

GRENLAND BRIDGE, NORWAY

CASE STUDY

Alimak construction hoist supports one of Norway's largest bridge projects

Access anytime, anywhere

ALIMAK

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The new Grenland Bridge forms part of the E18 motorway development through southeastern Norway. Spanning the Frierfjord, the cable-stayed structure stretches 605 metres and features pylons rising around 166 metres above the water. During construction, an Alimak™ Scando™ 650 construction hoist provided reliable transportation to elevated work areas on one of Norway's most significant infrastructure projects.

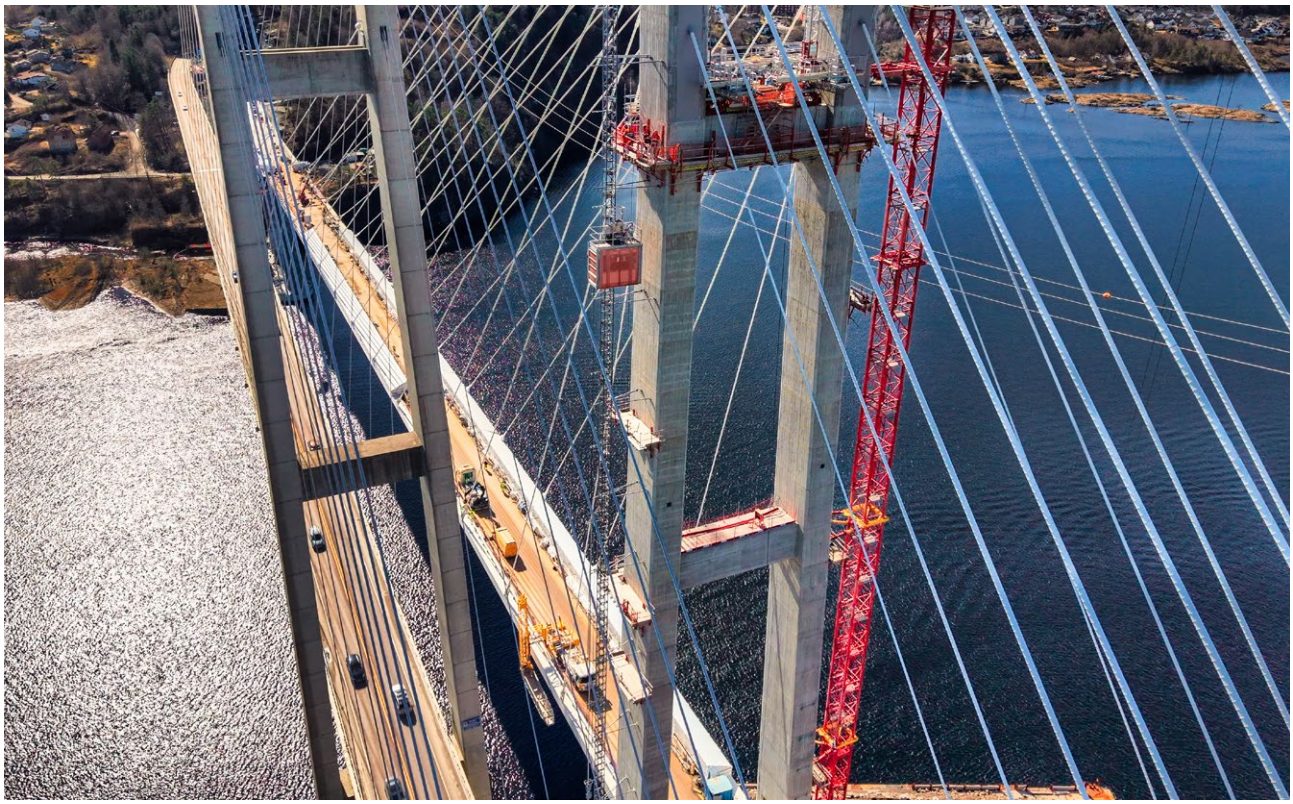
The new Grenland Bridge is a key element of the E18 Rugtvedt-Langangen development, constructed by Eiffage Génie Civil as the main contractor, and designed to improve traffic flow and increase capacity through Norway's Grenland region. The cable-stayed bridge crosses the Frierfjord with a total length of approximately 605 metres and a 330-metre main span. Its construction combines reinforced concrete pylons with large steel bridge segments weighing between 140 and 170 tonnes each.

Built alongside the existing Grenland Bridge, the project required extensive construction activity at height throughout the erection of the pylons, installation of stay cables and assembly of the bridge deck. Multiple construction systems worked together to support progress across the structure while the existing crossing remained in operation nearby.

