NORDIC CRANE IS SCANDINAVIA’S LARGEST PLAYER IN THE MOBILE CRANES AND SPECIALISED TRANSPORT MARKET.

With over 500 cranes and trucks strategically located from Hammerfest in the North of Norway to Malmö in the South of Sweden, Nordic Crane have the resource to fulfil project requirements with minimal lead times. This equipment base teamed with over 700 competent and motivated personnel provides an exceptional platform for clients.

ALE OPERATES ONE OF THE LARGEST Fleets of Heavy Transportation Equipment in the World.

Considered a global authority on moving heavy loads, the company boasts a wealth of highly trained personnel, exceptional project management skills and a proven track record in engineering innovation. As a result, ALE is able to deliver the best heavy lifting and transportation solutions available.
The collaboration of these companies not only brings together two industry experts, but also gives clients the complete transportation and lifting package. This offering enables Nordic Crane Vest AS and ALE to become involved in the project at the earliest opportunity to provide an engineering solution that is built to specification.

Customers of both organisations will reap the benefits of better service, greater expertise and a first class fleet of equipment – all while working to ISO standard.

“The collaboration between ALE and Nordic Crane is extremely positive for the Scandinavian market. Clients will immediately see the benefit of the full service solution that we can offer.” Michael Birch
With a pedigree in innovative engineering and an active R&D facility, ALE has always been known for developing new solutions to meet future needs. Over the years we’ve added to our world-class engineering skills-base through the acquisition of several successful specialist companies, and now we have more than 200 highly qualified engineers working at locations across the globe. This experience means we’re well equipped to support the full FEED process, working through complex technical and logistical issues at an early stage to eliminate expensive changes later on. Our FEED capabilities form a crucial part of the service we offer. ALE has contributed to many high profile projects that have been right at the forefront of global trends in the sector.

In cooperation with the highly qualified engineers of Nordic Crane Engineering we are able to adapt to ever-changing industry requirements, evolving safety standards and scope changes as the project gathers definition during the design process, while at the same time providing solutions which are as cost-effective and safe as possible. As a result, Nordic Crane and ALE are able to work closely with our clients from an early stage to establish what’s required and provide practical engineering advice.

Our contract lift service includes a full turn-key package whereby the complete scope of work is carried out by Nordic Crane Vest AS and ALE. This solution includes a full engineering solution which covers feasibility studies, route surveys, method statements, lift plans and calculations.

“The emphasis that both companies place on HSQE is testament to the commitment and shared values we hold. These shared values, teamed with the wealth of experience, equipment and a service that we can jointly offer makes the Nordic Crane, ALE partnership a first class offering to clients.” Roy Otto
EQUIPMENT

CRANES

Nordic Crane Vest AS have offices in Haugesund and Bergen in addition to our main office in Stavanger. The company is a part of the Nordic Crane Group AS which is Scandinavia’s leading company in cranes and transport. Nordic Crane Group AS have 278 cranes from 10 to 750 tons lifting capacity based on our locations in Norway and Sweden.

In addition to this fleet, clients also have access to ALE’s super heavy lifting cranes the AL.SK fleet which have capacity up to 5,000t.

SPMTs

ALE own one of the largest SPMT fleets in the world. The 360° computer-controlled steering capability of our SPMTs provides a wide choice of build positions, and our trailer configurations are always designed to meet the specific parameters and constraints of each project.

Individual transporters can be hydraulically and electronically linked to provide a support platform matched to the characteristics of the load and the route. In addition, the low ground bearing pressures of our transporter units minimises the need for site preparation or strengthening.

In addition to the cranes and SPMTs Nordic Crane and ALE are able to provide additional services including:

- **JACKING** – Our varied jacking systems enable the controlled and accurate lifting of up to 60,000te weights for installations.
- **SKIDDING** – Skid systems are designed to make precise horizontal movements, and as such are an effective means of moving plant and structures in confined or restricted environments.
- **WEIGHING** – Weighing operations help us to ensure that work is carried out as effectively and cost-effectively as possible.
- **LIFTING SYSTEMS** – Our specialist lifting services and range of gantries ensure that the most suitable equipment is used for the client’s requirements.
- **BALLASTING** – Control of the ALE barge ballasting system can be offered at two levels: locally, via the panel on each hydraulic power pack, or remotely, using in-house designed software. We hold a variety of common barge configurations on database so as to minimise set-up time on new operations.
The Nordic Crane ALE partnership covers major market sectors including:

**CIVIL**

With vast experience in projects such as the removal and installation of innovative road, rail, river and canal bridges, lock gates, stadium roofs and airport architecture, ALE and Nordic Crane have an in-depth understanding of the highly specialised engineering involved in the safe and accurate execution of civil projects.

**OIL, GAS & PETROCHEMICAL**

Nordic Crane’s strong connection with the Norwegian Oil & Gas industry and ALE’s presence in all the major oil and gas centres in the world enables us to work closely with blue-chip oil and EPC contractors to provide lifting, transportation and installation solutions for process plant and equipment. Our engineering and project-management skills enable us to lift and position reactors, convectors, furnaces and other elements during revamps and shutdowns, manoeuvring them with precision often within restricted spaces and timeframes. In addition to our trailers and gantry lift systems, our comprehensive fleet of heavy cranes – including the world’s largest land-based crane – allows us to engineer schemes such as lifting from ‘off the plot’ that were previously impossible.

