



BUXTON LIME AND CEMENT, UK

CASE STUDY

Alimak elevator gives access to the lime kiln

Access anytime, anywhere

ALIMAK

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Alimak SE 1200 elevator supplied to provide permanent access to the Maerz Kiln at the lime operation of Buxton Lime & Cement in UK.

An Alimak SE 1200 rack and pinion driven industrial elevator was supplied to Tarmac, for access to the new Maerz kiln at their lime operation in Buxton. The elevator will be used by the station operators, to transport personnel, tools, parts & larger palletised loads, to improve movement, safety & productivity at the facility. In addition the elevator was designed to allow the movement of a stretcher, to enable movement of an injured person from the upper levels of the kiln. The client chose the robust rack and pinion drive, due its proven 40+ year record in heavy industrial environments such as lime and cement production facilities, power stations, chemical plants, ports, steelworks & offshore vessels. The Alimak rack and pinion driven elevator was ideal for interfacing with the irregular shaped kiln structure, as the Alimak support structure could be adapted to suit varying structural distances. Another benefit was the elevator did not require an expensive supporting elevator shaft and machinery room, which is required with other elevators. Alimak also has a small personnel access elevator operating on a storage silo on the same facility.

FLEXIBLE FOR ANY TYPE OF APPLICATION AT A PLANT

A lime plant is a tough place for any piece of machinery to operate in, and the elevator is no exception. Alimak rack and pinion elevators adapt very well to the dusty environment. There is a working solution for any transport requirement within the plant.

Silos, preheaters, electrostatic precipitators, bagging facilities, chimneys and raw mills are typical applications for Alimak elevators. Elevator capacities may vary depending on the size and weight of the goods to be transported – ranging from maintenance personnel only to heavy replacement parts and sacks.



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Alimak elevators are designed to withstand tough environments, such as high levels of lime dust in combination with high temperatures.

ELEVATOR DESIGN

Alimak elevators are designed to operate in demanding industrial environments, outdoors and indoors and require no expensive elevator shafts. The Alimak rack and pinion drive system offers advantages over wire rope and hydraulic elevators. They do not require an expensive machine room as the elevator carries its own machinery and no load bearing elevator shaft is required. The rack and pinion elevator also has safety advantages over traction elevators.

ELEVATOR DETAILS

Location:	Buxton Lime & Cement, UK
Application:	Lime kiln
Elevator type:	Rack and Pinion
Elevator model:	Alimak SE 1200 DOL
Capacity:	1200 kg / 16 passengers (2,600 lbs)
Elevator car size:	1.30 m x 2.08 m x 2.17 m (W x L x H)
Speed:	24 m/m (80 ft/min)
Lifting height:	37.92 m (125 ft)



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