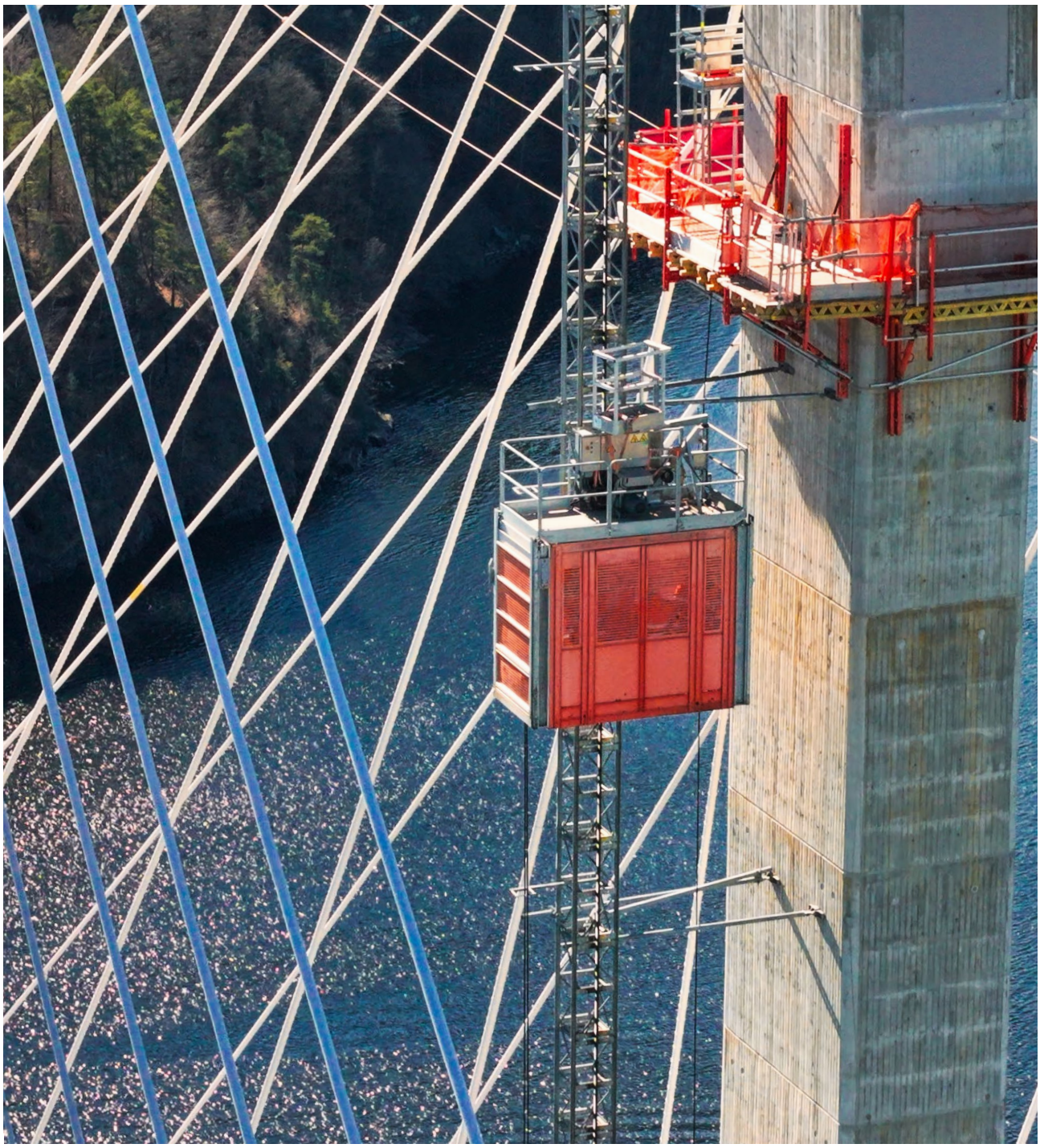
THE CHALLENGE

Construction of a cable-stayed bridge requires continuous movement between ground level and working positions located at various elevations on the structure. While tower cranes handle the installation of major structural components, construction crews also require dependable transportation for day-to-day access during the different stages of the project.

For the Grenland Bridge, efficient access to the bridge pylons and surrounding work areas was essential throughout the project.



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RELIABLE VERTICAL TRANSPORTATION FOR PERSONNEL AND MATERIALS

To support construction activities on the bridge, an Alimak Scando 650 construction hoist, supplied by Alimak's rental and service partner Ramirent, was installed on one of the bridge pylons.

Positioned directly on the structure, the hoist provided transportation between ground level and multiple landing levels throughout the project. The installation enabled crews to reach different pylon levels efficiently while supporting the movement of tools and construction materials required on the structure.

Visible alongside the Alimak hoist are Scanclimber SC5000 mast climbing work platforms, another access solution within the Alimak Group portfolio. While the mast climbing work platforms supported specialised bridge construction activities, the Alimak Scando 650 served as an important transportation link connecting ground operations with multiple landing levels on the bridge pylon.

Working together with tower cranes, temporary work platforms and other construction systems, the hoist formed part of the access infrastructure supporting completion of the bridge.

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SUPPORTING BRIDGE CONSTRUCTION AT HEIGHT

The Alimak Scando 650 provided efficient transportation for both personnel and materials throughout construction of the Grenland Bridge. Featuring a 2,000 kg payload capacity, a 1.5 x 3.2 x 2.3 m hoist car and a lifting height of approximately 166 metres, the hoist supported daily access to multiple landing levels on one of the bridge pylons.

As the bridge gradually took shape through the installation of steel bridge sections, stay cable systems and pylon works, the hoist provided direct access to elevated work areas while complementing the lifting capabilities of the tower cranes operating on site.

The project demonstrates how construction hoists can contribute to major infrastructure developments where access requirements evolve continuously throughout construction. By providing efficient transportation to work locations high above the fjord, the Alimak Scando 650 supported progress on one of Norway's most prominent bridge projects.

EXPERIENCE IN BRIDGE CONSTRUCTION

Alimak access solutions have supported bridge construction projects around the world, including:

- Grenland Bridge, Norway
- Queensferry Crossing, Scotland
- Forth Rail Bridge, Scotland
- Longchuan River Bridge, China
- Huajiang Grand Canyon Bridge, China

From cable-stayed crossings and railway bridges to some of the world's most demanding infrastructure projects, Alimak solutions help contractors maintain efficient access throughout the construction process.

PRODUCT DETAILS

Location:	Grenland, Norway
Main Contractor:	Eiffage Génie Civil
Application:	Cable-stayed bridge construction
Hoist type:	Alimak Scando 650 20-32 FC
No. of hoist cars:	1
Hoist capacity:	2,000 kg
Hoist car size:	1.5 x 3.2 x 2.3 m (W x L x H)
Lifting height:	Approximately 166 m
Hoist provider:	Ramirent

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