

Case study:

Alimak lift provides access inside a wind turbine



Wind Power Plant, Kaiser Wilhelms Koog, Germany

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The Alimak rack & pinion lift provides convenient vertical access inside the wind turbine at a wind power plant in Kaiser Wilhelms Koog, Germany.

An Alimak rack & pinion lift has been installed inside a wind turbine at a wind power plant in Kaiser Wilhelms Koog near Husum, Germany. The Alimak lift features a lifting height of 60 meters and uses Alimak Hek's proven rack & pinion drive system. Alimak Hek has considerable experience with installations within the power industry. The lifts can be found on silos, chimneys, boilers, scrubbers, absorbers, precipitators, and so on, worldwide.

Lift design

Alimak lifts are designed to operate in demanding industrial environments, outdoors and indoors. 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.

The rack and pinion lift also has safety advantages over traction lifts. In a power outage, the car slides back to the nearest landing by gravity at controlled speed using the centrifugal brake. If the rated speed is exceeded, the car is stopped automatically by a safety device.

The range of Alimak industrial lifts includes lifts with capacities of between 300 kg – 2,400 kg and features 30 different standard car sizes, up to a maximum 1.56 m x 3 m. Travelling speeds are up to 1.0 m/sec and lifting heights can be up to 250 m with standard accessories. Special lifts with up to 24-ton capacity have been supplied upon request.



LIFT DETAILS

Location:	Vestas Wind Power Plant, Kaiser Wilhelms Koog, Germany
Installation year:	1997
Application:	Wind turbine
Lift type:	Rack & Pinion
Lift model:	ALIMAK TC-2
Capacity:	200 kg or 2 persons
Lift car size:	0.70 m 0.80 m 2.15 m (W x L x H)
Speed:	0.43 m/s
Lifting height:	60 m
No. of landings:	2

www.alimakhek.com

Alimak Hek AB is ISO 9001 and 14001 certified.

