

Project Logistics

# Engineering

Customised support throughout every stage of the process with the highest Health, Safety & Environment standards.



# Engineering

## Are you looking for customised transport and marine engineering solutions for the safe handling of heavy and oversized project cargoes?

### Meet the demands of heavy-lift shipments

Project forwarding today is exposed to greater risk due to voyage restrictions and unattended loading operations. Challenges also arise from the increasing application of offshore standards to occasional vessel operations. This requires a greater workload and more resources in order to meet these demands. At the same time, it is increasingly difficult to find well-trained personnel to handle heavy-lift shipments. The Kuehne+Nagel engineering team is on site and understands the specific challenges of complex projects. Our specialists will carry out feasibility studies for you, as well as provide technical support, method statements, route surveys and swept path analyses.

From the planning stage onwards, we communicate directly with your technical offices to clarify uncertainties, evaluate complex projects in advance and optimise them for transportation. Our engineering team provides early support with sophisticated and customised solutions to meet your needs, with the highest standards in all operational matters.

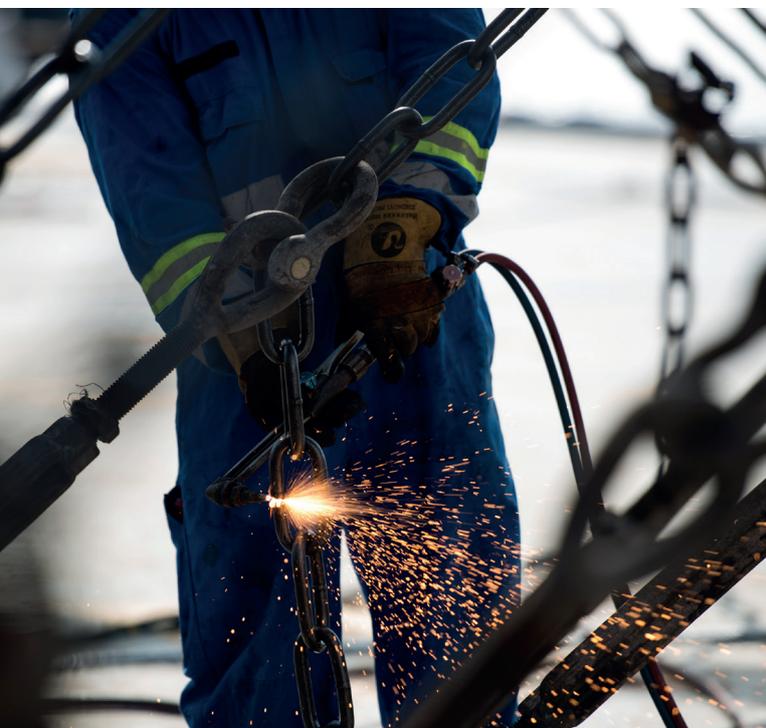
Above all, we offer broad technical knowledge within all modes of transportation by sea, land and air, to provide a safe transportation from origin to destination. Our in-house consultancy deals with all legal aspects and takes care of the technical clarification. In addition, you benefit from our long-standing relationships with major heavy-lift carriers.

### Reducing CO2 emissions in project logistics

Today, the logistics industry contributes to about 8% of global CO2 emissions. Project logistics often requires a combination of different transport solutions, which can further increase the carbon footprint of a project. With the launch of its zero carbon goals, Kuehne+Nagel has committed to reducing CO2 contribution and offering customised, environmentally friendly and sustainable supply chain solutions to our customers. Leveraging our digital platforms, Kuehne+Nagel can work with you to optimise your choice of transport routes and means, to build sustainable supply chains.

### Take advantage of our services:

- Technical consultancy
- Creation of CAD-based technical drawings and design studies
- Method statements
- Transport calculations
- Feasibility studies and route surveys
- Swept-path analysis
- Photogrammetry and 3D-scanning for real-time footage
- Preparation of cargo stowage plans
- Lashing and lifting arrangements
- Load out supervisions
- Job site installations





## Full engineering support

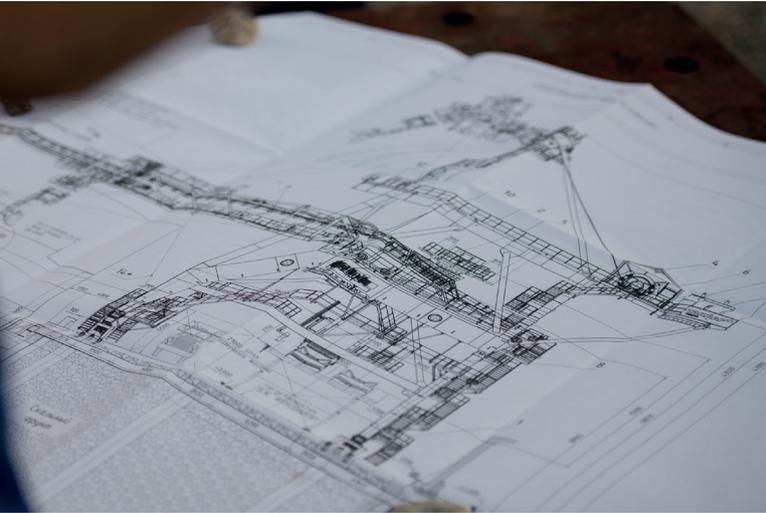
Heavy and oversized cargo requires a special approach and individually tailored solutions, as well as a range of in-depth marine and transportation engineering capabilities. That is why our in-house global engineering network offers customised strategies for complex projects – from start to finish. For route surveys, our experts use the latest innovations to identify route challenges: Drone technology and photogrammetry are used to create

a 3D terrain image to simulate route alignments and take safety measures in advance. We provide consulting services to optimise heavy-lift and cargo structure design. This includes conducting necessary feasibility studies, individual lifting and lashing calculations, and evaluating cargo stowage plans to avoid unpleasant surprises or delays in the construction schedule. If special lifting and storage equipment is not available, we will design, manufacture and test it for safe cargo handling.

## Health, Safety and Environment policy

At Kuehne+Nagel, we provide the highest standards of Health, Safety and Environment (HSE) management at all times. We minimise accidents or workplace-related illnesses by implementing HSE management and quality assurance at all levels and through mandatory training. This applies not only to our employees, but also to everyone working on our premises, our business partners, customers, and the environments in which we operate. Using our web-based HSE tool enables immediate actions and clear insight into operations from an HSE perspective. Our standards are compliant with the common global certifications: ISO 9001 (Quality), ISO 14001 (Environment) and ISO 45001 (Safety & Health). All our employees and customers have access to our HSE tool and can report incidents, unsafe conditions, as well as positive observations.

# Project Logistics



## Your benefits:

- Own in-house engineering team
- Single point of contact for all technical matters, including management of third parties
- Consulting services on equipment design and development
- 2D and 3D model simulation of operations
- Verification of all third party equipment operations, calculations and documentations
- Design, manufacturing, and testing of handling and lifting equipment
- Lower risk exposure to cargo damage
- Highest standards in HSE (Health, Safety and Environment)

## Kuehne+Nagel Project Logistics at a glance



### Global Network

60+ countries, connected by our network



### Industry Expertise

Over 950 experts ready to support you



### Technology Leader

Leading technology and customised IT solutions



→ Get in touch today

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## About us

Kuehne+Nagel Project Logistics provides services for unique cargo projects that require special handling, chartering of vessels or heavy-lift services by sea, air, road or rail with focus on customers from renewable energy logistics, industrial projects and marine logistics globally.

[www.kuehne-nagel.com](http://www.kuehne-nagel.com)