**NUCLEAR**

Nowhere does our reputation for safety, precision and responsibility carry more weight than in the nuclear power sector. Our understanding of the quality standards of the industry has enabled us to develop strong working relationships with key nuclear energy providers, and from this platform of experience we’re well-equipped to support the imminent increase in nuclear power generation. Manoeuvres can combine lifting, tilting, skidding and hydraulic turning, with activity precisely scheduled to coincide with planned stoppages of the plant and then faultlessly executed. We can also custom-design lifting systems to suit existing station designs – a skill which has won us multiple project awards.

**RENEWABLES**

ALE and Nordic Crane are playing a vital role in the renewable energy sector. Building on our 25 years’ experience in the power sector, we have used our knowledge and experience to create smarter solutions to the challenges created by the increasing size and weight of wind turbines and associated components. With innovative engineering we work to minimise the effect of weather delays and continuously improve health and safety standards. The development of innovative techniques also maximises the commercial savings for our clients in this progressive sector.

**SHIPYARDS & OFFSHORE YARDS**

Nordic Crane is a market leader in supply of lifting services to the offshore yards along the Norwegian coast. ALE plays a vital role in the lengthening of vessels, enlargement or revamping of hulls by moving huge sections and positioning them for welding with complete accuracy and the construction of new builds. We’re regularly called upon to expedite key repairs by removing parts or suspending engines while work is being carried out, and to provide whole block transportation for major ship and submarine building projects including load-out, marine engineering, barging, transportation and lifting. Our vast experience enables us to achieve these feats within strict time constraints, keeping vessels productive until the very last minute for optimum commercial efficiency.
PORTS

ALE has the experience, the skills and the global sourcing contacts to relocate heavy port cranes and cargo handling equipment worldwide and to jack-up heavy cranes using state-of-the-art equipment so they’re ready for new sections to be added. We use our varied fleet of trailers to move cranes both within ports, from port to port, and from suppliers to docks. Having moved a variety of cranes on five continents, we’re trusted by both global and local manufacturers to execute their projects quickly, efficiently and safely. Our continual investment in new design and engineering methods enables us to maintain our position as leaders in this field.

MINERALS & METALS

ALE is experienced in relocating heavy mining equipment onsite and in supporting modularization in new plant construction. Since technical advances have facilitated the building of mines in increasingly remote locations, we’ve worked closely with leading contractors to transport modules across the most inhospitable of terrains.

POWER GENERATION

The energy sector has been one of our core businesses since our inception; consequently we’re world leaders in global power plant lifting and transportation. We’ve collaborated with all the major power equipment manufacturers to develop mutually beneficial technology, and to provide a fully integrated ‘from source to site’ logistical service which takes care of everything from investment and infrastructure to permits and programme. We have vast experience in transporting high-value components such as gas turbines, generators and transformers – including providing delivery solutions for the power trains of CCGT equipment – as well as moving and installing condensers, HRSGs and steam turbines during the build process.
OVERVIEW: Nordic Crane and ALE provided Lifting and transportation services to several stakeholders in the Ormen Lange subsea Compression pilot Project.

SERVICES REQUIRED: In connection with the construction of a test facilities, Nordic Crane Vest AS and ALE commissioned with loading up all the components from Aker’s yard in Egersund, unloading them at Aukra, and transporting them through the facility to the test pit. The ten modules, weighing up to 350t each, then had to be lifted down into the 15m deep test pool. Nordic Crane Vest AS was involved in the project from an early stage and conducted a feasibility study to evaluate various alternative crane solutions for the installation of the components. The most cost-efficient solution for the customer was to lift the components in using a fully rigged Demag CC2800 crawler crane positioned on a solid concrete foundation next to the test pool. The first load consisted of an 18m wide module weighing 380 tonnes. After months of detailed planning of the transport route, which included mapping the clearances along the entire route, the large module was driven ashore from the barge down at the docks of the Ormen Lange plant and along the 2km route through the plant. Once it arrived at the test pit, the module was carefully placed on the foundations at the edge of the test pit. The transport of the modules in the test pit itself was performed in two sessions, roughly one month apart. At the test pit Nordic Crane Vest AS had rigged up a 600-ton crawler crane to lift the modules down into the pit.

OVERVIEW: Nordic Crane Vest AS was commissioned to transport and install a total of 21 2.5 MW wind turbines at the Midtfjellet wind farm.

SERVICES REQUIRED: The work on the installation of the turbines was challenging because of the steep roads and relatively small parking position by each turbine. Extensive planning was thus required to be able to rig the cranes with a jib. The wind turbines were assembled using a 500t mobile crane. At times Nordic Crane had two different cranes working on installation of the turbines at the same time.
CASE STUDY
EDVARD GRIEG EPC PROJECT

OVERVIEW: ALE has successfully undertaken both the load-out and load-in of a 1,260t living quarters module, Norway.

SERVICES REQUIRED: This involved using 60 axle lines of SPMT to complete the site move and load-out of the module onto the UR97 barge, this process was then reversed for the subsequent load-in.

ALE undertook the engineering for the ballasting and SPMTs, the site set-up, the ballast pump system and the winch systems. Working with the client teams, ALE was also involved in the HAZOP and SJA processes.

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CASE STUDY
EGERSUND

OVERVIEW: ALE provided heavy transport operations for various projects at a fabrication facility in Egersund, Norway.

SERVICES REQUIRED: To transport the 85m Subsea Caisson weighing 90te from its fabrication position to the quayside ALE used 24 axle lines of SPMT. To successfully complete the load-out of a 450t process module ALE used 18 SPMT axle lines and ALE’s ballasting and links system. Ten Ormen Lange test pit. Finally eight 400t subsea templates were transported to a heavy lift vessel, ALE used 18 SPMT axle lines to achieve this.