

Case study:

Alimak lift improves access at LKAB's new pellet loading facility



Malmberget iron ore mine, Sweden

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An Alimak rack and pinion-driven lift has been installed to facilitate maintenance and inspection of the busy loading facility near Malmberget mine's new MK3 pelletizing plant.

New pelletizing plant and loading facility

LKAB's Malmberget mine at Gällivare in northern Sweden is one of the largest iron ore mines in the world, supplying customized iron ore products for blast furnaces and direct reduction. A rack and pinion-driven Alimak service lift has been installed to facilitate the maintenance and inspection of the busy loading facility near the mine's new MK3 pelletizing plant.

The ALIMAK SE 300 lift has a lifting height of 34.5 m and a payload capacity of 300 kg. It is equipped with the very latest ALC-II microprocessor-based control system, an emergency phone, and an overload sensing device. To handle Gällivare's harsh winter climate, the lift has also been equipped with a heated electrical cabinet and motor, as well as an ice scraper on the car roof.

Rack and pinion lift advantages

Alimak lifts are designed to operate in demanding industrial environments, both outdoors and indoors. More than 30000 Alimak lifts have been installed worldwide since the introduction of the first permanent Alimak industrial lift in 1966. Compared to wire rope and hydraulic lifts, the Alimak rack and pinion drive system offers several advantages:

- No expensive machine room or shaft is required
- Can handle curves and inclinations
- Easy to retrofit to existing structures
- Descent possible after power failure
- Easier installation and maintenance

The design and modular construction of Alimak lifts enable specific user requirements to be met from fully standardised components. Capacities range from 300 kg to more than 12000 kg. Lifting heights well in excess of 250 metres are also possible with Alimak rack and pinion lifts.



LIFT DETAILS

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| Location: | Malmberget iron ore mine, Gällivare, Sweden |
| Installation year: | 2006 |
| Application: | Pellet loading terminal |
| Lift type: | Rack & Pinion |
| Lift model: | ALIMAK SE 300 |
| Capacity: | 300 kg (4 passengers) |
| Lift car size: | 0.78 m x 1.04 m x 2.17 m (W x L x H) |
| Speed: | 0.59 m/s |
| Lifting height: | 34.55 m |

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Alimak Hek AB is ISO 9001 and 14001 certified.

