

TUBARÃO COMPLEX, VITÓRIA, BRAZIL

CASE STUDY

Alimak industrial elevator improves access at ship unloader crane at Vale's Tubarão complex

An Alimak SE 500 Industrial elevator was installed at the VALE Tubarão complex, located in Vitória, Espírito Santo, Brazil.

The complex is home to the largest production facility of iron ore pellets in the world and covers an area of 14,000 km². Housing eight of Vale's pellet plants, the complex produces more than 20 million tonnes of pellets each year. It includes the largest rail yard in Latin America and features operational units, an administrative building, cafeterias, bank branches, and a post office.

The complex featured an existing Alimak industrial elevator which was fabricated in 1998 and had come to the end of its working life. Alimak was approached to provide a replacement elevator due to its strong experience and positive reputation providing industrial elevators to the ports and shipyards industry, which improve productivity, enhance safety, and allow efficient transportation of passengers and products.

The Alimak SE 500 FC elevator is built on rack and pinion technology and contains a compact drive unit, which means it does not require a shaft or a machine room. The elevator was installed on a ship unloader crane receiving coal ships at the Tubarão complex. Its durable design and reliable performance allow for outstanding vertical access in challenging or confined environments, and for the efficient transportation of personnel, tools, and heavy loads.



Before



After

ELEVATOR DETAILS

Location:	Tubarão complex, Vitória, Brazil
Application:	Ship unloader crane
Elevator model:	ALIMAK SE 500 FC
Elevator capacity:	500 kg
Elevator size (W x L x H):	0.91 m x 1.0 m x 2.17 m
Speed:	0.9 m/s
Lifting height:	40 m
Number of landings:	4

The Alimak SE ranges comes with a range of car sizes and car door options and is designed to descend safely in the event of a power outage.

The elevator installed within the Tubarão complex is used daily, primarily for shift changes. Alimak was congratulated by the client on providing an efficient access solution which reduces the need for employees to use stairwells which does not create significant noise or vibration while in use.

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