 27 Skellefteå, Sweden • Tel. +46 910 884 00 • Fax +46 910 885 55 • E-mail info@holmhed.se