

Alimak lifts at work: Port of Luleå, Sweden



Alimak lift at 26-degree inclination

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Handling more than seven million tons of goods annually, the Port of Luleå in northern Sweden is the country's largest bulk goods port.

In 2007 an ALIMAK SE rack and pinion lift was installed on the ship unloader crane in the port's busy Victoria Harbour section, which handles 2-3 million tons of coal, limestone, scrap metal, and other raw materials annually. The latest installation brings the total number of Alimak lifts in operation at the port to four.

Northern Sweden's cold climate poses challenges for the Port of Luleå's crane operators and maintenance personnel. Alimak rack and pinion lifts increase safety and productivity by making it unnecessary for port employees to endure frigid conditions and climb icy ladders to access cranes and other tall structures.

The ALIMAK SE lift installed in 2007 has three landings, including a base landing at ground level. It was specially engineered with a 26-degree inclination. It has a 300-kg lifting capacity, a lifting height of 12.4 m, and is equipped with frequency control for smooth starting and stopping.

The other Alimak lifts in operation at the Port of Luleå include a 400-kg capacity, 37-m lifting height unit installed on a Man AG ship unloader crane in 1985, a 1400-kg capacity lift installed in 1996 at the 25-m tall iron ore silo located at the industrial quay of LKAB, and a 300-kg capacity, 13.2-m lifting height unit installed on a Kone Crane ship unloader in 1999.

Alimak lifts are designed to operate in demanding industrial environments, outdoors and indoors, with more than 2000 Alimak lifts having been installed in ports worldwide since 1971. The Alimak rack and pinion drive system offers advantages over wire rope and hydraulic lifts. Because an Alimak rack and pinion lift carries its own machinery, it does not require an expensive machine room or load-bearing lift shaft.



DETAILS

Location:	Victoria Harbour, Port of Luleå, Sweden
Installation year:	2007
Application:	Ship unloader crane
Lift type:	ALIMAK SE 300 FC
Capacity:	300 kg
Lift car size:	0.78 x 1.04 x 2.17 m (L x W x H)
Speed:	0.6 m/s
Lifting height:	12.4 m
Inclination:	26°
Crane manufacturer:	Kranbau Eberswalde

www.alimakhek.com

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